

[Report of the Medical Officer of Health for West Ham].

Contributors

West Ham (London, England). County Borough.

Publication/Creation

[1897]

Persistent URL

<https://wellcomecollection.org/works/jqcyrt2x>

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution, Non-commercial license.

Non-commercial use includes private study, academic research, teaching, and other activities that are not primarily intended for, or directed towards, commercial advantage or private monetary compensation. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>



County Borough of West Ham.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

PUBLIC HEALTH COMMITTEE:—1895-1896.

Councillor POLLEY (*Chairman*).

Alderman SMITH.

„ FIELDER.

Councillor ALDEN.

„ ATHEY.

„ HUNNS.

„ LOURY.

„ MANSFIELD.

Councillor RELF.

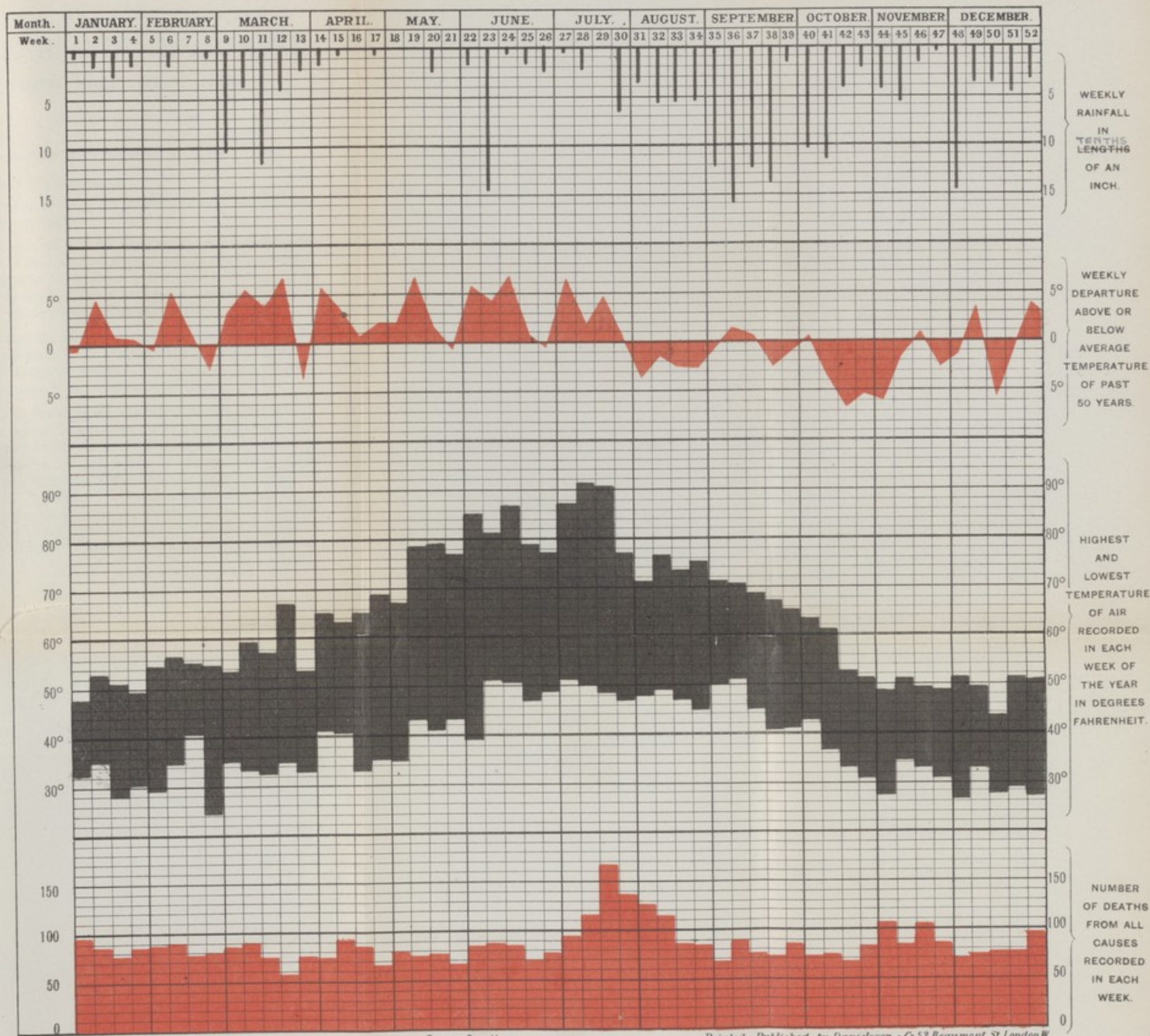
„ NOAKES.

„ RIPPIN.

„ THRELFORD.

LONDON:
THE AVENUE PRESS
(COCKSEGE & HARVERSON),
STRATFORD;
AND
33, PATERNOSTER ROW.

METEOROLOGY AND MORTALITY IN 1896.



THE "MEDICAL OFFICERS OF HEALTH" CHART.

ENT. AT STA. HALL.

Printed & Published by Danielsson & Co. 52, Beaufort St. London W.

Notes:



PUBLIC HEALTH DEPARTMENT, TOWN HALL, WEST HAM.

To the Public Health Committee.

MR. CHAIRMAN AND GENTLEMEN,

I beg to submit to you my Tenth Annual Report as your Medical Officer of Health.

The Report deals with the year 1896, and in it I am instructed, by the order of the Local Government Board, to include a summary of the action taken by the Sanitary Authority during the year for preventing the spread of disease, and also an account of the sanitary state of the district generally at the end of the year.

It is obvious that there are many matters having direct or indirect effect upon the public health with respect to which the Council has taken action through the Engineer's Department, and which therefore need only a passing, if any, reference in this Report.

Area and Population.—The County Borough comprises 4,706 acres. The enumerated population in 1891 (census) was 204,903, and the inhabited houses numbered 32,066, giving an average of 6·3 persons to a house, and 43·5 persons to an acre. The estimated population, according to the Registrar General, for the middle of 1896 should be 261,279. There is no reason to suppose that the ratio of persons to houses has increased, and calculating upon this basis from the number of inhabited houses it would appear that the foregoing estimate is too high. I have on various occasions pointed out my

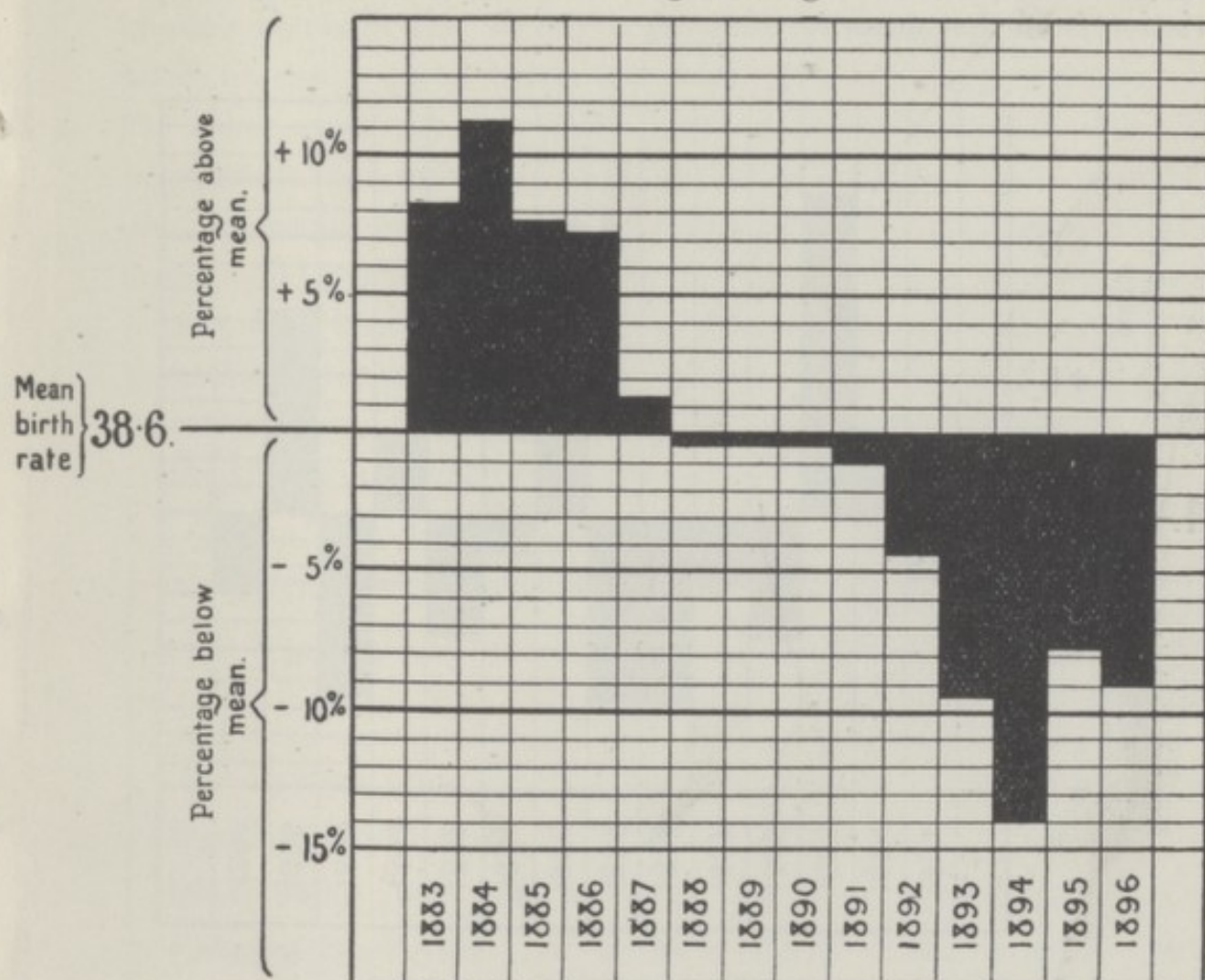
preference for a figure which shall err on the side of under-estimating the population than over-estimating it, the latter course merely resulting in 10 years' false feeling of security followed by a rude awakening.

I therefore use for the purpose of this Report, and indeed have so used throughout the year in my regular reports, the figure 240,000 as the population of the Borough at the middle of 1896, which allows 51 persons to an acre.

Births.—During the year 8,519 births were registered, being a decrease of 72 as compared with last year, and giving an annual birth-rate of 35·4 per 1,000. This is the only year in which a regular annual increase in the number of births has been broken since 1883, with the exception of 1887, when there was a decrease of 210. The birth-rate of the 33 largest English towns was 30·7, and the West Ham rate was only exceeded by one town, viz., Gateshead (35·8). The registration districts of the northern division of the Borough are not co-terminous with the Municipal Wards, therefore, in distributing the births to their respective wards I am compelled to join Stratford with Forest Gate. For the same reason the difficulty in estimating the population mentioned above is magnified in attempting to gauge that of each separate district. Too much reliance must not be placed, therefore, upon the ratio for the localities given below :—

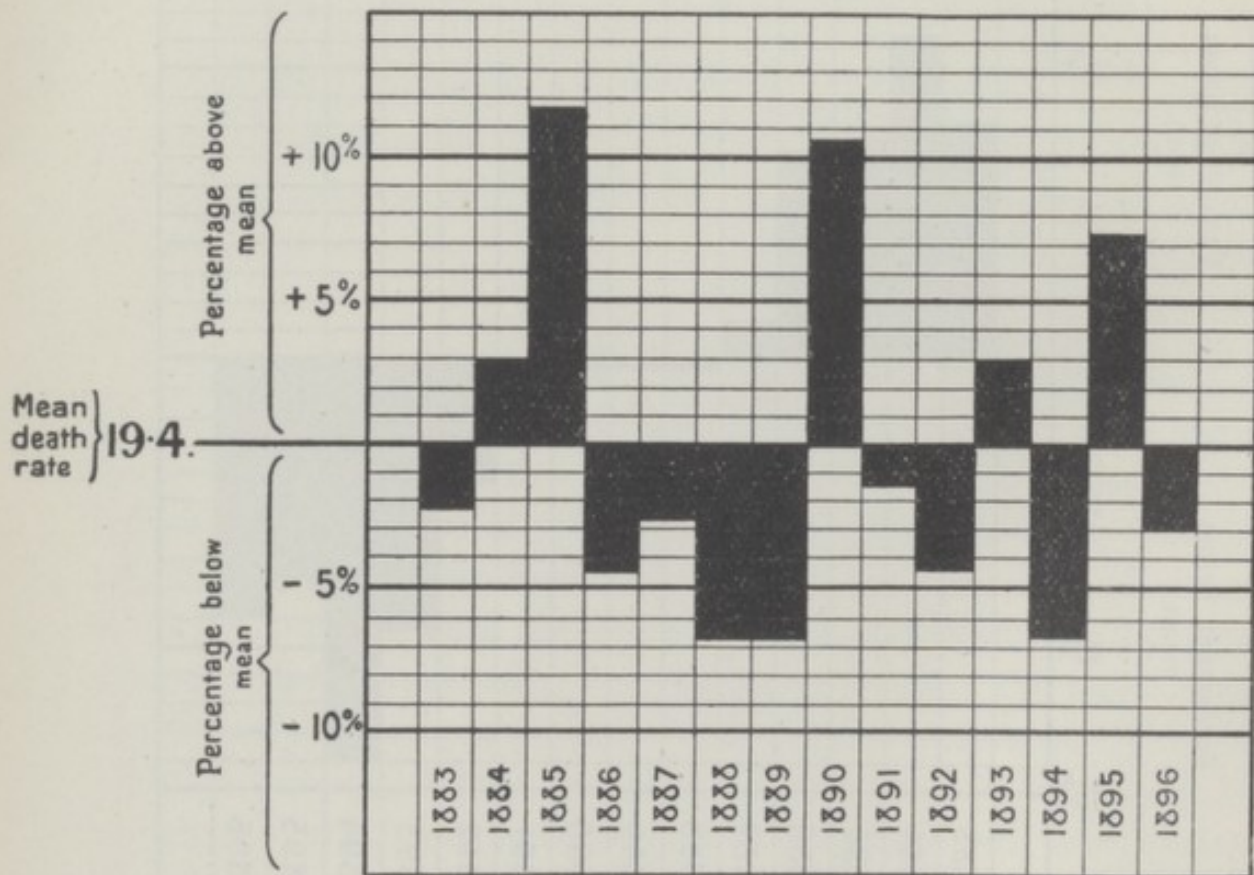
				Births.	Birth-rate per 1,000 of Population.
Northern Division	{	Stratford ...	...	1,650	} . 31·6
		Forest Gate ...	...	1,643	
Plaistow Ward	...	...	...	2,740	37·2
Canning Town Ward	...	...	...	2,486	30·9

The mean birth-rate during the past 14 years was 38·6 per 1000. The diagram below illustrates the percentage variation from that mean.



