[Report of the Medical Officer of Health for Woolwich].

Contributors

Woolwich (London, England). Metropolitan Borough.

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METROPOLITAN BOROUGH OF WOOLWICH

ANNUAL REPORT

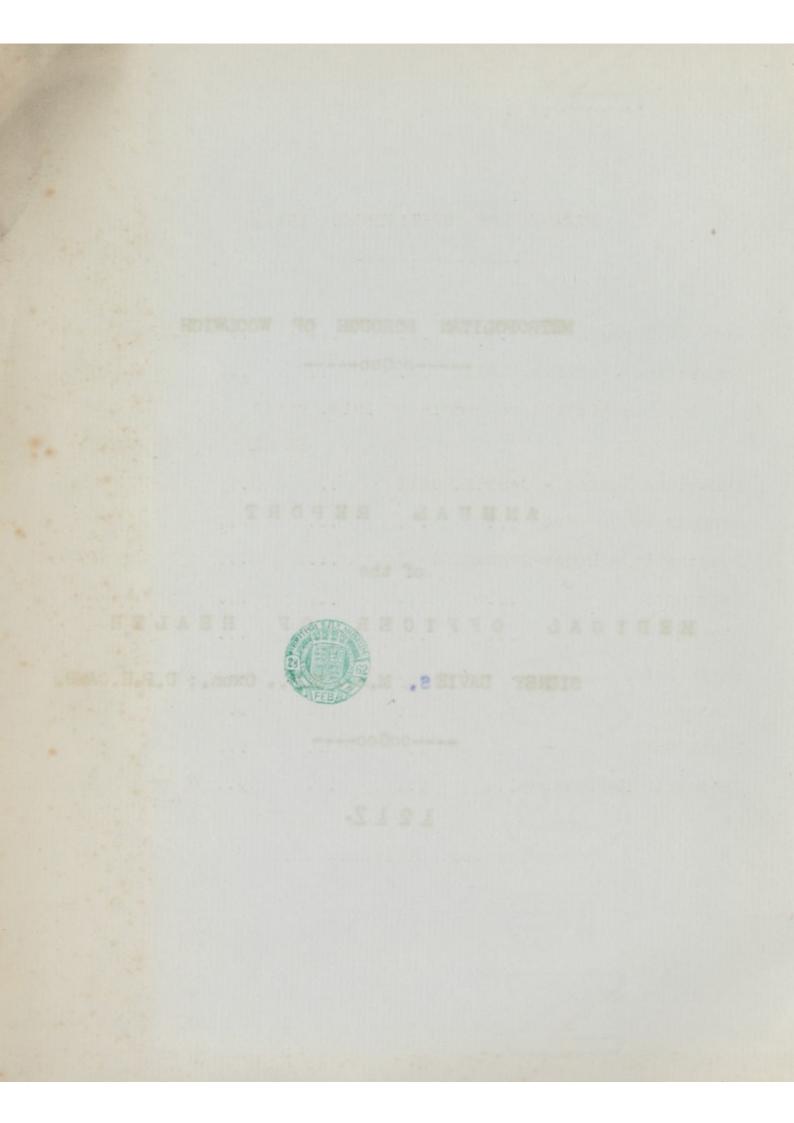
of the

MEDICAL OFFICER OF HEALTH

SIINEY DAVIES, M.A., M.D., Oxon.; D.P.H.CAMB.

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1917.



SUMMARY OF STATISTICS, 1917.

Area of Borough					8,276.6 acres.
Population - Census	, 1911				121,376
do. estimated	to mid	dle of	1917, civ	il	146,503
			Tota	al	157.973
Inhabited Houses -	Vensus,	1911			21,463
Persons to an Acre					14.7
Persons to a House-	Census,	1911			5.65
Marriages					1,445
Births					2,698
Birth Rate					17.1
Deaths			•		1,550
Death Rate					10-6
Infantile Mortality		• • • •			79 per 1,000 births.

PREFACE

To the Mayor, Aldermen and Councillors of the Metropolitan Borough of Woolwich.

Mr. Mayor, Ladies and Gentlemen,

I have the honour to present you with my 17th Annual Report on the Health of Woolwich. The report is much abbreviated owing to war conditions and the usual tables are omitted. They have, however, been prepared and are kept for reference.

The general health of the Borough has been wonderfully good in spite of the enforced change of diet and other conditions caused by the war.

The reduction in infart mortality has not quite kept pace with that of the general death rate, although for the first time Woolwich had the lowest infant mortality of any metropolitan borough. No doubt the favourable atmospheric conditions, and the reduction in alcoholism, as the result of the action of the Liquor Control Board, are largely responsible for the low death rate.

I have to acknowledge with thanks the support which you have given to my proposals for improving the public health.

I am,

Mr. Mayor, Ladies and Gentlemen,

Your obedient Servant,

SIDNEY DAVIES.

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ent to avoilioned bus neweell royal and of the Matropolitan Borough of Woolwich,

Mr. Mayor, Ladies and Gentlemen.

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Lette T

Mr. Mayor, Ladies and Gentlemen.

Your bedient Servent.

SIMBY DAVISS.

SEVENTEENTH ANNUAL REPORT

on the

HEALTH OF THE METROPOLITAN BOROUGH OF WOOLWICH
Year ending 31st December 1917.

PART 1.

STATISTICS.

Population.

1. The population of the Borough of Woolwich, as estimated at the Census of 1911, was 121,376. The estimated civil population to the middle of 1917 is 146,503.

The population of the four Registration Districts at the last three Censuses was as follows:-

	Census 1891	Census 1901	Census 1911	Estimated to middle of 1917
Woolwich Parish	40,848	41,625	36,710	33,605
Plumstead Parish West)) East)	52,436	(38,569 (29,758	40,328	43,098 39,424
Eltham Parish	5,710	7,226	13,450	30,376
	98,994	117,178	121,376	146,503

The estimated increase of the civil population from June 1916 to July 1917 is 9,780.

The following figures show how the number of persons to a house in Woolwich and Plumstead has varied during the past four Censuses:-

THOSE JAMES HTHEFTHEYS

on the

HEALTH OF THE METROPOLITAN BOROUGH OF WOCLWICH

Year ending Sist December 1917.

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STATISTICS

Permission.

The population of the Borough of Woolwich, as estimated of the population to the middle of 1917 is 146,803.

The population of the four Registration Districts at

45,098		

The established from the other of the civil population from the lots to Joly 1017 to 0,780.

The following figures and work was varied during the past

			MOOLWICH	PLUMSTEAD
Census		 	-	6.08
,,	1896	 	-	6.14
,,	1901	 	7.85	6.05
,,	1911	 	7.27	5.34

2. The estimated population of soldiers in Barracks in March 1917 was 11,470, making the total population 157,973. The civil population is used for all statistical rates except the Borough birth rate.

The Registrar-General estimates the civil population at 130,213.

In the Annual Report for 1913, on pages 15 to 19, tables were given showing the age distribution and condition as to marriage of the population, the proportion of males and females compared with London and England, and the classification of buildings, and in the Report for 1914, the number to a house in each Ward.

3. The following table shows the number of new houses certified for water each year since the Census of 1911:-

New	Houses,	April 1st	. to June 30th, 1911	34
	**		1911 to June 30th, 1912	93
,,	,,	July 1st.	1912 to June 30th 1913	141
,,	,,		1913 to June 30th, 1914	254
,,	,,		1914 to June 30th, 1915	170
,,	,,		1915 to June 30th, 1916	139
,,	,,	July 1st.	1916 to June 30th, 1917	36

New Houses, 1916-7:-

Woolwich		-
West Plumstead	- 0	4
East Plumstead		7
Eltham		25

The following are the numbers of new houses and huts erected by the Government for Munition Workers from 1915-1917:-

Houses 1,269 Huts 1,904

4. Unoccupied Houses. At the 1901 Census, there were 234 unoccupied houses in the Borough, viz., 46 in Woolwoch, 86

in Plumstead, and 102 in Eltham. At the 1911 Census, there were 1,296, viz., 450 in Woolwich, 387 in West Plumstead, 250 in East Plumstead, and 209 in Eltham.

In January, 1916, the Rate Collectors found 57 houses unoccupied. viz., 7 in Woolwich, 13 in West Plumstead, 5 in East Plumstead, and 32 in Eltham. There are now practically no houses fit for occupation to let.

BIRTHS.

5. The number of births was 2,698, viz., 657 in Woolwich parish, 752 in West Plumstead, 736 in East Plumstead, and 553 in Eltham (corrected for children born in the Infirmary, and the Wood Street Home for Mothers and Babies, whose parents reside outside the Borough, and births in outlying institutions added on). The birth-rate (calculated on the total population) 17.1 compares with 21.7 in 1916, and with 23.7 the average for the ten years 1906-15. The rate for the County of London was 17.5.

Notification of Births. 2,550 live births were notified under the Notification of Births Act (1,272 males, 1,273 females, 5 not stated). This is at the rate of 95 per cent of the registered births, compared with 94, 92, 89, 97 and 86 per cent in the five preceding years. 1,536 births were notified by midwives, 137 by the Home for Mothers and Babies, 325 by medical practitioners and 552 by other persons. 88 still-births were notified (64, 79, 59, 75 and 77 in 1912 to 1916 respectively). Of the still-bern, 44 were males and 44 females.

The Notification of Births Act was adopted on March 1st. 1908. There were 148 births last year which were not notified. All the midwives and Doctors who neglected to notify were cautioned. The excuse generally given was that the notification must have been lost in the post.

6. The following table gives the birth rate of the Borough during the years 1901-5, 1906-10, 1911-1915, 1916 and 1917, and, for the purposes of comparison, the corresponding rates of the neighbouring Boroughs, London, and England:-

in Flumescood, and 102 in Mitham, At the 1911 Concus, there were 1,200, viz., 450 in Wookinh. Sar in West Phunsteed, 200 in Heet Plumsteed, and 209 in Hithem.

In Jamusty, 1918, the Rate Collectors found S7 houses und compied, vis., 7 in Woolwich. 15 in West Plumstead, 5 in East Plumstead, and 32 in Elthum, There are now prestically no houses fit for ecoupation to let.

BRUBERS

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Holifichtion of Births, 2,550 live births were notified, under the Holifichtion of Births Act (1,272 males, 1,375 females, ander the Holificht of the regime to the stated of the regime term birth 94, 92, 69, 97 and 68 per cent to the regime five preceding years, 1,550 births were notified by midwives.

187 by the Home for Mothers and Babies, 285 by medical precification ere and 581 by other percent, 68 still-births were notified to the females and 591 to 1918 respectively).

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1908. There were 168 births last year which were not notifyed.