Deaths.—The total deaths of West Ham during the year numbered 4,395, including 3,857 registered in the Borough by the local Registrars (from which 44 must be deducted as being deaths of non-residents), 325 registered as occurring in the Workhouse, and 257 deaths of West Ham Inhabitants which took place in hospitals and other institutions within the metropolis. This number of deaths is 261 less than that of last year, and 170 less than that of 1893, giving a death-rate for the year of 18·9 per 1,000, which was the mean death-rate of the 33 great towns for the same period. It was ·3 per 1,000 above that of London (18·6), but was lower than the rates of the following towns:—Liverpool (22·7), Manchester (22·6), Salford (22·6), Birmingham (20·8), Preston (20·8), Bolton (20·7), Oldham (20·3), Wolverhampton (20), Sunderland (19·8), Plymouth (19·6), Birkenhead (19·2), Sheffield (19·3), Gateshead (19·1).

The mean annual death rate of the Borough during the past 14 years was 19·4 per 1,000. The diagram given below illustrates the variation from that mean.



As before stated, the sources of information being unreliable, and the margin of error being too great to warrant me in attempting an accurate death-rate of each Municipal Ward, I have this year taken certain defined areas in different parts of the Borough for comparison. The four districts chosen were (1) The Woodgrange Estate, comprising the four roads, Hampton, Osborne, Claremont and Windsor, lying between Woodgrange Road and Balmoral Road; (2) The Stratford Marsh, comprising the streets bounded on north by High Street, south by West Ham Gas Works, west by Metropolitan Outfall Sewer, and east by Channelsea River; (3) Old Canning Town, comprising all the streets to the west of Canning Town Railway Station, and (4) Croydon Road area, comprising all the streets lying between Hermit Road and Chargeable Lane in one direction, and between Barking Road and the Hermit Road Recreation Ground in the other direction.

In order to obtain the enumerated population and inhabited houses in these several areas, sent Reply Post Cards to the occupier of each house in the Woodgrange area, asking for particulars to be filled in, my request being met with a most ready response. In the other areas my Inspectors made a house to house call. The populations thus arrived at are probably as accurate as it is possible to obtain, except by means of an official census. Any error likely to arise would occur in the poorer districts in cases of overcrowded houses, with which nuisance it might be considered undesirable on the part of the tenant to acquaint the Inspector. Such errors, however, must have been few, and in any case would merely tend to reduce rather than to increase the death-rate.

In the Table below I give a summary of my calculations :—

District.	Houses.	Popula- tion.	Number of Persons per House	No. of Deaths.	Death- rate per 1,000.
Woodgrange Area ...	447	2,293	5	22	9.6
Stratford Marsh Area...	432	2,966	6.9	82	20.7
Old Canning Town Area	545	3,585	6.6	100	27.9
Croydon Road Area ...	1,026	6,503	6.3	123	18.9

The above Table suggests that during last year the health conditions of the Woodgrange area were twice as favourable as those of the Borough generally, and three times as favourable as those pertaining to Old Canning Town. As might be expected from the number of persons per house shown above, the proportion of children in the Woodgrange area differs greatly from that of the other districts.

	Children under 13 years of age. Per cent. of total population of area.
Woodgrange Area	20 per cent.
Stratford Marsh Area	47.6 „
Old Canning Town Area	48.9 „
Croydon Road Area	43.8 „

Sex.—The distribution of deaths between the sexes is shown in the following table, June and December being the only months in which female deaths were in excess of male deaths:—

Month.	Deaths Registered.	
	Males.	Females.
January	227	194
February	182	155
March	153	148
April	215	169
May	164	137
June	182	210
July	231	213
August	253	231
September	204	172
October	164	139
November	200	174
December	195	203

Chief Zymotic Diseases.—The seven chief zymotic diseases, which include small-pox, scarlatina, diphtheria, fever, measles, whooping cough, diarrhoea, caused 982 deaths, giving an annual zymotic death-rate of 3·9 per 1,000. This was ·2 per 1,000 above the mean zymotic death-rate during the past 14 years, which averaged 3·7. In the matter of zymotic death-rate West Ham frequently holds an unenviable position, and last year proved no exception to this rule. According to the Registrar General the average zymotic rate of the 32 largest English towns was 2·6 per 1,000, a figure much below that

of West Ham, indeed our zymotic death-rate of 3·9 was the highest for the year with the exception of Salford (4·1).

This general high zymotic rate is a matter calling for serious attention with a view to its improvement. It must be remembered, however, that up till last year we were without any means of isolation for these diseases other than small-pox, and even now our accommodation is very much below that requisite.

In the Table below I give the monthly statistics for the four chief zymotic diseases usually isolated :—

Month.	Small-pox.		Scarlatina.		Diphtheria.		Enteric fever	
	Notified Cases.	Deaths	Notified Cases.	Deaths	Notified Cases.	Deaths	Notified Cases.	Deaths
January ...	26	3	160	3	97	18	33	3
February ...	4	—	169	4	53	10	30	2
March ...	14	1	137	7	42	9	25	5
April ...	4	—	137	6	78	15	13	6
May ...	7	—	107	1	79	22	6	—
June ...	4	—	155	3	80	6	19	4
July ...	—	—	138	6	67	13	43	7
August ...	—	—	118	6	70	14	55	8
September	—	—	174	7	84	19	74	15
October ...	—	—	114	3	111	23	32	9
November	—	—	104	9	75	19	25	3
December...	—	—	88	2	58	23	18	2
Totals ...	59	4	1,601	57	894	191	373	64

The death-rate from all these diseases, excepting enteric fever, was higher last year than the average for the past eight years. The small-pox cases which occurred during the first half of the year were a rekindling of the 1893-94 epidemic, and were almost entirely localised to the districts north and south of the Barking Road. During 1896 the Gloucester epidemic spread to several towns in the midlands, but no case, so far as I could discover, was imported into West Ham from that district; 55 out of 59 cases were isolated at the Hospital Ships, and the promptitude with which the cases are removed by the Metropolitan Asylums Board ambulances is, in my opinion, very largely responsible for the steady decline in the epidemic.

Vaccination.—On September 16th, 1896, I reported to the Council as follows :—

It is satisfactory to call attention to the publication of the Report of the Royal Commission of Vaccination, and especially to the conclusions formulated by the Commissioners after their exhaustive enquiry, which I quote below—conclusions which more than justify your Council, as the Urban Sanitary Authority, in using every endeavour to ensure the efficient vaccination and re-vaccination of the entire Borough.

“377. We have not disregarded the arguments adduced for the purpose of showing that a belief in vaccination is unsupported by a just view of the facts. We have endeavoured to give full weight to them. Having done so, it has appeared to us impossible to resist the conclusion that vaccination has a protective effect in relation to small-pox.

“We think :—

“ (1) That it diminishes the liability to be attacked by the disease.

“ (2) That it modifies the character of the disease and renders it
(a) less fatal and (b) of a milder and less severe type.

- “(3) That the protection it affords against attacks of the disease is greatest during the years immediately succeeding the operation of vaccination. It is impossible to fix with precision the length of this period of highest protection. Though not in all cases the same, if a period is to be fixed, it might, we think, fairly be said to cover in general a period of nine or ten years.
- “(4) That after the lapse of the period of highest protective potency, the efficacy of vaccination to protect against attack rapidly diminishes, but that it is still considerable in the next quinquennium, and possibly never altogether ceases.
- “(5) That its power to modify the character of the disease is also greatest in the period in which its power to protect from attack is greatest, but that its power thus to modify the disease does not diminish as rapidly as its protective influence against attacks, and its efficacy during the later period of life to modify the disease is still very considerable.
- “(6) That re-vaccination restores the protection which lapse of time has diminished, but the evidence shows that this protection again diminishes, and that to ensure the highest degree of protection which vaccination can give, the operation should be at intervals repeated.
- “(7) That the beneficial effects of vaccination are most experienced by those in whose case it has been most thorough. We think it may fairly be concluded that where the vaccine matter has been inserted in three or four places, it is more effectual than when introduced into one or two places only ; and that if the vaccination marks are of an area of half a square inch, they indicate a better state of protection than if their area be at all considerably below this.”
- “ 434. A careful examination of the facts which have been brought under our notice has enabled us to arrive at the conclusion that, although some of the dangers said to attend vaccination are undoubtedly real and not inconsiderable in gross amount, yet

when considered in relation to the extent of vaccination work done, they are insignificant. There is reason further to believe that they are diminishing under the better precautions of the present day, and with the addition of the further precautions which experience suggests, will do so still more in the future."

" 503. We can see nothing then to warrant the conclusion that in this country vaccination might safely be abandoned and replaced by a system of isolation. If such a change were made in our method of dealing with small-pox, and that which had been substituted for vaccination proved ineffectual to prevent the spread of the disease (it is not suggested that it could diminish its severity in those attacked), it is impossible to contemplate the consequences without dismay."

" 508. In connection with the subject with which we have been dealing, we may advert to the suggestion that the vaccination and sanitary authority should in all cases be identical. . . . We are not in a position to devise a scheme which would accomplish either wholly or partially the desired result. At the same time we fully recognise the importance of achieving it as far as possible, and we should regard with favour such changes as would render the amalgamation of vaccination and sanitary authorities feasible, or indeed any steps taken in that direction, even although they should only partially effect the object in view."

" 509. From the views which we have expressed on the subject of vaccination, and on the absence of proof that any practical alternative exists which could be relied on to accomplish the same results if vaccination fell into disuse, it follows that we are of opinion that the State ought to continue to promote the vaccination of the people. Nor are we prepared to recommend that the State should cease to require vaccination, and trust entirely to a voluntary adoption of the practice."

" 511. . . . To secure that vaccination should be as widespread

as possible is, we think, the object to be kept primarily in view."

The other zymotic diseases (measles, whooping-cough, and diarrhoea) usually affect the zymotic death-rate to a greater extent, and are less easily combated by sanitary administration than the four diseases mentioned above. In the first place the popular imagination largely discounts the gravity of these cases, and looks upon measles and whooping cough as almost a necessary evil of child life, nearly akin to the physiological process of dentition. Again, the acute stage of measles being usually short, the disease is assumed to have terminated with the disappearance of the rash, many cases receiving no medical attendance at all, with the result that most of the fatal cases are due to intercurrent diseases during the period of convalescence. It is impracticable to put in force the triple line of sanitary defence adopted in dealing with the other zymotics, viz., universal notification, Hospital isolation, and official disinfection, both on account of the cost and of the early virulence of the infection. Notification has been adopted in some towns in the case of measles, with varying and doubtful results, but no authority, so far as I am aware, has attempted hospital isolation on a sufficiently large scale to cope with any given severe epidemic. It would appear that nothing but a gradual education of the poorer classes as to the danger of these diseases and the best method of treatment, is likely to produce definite and positive results. And it is here, I believe, that the rôle of the woman inspector, offers the best hope of sanitary salvation, a woman inspector, who, being a trained district nurse could devote herself to teaching the poorer mothers how to rationally rear their bottle-fed infants, and how to avoid the dangers due to an ignorant treatment of the foregoing diseases, the especial assailants of infancy, working, it may be, through years of patient routine without any apparent immediate results, but gradually accumulating an educational reserve of immense value to the well-being of the Borough in more ways than that originally intended.

That there is ample reason for some attempt in this direction, is proved by the fact that more than 3,000 deaths from these

three diseases alone occurred during the last 6 years, as is shown in the Table below.

Year.		Deaths from Measles.	Deaths from Whooping Cough.	Deaths from Diarrhoea.
1891	Under 5 years	49	155	100
	Over 5 „	7	5	15
1892	Under 5 years	179	98	186
	Over 5 „	17	3	18
1893	Under 5 years	30	135	300
	Over 5 „	6	8	35
1894	Under 5 years	207	93	155
	Over 5 „	12	3	12
1895	Under 5 years	209	48	317
	Over 5 „	10	1	26
1896	Under 5 years	109	147	339
	Over 5 „	3	7	28
Totals	Under 5 years	783	676	1,397
	Over 5 „	55	27	134

In dealing with the deaths from all causes I have pointed out the variations in the death-rate of certain defined areas during the year 1896. This variation is even more marked in the case of the principal zymotic diseases, as is seen below.

District.		Deaths from Chief Zymotic Diseases.	Zymotic Death-rate per 1,000.
Woodgrange Area	...	2	0·8
Stratford Marsh Area	...	16	5·3
Old Canning Town Area	...	24	6·6
Croydon Road Area	...	27	4·1
County Borough	...	982	3·9

Meteorology.—The centre of the Borough being about $3\frac{1}{4}$ miles north of Greenwich Observatory, the meteorological observations recorded at Greenwich may be taken as fairly representing those of West Ham. The Table below is extracted from the periodical reports of the Astronomer Royal. From this it will be noted that the year 1896 practically divided itself into two parts, the first seven months being warmer than usual, and the last five months colder. The mean temperature of the year was $50\cdot2^{\circ}$, being well above the mean temperature for the last 50 years. The coldest day of the year was February 25th, when the temperature was $24\cdot3^{\circ}$, and the hottest day was July 14th, the temperature then rising to $91\cdot1^{\circ}$.

Rain fell on 155 days in the year, the total rainfall being 22·05 inches. This chiefly occurred during the last five months, and partly explains the lower average temperature during that period. The registered sunshine for the whole year amounted to 1,017 hours.

Week ending.	High-est.	Low-est.	Mean for Week.	De- parture from average of 50 years.	No. of Rainy Days.	Sum. for week, in inches.	Sun- shine in hours.	Baro- meter mean.
Jan. 11	44·8	32·2	37·2	— ·9	2	·06	1·2	30·5
„ 18	52·9	34·6	43	+ 4·8	3	·18	1·5	29·7
„ 25	51	28·3	39·5	+ ·8	2	·26	7·3	30
Feb. 1	49·1	30·2	40	+ ·4	1	·11	3·1	30·4
„ 8	54·1	29·4	39·2	— ·4		·00	9·5	30·3
„ 15	56·2	35·1	43·9	+ 5·1	2	·14	13	30·2
„ 22	55·5	31	40·8	+ 1·1		·00	14·5	29·9
„ 29	54·1	24·3	37·6	— 2·4	2	·06	19·6	30·0
Mar. 7	53·8	34·9	43·9	+ 3·2	6	1·01	5·6	29·2
„ 14	59·1	33·9	46·4	+ 5·5	5	·38	3·5	29·8
„ 21	56·8	32·1	45·4	+ 3·9	5	1·16	4·9	29·6
„ 28	67·7	35·3	49·1	+ 6·6	4	·40	28	29·6
Apr. 4	52·6	33·2	42·2	— 3·1	4	·20	12·5	29·9
„ 11	65·1	41·4	51·2	+ 5·4	3	·15	5·8	30·0
„ 18	63·2	40·3	51·6	+ 3·2	1	·05	15·3	30·1
„ 25	65·1	33·7	49	+ ·5		·00	20·4	30·1

Week ending.	High-est.	Low-est.	Mean for Week.	De- parture from average of 50 years.	No. of Rainy Days.	Sum. for week, in inches.	Sun- shine in hours.	Baro- meter mean.
May 2	69	35.9	50.6	+ 1.7	2	.02	22.1	29.8
" 9	67.6	35.8	52.3	+ 1.8		.00	46.1	30.1
" 16	78.1	43.7	58.5	+ 6.2		.00	57.9	30
" 23	78.4	40.3	55.5	+ 1.2	4	.25	15.4	29.8
" 30	77.7	43.9	55.4	- .6		.00	44	30.1
June 6	84.9	39.8	63.3	+ 5.5	4	.19	61.9	29.6
" 13	81.2	51.3	62.4	+ 4	5	1.45	38.7	29.5
" 20	86.7	50.5	66	+ 6.8	1	.04	60.3	29.8
" 27	78.7	46.8	61.4	+ .3	2	.19	26	29.9
July 4	77.5	48.5	61.3	- .1	4	.24	29.7	29.8
" 11	87.3	51.6	68.3	+ 6.2	1	.03	66.5	29.8
" 18	91.1	50.2	64.9	+ 1.9	2	.21	39.5	29.9
" 25	90.3	48.5	67.5	+ 4.7		.00	35.4	29.8
Aug. 1	76.4	47.3	62.4	+ .1	2	.65	39.8	29.7
" 8	78.7	48.3	58.4	- 3.9	3	.36	14.2	29.8
" 15	76.2	49.9	60.8	- 1.6	4	.59	11.2	29.9
" 22	73.6	47.1	59	- 2.4	3	.56	23.2	29.8
" 29	74.7	45.7	58.1	- 2.6	4	.54	18.3	29.7
Sep. 5	71.5	50.2	58.7	- 1	5	1.22	10.4	29.6
" 12	70.6	51.8	59.7	+ 1.2	6	1.58	7.8	29.6
" 19	68.3	45.8	58.2	+ .9	6	1.22	20.9	29.5
" 26	67.1	40.3	52.9	- 2.4	6	1.40	20.1	29.3
Oct. 3	65	41.6	53.2	- 1.1	2	.15	16.8	29.9
" 10	63.4	42.8	52.4	+ .1	6	1.02	22.0	29.4
" 17	60.9	37	46.9	- 3.3	5	1.15	4.8	29.7
" 24	52	33.9	42.1	- 6.6	4	.41	9.5	29.3
" 31	51.1	31.5	41.6	- 5.6	3	.21	27.1	29.4
Nov. 7	48.3	27.4	40	- 6	3	.42	19.7	29.9
" 14	50.9	34.2	42.1	- 1.3	2	.56	7.7	29.8
" 21	49.4	33.4	42.7	+ .4	3	.18	6.2	29.8
" 28	48.8	31.3	39.3	- 2.5	1	.02	5.3	30.1
Dec. 5	51.3	26.5	39.8	- 1.1	5	1.46	13.8	29.5
" 12	49.8	33.6	43.8	+ 3.4	6	.39	1.0	29.3
" 19	43.9	26.9	34.6	- 5.3	3	.39	1.8	29.4
" 26	51.5	29.1	37.7	- .8	5	.47	1.2	29.9
Jan. 2	51.3	27.2	42.1	+ 3.6	3	.32	4.9	30.0

Hospital Accommodation.—If for no other reason, 1896, the 10th year of the incorporation of the Borough, was memorable as being the first year in which West Ham commenced to treat infectious disease other than small-pox by means of hospital isolation. How it came about that a population of over 200,000 remained so long without such isolation, and what were the difficulties the Council had to meet before they were able to open the hospital, form an interesting chapter in the sanitary history of the Corporation, which need not be further considered in the present report, it is sufficient to notice the commencement of what, I trust, when fully completed, will prove a powerful arm of the Public Health service.

On January 1st two wards accommodating 36 cases of diphtheria were opened, and during the first two months I sent in 35 cases. With the opening of the wards, however, diphtheria cases fell markedly in number, and after consultation with Dr. Biernacki, the Medical Superintendent, it was decided to use the wards for scarlet fever instead of diphtheria. Early in March, the wards having been cleaned and prepared, this plan was adopted, and from that period till the end of the year I sent in 168 cases of scarlet fever. In the mean time the second pavilion of two wards were furnished to receive diphtheria cases, which we were again able to isolate from the middle of July. In all 126 cases of this disease were taken from their houses in the Borough for treatment at the hospital.

The accommodation for diphtheria is at present ample, but the scarlet fever wards have been full from the time they were opened, and I have had almost daily to refuse to send in cases where the friends were willing and anxious for their removal. Up to last year it was easy to explain to one and all that there was no hospital and that, therefore, cases must be treated at home, but now that the hospital is opened, and the scarlet fever wards chronically full, it is becoming increasingly difficult to discriminate which cases shall be sent in, and, indeed, as very frequently happens, cases particularly requiring removal from home occur when there is no chance of their reception at the hospital.

I have before shown that over 1,600 cases of scarlet fever alone were notified during the year, and that we only dealt with one-tenth of this number by hospital isolation. When, too, it is remembered that nearly all the largest employers of labour now require the enforced idleness of those employés who come from a house containing a case of infectious disease, that the Police and Postal service have rigid rules of the same character, and that the Borough is riddled with small food and milk businesses carried on in cottages where, however possible isolation may be in theory, the practical dangers of treating the case at home are innumerable, it is evident that our hospital is now of more use to the favoured individual than to the community, and that to serve the purposes of the latter a larger number of beds is imperative.

Your Public Health Committee has now before it the consideration of this important subject, and I hope the Council will, in its decision, also recognise the claims of the poorer inhabitants who are attacked with enteric fever. This is a disease peculiarly fitted for hospital treatment, provided always the cases are removed in the early stage of the disease. Although infectious, almost solely by means of the bowel discharges, and consequently in competent hands comparatively easy to isolate, the course of the illness is so long and the complications liable to arise are so many, sudden, and severe, that a working-class community is probably more handicapped in the treatment of this disease than of any other infection.

General Sanitary Administration.—In the appendix will be found a list of nuisances dealt with by the Inspectors during the year, chiefly under the Public Health Act, 1875. Many of these in themselves cannot be said to be injurious to health, though they are sufficiently inimical to comfort to be considered nuisances. Little difficulty is experienced in dealing with the graver nuisances which from time to time engage the attention of the sanitary staff, but the Inspectors have to pay many unnecessary visits in order to secure the remedying of these minor defects, the several items on the notice being carried out piecemeal and at odd times. Hitherto it has been the practice, in addition to the statutory notice, to send one or more letters of warning to the owner. Looking to the time lost

to the Department, which might be used in other directions, it is questionable whether I ought not to be empowered to institute proceedings on failure to comply with the notice, without giving additional letters.

Unhealthy Dwelling-houses. — Under the Housing of Working Classes Act, 1890, I reported during the year the following houses as being in a state so dangerous to health as to be unfit for human habitation, viz. :—

Thorne Villas, Tenby Road.

29, Tidal Basin Road.

9, Derby Street.

20-28, Richmond Street.

26-38, Helena Road.

Nos. 29, 46, 61, 64 and 72 to 86 (even), First Avenue.

Nos. 5 and 7, Phillip Street.

Two Cottages in Beckton Road.

Experience in working, since the passing of this Act, has shown that for facility in closing an unhealthy house, sec. 97 of Public Health Act, 1875, is much the more useful provision, and hitherto one has restricted action, under the Housing of Working Classes Act, to those cases in which the nuisances requiring abatement were so numerous as to require a notice in the form of a "specification," or to those cases in which it was easier to point out the defects than to specify the remedy. The above-mentioned houses fall within these two classes. Thorne Villas form an excellent example of the first class—a block of sixteen three-roomed tenements—never free from visits of the Sanitary Inspector, and yet seldom long, in a habitable condition. After closure and change of ownership, extensive work was carried out from basement to roof, a responsible caretaker lodged in one tenement, and, I suspect, a judicious selection of tenants made ; since when there has been no need for action by the Sanitary Officials. The houses in Helena Road and First Avenue were reported in consequence of their being subject to a perpetual plague of slugs, the ground floors being nightly invaded by, in many cases, dozens of these

molluscs. No sincere attempt to remedy the nuisance appears to have been made before the service of notice under the Housing of the Working Classes Act, and even the measures adopted since have not yet proved entirely successful.

In January, I made the following report, which was accepted by the Council and forwarded to the Local Government Board.

Extract from Reports, pp. 150, 151, 152.

A letter having been received from the Local Government Board, enclosing a communication from the Mansion House Council on the Dwellings of the Poor, and asking for the observations of the Council thereon, I beg to submit the following facts for your consideration:—

On the 6th April, 1894, a report was received from the Mansion House Council on the Dwellings of the Poor, containing a list of some 2,223 defects alleged to exist in 596 houses in certain streets in the Borough. As stated in my report, dated 2nd May, 1894, the list of 2,223 defects required to be largely discounted for various reasons—such as 460 houses without dust-bins, 300 defects which the Inspectors reported could not be discovered at all, and several houses mentioned in the report which had either disappeared or else had never existed, besides a number of other matters which were of a trivial character, or which did not come under the nuisance definitions contained in sec. 91 of the Public Health Act, 1875.

On the 18th July, 1895, a further report was received giving a second list of defects alleged to exist in the same houses previously reported on. The numbers of defects mentioned in the second report (1,350) are considerably less than those given in the first report, and are also dissimilar in character. In no single case does the description given of any house agree with that given of the same house in the first report, thus proving conclusively that the information given by the Mansion House Council in their first report had been thoroughly investigated, and such defects as constituted a nuisance had been effectually dealt with, and that the defects enumerated in the second report were such as had arisen in the interval. The fact that the

matters complained of were thoroughly investigated and dealt with by the Inspectors is fully borne out by the records made in their official journals, which show the locality of every house inspected, the nature of the defects found therein, the date notices were served to remedy these defects, and the names and addresses of the persons on whom such notices were served, and also entries to the effect that the work was satisfactorily carried out. These journals can be produced, and are a standing refutation to many of the statements made by the Mansion House Council. Such defects as are common to both reports can either be accounted for in the manner stated above, or else were of such a character as could not be dealt with under the provisions of the Public Health Act.