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	1901-5	1906-10	1911-15	1916	1 1917
Greenwich Borough Lewisham West Ham East Ham Erith London England & Wales Woolwich Borough	27.6 25.7 33.1 33.8 34.1 28.2 28.2 29.2	26.5 23.3 31.4 26.5 26.0 25.3	25·1 20·2 29·7 24·4 24·8 24·7 23·5 22·2	24.6 20.4 28.8 22.1 23.1 23.0 21.6 21.7	21·1 16·5 23·2 18·5 20·0 17·4 17·8 17·1

7. The following table gives the birth-rate for the Borough and each Registration District for the five past quinquennia and for 1916 and 1917, the rates for the Registration Districts being calculated on the civil population. Correction has been made for births in the Infirmary, the Wood Street Home for Mothers and Babies and outlying institutions, and the births distributed to the parishes to which they properly belong.

West Plumstead and Eltham had the lowest birth-rate of the four Registration Districts. Although the birth-rate in Eltham has fallen very much since 1916, it was still higher than in the five years 1911-15. The greatest decrease since 1911-15 is in the parish of Woolwich.

	1891 to 1895	1896 to 1900	1901 to 1905	1906 to 1910	1911 to 1915	1916	1917
Woolwich Borough Woolwich Parish Plumstead - West)	32.5	30.1	29.0	25·3 27·9	22.2	21.7	17·1*
East	33*3	31.0	30.1	24.7	20.7)	51.6)	17.40
Eltham Parish	22.8	20.6	24.0	21.6	22.7)	20.5)	18.7%

*Total population used.

©Civil population used: number of soldiers not known, but very small.

8. Illegitimate Births. 101 of the births registered were illegitimate, giving a rate of 37 per 1,000 births, compared with 17, 23, 21, 29 and 34 in the five preceding years. The steady increase since 1914 is probably but a very partial measure of the increased immorality due to war conditions.

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1-12 0-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20-16 20						
Hard & Wales 20-2 20-6 10-8 20-6 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8 10-8						
				-88		
	DESCRIPTION OF THE PERSON OF T					

MARRIAGES.

9. There were 1.445 marriages. The marriage-rate was 19.7 compared with 17.7.27.1 and 23.7, in the three preceding years. The marriage-rate in England and Wales was 13.8 and was the lowest on record.

DEATHS.

- 10. Table 1 gives the gross and net deaths and death rates in 1917 and each of the past fifteen years, and shows how the net deaths are arrived at.
- 11. The net deaths were 1,550, and the net death-rate 10.6 compared with 13.7 and 12.3 in the two preceding years and 12.5 the average of the ten years 1905-1914. This is the lowest rate ever recorded.
- 12. The following table shows the death-rate of Woolwich compared with London and the adjoining Boroughs:-

		1917
England and	Wales	 14.4
96 great to	wns	 14.6
London		 15.0
Greenwich		 15.1
Lewisham West Ham		 11.6
East Ham		 14.5
Erith		 9.6
WOOLWICH		 10.6

Woolwich had the lowest death-rate of all the Metropolitan Boroughs.

13. The following table gives the average death-rate in each Registration District of the Borough during the past six quinquennial periods, 1916 and 1917.

Woolwich parish had the highest death-rate and Eltham the lowest.

MARRIAGES:

9. There were 1.445 marriages. The marriage-rate was 19.7 compared with 17.7.272 and 25.7. In the three preceding years. The marriage-rate in England and Wales was 15.8 and was the lovest on record.

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IS. The Yollowing table shows the desth-rate of Woolwich compared with London and the edjoining Borocchar-

England and Wales ... 14.6

So great towns ... 15.0

Greatwich ... 15.0

Lewisham ... 14.6

Rest Ham ... 14.5

East Ham ... 14.5

East Ham ... 14.5

Woolwich had the lowest destin-rate of all the Metropolitan

13. The following table gives the average death-rate in each Registration District of the Sorough during the past six authquannial periods, 1916 and 1917.

Woolwich partich had the highest death-rate and

	1886 to 1890	1891 to 1895	1896 to 1900	1901 to 1905	1906 to 1910	1911 to 1915	1916	1917
Woolwich Borough Woolwich Parish* Plumstead - West)	20.4	17.2	30.1	13.9	12.5	12.7	12.3	10.6
East	16.4	16.0	15.1	12.9	12.0	13.5)	12.6)	11.8
Eltham Parish London	20.0	13.0	14.6	10.5	10.1	11·8) 8·9 14·7	10·2) 8·5 14·3	8·4 8·0 15·0

*Three years - 1888. 1889 and 1890.

This table shows that the diminished death-rate affected each part of the Borough, but Woolwich parish least, and that there was an increase in London. The marked fall in the death rate though no doubt largely attributable to the satisfactory sanitary and industrial conditions, absence of poverty and diminished drinking, must not be put down entirely to these causes. It is partially due to the influx of a young adult population with a low mortality.

14. The following table gives the numbers dying at various ages in the past twelve years from all causes, and the deaths at all ages from certain diseases not hereafter referred to:-

Annual Deaths -- 1903 to 1917.

	-					Age P	eriod					
Year	Un- der 1	1-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55	55-65	65-75	75 & over
1903-7 (aver.)	402.4	102.8	43.4	27	31.4	44.8	104.2	138*4	155.6	174.8	201.4	
	250.4	131.4	41.4	23.4	33.2	33.2	87.4	127	146.6	199.2	211.6	203.8
1913 1914 1915 191€ 1917	229 239 268 215 214	93 141 136 105 113	34 52 62 40 28	25 33 28 33 34	44 47 47 41 41	48 35 41 37 33	109 97 93 99 96	134 147 170 160 116	177 184 210 200 179	208 225 246 224 221	240 246 269 269 243	239 244 263 260 232

Three years - 1888, 1889 and 1890.

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Amnual Deaths -- 1903 to 1917,

						2 1 1 1 1 1 1 1 1 1	
Deaths from	Average 1903-7	Average 1908-12	1913	1914	1915	1916	1917
Apoplexy and all other diseases of heart and blood-vessels	217.4	258*8	312	332	351	319	283
Nephritis and Bright's disease	44	47	57	46	47	45	48
Respiratory diseases - all forms (except Phthisis)	260.8	228*4	254	287	385	299	302

The deaths under one, from 5-10, from 20-25 and from 35-45 were the lowest recorded, and those from 1-5 much below the average of previous years. The deaths from 10-20 have remained at the same level during the four years of war, but this level is much higher than in previous years. Probably there has been a great increase of population between the ages of 14 and 20, rather than any increase of mortality. There was a further decrease of deaths from apoplexy and diseases of the heart and blood vessels; but respiratory diseases remained at a much higher level than before the war.

15. The natural increase of the population (i.e., the excess of births over deaths) was 1,148 compared with 974 in 1915 and though smaller than in previous years, this increase compares very favourably with conditions in enemy towns.

IN FANT MORTALITY.

16. The deaths under one year were 214 compared with 215 in 1916. The infant mortality (deaths under one year per 1.000 births) was 79. This is the lowest rate recorded with the exception of 1916 and 1912.

The following table gives the infantile mortality in the Borough since 1901, compared with the neighbouring Boroughs, London and England:-

	1901-5	1906-10	1911-15	1916	1917
Lewisham Greenwich West Ham East Ham Erith London 97 great towns England & Wales WOOLWICH BOROUGH	112 107 158 131 112 138	92 112 126 106 80 114 127 115 97	81 103 114 80 77 108 117 109 86	72 83 98 78 60 89 98 91 70	87 101 105 85 83 103 104 97 79

Woolwich had the lowest infantile death rate of any Metropolitan Borough, and for the first time in recent years the rate was lower than in Erith.

17. The following table gives the infantile mortality during the past two years, and the six preceding quinquennia in the Borough and each Registration District:-

	1886 to 1890	1891 to 1895	1896 to 1900	1901 to 1905	1906 to 1910	1911 to 1915	1916	1917
Woolwich Parish Plumstead - West)	151	157	170	134	109	101 75)	84 54)	97
East)	121	120	132	113	91	81)	(65)	
Eltham Woolwich Borough		163 140	160 146	97 119	89 97	67 86	83	84 67 79

*1888, 1889 and 1890.

Eltham once more had the lowest infantile mortality, and West Plumstead the next lowest.

18. Table IV. gives full details as to the ages as death and causes of death of the infants dying in 1917 under one year. It shows that 42 per cent of those who died under one year were under one month old, compared with 49 per cent in 1916, and 37 per cent in the previous ten years; 49 deaths were from premature birth, compared with 52, 41, 53, 55 and 55, in the five preceding years. The number of deaths under one week in the past five years was 58, 68, 55, 73, and 57 respectively.

The number of deaths from suffocation or overlying was 5 compared with six in 1915, and nil in 1916. In the previous

101 105 105 85 85 103	272 88 89 80 80 80		
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Woolviet and the lowest infuntile death rate of any first time in recent years the

the past two years. and the six preceding quinquentle in the

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The number of deaths from sufficeation or overlying was a new previous a compared with six in 1916, and nil in 1916.

four years the deaths from suffocation in bed averaged four a year, and in the four years 1904-7 they averaged 7. Alcoholism among women is no doubt the chief cause of overlying, but, in view of the decrease of alcoholism, it is probable that fatigue due to long hours at industrial occupation may be an important factor.

The death-rate per 1,000 births from premature birth in Woolwich Borough was 17.8 compared with 18.9, 14.2, 20.5, 19.5 and 17.9 in the five preceding years. In London it was

There were 22 deaths of illegitimate infants. The death-rate of illegitimate infants under one year was 218 per 1,000 births (compared with 246 in 1916) and that of legitimate children 74.

- 19. Compared with 1916, the past year had among infants more deaths from bronchitis and pneumonia. and fewer from premature birth.
- 20. Deaths between 1 and 5 years. 57 deaths (55 in 1916) occurred between 1 and 2 years, and 56, (50 in 1916) between 2 and 5. The corresponding figures in 1913 were 55 and 38 respectively. The death-rate between 1 and 5 was 10.7 per 1,000 children of that age found at the Census (viz., 10,357), compared with 13.6, 13.1 and 10.1 in the three previous years.
- 21. Zymotic death-rate. The number of deaths from scarlet fever, diphtheria, measles, whorping cough, enteric fever, and from diarrhoea and enteritis (under 2 years of age as regards diarrhoea and enteritis) was 101 and the death rate per 1,000 population 0.69 compared with 0.98, 0.95 and 0.85 in the three previous years.

The zymotic death-rate has fallen greatly since 1901, when it was 1.51.

22. Inquests. There were 131 inquests, compared with 105, 123, 146, 180 and 181 in the five preceding years.

The following table gives particulars as to the cause of death:

1. 2. 3.	Natural Causes Alcoholism Accidental Causes	:::	:::	71 1
	Burns and Scalds		7	
	Drowning Vehicular traffic:-		6	
	(a) By road (b) By rail		11	
	Explosions		2 4 4	
	Suffocation - Overlying Other Accidental causes		18	52
4.	Homicidal Cases			
	Suicide		5	
	Murder and Manslaughter		2	7
		otal		131

The "Accidental Causes" were 35, 37, 39, and 63, in the four preceding years. The "Homicidal Causes" were 11, 21, 13 and 12 in the same years. The reduction of accidents and homicide is very satisfactory.