It is worthy of note that although in the first report 460 houses were said to be without dust-bins, and in the second report 474 houses are said to be provided with "receptacles of a sort;" in only a single case (and that an empty house) does the inspector of the Mansion House Council appear to have found "Any accumulation or deposit which is a nuisance or injurious to health."—*Vide* 38 & 39 Victoria cap. 55 s. 91.

With regard to the latter part of the letter of the Mansion House Council received from the Local Government Board, referring to the closing of certain houses in Poplar Street, Canning Town, it may be mentioned that upon the receipt of the first report, the premises Nos. 30, 32, 34, and 36, Poplar Street, were inspected, and notices (copies of which I submit herewith) to abate the nuisances which were found to exist, were served upon the owner on 10th May, 1894. These notices were complied with, and the work satisfactorily carried out. The description of these houses as given in the report of July, 1895, show that the defects then existing were not of a serious character. The premises were again visited by the district inspector in the early part of November last, when it was found that the houses had again got into a bad condition, and notices (copies of which I submit herewith) were served on 6th November, 1895, requiring the owner to remedy the defects. As the said owner failed to comply with the notices, I reported the matter to your Committee, and acting

upon instructions I laid informations in the police court with a view to getting the houses closed. These informations were set down for hearing on November 27th, when it transpired that the Mansion House Council had also laid informations in respect of the same houses, which were also set down for hearing on that day. It so happened that their cases were called first, and so they succeeded in forestalling me in closing the houses. The evidence of the witnesses for the Mansion House Council proved that the houses were in far worse condition than at the time when the second report was made. This can only be accounted for by assuming that the defects had arisen in the interval.

The success of the Mansion House Council proves nothing which they so triumphantly assert in the closing part of their letter to the Local Government Board.

But for the mere accident of their cases being called first, the houses would have been closed by the action of the Corporation; and that we have not been remiss in enforcing the provisions of the Public Health Act is proved by the fact that in the year 1893 notices were served to abate 10,441 nuisances, and 25 public health summonses were issued. In the year 1894 notices were served to abate 10,811 nuisances, and 65 public health summonses were issued. In the year 1895 notices were served to abate an even greater number of nuisances, and 76 public health summonses were issued, one case only being dismissed through failure of evidence.

In reply to the inquiry of the Local Government Board as to what action has been taken by the Council to enforce the provision of proper receptacles for ashes and house refuse, I beg to state that in June, 1887, the Council decided to make an experimental trial of the pail system for the collection of house refuse in a certain portion of their district.

A circular intimating this fact and asking the co-operation of the inhabitants in carrying the scheme into effect was distributed in the district indicated on the 16th June, 1887. On the 26th July, 1887, a printed notice was delivered at every house informing the occupiers that the new system of dust collection would commence on the 4th

of August, 1887, and asking them to provide by that time a suitable pail or other receptacle capable of holding three or four days' dust, which would be removed twice weekly, the receptacle to be placed at the door for the dustmen to empty into the cart.

On the 1st September, 1887, another notice was delivered at every house in the Borough informing the occupiers that the experimental trial of the pail system of dust collection having proved successful, the Council were desirous of extending it throughout the Borough, and again asking them to provide the necessary receptacles, and to give their hearty co-operation in carrying out the scheme, and informing them of the date on which the collection in their particular district would commence.

In September, 1889, a further notice was delivered to every house in the Borough, to the effect that, under the provisions of the West Ham Corporation (Improvements) Act, 1888, sec. 71, the Council had decided that in future there must be provided a pail or other suitable receptacle for ashes and house refuse to be placed at the door for the dustmen to empty into the cart, and that the men would call twice in each week on certain indicated days for the collection of the same.

In May, 1895, in consequence of an alteration of the days of collection, a notice was delivered to the occupier of every house to the effect that under the provisions of the bye-laws made by the Council under section 26 of the Public Health Acts Amendment Act, 1890, the occupier of every house or premises was required to place the pail, or other receptacle for house refuse, outside the front of the house in a position convenient for removal by the dustmen twice in each week on such days as were specified in the notice. The notice also contained the penalty clause for offences against the bye-law. Two dust inspectors are constantly employed to see that the provisions of the bye-law are effectively carried out.

SUMMARY OF THE ABOVE.

16th June, 1887.—Notice to occupiers of intention to carry out experimental trial by pail system of dust collection.

26th July, 1887.—Notice of date for commencement of trial.

1st September, 1887.—Notice to occupiers of success of the trial and of date when pail system would be extended to whole Borough.

1888.—West Ham Corporation (Improvements) Act passed, giving power to Council to require use of pails or other suitable receptacles in place of dust bins.

September, 1889.—Notice under the above Act served on the occupier of each house in Borough.

29th December, 1892.—Bye-law under section 26 of the Public Health Acts Amendment Act, requiring occupiers to place pails outside front of house allowed by Local Government Board.

May, 1895.—Notice under above bye-law served on each occupier.

Factory and Workshops Acts.—Under the Act of 1895 not only are Laundries brought specially under the care of the Medical Officer of Health, but the Sanitary Authority is required to exercise a watchful supervision of Workshops, *i.e.*, all places (with certain exceptions) where persons are employed for the purpose of trade or manufacture without the aid of steam or mechanical power, and in addition it is implied that the sanitary surroundings of outworkers, *i.e.*, persons taking work to be completed at their own homes, should receive the constant attention of sanitary officials.

During the year a considerable amount of work in this respect has been done by your staff, as is seen in the Table given below, but it has been at the expense of useful labour in other directions. Most of the largest English towns have appointed special Inspectors for this duty, and if the provisions of the Act are to be carried out systematically, as they should be in West Ham, I must recommend the Council to adopt the same course.

Business.	No. of Workshops	No. of Visits.	No. of Notices served.
Brushmakers	2	4	2
Shirt and Blouse Makers	10	17	6
Dressmakers	37	80	25
Bootmakers	3	5	2
Farriers	1	1	—
Cork Cutters	1	1	—
Milliners	16	36	8
Wire Worker	1	1	—
Tailors	6	12	3
Cycle Makers	5	14	3
Blind Makers	2	4	2
Underclothing Manufacturers	8	22	7
Confectioners	1	4	1
Printers	2	4	1
Engineers	2	3	1
Laundries	25	67	17
Cabinet Makers	5	16	6
Mantle Makers	3	7	2
Cricket Bat Makers	1	2	1
Totals	<u>131</u>	<u>300</u>	<u>87</u>

Shops Hours Act.—The offences under these Acts are practically two—the employment of a young person in or about a shop for more than 74 hours, including meal times, and failure to exhibit the statutory notice. Most of the offenders discovered last year were cautioned by your Council, as a universal ignorance of the provisions of the Act appeared to prevail among shopkeepers.

Business.	Shops visited.	Offences dealt with.
Grocers	71	23
Drapers and Milliners	32	7
Greengrocers	11	4

	Business.					Shops visited.	Offences dealt with.
Butchers	51	16
Pawnbrokers	14	3
Oilmen	44	15
Jewellers	2	2
Licensed Victuallers	49	3
Confectioners	3	1
Chemists	9	6
Clothiers	18	6
Coffee Houses	16	2
Hairdressers	37	21
Bootshops	19	4
Stationers	5	—
Fishmongers	3	2
Corndealeters	12	5
Furniture Shops	6	2
Ironmongers	2	1
Photographers	2	1
Totals	<u>406</u>	<u>124</u>

Bakehouses.—The Bakehouses on the Register at the end of the year were 91 in the Northern Division, and 85 in the Southern Division. Plans were submitted and passed during the year for the erection or re-building of six bakehouses. In 13 cases limewashing was ordered, and in one case a bakehouse was closed by the Stipendiary as being sanitarily unfit for use and occupation as a bakehouse.

Slaughter Houses.—Fortunately, in the Southern Division only 4 slaughter Houses are licensed, while there are 27 in the Northern Division. None of these gave rise to complaint, a fact probably due to the slight use which is made of most of them; indeed, the Inspector often finds them not in use at the time of his visit. The ease with which meat can be brought into West Ham from Smithfield safeguards the Borough in two ways, in lessening the number and size of the animals slaughtered in the private slaughter

houses, and also in ensuring the regular and systematic examination of the carcases, which can only be carried out in public abattoirs. One yearly license was granted and 18 renewals to expire 25th March, 1897.

Common Lodging Houses—The Common Lodging Houses (11 in the north and 3 in the south) received regular and frequent visitation during the year. No flagrant breach of bye-laws was discovered, though 10 were cleansed as a direct result of the Inspector's visit. Application was made for the registration of a Keeper at a common lodging house at 21, East Street, but, on my recommendation, was not granted by the Council, the lodging house being old and unsuitable.

Offensive Trades.—West Ham has so long been the happy hunting ground of offensive trades that, in spite of the rapid growth of dwelling-houses, applicants for permission to establish these trades are still not infrequent, the applicants feeling, doubtless, that one more or less will make no appreciable difference. Three such applications were considered during the year. In two cases, for permission to establish fish skin dressing, in Beckton Road and Livingstone Road respectively, the applications were refused. The third case, for permission to carry on bone-boiling in Wycliffe Road, was refused in March, but granted after a visit by your Public Health Committee in May. In this case the business had previously been carried on in the same premises, but had lapsed from non-user during several years.

Dairies, Cowsheds, and Milkshops Order.—During the year the following milkshops were added to the register:—

- 117, Godwin Road ;
- 122, Balaam Street ;
- 2, Church Street, Plaistow ;
- 71, Idmiston Road ;
- 2, Queen's Road, Custom House ;
- 20, Huntingdon Street ;
- 59, Forest Street ;
- 18, Star Lane.

Seven cases of infectious disease occurred on the premises of milk sellers, all being cases of scarlet fever. In five cases the infected person was removed to hospital, in one the business was suspended, and in one the business was temporarily removed to another house until after disinfection of the premises.

Sale of Food and Drugs Acts and Margarine Act —

Under these Acts 207 samples were taken for analysis, and 23 returned as adulterated. Particulars are given below, and the results of prosecution will be found in the Appendix.

Number of Samples taken under the Sale of Food and Drugs Act.

Article.				Genuine.	Adulterated.	Total.
Milk	...	...	...	77	13	90
Butter	...	...	...	51	10	61
Lard	...	...	...	15	—	15
Coffee	...	...	...	14	—	14
Pepper	...	...	...	17	—	17
Mustard	...	...	...	9	—	9
Refined Suet	...	...	...	1	—	1
				184	23	207

Percentages of Adulteration in the Articles above referred to.

Adulterated Milk.	Adulterated Butter.
(1.) 45 per cent. added water.	(1.) Margarine, only traces of Butter Fats.
(2.) 5 " "	(2.) 92 per cent. Margarine.
(3.) 8 " "	(3.) Margarine, only traces of Butter Fats.
(4.) 21 " "	

Adulterated Milk.	Adulterated Butter.
(5.) 15 per cent. added water.	(4.) Margarine, only traces of Butter Fats.
(6.) 12 " "	(5.) Do. do.
(7.) 29 " "	(6.) 95 per cent. Margarine.
(8.) 14 " "	(7.) Margarine, only traces of Butter Fats.
(9.) 18 " "	(8.) Do. do.
(10.) 6 " "	(9.) Do. do.
(11.) 19 " "	(10.) 70 per cent. Margarine.
(12.) 11 " "	
(13.) 31 " "	

House Refuse.—During 1896 the Council inaugurated its Municipal Stabling Department by undertaking the bi-weekly collection of house refuse with their own staff, horses and plant.

The Municipal collection was started at Lady-day in the Southern Division of the Borough, and at Midsummer in the Northern Division. The staff employed consist at present of two dust foremen and 46 men, who require the exclusive daily use of 31 horses, 16 carts, and 14 four-wheel vans.

No break in the continuity of collection occurred either in Northern or Southern Division, and very few complaints reached my office during the year, these chiefly referring to non-collection on Bank Holidays.

By the experience of working I am confirmed in the opinion I expressed to the Committee early in the year as to the superiority of the two-wheeled vehicle over the four-wheeled van.

During the year 23,447 loads were collected :—

	No. of Loads.	Average Daily Collection.
Northern Division	13,841	44.7
Southern Division	9,606	31
	<u>23,447</u>	<u>75.7</u>

Water Supply.—The whole Borough is supplied throughout by the East London Water Company. As an indication of the purity of supply I have extracted below comparative figures from Dr. E. Frankland's monthly reports.

“Taking the average amount of organic impurity in a given quantity of the Kent Company's water during the nine years ending December, 1876, as unity, the proportional amount contained in an equal volume of water supplied by each of the Metropolitan Water Companies and by the Tottenham Local Board of Health was—

	1895. Dec	1896. Jan.	Feb.	Mar.	April	May	June.	July	Aug.	Sept.	Oct.	Nov
Kent	·7	·9	·8	·7	·8	·8	·6	1·1	·8	·6	·7	·7
Tottenham ...	1·3	1·4	1·3	1·2	1·3	1·5	1·3	1·3	1·3	1·3	1·2	1·3
East London (deep well)	2·3	2·1	2·0	1·3	2·1	1·7	1·9	1·8	1·5	1·2	2·4	2·1
East London (river supply) ...	4·4	4·1	3·4	2·6	2·4	2·6	1·7	2·1	2·3	2·2	4·1	3·9
Colne Valley ...	2·7	2·1	2·6	3·3	2·7	1·9	2·1	1·7	1·4	2·8	2·7	1·9
New River ...	3·2	2·6	1·8	1·2	1·8	1·1	1·1	1·1	1·3	1·0	2·5	2·1
Grand Junction ...	3·8	3·3	3·2	3·5	2·4	2·2	2·0	2·4	2·2	2·4	4·6	3·9
Southwark ...	4·5	3·6	3·1	3·5	2·6	2·0	2·2	2·5	2·1	2·9	6·0	4·1
Lambeth	4·6	4·2	2·9	3·4	2·9	2·3	2·4	2·8	2·5	2·4	5·9	4·2
Chelsea	5·0	4·5	2·9	2·5	3·1	2·2	2·1	2·4	2·2	2·2	4·0	5·2
West Middlesex ...	5·1	4·4	2·8	2·9	2·4	2·1	2·1	2·8	2·0	2·0	5·2	4·6
Unfiltered River Waters ...												
Thames at Hampton	5·1	4·4	3·6	6·3	4·7	3·9	3·7	5·2	4·1	4·9	7·9	5·4
New River Cut ...	2·2	2·5	1·5	3·4	2·5	2·1	2·2	1·9	2·0	2·6	5·8	1·9
Lea at Angel Road	4·6	4·3	2·8	5·7	4·0	3·3	5·4	4·0	4·0	6·5	9·0	3·7

In consequence of the Company having been forced by recent legislation to furnish the whole of the Borough with a constant supply, complaints of inconvenience arising from inability to obtain water for domestic purposes were last year reduced to a minimum.

I am,

Your obedient Servant,

CHARLES SANDERS,

TOWN HALL,

August, 1897.

Medical Officer of Health.

APPENDIX.

ISOLATION OF SMALL-POX.

The question as to the ability and advisability of the Council undertaking to provide accommodation for the reception and treatment in the Dagenham Hospital of cases of small-pox occurring in sanitary districts outside the County Borough of West Ham, was referred by the Council to me for consideration and report, and I herewith submit a memorandum on the subject.

The question, which had been informally mooted some time since, was recently brought definitely before the Council by written applications from the following local authorities—Leyton Urban District Council, East Ham Urban District Council, Romford Urban District Council, Romford Rural District Council, Ilford Urban District Council, Woodford Urban District Council, and Barking Urban District Council, asking the Town Council whether they would be prepared to enter into agreement to receive and treat small-pox cases from these localities, and if so upon what terms.

The Hospital to be built at Dagenham as at present planned will consist of permanent brick structures, including an administrative block of two storeys large enough to serve a staff capable of treating 44 patients, a one-storey pavilion of two wards each having 10 beds, an isolation pavilion with four beds, making 24 beds in all, together with lodge, laundry, and other necessary offices. There is in addition a Humphry's iron and wood ward for 12 beds, now full of hospital stores, at Plaistow; but capable of being re-erected at Dagenham. This would give the Council an immediate supply of 36 beds for the treatment of small-pox.

At my request the Town Clerk has kindly obtained particulars of the incidence of small-pox and population from the districts above referred to, and I am also obliged to Dr. Thresh, Medical Officer of Health to the Essex County Council, for a Table of notifications during the past three years.

I have tabulated below the chief particulars thus obtained, distributing the cases to their several districts, and also placing the totals for the Essex districts side by side with those of West Ham, so that the totals for West Ham and for the extra-municipal districts can be easily compared and added. Notification of infectious diseases only came into force in 1889, but it is highly probable that the cases allotted to previous years are correct.

Table II. shows the monthly notifications of small-pox in the Essex districts round West Ham.

TABLE I.

District :—	County Borough of West Ham.	Total for South West Essex.	Leyton.	East Ham.	Rom- ford Urban (Dis- trict).	Ilford.	Wood- ford.	Bark- ing.
Population, Census, 1891.	204,902		63,056	32,710	8,108	10,911	11,024	14,301
Populations Estimated to middle of present year.	240,000		76,000	56,000	8,960	19,000	13,000	16,500
Notification of Small-pox for each year as under :—								
1886	—	4	1	3	—	—	—	—
1887	1	7	6	1	—	—	—	—
1888	8	6	5	—	1	—	—	—
1889	4	—	—	—	—	—	—	—
1890	2	2	2	—	—	—	—	—
1891	1	—	—	—	—	—	—	—
1892	6	7	—	6	—	1	—	—
1893	431	128	10	94	2	5	2	15
1894	509	276	71	123	9	21	3	49
1895	127	12	8	3	—	1	—	—

TABLE II.

Cases of Small-pox notified in the following districts during 1891—
1895:—East Ham, Romford Urban and Rural, Ilford, Leyton,
Woodford, Barking.

	1891.	1892.	1893.	1894.	1895.	1896.
January			1	37	0	5
February			5	83	0	0
March			4	87	3	3
April			13	45	4	0
May			18	31	1	0
June			5	15	0	3
July			13	5	2	—
August			8	2	5	—
September			12	1	1	—
October			5	0	1	—
November			16	0	2	—
December			26	0	0	—
	0	0	126	306	19	11

It is observable in both these Tables that, as might be expected, small-pox epidemic years in West Ham coincide with those in the districts around, and that the greatest strain would be thrown on our hospital from the outlying districts at the time when we should most need accommodation for our own cases; for, as will be seen from Table II., during the month of March, 1894, accommodation was

required in the Essex districts for 87 cases of small-pox, while in West Ham at that particular period there were 50 fresh cases of small-pox requiring isolation.

It is obvious that with the number of beds at the proposed Dagenham Hospital it would be quite impossible to treat so many cases in one month, and if West Ham undertook to provide accommodation for other districts with its existing number of beds, it could only carry out that undertaking by neglecting to isolate cases occurring in the Borough.

As a matter of Public Health Policy, however, it is, in my opinion, extremely desirable if possible to endeavour in some way to arrange that our Dagenham Hospital shall be used by the outlying districts for all their cases of small-pox ; in the first place, because the Council is undertaking to accommodate pauper cases occurring in the West Ham Union in order to complete the Fever Hospital at Plaistow ; but, secondly and chiefly, because cases occurring in these districts, especially those occurring in Leyton and East Ham, are almost as great a danger to the Borough as if they occurred in West Ham itself ; thirdly, as will be seen from Table I., the hospital will, for several years running, be scarcely used at all, while at the same time it must ever be maintained in a state of efficiency and readiness to receive cases.

To meet the probable call upon the hospital resources under these circumstances, it would be necessary to duplicate the proposed accommodation either by raising the Pavilion to another storey or erecting a second Pavilion similar to that already proposed. While it is a debatable question whether or not West Ham would be justified in thus catering for cases at a remunerative fee from the outlying districts in its own defence on the same grounds and in the same way that the Metropolitan Asylums Board are at present receiving West Ham cases, such a course would entail expense not lightly to be entered upon.

It is probable, however, that the outlying districts would be willing, in order to save the increased expenses of each providing its own accommodation, to pay to West Ham a yearly sum towards the

maintenance of the Dagenham Hospital, together with a fee for the reception and treatment of each case.

As a provisional proposal of this kind, I suggest that each district might pay to the Borough an annual sum of £1 per 1,000 of its estimated population, and £2 2s. per week per case sent in.

This latter fee is the price at present paid by the Council to the Metropolitan Asylums Board, and is the lowest charge estimated by that Board, after careful investigation, to cover the reception and treatment of cases of small-pox without including any sum for establishment maintenance.

The estimated population of the outlying districts referred to is about 190,000, which would provide a yearly sum of £190 towards the maintenance of the hospital both during user and non-user, and the Borough would derive an indirect benefit by ensuring the prompt removal of a dangerous infectious disease from its immediate neighbourhood, without suffering pecuniary loss from the suggested enlargement of the hospital.

The Council could, and doubtless would, receive cases into the Dagenham Hospital from other sanitary districts so long as the accommodation allowed, due regard being had to the necessities of the Borough ; but I feel sure such an uncertain position would not commend itself to the Sanitary Authorities concerned ; and, therefore, unless some arrangement, say for seven or more years, on the lines above suggested, be made, it would be impracticable and unwise for the Council to enter into an agreement to provide hospital accommodation for cases of small-pox occurring outside the Borough.

“CHARLES SANDERS.”

Medical Officer of Health.

TOWN HALL,

WEST HAM,

16th September, 1896.

Table showing Births and Deaths with their respective rates during the past 14 years.

Year.	Births.	Birth-rate per 1,000.	Deaths.	Death-rate per 1,000.
1883	6,014	42	2,693	19
1884	6,563	43·7	3,057	20
1885	6,547	41·9	3,503	22
1886	7,075	41·6	3,151	18·5
1887	6,865	39·1	3,286	18·7
1888	6,867	38·5	2,848	18
1889	6,947	38·5	2,883	18
1890	7,063	38·5	3,977	21·7
1891	7,911	38·2	3,952	19·1
1892	8,013	36·9	4,019	18·6
1893	8,026	35·3	4,565	20
1894	8,089	33·9	4,026	18·2
1895	8,591	35·9	4,656	20·9
1896	8,519	35·4	4,395	18·9

Chief Zymotic Deaths and Zymotic Death-rate during the past
14 years.

Year.	No. of Deaths from Chief Zymotic Diseases.	Zymotic Death-rate, per 1,000 living.	Remarks.
1883	420	2·9	
1884	696	4·6	Small-pox epidemic.
1885	1,014	6·3	Small-pox epidemic.
1886	563	3·3	
1887	460	5·2	Half-year report only.
1888	466	2·6	Notification introduced.
1889	352	1·9	
1890	752	4·1	Measles epidemic.
1891	489	2·3	
1892	721	3·3	Scarlatina epidemic.
1893	913	4	Small-pox & Whooping-cough.
1894	830	3·4	{ Small-pox, first half-year. { Two epidemics of diphtheria.
1895	951	3·9	Enteric Fever and small-pox.
1896	982	3·9	

Notified Cases and Percentage of Deaths to Attacks during the
past Eight Years.

Disease.	Year.	No. of Cases notified.	No. of Deaths.	Percentage of Deaths to Attacks.
Scarlatina ...	1889	806	78	9 per cent.
	1890	921	49	5 "
	1891	742	29	4 "
	1892	2,023	70	3 "
	1893	2,184	83	3 "
	1894	1,061	33	3 "
	1895	1,404	42	3 "
	1896	1,601	56	3.5 "
Diphtheria ...	1889	145	32	23 "
	1890	232	50	21 "
	1891	179	55	30 "
	1892	401	100	24 "
	1893	470	104	22 "
	1894	847	192	22 "
	1895	850	186	21.3 "
	1896	894	193	21.5 "
Enteric Fever	1889	171	39	22 "
	1890	254	43	17 "
	1891	248	49	19 "
	1892	138	23	17 "
	1893	359	68	18 "
	1894	236	44	18 "
	1895	320	62	19.3 "
	1896	373	66	17.6 "

Weekly Notifications received during 1896.

Week Ending.	Small-pox.	Scarlatina.	Diphtheria.	Enteric Fever.	Continued Fever.	Puerperal.
January 4th	8	29	14	10	—	—
" 11th	8	25	11	6	—	1
" 18th	1	24	17	2	—	—
" 25th	9	45	38	6	—	—
February 1st	—	37	17	9	—	1
" 8th	2	40	10	6	—	—
" 15th	1	40	14	6	—	—
" 22nd	—	47	16	13	—	1
" 29th	1	42	13	5	—	—
March 7th	6	45	8	4	—	1
" 14th	1	21	18	8	—	—
" 21st	7	40	8	7	—	2
" 28th	—	31	8	6	—	—
April 4th	—	20	11	4	—	1
" 11th	—	21	22	3	1	—
" 18th	1	29	15	3	—	—
" 25th	2	45	10	1	—	—
May 2nd	1	22	20	2	—	—
" 9th	—	26	16	—	—	—
" 16th	3	32	26	1	—	—
" 23rd	3	27	21	3	—	—
" 30th	1	22	16	2	—	—
June 6th	1	32	12	3	—	—
" 13th	1	27	17	3	—	—
" 20th	1	18	14	4	—	1
" 27th	1	39	17	3	—	1

July	4th	—	39	20	6	—	—
"	11th	—	41	9	12	—	—
"	18th	—	26	21	8	—	—
"	25th	—	45	18	13	2	—
August	1st	—	26	19	10	—	—
"	8th	—	33	14	16	—	—
"	15th	—	30	17	14	—	—
"	22nd	—	24	23	13	1	—
"	29th	—	31	16	12	—	—
September	5th	—	22	14	17	—	2
"	12th	—	45	19	17	—	—
"	19th	—	48	16	18	—	1
"	26th	—	37	15	16	—	—
October	3rd	—	22	20	6	—	—
"	10th	—	32	27	10	—	—
"	17th	—	22	36	9	1	—
"	24th	—	36	24	5	—	—
"	31st	—	24	24	8	1	—
November	7th	—	26	14	5	—	1
"	14th	—	38	15	7	—	—
"	21st	—	22	19	12	—	1
"	28th	—	18	27	1	—	—
December	5th	—	23	16	4	—	1
"	12th	—	28	10	5	—	1
"	19th	—	19	16	4	—	—
"	26th	—	18	16	5	—	—
Totals	...	59	1,601	894	373	6	16

Cases sent into Plaistow Hospital, 1896.