SMALL-POX.

23. Not a single case of small-pox was notified in Woolwich or in London.

MEASLES.

- 24. There were 31 deaths from measles, giving a rate of 0.21 compared with 0.19, 0.33 and 0.17 in the three preceding years. The rate in London County was 0.47.
- 25. Of the 31 who died from measles, 30 were under five years of age; 16 were males and 15 females.
- 26. 1,710 notifications were received under the Local Government Board Order, compared with 1,590 in 1916. The mortality per cent of notifications was 1.8 compared with 1.4 in the preceding year.

45 cases were removed to the fever hospital on the certificate of the Medical Officer of Health that isolation was necessary, compared with 10 in 1916.

Homeout Coses ---The Phot Idential Causes tere 35. 37. 39, and 63, in orgi, compared with Orig, Cras and Orly in the three preceding

27. The following table gives the number of deaths and death-rates from measles for the past four years, and four preceding quinquennia in each parish and the death-rate in London:-

		Woolwich		Plumstead		Eltham		oraugh	London
Year	Aver. No.	Rate	Aver. No.	Rate	Aver. No.	Rate	Aver. No.		Rate
1891-5 1896-1900 1901-5 1906-10 1911-15 1916 1917	20 34 9 17 12 8 13	0.49 0.81 0.23 0.43 0.30 0.24 0.39	29 36 15 18 14 15 11	0.57 0.22 0.23 0.19 0.19 0.16	Not red Not red 1 3 2 - 7		49 70 26 37 27 23 31	0.51 0.67 0.21 0.30 0.21 0.17 0.21	0.59 0.57 0.44 0.40 0.42 0.19 0.48

The actual reduction in measles mortality is not quite so large as appears from the above table, owing to the fact that the falling birth rate has caused a diminution in the number of children living under five years.

The following table giving the deaths and death-rate per 1,000 births shows the reduction more accurately:-

1007 05 /-		No.	Rate.
1891-95 (a	verage)	49	14.7
1896-1900	,,	70	20.9
1901-05	,,	26	7.2
1906-10	,,	37	11.8
1911-15	, ,	27	9.8
1916	,,	23	7.5
1917	, ,	31	11.5

It appears from these tables that whereas from 1891-1900 Woolwich had a somewhat higher measles' mortality than London, since that date the measles death-rate has greatly diminished, and diminished much more in Woolwich than in London.

28. To prevent the spread of measles in school, the Medical Officer of the London County Council continued to close, or exclude unprotected children from classes on the occurrence of one or more cases. The period of exclusion or closure was usually for a few days only, in some cases for two weeks.

Notification. By Order of the Local Government Board made under S.130, P.H.A., 1875, Measles and German Measles were made compulsorily notifiable from January 1st. 1916, (see Council's Minutes, December 22nd. page 93).

27. The following table gives the number of deaths and . Cost water from president four years, and four president four grants and four paths to beadon:

		mid.Fill			
			TOVA .		
	70 28 37 37 27		28 15 16 18 14 12		1917 1918 1901-10 1901-2 1901-2 1901-2

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Motification. By Order of the Local Government Board made under S.180.P.A.A. 1875. Messies and Oprose Messies were made compulsorily nobificable from January 1st. 1916, (see

1,710 cases of Measles were notified compared with 1,590 in 1916. Of these 713 were under five years of age, 791 between five and fifteen, and 206 over fifteen. The largest number of notifications was in Eltham, viz., 613.

In addition, 868 cases of German Measles were notified. The cost of notification was £86. 19. 0.

The case mortality was 1.8. In Woolwich Parish it was 3.3, in Plumstead 1.5 and in Eltham, 1.1.

The Health Visitors visited all notified cases, gave advice as to isolation, cleanliness, ventilation, etc., and, where it seemed desirable, and the friends approved, the District nurse was requested to attend.

Fewer cases - 139 compared with 236 - were nursed in 1917 than in 1916. This is partly because North Woolwich was but slightly affected last year and in North Woolwich the nurses visit every case notified. Of the 139 cases visited by the District Nurses, 53 were in Woolwich (13 in North Woolwich), 28 in Plumstead and 58 in Eltham. These visits were paid by the Borough Council, according to the arrangements made in 1916, at a cost of £51. 19. 6.

It is satisfactory to note that although the number of cases was probably much above the average, the deaths were below the average of the previous ten years.

WHOOPING COUGH.

29. There were 10 deaths from whooping cough. The deathrate was 0.07 compared with 0.19, 0.03, and 0.25 in the three preceding years, and 0.13 in the County of London. Six of the deaths were under two years of age.

The following table gives the deaths and death-rates per 1,000 population since the Borough was formed, compared with London:-

		Wool	wich	London		
		No.	Rate	Rate		
1901-05	(averages)	34	0.28	0.35		
1906-10	,,	26	0.21	0.29		
1911-15	,,	17	0.14	0.21		
1916	,,	34	0.25	0.18		
1917	,,	10	0.07	0.13		

The death-rate per 1,000 births was 3.7 compared with 11.1 in 1916. The death rate was the lowest recorded with the exception of 1911.

In 1913 an Order was issued by the Local Government Board giving permission to the Asylums Board to admit to their hospitals children under 14 suffering from whooping-cough, on the recommendation of the Medical Officer of Health. No cases were admitted during the year.

Instructions printed on cards are left at houses where cases are notified by school teachers. The instructions were printed in the Annual Report for 1910.

SCARLET FEVER.

- 30. There were 145 cases of scarlet fever notified (deducting two cases of mistaken diagnosis), equivalent to a rate of 0.99 per 1,000 population, compared with 1.69 in 1916. This is the lowest rate recorded.
- 31. The following table shows the case-rates of scarlet fever in the Borough and each Registration District during the past fifteen years, compared with London:-

			Aver	age					
	1901	1906 -10	1911	1912	1913	1914	1915	1916	1917
Borough Woolwich Parish Plumstead-West	2.99		2.89	3·80 2·41 4·96	4.80 5.44 4.68	5·46 6·11 5·45	4·31 4·48 4·0	1.69	0.99 1.19 0.84
East (Eltham Parish London County	3.21	4.94	(7.51	4.88 2.64 1.76	5·11 4·36 3·89	4·18 7·45 5·53	6.55 3.85 3.94	1.98) 1.67 2.06	0.74 1.38 1.52

- 32. Table III gives the age distribution, the number in each parish and the number removed to hospital. Eltham was most affected.
- 33. Deaths. There was one death, giving a death-rate of 0.01 per cent compared with 0.03 in 1916, 0.06 in 1915, 0.08 in the five years 1908-12, and 0.19 in the ten years 1891-1900. The death-rate in Lordon was 0.02 compared with 0.03 in 1916. The case mortality (or deaths per cent of notifications) was

niest of times of brand excited and of metes hines printly brook, on the control of the spirit of the whooping cough, on of disease to repited fasibeM and to meliabne moost and were printed in the Amage? Report for 1910, pertition laves ference to seems at some seat the companies of the pertition to see the companies of the comp Sign for to the same and same at the constant of Elthad Paitsh 0.7 compared with 1.3, 1.4 and 1.7 in the three preceding years. The death rate is the lowest recorded.

- 34. Hospital Isolation. Of the 147 cases notified, 125 (or 85 per cent) were removed to one of the fever hospitals, compared with 88, 90, 88, 85 and 91 per cent. in the five preceding years.
- 35. Home Isolation. Six certificates of efficient home isolation were given to enable men to continue their employment in the Arsenal, and so obviate unnecessary removal to hospital, compared with 31, 15, and 18, in the three preceding years.

In the Annual Report for 1911 a comparison was made between home and hospital isolation, showing that, whereas there were only 1.6 per cent. of failures in home isolation, there were 4.6 per cent in hospital isolation. Failure means the occurrence of secondary cases attributed to the primary case.

36. The Annual Report for 1905 contained a special report on a statistical investigation into school incidence of scarlet fever and diphtheria during the ten years 1896-1905.

DIPHTHERIA.

- 37. 242 cases of diphtheria were notified (excluding 35 cases of mistaken diagnosis). The case-rate (number of cases per 1,000 population), corrected for cases of mistaken diagnosis was 1.65 compared with 2.72, 1.77 and 1.81 in the three preceding years, and 1.99, the average of the ten years 1901-10. This is the lowest case rate since 1905.
- 38. There were 16 deaths, compared with 11, in 1916. The death rate was 0.11 compared with 0.26 in 1914, 0.15 in 1915 and 0.08 in 1916.

The London death-rate was 0.14.

39. 59 of the total cases notified were in Woolwich parish, 69 in West Plumstead, 59 in East Plumstead and 90 in Eltham. The following table shows the case-rate in each registration district (not corrected for mistaken diagnosis) in the past thirteen years, compared with London and the Borough:-

tor on per series received to one of the largest negligible in the first process of the first The state of the s orders and the per cent, of fallers in home that, whereas there were were only 1-6 per cent, of fallers in home tention, there were 4-6 per cent in hospital isolation. Fallers makes the courters of secondary cases attributed to the primary case. fever and diphtheria during the ten years 1886-1896.

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The following table shore the ease-rate in each registration district (not corrected for mistaken discussis) in the past thirteen years, compared with London and the Borough:

		1911	1912	1913	1914	1915	1916	1917
1.71	2.20	1.68	3.09	1.91	2.72	1.77	1.81	1.65
1.63	2.34	2.40	4.38	4.43	4.92	2.23	2.80	1.76
1.87	2.40	W1 · 19	3.79	2.32	2.36	1.99	2.11	1.60
	0	E2.33	2.81	1.02	2.39	2.87	1.23	1.50
1.62	2.22	2.30	1.71	1.29	3.33	0.88	1.72	2.96
1.90	1 63	1.64	1.57	1.70	2.02	2.01	2.04	2.06
	-5 1.71 1.63 1.87	-5 -10 1.71 2.20 1.63 2.34 1.87 2.40 1.62 2.22	-5 -10 1.71 2.20 1.68 1.63 2.34 2.40 1.87 2.40 1.19 E2.33 1.62 2.22 2.30	-5 -10 1.71 2.20 1.68 3.09 1.63 2.34 2.40 4.38 1.87 2.40 1.19 3.79 E2.33 2.81 1.62 2.22 2.30 1.71	-5 -10 1.71 2.20 1.68 3.09 1.91 1.63 2.34 2.40 4.38 4.43 1.87 2.40 1.19 3.79 2.32 E2.33 2.81 1.02 1.62 2.22 2.30 1.71 1.29	-5 -10 1.71 2.20 1.68 3.09 1.91 2.72 1.63 2.34 2.40 4.38 4.43 4.92 1.87 2.40 1.19 3.79 2.32 2.36 E2.33 2.81 1.02 2.39 1.62 2.22 2.30 1.71 1.29 3.33	-5 -10 1.71 2.20 1.68 3.09 1.91 2.72 1.77 1.63 2.34 2.40 4.38 4.43 4.92 2.23 1.87 2.40 1.19 3.79 2.32 2.36 1.99 E2.33 2.81 1.02 2.39 2.87 1.62 2.22 2.30 1.71 1.29 3.33 0.88	1901 1906 1911 1912 1913 1914 1915 1916 -5 -10 1.71 2.20 1.68 3.09 1.91 2.72 1.77 1.81 1.63 2.34 2.40 4.38 4.43 4.92 2.23 2.80 1.87 2.40 1.19 3.79 2.32 2.36 1.99 2.11 (E2.33 2.81 1.02 2.39 2.87 1.23) 1.62 2.22 2.30 1.71 1.29 3.33 0.88 1.72 1.90 3.63 1.64 1.57 1.70 2.02 2.01 2.04

The table shows that the rate in Eltham Parish was the highest since 1914 & E. Plumstead the lowest.