Week ending			Scarlet Fever.	Diphtheria.	Week ending.			Scarlet Fever.	Diphtheria.
January 4 ...			—	4	Brought forward ...			73	36
" 11 ...			—	3	July 4 ...			2	—
" 18 ...			—	6	" 11 ...			5	—
" 25 ...			—	8	" 18 ...			4	1
February 1 ...			—	6	" 25 ...			2	3
" 8 ...			—	1	August 1 ...			1	—
" 15 ...			—	4	" 8 ...			—	—
" 22 ...			—	1	" 15 ...			1	4
" 29 ...			—	2	" 22 ...			2	5
March 7 ...			—	—	" 29 ...			3	9
" 14 ...			7	—	September 5 ...			1	4
" 21 ...			6	—	" 12 ...			5	—
" 28 ...			8	—	" 19 ...			3	2
April 4 ...			2	1	" 26 ...			9	3
" 11 ...			3	—	October 3 ...			10	2
" 18 ...			9	—	" 10 ...			1	2
" 25 ...			3	—	" 17 ...			3	13
May 2 ...			—	—	" 24 ...			5	3
" 9 ...			3	—	" 31 ...			2	1
" 16 ..			10	—	November 7 ...			2	3
" 23 ...			2	—	" 14 ...			7	4
" 30 ...			4	—	" 21 ...			2	7
June 6 ...			6	—	" 28 ...			5	4
" 13 ...			4	—	December 5 ...			7	1
" 20 ...			2	—	" 12 ..			5	12
" 27 ...			4	—	" 19 ...			4	4
Carried forward ...			73	36	Year ending Dec. 31 ...			4	3
								168	126

**Notices to abate Nuisances, or remedy Defects, served
during the year 1896.**

Drains choked	...	...	...	...	...	...	500
To ventilate drains	...	...	...	...	...	...	215
To cleanse w.c. pans	...	...	...	...	...	...	167
To provide new pans and traps	...	...	...	...	...	...	917
To provide flushing apparatus	...	...	...	...	...	...	498
To provide gully traps	...	...	...	...	...	...	520
Stack pipes to drains	...	...	...	...	...	...	550
Sink pipes to drains	...	...	...	...	...	...	276
Drains defective	...	...	...	...	...	...	978
Flushing apparatus defective	...	...	...	...	...	...	583
Stack pipes	do.	...	...	...	...	...	347
Sink pipes	do.	...	...	...	...	...	272
Gutters	do.	...	...	...	...	...	849
Water fittings	do.	...	...	...	...	...	89
Floors	do.	...	...	...	...	...	593
Roofs	do.	...	...	...	...	...	1039
Doors	do.	...	...	...	...	...	31
Windows	do.	...	...	...	...	...	60
Staircases	do.	...	...	...	...	...	50
Seats of w.c.'s	do.	...	...	...	...	...	121
Walls and ceilings	do. or dirty	...	...	...	...	...	3099
Walls and ceilings of bake-houses defective or dirty	...	...	...	...	...	...	11
W.C.'s dilapidated	...	...	...	...	...	...	7
Offensive accumulations	...	...	...	...	...	...	162
Animals improperly kept	...	...	...	...	...	...	55
Overcrowding	...	...	...	...	...	...	146
To repair paving of yards	...	...	...	...	...	...	1333
To pave and drain stables	...	...	...	...	...	...	8
Provide proper water supply	...	...	...	...	...	...	850
To cleanse water tanks	...	...	...	...	...	...	220
To cover water tanks	...	...	...	...	...	...	528
To provide iron grids to gullies	...	...	...	...	...	...	58
Carried forward	...	...	...	...	...	...	15,132

	Brought forward	...	...	15,132
To remove gipsies ..	...	...	...	29
To empty cesspools	...	...	...	7
Offensive urinals ...	...	...	...	2
To provide dung pits	...	...	...	28
Smoke nuisance ...	...	...	...	1
To render premises fit for human habitation	...	...	...	10
To cleanse ditch ...	...	...	...	1
To remove soil pipes	...	...	...	15
To provide ventilation	...	...	...	26
To abolish privy ...	...	...	...	1
Barricade premises	...	...	...	6
Fill in basements ...	...	...	...	3
Provide sinks ...	...	...	...	2
	TOTAL	...	...	<u>15,263</u>

1,788 rooms in **1,736** houses were disinfected.

PROSECUTIONS.

Date.	Name.	Address.	Cause of Prosecution.	Result.
1896.				
Jan. 8th...	Dunk, James ...	16, St. Stephens Road, East Ham.	For carrying on the trade of a fish skin dresser without the consent of the Local Authority.	Fined 5s., and 17s. costs.
Do.	Do. ...	Do. ...	For establishing the trade of a fish skin dresser without the consent of the Local Authority.	Fined £3, and 17s. costs.
Jan. 22nd	West, Wm. J. ...	53, 55 and 57, Angel Lane, Stratford.	Margarine which only contained the fatty constituents of real butter.	Fined £5, and 17s. 6d. costs.
Do.	Shaw, Alfred L.	24, Green Street, Upton Park.	Butter adulterated with 65 per cent. of margarine.	Fined £3, and 17s. 6d. costs.
Feb. 19th	Chapman, Mr. ...	11, Hack Road, Tidal Basin.	Non-compliance with terms of notice in respect to No. 5, Hotham Street, West Ham.	Fined 5s., and 15s. costs.
Do.	Radbourne, James	104, Stratford Road, Plaistow.	Butter adulterated with 92 per cent. of margarine.	Fined £3, and 17s. 6d. costs.
Do.	Dunning, Wm. ...	117, The Grove, Strat- ford.	Margarine which only contained the fatty constituents of real butter.	Fined £3, and 17s. 6d. costs.
Do.	Robinson, Fredk.	61, Odessa Road, Forest Gate, E.	Milk adulterated with 45 per cent. of added water.	Fined £4, and 17s. 6d. costs.
Feb. 26th	Mardell, J. ...	119, Vicarage Lane, West Ham.	Non-compliance with terms of notice in respect to No. 66, Evesham Road, West Ham.	Fined 10/- and 15/- costs.

Date.	Name.	Address.	Cause of Prosecution.	Result.
Feb. 26th	Mardell, J. ...	119, Vicarage Lane, West Ham.	Non-compliance with terms of notice in respect to No. 68, Evesham Road, West Ham.	Fined 10/- and 15/- costs.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 70, Evesham Road, West Ham.	Fined 10/- and 15/- costs.
Do.	Owner of ...	5, Newton Street, Canning Town.	Non-compliance with terms of notice in respect to No. 5, Newton Street.	Fined 5/- and 7/6 costs, and closing order granted.
Do.	Owner of ...	7, Newton Street, Canning Town.	Non-compliance with terms of notice in respect to No. 7, Newton Street.	Fined 5/- and 7/6 costs, and closing order granted.
Do.	Owner of ...	9, Newton Street, Canning Town.	Non-compliance with terms of notice in respect to No. 9, Newton Street.	Fined 5/- and 7/6 costs, and closing order granted.
Mar. 4th	Young, Thomas...	2, The Broadway, Barking.	Non-compliance with terms of notice in respect to No. 18, Pelly Road, Plaistow.	Summons with- drawn, house closed.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 5, Cross Street, Plaistow.	Case adjourn- ed for fort- night.

Mar. 4th	Braybrook, J. ...	15, Pell Street, St. George's East.	Non-compliance with terms of notice in respect to No. 132, Royal Road, Custom House.	Fined 10/- and 12/6 costs.
Do.	Cameron, E. ...	255, Commercial Road, Limehouse.	Non-compliance with terms of notice in respect to No. 30, Denmark Street, Plaistow.	Fined 10/- and 14/6 costs.
Mar. 18th	Bishop, Ernest ...	86, Leyton Road, Stratford.	For establishing the offensive trade of tripe boiler without the consent in writing of the Local Authority.	Fined £5 and 9/- costs.
Do.	Hamlin, Wm. Thorne	121, Tredegar Road, Bow.	Failing to render the premises known as Thorne Villas, Tenby Road, Stratford, fit for human habitation.	Fined £1 and £1 costs, and closing order consented to.
Mar. 18th	Savill Bros. ...	Leytonstone Road, Stratford.	For failing to render the premises No. 29, Tidal Basin Road, fit for human habitation.	Fined £1, and 18s. 6d. costs, and closing order granted.
Do.	Stanley, Mr. ...	61, Roscoe Street, Canning Town.	Non-compliance with terms of notice in respect to No. 16, Nelson Street, Canning Town.	Summons withdrawn on payment of costs, 14s.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 57, Roscoe Street, Canning Town.	Summons withdrawn on payment of costs, 14s.

Date.	Name.	Address.	Cause of Prosecution.	Result.
Mar. 18th	Marshall, Mrs. ...	232, Barking Road, Plaistow.	Non-compliance with terms of notice in respect to 13, Hudson Road, Canning Town.	Summons withdrawn on payment of costs, 10s.
Do.	Hunt, Mr. ...	58, Stephenson Street, Canning Town.	Non-compliance with terms of notice in respect of No. 24, Nelson Street, Canning Town.	Summons withdrawn without costs.
Do.	Young, Thomas...	2, Broadway, Barking.	Non-compliance with terms of notice in respect to No. 5, Cross Street, Plaistow.	Summons dismissed without costs.
Apr. 8th...	Fulford, Mr. ...	Barge House Tavern, North Woolwich.	Non-compliance with terms of notice in respect to No. 15, Adamson Road, Custom House.	Fined 10s. and 17s. costs.
Do.	Marks, L. ...	114, Upper North Street, Poplar.	Non-compliance with terms of notice in respect to No. 24, Wightman Street, Custom House.	Fined £4, and £1 costs.
Do.	Girdwood, W. ...	Lea Cottages, East India Road, E.	Non-compliance with terms of notice in respect to No. 42, Alice Street, Tidal Basin.	Fined 10s. and 18s. costs.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 54, Francis Street, Tidal Basin.	Fined £1, and 18s. costs.

Apr. 8th...	Girdwood, W. ...	Lea Cottage, East India Road, E.	Non-compliance with terms of notice in respect to No. 44, Alice Street, Tidal Basin.	Summons withdrawn, work completed before date of hearing
Do.	Jones, Daniel ...	8, Prince Regent's Lane	Margarine which only contained the fatty constituents of real butter.	Fined £2, and £1 0s. 6d. costs
Apr. 29th	Beamish, M. ...	Brook Farm, North Weald, Essex.	Wholesale milk sold in pursuance of a contract containing 5 per cent. of added water.	Summons withdrawn, and then formally dismissed by Mr. Baggallay with £2 2s. costs. Mr. G. Hilleary appeared on behalf of the Corporation.
Do.	Do. ...	Do. ...	Giving false warranty in respect of milk sold in pursuance of contract.	
May 13th	Hancock, Mrs. Mary.	6, Thorne Villas, Tenby Road.	Failing to quit premises known as Thorne Villas, Tenby Road, closing order made on the 18th March, 1896, by Mr. Baggallay.	Fined 5s., and costs. Penalty not to be enforced if premises are vacated within one week from date of hearing.

Date.	Name.	Address.	Cause of Prosecution.	Result.
May 13th	Kemp, Mrs. Ellen	11, Thorne Villas, Tenby Road.	Failing to quit premises known as Thorne Villas, Tenby Road.	Fined 5/- and costs. Pen- alty not to be enforced if premises are vacated within one week from date of hearing.
Do.	Wilkins, Mrs. Mary	7, Thorne Villas, Tenby Road.	Failing to quit premises known as Thorne Villas, Tenby Road.	Do.
Do.	Cocklin, Jerry ...	12, Thorne Villas, Tenby Road.	Failing to quit premises known as Thorne Villas, Tenby Road, Stratford.	Do.
May 13th	Dunkley, Olive...	14, Thorne Villas, Tenby Road.	Failing to quit premises known as Thorne Villas, Tenby Road.	Do.
Do.	Johnson, Margaret	14, Thorne Villas, Tenby Road.	Do. do.	Do.
Do.	Adams, Jno. R....	15, Thorne Villas, Tenby Road.	Do. do.	Do.
Do.	Hill, Sarah Ann...	13, Thorne Villas, Tenby Road.	Do. do.	Do.