40. 253 cases, or 91 per cent of total notifications, were removed to hospital, compared with 93, 94, 92 and 91 per cent. in the four preceding years. A certificate of efficient home isolation was given in four cases, compared with 12, 1, 7, 10, and 8, in the five preceding years.

The case-mortality was 6.6 per cent. compared with 5.2, 7.0, 9.7, 8.3 and 4.4 in the five preceding years.

27 carrier cases, with or without slight symptoms, were discovered by your Medical Officer of Health. The usual steps were taken.

67, or 24 per cent of the cases notified were over 15 years of age. In the last seven years there has been a marked increase in the proportion of Diphtheria notifications over school age. In 1911 the percentage was only 13 and there has been a steady increase since. There is no similar increase in the rest of London, and it is probably connected with changed age distribution of the population, and increased provision for discovering infectious disease among munition workers.

- 41. Mistaken Diagnosis. 35 cases, or 13 per cent of notifications, were, after removal to hospital, stated to be not diphtheria. The percentage of the four preceding years was 19, 16, 15 and 8 respectively.
- 42. Source of Infection. Six cases occurred at the Eltham Hostel for Munition Workers. There were three Return cases, though the suspicion that they were the source of infection was not confirmed bacteriologically.

By carrier cases, with or without sideht symptoms, were

43. Bacteriological Diagnosis. Since January, 1913, the Council's bacteriological work has been done by the Bacteriological Department of the Seamen's Hospital, Greenwich. 958 (896 in 1916) swabs were examined for the presence of diphtheria bacilli. In 157 (167 in 1916) the true Klebs Leffler bacillus was found, and 620 were found free from either the Klebs Leffler bacillus or Hoffman's.

Of the 958 swabs examined, 205 were taken from school children by the Medical Officer of Health. Of these, 24 contained the true Klebs Leffler bacillus (so-called positive cases), and 41 Hoffman's bacillus.

20 positive cases had some symptoms, viz., running or sore nose, mild clinical diphtheria or follicular tonsilitis. These were notified and sent to Hospital or strictly isolated. Positive cases without any symptoms were excluded from school and from mixing with other children outside the house. Of the 205 cases, 83 had some symptoms.

Diphtheria antitoxin is kept at the Town Hall and the Plumstead and Eltham Free Libraries, and supplied to medical practitioners on application at cost price, or free where there is inability to pay. Last year nine quantities were supplied on payment and nil gratis.

ENTERIC FEVER.

- 44. There were seven cases of enteric fever, not including five cases of mistaken diagnosis notified as enteric. The case-rate was 0.05, compared with 0.09, 0.17, and 0.05, in the three preceding years. For the ten years 1892-1901 the rate never fell below 0.41. The case-rate in London was 0.11.
- 45. There were three deaths from this disease, giving a death rate of 0.02. The death-rate in London was 0.02.
- 46. The following are the cases notified in each parish during the past fifteen years (not corrected for mistaken diagnosis):-

Average 1911 1912 1913 1914 1915 1916 1917 1901-5 1906-10 Woolwich | 12.6 | 7.6 10 10 3 4 6 111 . (W. Plumstead 21.2 11.4 41 3 6 13 3) E. 2 2 2 4 5 3) 1 8.6 2.8 Eltham 2 21 2 4

-mon AS . seeds "to" " . miles To "teolifo-ISothen endougline tothic three preceding years. For the case-rate in Landan was 0.11. Three cases occurred at one house in North Woolwich. A brother and his wife were notified some two weeks before in the adjoining borough of West Ham. The mother visited at their house, probably helped to nurse, and no doubt conveyed the infection through unclean hands infecting food. One case was attributed to mussels, one to a soldier carrier, and one to Sittingbourne. One was a soldier in the garrison.

Of the 12 cases notified, 10 were removed to a Fever Hospital and 5 were reported as mistaken diagnosis.

A report was made in 1916 on the prevention of flycarried infection of enteric fever (see Zymotic Enteritis).

47. Bacteriological Diagnosis. 9 samples of blood were sent to the Seamen's Hospital to be examined for Widal's reaction. A positive result was obtained in four.

DIARRHOEA OR ZYMOTIC ENTERITIS.

48. The deaths from diarrhoea and enteritis under two years of age were 24 or 8.9 per 1,000 births, compared with 9.9, 10.7, and 7.2 in the preceding years. The rate for London was 18.7. The total number of deaths from these diseases at all ages was 39.

Notification. Voluntary notification of zymotic enteritis auring July, August, and September, commenced in Woolwich in 1905. Compulsory notification commenced August 25th, 1913, and is unlimited as to season.

101 cases were notified in the past year, compared with 199, 173, and 80, in the three preceding years. Seven cases were notified from January to May, 5 in June, 8 in July, 31 in August, 33 in September, 10 in October and 7 in November and December.

The fatality rate (deaths under two years per 100 notified cases under two) was 20.7. This high fatality probably points more to neglect to notify rather than to prevalence of a type of disease severer than usual. Medical men, especially locum tenens, are not aware, or forget that this disease is notifiable, in spite of a circular reminder being sent every year.

As compared with the County, Woolwich had a very low death rate from diarrhoea and enteritis during the summer quarter. Per 1,000 births, the death-rate of children under 2 was 28.1 in London and only 17.7 in Woolwich (12 deaths). Only the City, Kensington, Chelsea, and Hampstead, had a lower rate.

Three coses becomed an exercise da Maria Woolvich. o interemo book is described a sold to a to the order of the a beat which work with the wient to be the vestiles of The season of th tree s lake To bedimen ed of lafigach e gemes art of the 18 To seems to total manber of deaths from these diseases at all 49. The temperature of the summer quarter was above the average and the rainfall below. In spite of these unfavourable conditions the number of deaths and notified cases was below the average.

ZYMOFIC ENTERITIS AND METEOROLOGY (Summer Quarter)

	1915	1916	1917
Number of cases notified Number of deaths Mean temperature of air Mean temperature 3 feet below ground Mean humidity Number of days on which rain fell Rainfall in inches Number of hours bright sunshine	142 12 60°7 60°6 80 35 8°5 541	80 14 60.9 59.9 83 42 6.0	101 12 61.7 62.6 81 47 3.4 580

ERYSIPELAS.

50. There were 79 cases of erysipelas notified, compared with 107, 138, and 95 in the three preceding years. There were 4 deaths, one under one year, one 10-15, and two over 65. The case-rate was 0.54 the lowest recorded, and the death rate, 0.03 below the average. The London case-rate was 0.58 and the London death-rate 0.02.

CEREBRO-SPINAL MENINGITIS.

51. 46 cases occurred in 1915, 17 in 1916, and 17 in 1917. In addition 5 cases of post basic meningitis were notified. There were 5 deaths, 2 of which were under two years of age. The case rate was 0.12 in Woolwich, compared with 0.09 in London.

Seven cases occurred in Woolwich Parish and four in Eltham. Eight of the cases were soldiers in the garrison and six were under 15 years of age. The large majority of the cases occurred in the first three months of the year.

In none of the civilian cases did more than one case occur in the same house. The cases of post basic meningitis all occurred in West Plumstead. Notified cases (with one or two exceptions) were immediately removed to the fever hospital. Contacts in close association were bacteriologically examined

ont every and the related to below. In aptice of these unfavoures to the state of th anthence of hours bright sanghing betagine were 79 cases of erysipeles notified, ompared with 107, 139, and 95 in the three preceding years. There were benimmes wilestymictresons ever maisebooses esolo ai esossano by a Medical Officer of the London County Council. Several doubtful cases were seen by the Medical Officer of Health, on request of the medical attendant, and when the former had any doubt as to the diagnosis a bacteriological examination was made.

PUERPERAL FEVER.

- 52. There were 12 cases of puerperal fever notified, compared with 2, 8, 7, 6 and 16 in the five preceding years. There were six deaths. The case-rate per 1,000 births was 4.44 compared with 2.14 and 3.25 in the two preceding years. The death rate was 2.22 compared with 1.05, 1.07 and 1.13 in the three foregoing years. The London case-rate and death-rate per 1,000 births were 2.47 and 1.48 respectively.
- 53. Influenza caused 29 deaths compared with 25, 35, 25. 33 and 29 in the five preceding years. Bronchitis and pneumonia caused 294 deaths, compared with 208, 253, 285, 380 and 290 in the five preceding years.

There was again a fall in the deaths from bronchitis and pneumonia in adults but an increase under five years. The increase in children was probably due to increased mortality from measles. The epidemic wave causing an increased mortality from respiratory and tuberculous diseases is slowly ebbing. The following table shows the figures from 1909 to date. The death-rate was 2.0 compared with 1.8 in 1909-12.

	1909	1913	1914	1915	1916	1917
Pneumonia over 5 Bronchitis over 5 Bronchitis and Pneumonia)	61 80	63 120	78 113	99	9.8 135	\$5 113
under 5	68	70	94	121	57	86
Bronchitis and Pneumonia) over 5 Bronchitis and Pneumonia	153	183 M144 F109	191 149 136	259 196 184	233 150 140	208 161 133

TUBERCULOSIS

54. Deaths. There were 207 deaths from tuberculous disease, giving a death-rate of 1.41, compared with 1.34, 1.69, 1.68, 1.72 and 1.48, in the five preceding years.

Dy a Medical Officer of the London County Council, Several doubtful cases were reen by the Medical Officer of Health, on request of the medical attendant, and when the former had any doubt as to the discussis a bacteriological examination was made.

PERSONAL PEVER

pared with 2. 8. 7. 8 and 16 in the preceding years.

There were six deathe. The caseerste per 1.008 births was and compared with 2.14 and 5.25 in the two preceding years.

The death rate was 2.22 compared with 1.05. 1.07 and 1.13 in the three foregoing years.

The death rate was 2.22 compared with 1.05. 1.07 and death.

The three foregoing years. The London open rate and death.

The trate per 1.000 births were 2.47 and 1.48 respectively.

55 and 29 in the five preceding years, Bronchitis and pneumonia caused 294 deaths, compared with 208, 255, 285, 580 and 280 in the five preceding years.