Do.	Stange, William	10, Thorne Villas, Tenby Road.	Do.	do.	Do.
Do.	Flatt, James ...	10, Thorne Villas, Tenby Road.	Do.	do.	Do.
May 20th	Morgan, Jenkin...	35, Ben Jonson Road, Stepney.	For exposing Margarine for sale by retail without a proper label.		Fined £6 and £1 5s. costs.
Do.	Weeden, Mrs. ...	62, Field Road, Forest Gate.	For selling Margarine which only contained traces of the fatty constituents of real butter.		Fined £2 and 19/6 costs.
May 27th	Moss, William ...	8, Leadenhall Street, London, E.C.	Non-compliance with terms of notice in respect to No. 200, Upton Lane, Forest Gate.		Fined £1 and 16/6 costs.
June 15th	Brand, Mr. ...	3, The Walk, Barking	Non-compliance with terms of notice in respect to No. 28, Tucker Street, Canning Town.		Summons dis- missed.
Do.	Holmes, J. ...	82, Well Street, Hackney.	Non-compliance with terms of notice in respect to No. 151, Forty Acre Lane, Canning Town.		Fined 10/- and 17/6 costs, and order made to abate within seven days.
Do.	Hodges, Mrs. ...	8, Woodstock Road, Gipsy Lane.	Non-compliance with terms of notice in respect to No. 163, Harold Road, Upton.		Fined £1 and 10/- costs, and order made to abate forth- with.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 163, Harold Road, Upton.		Fined 10/- and 17/6 costs and order made to abate in seven days.

Date.	Name.	Address.	Cause of Prosecution.	Result.
June 15th	Mynott, George	27, East Street, Stratford.	Selling milk adulterated with 21 per cent. of added water.	Fined £4 and 17/6 costs.
Do.	Clarke, Albert ...	53, Martin Street, Stratford.	Selling milk adulterated with 8 per cent. of added water.	Summons adjourned, afterwards withdrawn. Informal certificate. Costs against Corporation 21/-. Case defended by Mr. Rendle Moore.
June 17th	Allard, F. ...	Laurel Villa, New Barn Street.	For establishing an offensive trade, viz., Fish Skin Dressing, without written consent of Council.	Fined £5 and 28/6 costs.
Do.	Chadburn, Mr. J.	Cheam Road, Sutton, Surrey.	Non-compliance with terms of notice in respect to No. 83, Randolph Road, Custom House.	Fined 10/- and 24/6 costs.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 85, Randolph Road, Custom House.	Fined 10/- and 17/- costs.

Do.	Cash, O. E.	...	52, Wrotham Road, Camden Square.	Non-compliance with terms of notice in respect to No. 4, Young Street, Custom House.	Fined 10/- and 17/6 costs, and order made to do work with- in seven days.
Do.	Do.	...	Do.	Non-compliance with terms of notice in respect to No. 6, Young Street, Custom House.	Fined 10/- and 17/6 costs, and order made to do work with- in seven days.
Do.	Do.	...	Do.	Non-compliance with terms of notice in respect to No. 10, Young Street, Custom House.	Fined 10/- and 17/6 costs, and order made to do work with- in seven days.
Do.	Do.	...	Do.	Non-compliance with terms of notice in respect to No. 14, Young Street, Custom House.	Fined 10/- and 17/6 costs, and order made to do work with- in seven days.
Do.	Do	...	Do.	Non-compliance with terms of notice in respect to No. 64, Scott Street, Canning Town.	Fined 10/- and 17/6 costs, and order made to do work with- in seven days.

Date.	Name.	Address.	Cause of Prosecution.	Result.
June 17th	Cash, O. E. ...	52, Wrotham Road, Camden Square.	Non-compliance with terms of notice in respect to No. 68, Scott Street, Canning Town.	Fined 10/- and 17/6 costs, and order made to do work with- in seven days.
July 8th	Jeffries, Jas. ...	88, Vicarage Lane, West Ham.	Non-compliance with terms of notice in respect to No. 32, Shirley Street, Canning Town.	Fined 5/- and 12/- costs, and order made to abate within seven days.
Do.	Ridd, Thos. ...	85, Forest Lane, Stratford.	Non-compliance with terms of notice in respect to No. 8, Smith Street, Canning Town.	Fined 5/- and 14/6 costs, and order made to abate within seven days.
Do.	Chard, F. W. ...	1 & 3, Rathgar Road, Loughborough Junction.	Non-compliance with terms of notice in respect to No. 7, Cran- brook Road, West Silvertown.	Summons with- drawn.
Do.	Living, Charles...	125, Broadway, Plais- tow.	For infringement of the bye-laws in respect of gipsies on land at Royal Road and Baxter Road, Custom House.	Fined £2, and 9s. costs.

July 8th	Atkinson, Fredk.	A Van Dweller	For infringement of the bye-laws in respect of gipsies on land at Royal Road and Baxter Road, Custom House.	Summons with- drawn.
Do.	Cakebread, Mr.N.	512, Barking Road, Plaistow.	For using a place underground at 512, Barking Road, as a bake-house, which was not so used on or immediately before the 1st January, 1896.	Summons dis- missed with costs.
July 20th	Moore, C. C. & T.	144, Mile End Road, London, E.	Non-compliance with terms of notice in respect to Nos. 45, 47, and 49, Cedars Road, Stratford.	Summons with drawn on pay- ment of costs. Work done before date of hearing.
July 20th	Gibbs, Albt. Hy.	47, West Ham Lane, Stratford.	Butter which contained only traces of the fatty constituents of real butter.	Fined £3, and £1 5s. costs.
Do.	Humphries, Isaac	46, Cable Street, Whitechapel.	For exposing for sale by retail margarine without a proper label.	Fined £3, and £1 5s. costs.
Do.	Corbett, Joseph	25, Poplar Street, Canning Town.	Milk adulterated with 15 per cent. of added water.	Fined £4, and 17/6 costs.

Date.	Name.	Address.	Cause of Prosecution.	Result.
July 20th	Eastcourt, Thos.	12, Denmark Street, Plaistow.	Milk adulterated with 12 per cent. of added water.	Fined £3, and £1 5s. costs.
Aug. 19th	Phillips, James ...	38, Leyton Road, Stratford, E.	Milk adulterated with 29 per cent. of added water.	Fined £5, and 17s. 6d. costs.
Do.	Tulley, George ...	24, Cross Street, West Ham.	For refusing to sell milk to officer.	Fined £3, and 17s. 6d. costs.
Sep. 30th	Cash, O. E. ...	52, Wrotham Road, Camden Square.	Non-compliance with terms of notice in respect to No. 125, Forty Acre Lane, Canning Town.	Fined £1, and 18s. costs, and order made to abate within days seven.
Do.	Wilson, Mr. ...	89, Freemasons Road, Custom House.	Non-compliance with terms of notice in respect to Nos. 90, 92, 94, 96, and 98, Garvary Road, Custom House.	Fined 5s., and £1 0s. 6d. costs in re- spect of No. 90, and 5s. and 14s. in each of the other cases. Total amount, £5 1s. 6d.

Oct. 21st	Simpson, D. C. ...	31, Woodford Road, Forest Gate, E.	Non-compliance with terms of notice in respect to No. 14, Dames Road, Forest Gate.	Fined £1, and 17s. costs, and closing order granted.
Do.	Foulkes, Mr. ...	Calderon Terrace, Leyton, E.	Non-compliance with terms of notice in respect to No. 187, Ley- tonstone Road.	Summons with- drawn on pay- ment of costs, 8s. 6d. Work completed be- fore date of hearing.
Do.	Do. ...	Do. ...	Non-compliance with terms of notice in respect to No. 225, Leytonstone Road.	Order made to abate within 7 days. Costs 12/6.
Oct. 28th	Dowling, Mr. ...	18 and 19, Leadenhall Street, London, E.C.	Non-compliance with terms of notice in respect to No. 330, Romford Road, Forest Gate.	Fined £1, and 18s. costs, and order made to abate within 14 days.
Nov. 4th	Moss, Wm. ...	8, Leadenhall Street, London, E.C.	Non-compliance with terms of notice in respect to No. 200, Upton Lane, Forest Gate.	Fined 10s., and £2 1s. costs.
Do.	Howard, Arthur	98, New Barn Street, Canning Town.	For conveying fish offal through the Borough during prohibited hours.	Fined £1, and 7s. costs.

Date.	Name.	Address.	Cause of Prosecution.	Result.
Nov. 4th	Starling, Chris. ...	100, New Barn Street, Canning Town.	For conveying fish offal through the Borough during prohibited hours.	Fined £1, and 7s. costs.
Do.	Bates, Mrs. ...	George House, Hack- ney Wick.	Non-compliance with terms of notice in respect to No. 15, Ascot Street, Canning Town.	Fined 5s., and 15s. costs.
Do.	Owner of ...	No. 33, Bailey Street, Silvertown.	Non-compliance with terms of notice in respect of No. 33, Bailey Street, Silvertown.	Fined 10s., and 9s. 6d. costs.
Do.	Owner of ...	No. 11, Brooks Road, West Ham.	Non-compliance with terms of notice in respect of No. 11, Brooks Road, Plaistow.	Fined 10s., and 15s. costs.
Nov. 4th	Owner of ...	13, Brooks Road, Plaistow.	Non-compliance with terms of notice in respect of No. 13, Brooks Road, Plaistow.	Fined 10s., and 15s. costs.
,, 18th	Atkinson, F. J. ...	Randolph Road, Custom House.	Infringement of Gipsy Bye-laws ...	Fined £1, and 8s. costs.
Dec. 9th	Cook, W. J. ...	201, Commercial Road, E.	Non-compliance with terms of notice in respect to 21, Sutton Road, Plaistow.	Ordered to pay 17s. costs.

Do.	Allard, Wm. ...	Laurel Villa, New Barn Street.	For conveying fish offal through the Borough during prohibited hours.	Fined £2, and 7s. costs.
Do.	Hunt, George ...	2, Zingari Terrace, Gipsy Lane.	Butter which contained only traces of the fatty constituents of real butter.	Fined £3, and £1 5s. 6d. costs.
„ 16th ..	Young, Thos. ...	2, Broadway, Barking, E.	Non-compliance with terms of notice in respect to No. 16, Tucker Street, Canning Town.	Fined 5s. and 17s. 6d. costs, and closing order made.
Do.	Do.	Do. ..	Non-compliance with terms of notice in respect to No. 22, Tucker Street, Canning Town.	Fined 5s., and 17s. 6d. costs, and closing order made.
Do.	Remnant, Chas.	28, Quadrant Street, Canning Town.	For using Bakehouse unfit for the purpose.	Fined 10s., and 7s. costs.

(A)—Table of Deaths during the year 1896, in the County Borough of West Ham,

NAMES OF LOCALITIES adopted for the purpose of these Statistics; public institutions being shown as separate localities. (Columns for Population and Births are in table B.) (a)	Mortality from all causes, at subjoined Ages.							MORTALITY FROM				
	At all Ages.	Under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards		Small-pox.	Scarlatina.	Diphtheria.	Membranous croup.
	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	1	2	3	4
Stratford Ward	743	259	159	47	24	146	108	Under 5 5 upwds.	...	6 1	30 11	6 ...
Forest Gate Ward	744	224	134	42	22	174	148	Under 5 5 upwds.	...	1 7	26 20	2 ...
Plaistow Ward	1133	456	184	74	34	225	160	Under 5 5 upwds.	...	9 9	24 19	2 4
Canning Town Ward	1116	451	221	51	35	231	127	Under 5 5 upwds.	1	12 3	16 8	5 1
Plaistow Hospital	36	...	21	13	2	...	...	Under 5 5 upwds.	...	6 2	15 12	...
West Ham Hospital	56	2	11	7	8	22	6	Under 5 5 upwds.	...	...	1 1	...
Seamen's Hospital	27	...	...	...	5	22	...	Under 5 5 upwds.	...	...	...	...
Forest Gate Industrial School.	2	...	...	2	...	...	...	Under 5 5 upwds.	...	...	...	...
West Ham Workhouse	325	19	13	4	10	123	156	Under 5 5 upwds.	...	...	...	...
Totals	4182	1411	743	241	138	944	705	Under 5 5 upwds.	1 ...	34 22	112 71	15 5

The subjoined numbers have also to be taken into

Deaths occurring outside the district among persons belonging thereto	257	24	38	31	28	114	22	Under 5 5 upwds.	1 2	...	7 4	...
Deaths occurring within the district among persons not belonging thereto.	44	...	1	5	11	26	1	Under 5 5 upwds.	...	...	1 1	...

* The heading of Column 19 is left blank for the insertion of

Urban Sanitary District, classified according to Diseases, Ages and Localities.

FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																					
FEVERS.																					
Typhus.	Enteric or Typhoid.	Continued	Relapsing	Puerperal.	Cholera.	Erysipelas.	Messles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia and Fluency.	Heart Disease.	*	Injuries.	All other Diseases.	TOTAL.				
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				
...	5	...	...	...	...	2	26	20	47	...	25	96	2	...	6	147	418				
...	12	...	...	...	...	...	...	1	3	2	44	96	37	...	14	104	325				
...	...	...	...	...	...	...	18	43	42	...	24	81	1	...	3	117	358				
...	10	...	...	...	...	1	1	1	8	4	53	82	47	...	5	147	486				
...	12	...	...	...	...	1	23	45	112	...	29	135	3	...	16	239	640				
...	12	...	...	2	...	4	1	1	5	4	72	104	50	...	12	194	493				
...	12	...	...	...	...	2	39	36	136	1	33	126	2	...	20	241	672				
...	9	...	...	2	...	...	1	2	9	3	62	101	66	...	28	149	444				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21				
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	15				
...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	7	3	13				
...	4	...	...	...	...	...	...	...	...	...	1	4	2	...	20	11	43				
...	1	...	...	...	...	...	...	...	...	...	...	9	2	...	8	5	27				
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2				
...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	32				
...	1	...	...	...	...	...	3	3	2	...	1	1	...	...	...	22	32				
...	9	...	...	...	...	5	109	147	339	1	114	439	8	...	52	769	2154				
...	49	...	...	4	...	5	3	7	28	14	280	453	238	...	89	760	2028				

account in judging of the above records of mortality.