There was again a fall in the deaths from bronchtts and pneumonia in adults but an increase under five years. The increased in children was probably due to increased mortality from measles. The epidemic wave causing an increased mortality from respiratory and telegraphed diseases is slowly ebbing. The fallowing table shows the figures from 1909 to date. The death-rate was 3.0 compared with 1.8 in 1909-18.

110	Tele lies	1909	
	78 99.		
	181 . 181	88	under b
			Bronohitis and Pneus
	149 196		Bronobitic and Incom

STROUTSHEET

disease, giving a death-rate of l'41, compaped with 1:34, 1:69.

55. The following table gives the number of deaths from each of the various forms of tuberculosis in the past 17 years and also the deaths from simple meningitis:-

Av	ra.	220	200	0
TIV	1	T.0	200	122

				1125					
	1901	1906	1911	1912	1913	1914	1915	1916	1917
Tuberculous Meningitis Simple Meningitis Tuberculosis of Intestines and	20.0	22.8	20 16	23 13	14 10	29	18 16	19	19 4
Peritoneum Tuberculosis	13.0	10.8	5	5	10	13	5	5	1
(other forms) Phthisis	193.0	22°2 151•4	29 146	16 124	10	11 163	8 201	12 167	18 172

56. The deaths from phthisis were 172 giving a death-rate of 1.17 compared with 1.01, 1.42, 1.27, 1.49, and 1.22, in the five preceding years. The death rate is the lowest recorded except in 1912.

The rise and fall of the phthisis death-rate in recent years has been parallel with that of bronchitis and pneumonia. In each case 1912 showed a minimum, and the three subsequent years a marked rise. London had the highest death-rate since 1905.

Deaths - Phthisis (Tuberculosis, Lungs)

·														
	189	91-5	1896-	1900	19	01-5	190	06-10	19:	11-15		1916	1	17.
	No.	Rate	Aver. Near	Rat	Aver No per year	Rate	AverMo.	Rate	No	Rate	No	Rate	No.	Rate
Woolwich Parish West)		2.80	92	2.23	89	2.15	56	1.46	65 51	1.70	63 57	1.88	55	1.64
Plumstead () (East)	-	1.78	92	1.42	97	1.34	87	1.20				0.86		
Eltham Parish The Borough London		1.88	193	1·28 1·74 1·80	192	1.56	151.	1.55	164	1.58	167	0.66 1.22 1.46	172	0.53 1.17 1.58

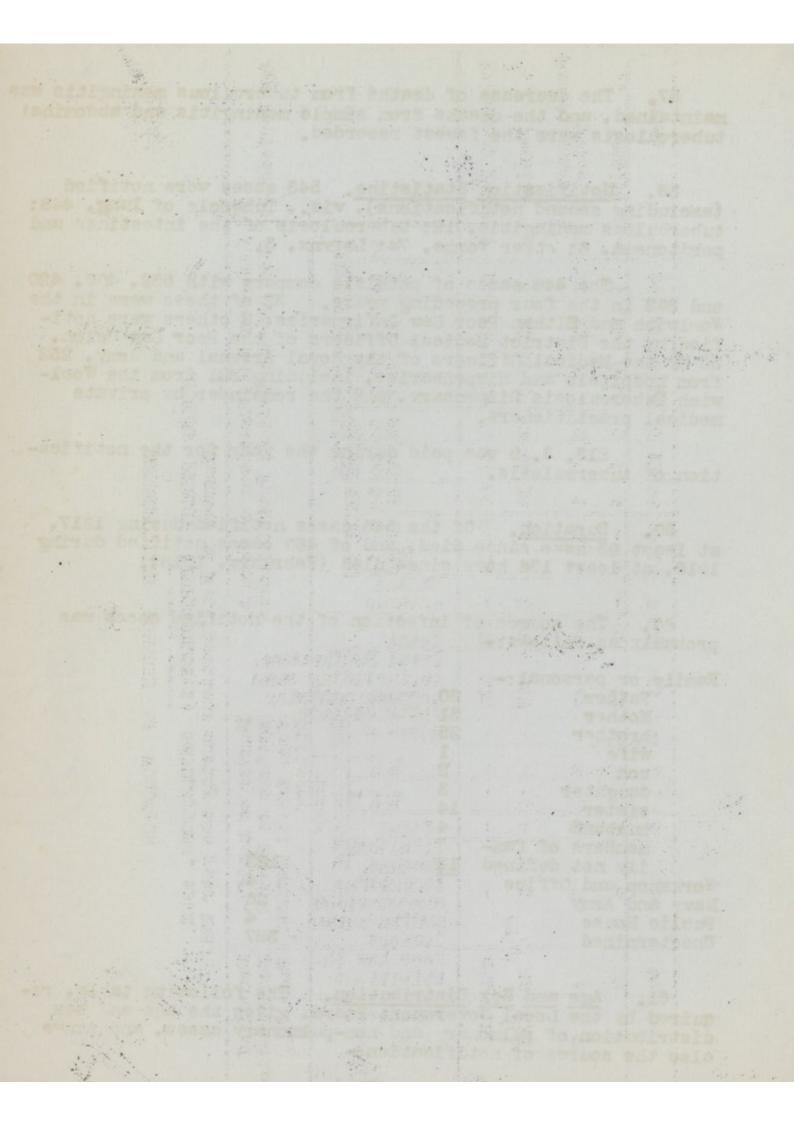
- 57. The decrease of deaths from tuberculous meningitis was maintained, and the deaths from simple meningitis and abdominal tuberculosis were the fewest recorded.
- 58. Notification Statistics. 543 cases were notified (excluding second notifications), viz., Tubercle of lung, 448; tuberculous meningitis, 12; tuberculosis of the intestines and peritoneum. 6; other forms, 74: Larynx, 3.

The 448 cases of phthisis compare with 532, 400, 420 and 392 in the four preceding years. 32 of these were in the Woolwich and Eltham Poor Law Infirmaries; 2 others were notified by the District Medical Officers of the Poor Law Union, 33 by the Medical Officers of the Royal Arsenal and Army, 252 from hospitals and dispensaries, including 221 from the Woolwich Tuberculosis Dispensary, and the remainder by private medical practitioners.

- £13. 3. 9 was paid during the year for the notification of tuberculosis.
- 59. Duration. Of the 543 cases notified during 1917, at least 93 have since died, and of 469 cases notified during 1916, at least 136 have since died (February, 1918).
- 60. The source of infection of the notified cases was probably as follows:-

Family or personal:-Father 30 Mother 31 brother 25 wife 1 son daughter 3 sister 14 husband 4 members of family not defined 12 122 Workshop and Office 4 Navy and Army 26 Public House 4 Undetermined 387

61. Age and Sex Distribution. The following table, required by the Local Government Board, gives the age and sex distribution of pulmonary and non-pulmonary cases, and shows also the source of notification:-



METROPOLITAN BOROUGH OF WOOLWICH

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912. Summary of Notifications during the year 1917.

Age Periods	Nu fr	om	r of Priv	No	tif: Me	dic	tion al 1	ns (on l	For	m A ner	S	cases d by	ca	tio	ns Sch	on	otifi- Form B Medical	Not	per of ificat	
	Pr	ima	ry N	oti	fic	ati	ons						ing tor	No	Pr	ima	ry	ons of the	-u.s		
	to	1	5 t,o 10	10 to	15 to	20 to	25 to	35 to		to 65	000	Total	Total Notification is including previously notifications	Under 5	5 to 10	10 to 15	Total F	Total Notify fications, w ie.including cases previou notified by th	Poor Law In- stitutions	Sanatoria	
Pulmonary Males	2	10	33	19	18	30	44	65	22	14	-	257	270	-	_	_		_	26	139	99
,, Females	-	4	23	19	27	23	45	28	14	4	3	190	203	-	-	-	-	1	26	113	
on-Pulmonary Males	1	14	12	7	-	2	7	1	4	-	-	48	49	-	2	-;	2	3	4	7	
,, Females	-	4	15	8	10	2	5	4	-	-	-	48	52	-	1	1	2	4	2	3	
Total	3	32	83	53	55	57	101	98	40	18	3	543	574	-	3	1	4	8	59	262	

- 62. Visiting. The method of following up cases was described in the annual report for 1915.
- 63. Bacteriological Diagnosis. Sputum from 286 cases of suspected phthisis was examined at the Seamen's Hospital and tubercle bacilli were found in 63 cases. The number of examinations for the five preceding years was 151, 231, 273, 254, and 269, respectively. In addition, the Medical Officer examined 515 specimens of sputum at the Tuberculosis Dispensary, 73 being found positive.
- 64. In my Annual Report for 1904 some figures were given as to the "Public-house as a source of Infection" and "Chronic Tuberculosis in Children" (see page 50 of the Report).
- 65. Disinfection was performed by the Public Health Department at 301 premises compared with 166,243, and 217, in the three preceding years. Disinfection was performed after the death of the patient, and also after removal to hospital, sanatorium, or other occasion of the house or bedroom being vacated.
- 66. Sanatorium Treatment. Altogether 270 notified persons were admitted to some sanatorium or hospital for the treatment of tuberculosis. The following table shows the number sent to the chief institutions:-

CASES ADMITTED AS IN-PATIENTS TO SANATORIA. HOSPITALS, ETC., 1917.

1	Male	Female	Total
Infirmary Downs Sanatorium	30 49	29	59 49
Northern Hospital (Winchmore Hill) Nayland Sanatorium and	2	40	42
Maltings Farm Treloar's Home, Alton Herbert Hospital Ventnor Brompton Hospital and Frimley Carshalton Children's Hospital All others	15 2 8 11 13 5	11 1 8 4 5	26 3 8 19 17 10 37
Total	154	116	270

ined 515 specimens of spatuarst the Interculesis Dispensary. 64, -In my Armusl Report for 1904 Some Flaures were given otnorm) * Bas *molfoster to somes a sa samid-offices add of an of the patient, and also after removal to hospital, sanatorium. bejessy maied aported to seved edd to noiseoso reddo to

There were fewer admissions to the Infirmary and Herbert Hospital, but an increase of cases treated at Sanatoria.

There was much delay in obtaining Sanatorium treatment. On the average the non-insured patients who finally were admitted had waited ten weeks before going to the Sanatorium.

67. Shelters for Consumptives. The use and provision of these shelters has been described in previous Reports. There are 13 shelters available. Seven are now occupied by men and four by women. The demand has been less since the air raids deterred the nervous; most of them, however, have been in continuous use, and nine were occupied in December.

Shelters were lent to 16 persons last year, 10 men, 3 women, 1 boy and 2 girls. Two of these had the shelter free, three paid 3d. and 11 paid 6d. Most of the patients using shelters are under the supervision of the Tuberculosis Dispensary. £9.17.3 was paid as shelter rent during the year.

Three bedsteads with bedding are also being lent to needy cases too poor to provide such.

68. Tuberculosis Dispensary. A Dispensary for the treatment of tuberculosis was opened in September, 1911.

The following is the summary of the work referring to the period 1st. January to 31st. December 1917:-

Insured persons treated 775 Uninsured ,, ,, 1,710

In attendance on January 1st. 1915:-

	Treatment		Observat	ion
Insured	Uninsured	Ir	nsured	Uninsured
163	424		29	407
	ances year ending De			11,157
Number o	of new patients exam	ined		1,482
,, V	with definite pulmon	ary tubercul	losis	304
	with surgical tuberco			190
	of suspect and obser		S	394
	cound non-tuberculou			574
	of home visits of me		ers	1,285
				1,735
,,	,, ,, nu	1000		51.5
	, sputum examination	15		
,, for	and positive			73
	children new cases			688
,, of	contacts examined			592
		0 :		

thentiques with the state of th are is shelters available. Saven are now occupied by men and fore by women. The damend has been less since the air reids decerred the nervous; most of them, however, have been in contin-Shelters were lent to 16 persons lest year, 10 men. 3

verse, and 1 por and 2 girls. Nest of the had the shelter free.

teres weld to and 1 poid ed. Most of the photographs wilnig the -18/01 test engines to sombhest

There was a diminution in the number of contacts and of new cases examined, and an increase in the number of those found definitely tuberculous.

The Medical Officer of Health acts as Administrative Tuberculosis Officer, and is a member of the Tuberculosis Dispensary Committee.

The Borough Council's scheme for the Treatment of Tuberculosis -- particularly for the provision of a Tuberculosis Dispensary -- was set out in the Annual Report for 1914.

The work of the Tuberoulosis Care Committee was described in the Annual Report for 1915.

CANCER

69. There were 129 deaths from cancer (malignant tumour), giving a death-rate of 0.88 compared with 2.01, 1.06, 0.90 and 0.95 in the four preceding years. 57 of the deaths were in males and 72 in females; 80 or nearly two-thirds of the deaths were in persons over 65. The highest mortality was in West Plumstead. One-third of the deaths occurred in public institutions. The death rate in England and Wales in 1916 was 1.17

There were three deaths from sarcoma and 126 from carcinoma. The deaths from carcinoma have been classified under the organs affected, since 1903, and the following table shows the result for males and females respectively:-

Carcinoma Males.

Seat of Primary Disease	Aver. 1903-5	Average 1906-10	Average 1911-15	1916	1917
Head and face	1.7	1.2	1.2	3	1
Mouth, jaw and tongue Pharynx, oesophagus,	4.0	4.8	7.2	7	4
larynx and neck	5.0	8.6	10.4	8	11
Pleura, lung, mediastinum	0.3	0.4	0.4	-	
Stomach and Pylorus	5.3	10.4	9.2	14	13
Intestines (excluding rectum)	2.7	3.2	4.6	4	8
Rectum and anus	4.0	4.8	5.8	5	3
(Peritoneum and omentum	0.7	-	-)		
			5	3	6
(Liver	8.0	6.4	7.0)		
Kidney and Bladder	-	1.6	1.8	3	3
(Genital organs,	-	-			
(Prostrate and external urina	ry 2.7	0.8	2.8	- i	2
Pancreàs	0.3	1.4	1.8	3	2 2
Indefined and all other	0.6	2.2	2.2	1	1
	35.3	45.8	54.4	51	54

The Medical Officer of Bealth-sous on Adolas secret and tones

Females.

Seat of Primary Disease	Average 1903-5		Average 1911-15	1916	1917
Head and face	0.7	1.4	0.6	1	2
Mouth and tongue	1.7	0.6	0.6	1	-
Pharynx, oesophagus, larynx				-	
and neck	1.7	1.4	2.0	-	2
Pleura, lung, mediastinum	0.7	0.6	0.6	1	-
Stomach and Pylorus	5-7	7.6	9.0	5	11
Intestines (excluding rectum)		4.5	4.2	4	7 2
Rectum and anus	3.0	6.8	6*8	7	2
Liver	7.3	8.6)			
(D)	8.4	14	14
(Peritoneum and omentum	0.3	0.4			
Kidney and bladder	-	1.5	1.0	-	2
Genital organs	16.0	13.6	14.0	23	15
Breasts	9.7	8.6	13.6	14	12
Pancreas		0.5	0.8	-	-
Undefined and all other	1.4	5.0	2.8	1	5
	48.9	57•2	64.4	72	72
			Section 2 in contrast of the least		

Last year had the lowest cancer death-rate for five years; the reduction was greater in men. As compared with 1913, and previous years, in men there has been a decrease under carcinoma of the throat and intestines; and in both men and women an increase of cancer of the stomach.

70. Causes of Cancer. The special inquiry into the habits of persons suffering and dying from cancer since 1912 was continued. For the scope of this and the standards taken, see previous Annual Reports.

The following gives the parts affected for males and females:-

Cases specially investigated and parts affected.

Seat of Primary Disease	Male	Female	Total
Face, mouth, jaw and tongue Pharynx, Oesophagus, Larynx and Neck Stomach and Pylorus Intestines (excluding Rectum) Rectum and Anus Liver Breasts Uterus All other	35 37 29 16 17 9 - 11 154	7 6 22 14 17 4 8 4 2	42 43 51 30 34 13 8 4 13 238

Cancer Cases. 74 of the patients were stated to be excessive users of alcohol, 22 took the standard quantity, and 127 below the standard. There were thus 33 per cent of excessive alcohol drinkers.

91 smoked excessively, 18 consumed an average quantity of tobacco, and 113 below the average, giving 41 per cent of excessive smokers.

65 were excessive tea drinkers, 89 moderate and 54 small tea drinkers, giving 31 per cent of excessive tea drinkers.

99 were large eaters. 72 moderate and 48 small eaters. giving 45 per cent large eaters.

71 were large meat eaters, 86 moderate and 57 small meat eaters, giving 33 per cent of large meat eaters.

130 had a daily action of the bowels, and 44 suffered from constipation, giving 75 per cent of persons with a regular action.

Control or Non-Cancer Cases. These cases may be compared with those obtained for 218 persons of similar or greater age, living under similar circumstances, who did not die of Cancer.

Of these - 37 took accohol excessively, 24 took the standard quantity and 157 below the standard, giving 17 per cent excessive drinkers.

46 smoked excessively, 19 in moderation, and 157 were non-smokers or slight smokers, giving 21 per cent of excessive smokers.

66 took tea excessively, 96 in moderate amount, and 48 were small tea drinkers, giving 31 per cent of excessive tea drinkers.

28 were large eaters, 22 moderate, and 13 small, giving 44 per cent of large eaters.

19 were large meat eaters, 9 moderate, and 36 small, giving 30 per cent large meat eaters.

166 had a regular daily action of the bowels and 26 suffered from constipation, giving 16 per cent of constipation.

Comparison. It will be seen that, comparing persons who suffer from Cancer with those living at advanced ages, or who died at advanced ages through other causes, the great differences are as to habits with respect to alcohol, smoke, and the action of the bowels, thus:-

27

in 1881: basteratransa basinsis dathanos astrasocosas labaran evia . aviaceaxe. 20 fron teg 65 cardiceanweated by . bandonede gai, wedee Free Jack eggs, took this is through eggs took the backersees to come the sum that the contract of the contract of the second of the -Form Avinative sixes the IS account consumer supplied by an and a second consumer of the second contract of the s title tyra! Step and by the present but become the best to the desired the state of the state IL vere large mass, saters as to be been seen and in to tot shipsont deer vevalue dona area. Of maleta, essous, asen vocation and the company of the contract of the contract of the contract of triming of the contract of the contract and topics and the contract of Stone of a dami e free wente to macron attract to constant to standard quental by and lot read the standard have seen the contract of the grant seen than agew to I hang and to the land of the west belong ph. PROTESTORY RELEGIOD TORALE BREVEY . STRIGER, TORALE TO STRIGER AND acte and overcomes to large and it markets arresidant but francisco . Lione of book accessed & season of the contract of THINKS IN AND SE THE TOTAL TREE PERSON AND THE tempted tempted to time the second waters . action data part paralles the true osness with these living staded adversed not yet died at savaged ages through other causes, the great differences ere as to health weapont to alcohol, seaker attached of as ere

Cancerous persons had 33 per cent of excessive alcohol users, 41 per cent excessive smokers, 35 per cent excessive tea drinkers, 45 per cent large eaters, 33 per cent large meat eaters, and 55 per cent of constipation.

Non-cancerous persons, living to a greater age, had 17 per cent of excessive alcohol users, 21 per cent excessive smokers, 31 per cent excessive tea drinkers, 44 per cent large eaters, 30 per cent large meat eaters, and 14 per cent of constipation.

Mouth and Throat. These differences are still more marked with respect to alcohol and smoking, if only those who died from Cancer of the mouth and throat are considered.

Of 103 persons dying from Cancer of the lips, tongue, jaws, fauces, larynx, peophagus and cervical glands, 46 (or 45 per cent took alcohol excessively, while 73 (or 71 per cent) smoked excessively. 28 of these smoked chiefly a clay pipe, 27 a briar, 3 cigarettes, and 3 cigars. There were only 5 out of the 37 cases of cancer of the mouth and tongue who did not smoke; 3 of these had bad teeth. Among the non-cancer cases all the smokers smoked pipes (42 clay and 25 briar, and 5 both), except two who smoked cigarettes.

Of 161 cases with cancer of other parts than the mouth and throat 39 (or 24 per cent) took alcohol excessively, and 36 (or 22 per cent) smoked excessively. It would appear, then, that both alcohol and smoking (especially alcohol) have some general effect in promoting cancer, but chiefly exert their injurious influence locally. This is shown also as regards alcohol by the figures given below for cancer of the stomach, which occupies an intermediate position.

Of the 103 cases of cancer of the mouth and throat, 28 (or 27 per cent) were excessive tea drinkers. Tea drinking does not seem to be specially injurious locally or generally as far as cancer is concerned. If the injurious effect of smoking were chiefly due to the local effect of heat one would have expected excessive drinking of hot tea to have had a similar result.

of 13 cases of cancer of the stomach. 8 were large eaters and 2 were large meat eaters. Of 52 cases of cancer of the stomach 16 (or 31 per cent) were excessive alcohol drinkers.

As regards cancer of the bowels, out of 59 persons dying from cancer of the intestines, 32 had a regular daily action, and 26 had constipation, i.e., 44 per cent had constipation. Thus constipation seems to predispose to cancer of the bowels.

The following table gives the above results in tabular form:-

users, 41 per cent excessive amplement 35 cent cont decree the ers. It per cent excessive tes drinkers, 46 per cent large esters. with respect to slooks and smoking, if only those who died from tawn, factor, larges, decembers and carvical glands, 45 (or 45 8 of these had bed teeth. Among the non-cancer cases all the makers andmed pipes (42 clay and 25 brist, and 5 both), except two who smoked ofgarettes. (or 22 per dent) smekes excessively. It westd Sppear, then, the best alcohel and smeking (especially sleehol) have some general effect in promoting escoer, but chiefly exert their injurious infigures given below for cancer of the stonech. which complete an 82 lateral box diseas edl to Yeekso to seese Col edr to

		Cancer of Mouth and Throat		Control Cases (Non- Cancer) Per cent
Excessive alcohol drinkers	33	.45	24	17
,, smokers ,, tea drinkers	35	71 27	22 34	21
Large eaters	45	-	-	31 44
,, meat eaters	33	-	-	30
Constipation	25	-	-	16

ALCOHOLISM.

71. There were three deaths from alcoholism, one from peripheral neuritis, and 18 from cirrhosis of the liver, making a total of 22 deaths probably due to alcohol, compared with 23, 18, 31, 43, and 38, in the five preceding years.

Of the 22 deaths, 15 were males and 7 females.

The diminution of alcoholism, especially among women, is very satisfactory whatever its cause. Eight deaths occurred in the first quarter of the year, four in the second, two in the third, and eight in the fourth.

72. The death-rate from alcoholism, peripheral neuritis, and cirrhosis of the liver was 0.15, which is lower than it has been for several years.

SYPHILLIS.

73. There were 7 deaths from Syphilis, compared with 3, 9, 9, 5 and 5, in the five preceding years. 5 of these occurred in public institutions. All but one were infants under one year. There were, in addition, 14 deaths from general paralysis, tabes dorsalis (locomotor ataxy) and aneurism, (diseases which are considered to be due to syphilis) compared with 29, 23, 27 and 17, in the four preceding years.

(Inflammation of the eyes of the new-born. The bad cases are usually due to Venereal Disease in a parent.)

74. Notification of this disease is compulsory on Medical men, under the Public Health (London) Act, and on Midwives under an Local Government Board Order. Midwives are paid 1/- for each case notified.

41 cases were notified, compared with 14, 18, 19, and 33 in the four preceding years. The case-rate was 15°2 per 1,000 births. Two cases were removed to hospital and two were treated as hospital out-patients. The others were all reported to be receiving effectual treatment at home. The district nurses attended 15.

29

Gazes (None Cancer)		Bouth sed Throst	eses0 Tec	
19 31 44 44 30 16	22 22 45	34	85 14 85 85 86 86 86	

ALCOHOLISM.

71. There were three deaths from alochelism, one from peripherel neuritis, and 18 from ofrrheels of the liver, meking a total
of 28 deaths probably due to alochel, ouspared with 25, 18, 81,
48, and 38, in the five preceding years.

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The diminstion of alcoholism, especially snong wasen, is very satisfactory whatever its cause. Eight deaths coourred in the first quarter of the year, four in the second, two in the third, and eight in the fourth.

72. The death-rate from alcoholism, peripheral neuritia.

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75. There were 7 deaths from Syphilis, ounpared with 5. 9. 9. 5 and 5. in the five preceding years. 5 of these occurred in public institutions. All but one were infants under one year. There were, in addition, la deathe from general passivels, takes dorealis (locamotor stary) and ansurism. (diseases which are cometioned to be due to syphilis) compared with 20. 35. 37 and 17.

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V4. Notification of this disease is compulsory on Medical men, under the Public Health (London) Art. and on Midwives under an Local Covernment Beard Order. Midwives are paid 1/- for each

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PART II.

ADMINISTRATION.

WATER SUPPLY

- 1. No house was provided with an additional water supply last year under the London County Council (General Powers) Act.
- 2. Defective and foul storage cisterns were found and remedied at nine houses, compared with 93, 40 and 44 in the three preceding years. At 19 houses the supply was found insufficient or temporarily cut off, and the necessary steps taken for obtaining a proper supply.
- 3. 457 samples were submitted to the Public Analyst, and 33 or 7.2 per cent were found to be adulterated, compared with 2.7. 5.6. 7.3, 7.9 and 9.4 in the five preceding years.

248 of the samples taken were informal. 17 of these were found to be adulterated.

- 4. Proceedings were taken in 15 cases; fines were inflicted in 11, in 3 there was proof of warranty, and in one costs were given against the defendant.
 - 5. Over £30 was imposed in fines and £13 in costs.
- 6. 185 of the samples were fresh milk. 14 of these, or 7.6 per cent, were adulterated, compared with 3.5, 7.9, 9.7, 10.0 and 5.9 in the five preceding years.
- 91 samples were bought as butter and 6 were found to be adulterated,
- Of the other articles analysed, 13 were found to be adulterated, viz., 2 samples of preserved cream, 2 margarine. 4 zinc ointment, 2 mustard, 1 coffee and 2 lard. The preserved cream contained boric acid in excess of the amount allowed by the Regulations. The mustard was adulterated with starch, the coffee with chicory, and the lard with cotton-seed oil. The zinc ointment was deficient in zinc oxide.

Milk and Tream Regulations. 151 samples were examined for the presence of a preservative, but none found. Four samples of preserved cream were examined as to the correctness of the statements on the label; two were found correct and two incorrect. Four samples of cream were found to have over 35 per cent of fat.

FOOD INSPECTION.

There were 34 surrenders of unsound food. The time of Inspectors Tedham and Shaw and of Chief Inspector Duck was mainly occupied with Food Control work and they were successful in detecting a large number of the Controller's Orders.

DAIRIES, COWSHEDS AND MILKSHOPS.

- 7. On January 1st. 1917, there were 96 milkshops on the register; 8 were added, and 8 removed, during the year, leaving a total of 96 on the register at the close of 1917. There were 112 inspections made, and 9 notices were served. There were no prosecutions.
- There were 39 inspections, and 6 notices were served for dirty conditions, etc.

SLAUGHTER HOUSES.

9. The number of slaughter-houses on the register remained the same, viz., 9. 33 inspections were made, and 2 notices served and complied with.

NUISANCES.

- 10. 549 complaints of sanitary defects were received and investigated, compared with 454, 614, and 599, in the three preceding years.
- 81 complaints of non-removal of dust were made and attended to, compared with 55, 43, and 74, in the three preceding years.
- 11. Drains and Water-Closets. 291 private drains, found choked and defective were examined, cleared, and re-laid, compared with 450, 475 and 440 in the three preceding years. The largest number, 55, was found in River Ward.

Hilk and treatment a presentations that the tone found of the part of the plant of the presentation of the part of

FOOD BESIEDLE GOOR

There were 34 surrenders of unsequed food. The time of Inspector Dook was of Chief Inspector Dook was not inspector Dook with Food Control work and they were successful mainly occupied with Food Control orders of the Controller's Orders.

DAIRIES. COMBREDS AND MILHBERTON

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There were 30 inspections, and constant us meme served for dirty

SLATIBETISE HOTISES.

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WITTSANGES.

to supplicated of sunitory defents were received and investigated, compared with 454, (11, and 500, in the three preceding years,

the oben ower tach to invest-men to thisiques is to be three preced-

the largest number, 55, was found in River Ward Ward to Same preceding years found The largest ward to the Same preceding years

213 water-closets and w.c. cisterns were repaired, compared with 782, 843, and 750, in the three preceding years.
151 foul w.c. pans were cleansed by tenants, compared with 181
255, and 205, in the three preceding years.

- 12. House Inspection. 4,251 houses were inspected, nouse to house compared with 4,538, 4,707, and 5,736, in the three preceding years; 5,392 were inspected re infectious diseases and complaints, compared with 7,267, 7,207 and 6,423. In addition to these, 609 inspections of registered houses were made.
- 13. At 1,913 houses, interiors were cleansed, or defective roofs repaired, compared with 2,337, 2,703, and 2,906, in the three preceding years. 381 houses with damp walls were remedied. compared with 393, 646, and 589, in the three preceding years.

Improved ventilation was provided in 15 houses, compared with 55, 55, and 72, in the three preceding years.

447 new dust pails were supplied, compared with 474, 561, and 530, in the three preceding years.

14. Medical Officer's Special Inspections. These amounted to a total of 417. 24 inspections were made of cowsheds and milkshops, 23 of bakehouses, 7 of factories and workshops, 58 inspections were on account of tuberculosis, 48 cancer, 14 diphtheria, scarlet fever and enteric. 17 cerebro-spinal and other forms of meningitis and 51 re infant welfare. Many of these visits were made by request of the medical attendants for the purpose of diagnosing doubtful cases of infectious disease. Other visits re infectious disease were made at the request of school teachers and others. 82 premises were inspected re housing conditions and overcrowding.

Inspections were made of all the houses reported as unfit for human habitation and all those recommended for registration.

15. Overcrowding. 95 cases of overcrowding were found and remedied, compared with 93, 97, and 111, in the three preceding years. The overcrowding was 2.2 per cent of house-to-house inspections, compared with 2.0, 2.1 and 1.9 per cent in the three preceding years. No persons were convicted of allowing overcrowding.

The overcrowding met with is of a more aggravated nature than in former years, though there is no great increase.

- 16. Smoke Nuisance. Two observations re smoke nuisance were made and two nuisances of black smoke observed. The nuisances were abated on service of notice.

 There was no prosecution.
- 17. Defective Light. At 12 houses new windows were supplied or existing ones enlarged, or other work done to improve the lighting by daylight, compared with 49 in 1916.
- 18. Verminous Rooms. 568 verminous rooms were cleansed under the London County Council (General Powers) Act, 1914, or were dealt with as dirty rooms under the Nuisance Section of the Public Health (London) Act compared with 198 and 213 in the two preceding years.

HOUSE AND TRADE REFUSE REMOVAL.

19. There was a diminution in house refuse.

In Woolwich Parish, 7,087 loads of house refuse, and 143 loads of inoffensive trade refuse were removed by the Borough Council, and in Plumstead, 14,512 loads of house refuse, weighing 12,720 tons were removed by the Contractors, Messrs. Tuff & Hoar, and destroyed at the Plumstead Destructor. This is a decrease of over 30 per cent compared with two years ago and points to a very satisfactory decrease of waste.

In addition, 683 loads of trade refuse weighing 340 tons were removed to the Plumstead Destructor and destroyed (the Contractors removed 354 loads and were paid for the removal by the tradesmen at the rate of 2/- per load). £3,493. 10. 2 was paid for collection in Plumstead, compared with £3,405. 16. 2 in 1916.

In Eltham, the sum of £1,676. 12, 5 (£1,364. 16. 6 in 1916) was paid to the Contractors for removal of dust. 20 loads of trade refuse were removed at the tradesmen's cost.

20. 2,863 (2,336 in 1916) receptacles of offensive trace refuse were removed. There are now 24 (26 in 1916) tradesmen on the books.

HOUSING OF THE WORKING CLASSES ACTS.

21. Four houses were dealt with under the Housing Act, compared with 18, 16, and 6, in the three previous years.

Two houses were closed; one, 16 Martyn's Passage was closed by order, and one, 6 New Street, was closed and demolished

-que erem suchite ven seagend SI sh ... inchi evitested .. VI pared with 18, 18, and 6, in the three provides years, by consent of owners. Closing orders were served for 87 Robert Street and 18 Ravine Grove. The work required was done and these houses are now re-opened.

HOUSES REGISTERED UNDER THE BY-LAWS.

- 22. At the commencement of the year, 430 houses were on the register, 6 were newly registered, and 1 taken off the register, leaving 435 on the register at the close of the year. The number has remained about the same for six or seven years.
- 23. These houses were inspected, some quarterly, others halfyearly or yearly. 609 inspections were made in all, and 316 notices served.

The registered houses were under the care of Inspectors Wood and Miss Middlebrook.

INHABITED HOUSE DUTY.

24. No certificate under the Inland Revenue Act was applied for.

UNDERGROUND ROOMS

25. Two underground rooms occupied for sleeping were found not in accordance with the regulations and the occupation stopped on service of notice.

FACTORIES, WORKSHOPS, AND WORKPLACES.

26. There were, at the close of the year, 203 (200 in 1916) workshops on the register. 387 inspections were made and 53 notices served and complied with. 342 (352 in 1916) inspections of home-workers' premises were made and 7 (12 in 1916) notices sent and attended to.

Mr. Rance inspected the Factories and Workshops employing males, and Miss Middlebrook those where women are employed; 10 new workrooms were measured up and put on the register.

BAKEHOUSES.

27. The number of factory bakehouses is 8, and of workshop bakehouses in use is 37. 11 of the latter being underground. They were all inspected twice. I inspected most of them personally and found them generally satisfactory. 14 certified underground bakehouses are not in use.

by consent of owners. Closing orders were served for 87 Robert
Street and 18 Rewine Grove. The work required was done and these
houses are now resopened.

HOUSES SECTIONED THE BY-LAWS.

22. At the commencement of the year, 450 houses were on the register, swere newly registered, and 1 telem off the register, teaving 455 on the register at the close of the year. The number has remained about the same for six or seven years.

23. These houses trapected, east questoring charts helfyearly or yearly. - 50% inspections were made in all, and 516 nobl-

The registered houses were under the care of Inspectors

THEARTED HOUSE DUTY.

Se. No certificate under the Inised Revenue Agt was applied

AMOOR . DIESORDEREUET

25. Two underground rouns compled for sleeping were found not in accordance with the negulations and the compution stopped on service of notice.

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ICE-CREAM SHOPS

28. No ice cream was made or sold.

FRIED FISH SHOPS.

29. There are 39 fried fish shops in the Borough. 42 inspections were made, and 7 notices served.

DISINFECTION

30. Rooms at 1,064 houses were disinfected in 1917, compared with 1,344, 1,252, and 989 in the three preceding years.

The disinfecting apparatus was used 1,064 times for 22,180 articles after infectious disease and 93 times for special disinfection.

Jooks from the Free Libraries and Public Schools were disinfected.

The sum of £8. 7. 0 was received for disinfection after special cases of illness on request of the occupier. In addition a large quantity of horsehair and blankets was disinfected for the Army Ordnance Store Department for the sum of £79.13.0.

THE MORTUARIES.

31. The Sun Street Mortuary was used for 185 bodies compared with 189, 277 and 271 in the three preceding years. 177 were deposited for inquest and 8 for custody. 90 post-mortem examinations were made. No body was deposited in the infectious mortuary, compared with 2.1, and 3 in the three preceding years.

The Eltham Mortuary was used for five bodies compared with 1 in 1914, 3 in 1915 and 8 in 1916. 2 were for inquest and 3 for custody.

CEMETERIES.

32. The two Borough Cemeteries were well maintained and no complaint was received. 701 bodies were buried in Woolwich Cemetery, compared with 667, 720, and 694, in the three previous years. There were 665 interments in the Plumstead Cemetery, compared with 842, 834, and 744, in the three previous years. 36 burials took place in Plumstead Churchyard, compared with 60, 34, 51, 46, and 38, in the five preceding years.

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CLEANSING OF VERMINOUS PERSONS.

33. The station for cleansing verminous persons was opened in November, 1906. During 1917 it was used by 2,800 persons, compared with 430, 651, 811, 954, and 1,124, in the five preceding years. The users were 17 adults (viz., 8 females and 9 males) and 2,783 children (viz., 1,652 females and 1,131 males).

568 verminous rooms were disinfected. The adults came mainly from common lodging-houses and the children from County Council Schools.

An agreement was entered into with the London County Council, dated August 21st. 1911, to allow the London County Council to use the Borough Council Cleansing Station for cleansing school children.

Owing to vermin and scabies introduced by soldiers returning from abroad, there has been a great increase of cleansing required for the children.

The station is now reserved for them every day except Saturday and Sunday between 9 a.m. and 4.30 p.m., girls being cleansed between 9 and 1, and boys in the afternoon. The Borough Council must properly cleanse the children and their clothes to the reasonable satisfaction of the London County Council, which pays 1/- for each cleansing.

The Borough Council for this purpose employs a female attendant for the five days at a cost of 5/- per day, plus war bonus.

£136. 17. 0 was paid by the London County Council for the school children cleansed last year.

The cleansing of children is supervised by a school nurse.

A box of stavesacre ointment is supplied to each bather, with instructions for its use. The names and addresses of bathers are entered in a book, and the woman inspector calls at the homes and arranges for necessary disinfection and cleansing of verminous bedding and rooms.

TENTS, VANS AND SHEDS.

34. During the year, 58 tents, vans, and sheds, were inspected (53 in 1916) and one notice served under the By-laws for this class of dwelling. 53 were in Eltham, 4 in St. Margaret's Ward, and one in St. Nicholas Ward.

NOTICES AND PROSECUTIONS.

35. Fewer (2,750) intimation notices, but more (867) statutory notices were served. 101 of the latter, not having been complied with in the time specified, were referred to the Town Clerk, who, before taking proceedings, wrote a warning letter in each case. Finally, 4 defaulters were summoned at the Police Court. The results are given in Table XII. Convictions were obtained and orders made in every case.

BACTERIOLOGICAL EXAMINATION.

36. The Council's bacteriological work is done by the Bacteriological Department of the Seamen's Hospital.

1,253 bacteriological examinations were made for the Public health Department, viz., 953 for diphtheria, 286 for phthisis, and 9 for enteric fever. The total cost was £199.7.0 compared with £156. 13. 0 in 1915.

INFANT WELFARE

37. Much work was done and considerable advance made in Infant Welfare during the year. The Infant Consultation conducted by the Medical Officer of Health at the Town Hall was continued on Wednesday afternoon. The number of attendances shows an increase on the preceding year. The Health Visitors of Woolwich and Plumstead parishes weigh the infants and assist the Medical Officer. A new Consultation was commenced at Eltham in April 1917. This is held on Thursday afternoons (at St. Luke's Church Hall, which the Borough Council rents for the purpose. The cost for rent, lighting and heating in 1917 was £30.

Dr. Hawthorne conducts the Consultation assisted by the Health Visitors and voluntary workers. Dr. Hawthorne was paid one guinea per afternoon. The average attendance at Woolwich was 23, and at Eltham 14.

The total attendances at the two consultations were 1,792 compared with 1,408 in 1913.

An arrangement was made for children needing medical attendance to be treated at the School Clinic in Brewer Street at the cost of the Borough Council if the parents could not afford a Doctor.

The Ante-natal Clinic conducted jointly with the British Hospital, continued at the Town Hall. The Medical Officer was Dr. Agnes Swanson and the Health Visitors attended in rotation. 48 expectant mothers attended.

An additional Health Visitor - Miss Latham - was appointed and commenced work in May 1917.

In addition to this official work, the Medical Officer of Health and Health Visitors co-operated in much voluntary work done by the Advisory Committee for Women Munition Workers, the Committee of the Day Nursery and the Invalid Children's Committee.

WOMAN SANITARY INSPECTOR'S WORK.

38. The following is a summary of the work done by Miss Middlebrook:-

Women's Lavatories - Inspections Found dirty and defective	150 20
Restaurants and Eating-houses - Inspections Defects and dirty conditions found and remedied	100
1 GIII GUI FU	16
Factories and Workshops - Inspections Notices served New workrooms measured	247 9 10
Homeworkers' Premises - Inspections Cases referred to District Inspectors	342
Houses let in lodgings - Inspections Houses found dirty or unsatisfactory	357 187
Visits re Phthisis, Measles, Scabies, Whooping-cough and Zymotic Enteritis	622
Visits paid for various causes, complaints, etc. Visits, verminous and dirty houses & bedding Re-visits - estimated	443 506 ,000
Cases where bedding was found to be in a dirty and verminous condition, and cleansed or destroyed	420
Number of cases referred to District Inspectors	109
Overcrowding - cases found and abated	43
Notices served re dirty conditions on land- lords and tenants	238

In addition to term official mant, the Sections Tot off thing testron out to one krew yesterney House Lat in ladgings - Inspections Moraea Louis alies of unastantial Whooping-comp and Swoote Sulgood

39. The following is a Summary of the work of the Health Visitors:-

	Miss Fitzgerald	Miss Farmer	Miss Latham 8 months	Total
successful visits (Mothers out) sits re Notification of Births miciliary visits to Infants attending Consultation -visits (Births) te-Natal visits asles , Re-visits fant Deaths investigated ildren over one year motic Enteritis , Re-visits hthalmia Neonatorum , Re-visits terperal Fever	536 272 166 16 607 15 20 30 22 13 5	319 460 166 226 6 394 34 9 36) 6) 20 12 5	223 351. 142 467 120 14 8 - 41) 15) 10 11 2)	542 1,347 580 359 22 1,121 63 37 30 120 43 28 16
berculosis mplaints investigated irty Conditions isits not otherwise classified ealth Lectures given mmittees attended (Local Advisory and Day Nurse ternoons at Infant Consultations ornings at Ante-Natal Clinic	38 7 11 114 9 25 ry) 50 18	19 - 48 3 W'ch49) Eltham9) 19	2) 22 35 1 - 31 13	79 7 11 197 13 25 139 50

N.B. Owing to queues and other difficulties in procuring food taking Mothers from home there was a great increase in unsuccessful visits.

Misses Farmer and Latham make the following observations on their work:-

The effect of war conditions during the latter half of the year, (when it was necessary for mothers to spend many hours a day doing the ordinary household shopping) was seen in many homes, by a considerable neglect of ordinary household duties. During the last months of 1917 there was great difficulty in obtaining milk for children. This was before the Milk Priority Order came into being. Milk sellers were asked to voluntarily agree to give priority in supplying milk to nursing mothers and young children. This arrangement was

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readily agreed to by most of the milk sellers but it involved much time being spent by the Health Visitors in arranging for each individual case as it arose.

STAFF.

40. The following alterations occurred in the Staff:-

Mr. Smith joined the Army and Mr. Britter again took up the duties of chief clerk. The time of Inspectors Tedham and Shaw, and, to a large extent of Chief Inspector Duck, was monopolised by the Food Control work.

My thanks are due to the untiring services of Mr. Duck and the devotion of other members of the sanitary staff. The work of the clerical department was very exacting and involved much overtime.

Messrs. Britter and Smith deserve special commendation for their assiduity.