...	...	...	...	...	...	...	1	8	...	6	10	1	...	7	21	62	
...	8	...	...	...	...	2	...	...	1	35	17	16	...	31	79	195	
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	
...	1	...	...	...	...	...	...	2	1	1	9	7	...	13	8	43	

Influenza, or any other disease it may be thought desirable to record.

State here whether "Notification of Infectious Disease" is compulsory in the columns with Blank headings the names of any that are notifiable in the District, by the sick of the District. Mark (H) the Locality in which such Hospital is situated:

District.—Yes. Since when?—1888. Besides the above-mentioned Diseases insert in and fill the columns accordingly. State here the name of the Isolation Hospital used and if not within the District, state where it is situated.

West Ham Deaths Registered during 1896, at several Age Periods,
from different causes.

	0-1	1-5	5-20	20-40	40-60	60-80	80
Small-pox ... { Vaccinated ...	—	—	—	1			
Unvaccinated ...	2	—	1				
No Statement ...							
Measles ...	24	86	3				
Scarlet Fever ...	6	29	17	3			
Typhus ...							
Relapsing Fever ...							
Influenza ...	2	1	2	1	9	4	1
Whooping Cough ...	75	69	5				
Diphtheria ...	13	108	70	3			
Simple Continued Fever ...							
Enteric Fever ...	2	9	22	24	8		
Cholera and Choleraic Diarrhœa ...	1	—	—	1			
Diarrhœa, Dysentery ...	262	64	3	6	10	9	
Remittent Fever ...							
Hydrophobia ...							
Glanders ...							
Cowpox and effects of Vaccination ...							
Venereal Affections ...	13	—	1				
Erysipelas ...	5	2	—	3	3	2	
Pyæmia and Septicæmia ...	2	1	—	1	1	2	
Puerperal Fever ...	—	—	—	6	2	1	
Other Zymotic Diseases ...	1	2	2				
Thrush ...	1						
Worms and other Parasitic Diseases ...							
Starvation, want of Breast Milk ...	44						
Alcoholism ...	—	—	—	6	7	1	
Rheumatic Fever ...	—	1	8	5	5		
Rheumatism ...	—	—	1	1	1	1	
Gout ...	—	—	—	—	1	3	

	0-1	1-5	5-20	20-40	40-60	60-80	80
Rickets	5	5	—	—	1		
Cancer	—	2	1	16	72	48	3
Tabes Mesenterica	34	15	2	1			
Tubercular Meningitis	12	18	8				
Phthisis	3	4	35	158	98	13	
Scrofula, Tuberculosis	16	12	7	7	3		
Other Constitutional Diseases...	3	2	2	8	11	5	1
Premature Birth	138	1					
Atelectasis	8						
Congenital Malformations	25	1	1				
Old Age	—	—	—	1	3	71	54
Apoplexy	—	—	4	6	42	68	10
Epilepsy	—	1	1	2	7	1	
Convulsions	171	37	3				
Other Diseases of Brain and Nervous System	33	24	13	14	34	44	10
Diseases of Organs of Special Sense	—	1	2	—	1		
Diseases of Circulatory System	3	4	28	53	82	100	8
Croup	2	18	5				
Bronchitis	180	115	11	22	84	161	20
Pneumonia	57	86	19	38	54	18	
Pleurisy	2	3	1	2	2	5	
Other Diseases of Respiratory Organs	7	7	1	6	9	9	
Dentition	22	8					
Quinsy, Sore Throat	—	1					
Enteritis	13	2	2	3	1	1	
Peritonitis	—	—	6	7	6	5	

	0-1	1-5	5-20	20-40	40-60	60-80	80
Diseases of Liver	5	1	1	8	28	6	1
Other Diseases of Digestive System	12	1	4	2	8	12	
Diseases of Lymphatic System and Ductless Glands ...	—	—	—	—	1		
Diseases of Urinary System ...	—	4	8	13	26	30	1
Diseases of Generative System	—	—	—	1	8	2	
Accidents of Child-birth ...	3	—	—	24	7		
Diseases of Locomotive System	—	1	8	1	2		
Diseases of Integumentary System	2	—	—	—	—	2	
Violent Deaths—							
By Railways	—	—	3	1	1	1	
By Vehicles or Horses ...	—	1	2	4	2		
By Ships, Docks (not drowning)	—	—	1	6	2	1	
In Building Operations ...	—	—	—	1	3		
In Conflagrations							
By Burns, Scalds, Explosions	1	14	3	1	2		
By Drowning	1	1	11	15	8		
By Suffocation in Bed ...	22						
By Poisons or Poisonous Vapours	—	1	2	3	5		
Other or not stated causes ...	14	4	4	6	16	9	1
Homicide	1						
Suicide	—	—	—	3	3	1	
Other Causes	219	9	3	1	1	1	

Number of deaths occurring in metropolitan and other institutions
of persons residing in West Ham :—

94	in London Hospital.
28	„ Children's Hospital, Shadwell.
15	„ City of London Chest Hospital, Victoria Park
13	„ St. Bartholomew's Hospital.
11	„ Poplar Hospital.
10	„ King's College Hospital.
9	„ River Thames.
6	„ Middlesex Hospital.
6	„ German Hospital.
4	„ Poplar and Stepney Sick Asylum.
4	„ Salvation Army Home.
3	„ Metropolitan Asylum Board Hospital Ships.
3	„ Homœopathic Hospital.
3	„ Islington Workhouse.
3	„ Royal Albert Dock.
3	„ River Lea.
2	„ North Western Fever Hospital.
2	„ London Temperance Hospital.
2	„ Cancer Hospital.
2	„ Poplar Workhouse.
1	„ 83, Cable Street, St. George's.
1	„ Cheyne House.
1	„ St. Olive's Infirmary.
1	„ Hospital for Women, Euston.
1	„ Guy's Hospital.
1	„ Central London Sick Asylum.
1	„ Charing Cross Hospital.
1	„ 192, Bow Road.
1	„ St. Mary's Hospital, Paddington.
1	„ Homerton Fever Hospital.
1	„ North Eastern Children's Hospital.

Brought forward 234

- 1 in Banstead Asylum.
- 1 „ Great Ormond Street Hospital.
- 1 „ North London Consumption Hospital.
- 1 „ East End Mothers' Home.
- 1 „ Metropolitan Hospital.
- 1 „ St. Thomas' Hospital.
- 1 „ Great Eastern Railway.
- 1 „ Bethnal Green Workhouse.
- 1 „ Seamen's Hospital.
- 1 „ Brompton Hospital.
- 1 „ Holloway Prison.
- 1 „ Licensed Victuallers' Asylum.
- 1 „ Grove Hall Asylum.
- 1 „ Children's Hospital, Sydenham.
- 1 „ Central London Throat Hospital.
- 1 „ St. Anne's House, Stoke Newington.
- 1 „ South Eastern Fever Hospital.
- 1 „ Riley Street, Bermondsey.
- 1 „ Moorfields Eye Hospital.
- 1 „ St. Elizabeth's House.
- 1 „ Royal Free Hospital.
- 1 „ City Orthopædic Hospital.
- 1 „ Cab on Ludgate Hill.

257 Total.

DEATHS occurring in the various Streets of the Borough
distinguishing deaths from the seven principal
zymotic diseases.

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Abbey Lane	10	11
Abbey Road	1	6
Abbey Street	—	5
Adamson Road	3	18
Addington Road... ..	—	1
Addison Road	1	3
Adine Road	—	1
Agate Street	—	2
Agnes Street	3	1
Ailwyn Road	2	2
Albany Road	1	5
Albert Road, Forest Gate	—	3
Albert Road, Plaistow	2	3
Albert Road, Stratford	—	2
Albert Square	3	11
Albion Street	—	1
Aldworth Road	—	8
Alexandra Street	3	6
Alfred Road	—	2
Alfred Street, Tidal Basin	—	2
Alice Street	1	11
Alma Street	1	3
Alma Place	—	2
Almshouses, West Ham... ..	—	—
Alnwick Road	3	8
Amelia Street	3	3
Amity Road	1	10
Andrew Street	1	19
Angel Lane	4	7
Angel Place	1	7
Ann Street	2	3
Annie Street	—	5
Argyle Road, Forest Gate	—	—
Argyle Road, Custom House	6	15

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Arkwright Street	...	...	...	...	...	—	1
Arrow Street	...	...	...	...	...	—	—
Arthingworth Street	...	...	...	...	...	3	7
Arthur Street, Stratford	...	...	...	...	...	—	—
Arthur Street, Silvertown	...	...	...	...	...	5	7
Ascot Street	...	...	...	...	...	1	8
Ashlin Road	...	...	...	...	...	1	5
Ashton Street	...	...	...	...	...	2	1
Atherton Road	...	...	...	...	...	—	—
Aviary Street	...	...	...	...	...	—	1
Avenons Road	...	...	...	...	...	—	3
1st Avenue	...	...	...	...	...	—	7
2nd Avenue	...	...	...	...	...	1	7
3rd Avenue	...	...	...	...	...	3	5
Bailey Street	...	...	...	...	...	1	2
Bakers Row	...	...	...	...	...	—	—
Balaam Street	...	...	...	...	...	—	9
Barking Road	...	...	...	...	...	4	48
Barnby Street	...	...	...	...	...	2	6
Barnby Place	...	...	...	...	...	—	—
Barnwood Road	...	...	...	...	...	2	2
Baron Road	...	...	...	...	...	6	17
Barrow Road	...	...	...	...	...	—	—
Barwick Road	...	...	...	...	...	—	1
Baxter Road	...	...	...	...	...	1	1
Beaconsfield Road	...	...	...	...	...	1	3
Beale Street	...	...	...	...	...	—	2
Beatrice Street	...	...	...	...	...	3	2
Beauchamp Road	...	...	...	...	...	—	1
Beaufoy Road	...	...	...	...	...	2	4
Beaumont Road	...	...	...	...	...	1	5
Beck Road	...	...	...	...	...	3	7
Beckton Road	...	...	...	...	...	3	5
Bective Road	...	...	...	...	...	1	1
Beddingfield Street	...	...	...	...	...	2	4

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Beechwood Road	...	...	...	...	...	—	—
Beechy Place	...	...	...	...	...	—	1
Bell and Anchor Cottages	...	...	...	...	...	—	—
Belton Road	...	...	...	...	...	1	—
Bengeo Street	...	...	...	...	...	1	4
Berwick Road	...	...	...	...	...	1	1
Bettis Road	...	...	...	...	...	—	2
Bidder Street	...	...	...	...	...	8	24
Biggerstaff Road...	...	...	...	...	...	6	10
Bignold Road	...	...	...	...	...	1	—
Bishop Road	...	...	...	...	...	—	—
Blanche Street	...	...	...	...	...	3	5
Blythe Road	...	...	...	...	...	8	15
Boleyn Road	...	...	...	...	...	4	9
Bolton Road	...	...	...	...	...	—	4
Bond Street	...	...	...	...	...	—	1
Boulton Road	...	...	...	...	...	—	5
Boundary Road	...	...	...	...	...	—	—
Bow Street	...	...	...	...	...	—	4
Boxley Road	...	...	...	...	...	1	—
Boyd Road	...	...	...	...	...	2	6
Bradley Road	...	...	...	...	...	—	5
Braemar Road	...	...	...	...	...	1	8
Bridge Road	...	...	...	...	...	2	10
Brighton Road	...	...	...	...	...	4	3
Broad Street	...	...	...	...	...	4	8
Broadway, Stratford	...	...	...	...	...	—	7
Broadway, Plaistow	...	...	...	...	...	—	8
Brooks Road	...	...	...	...	...	1	8
Brownlow Road	...	...	...	...	...	2	—
Browns Road	...	...	...	...	...	2	7
Brunel Street	...	...	...	...	...	3	10
Bryant Street	...	...	...	...	...	—	1
Brydges Road	...	...	...	...	...	1	—
Buckingham Road	...	...	...	...	...	—	1
Burford Road	...	...	...	...	...	—	1
Burgess Road	...	...	...	...	...	4	4
Burke Street	...	...	...	...	...	1	2

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Burleigh Road	—	—
Burnham Street	2	5
Burrard Road	6	6
Buxton Road	2	10
Caistor Park Road	4	16
Campbell Road	—	—
Canning Road	—	1
Capel Road	—	4
Carlton Street	2	3
Carnarvon Road	1	3
Carpenters Road	—	14
Carter Street	—	—
Castle Street	2	5
Catherine Street, Tidal Basin	3	8
Catherine Street, Silvertown	2	7
Cave Road	1	1
Cecil Road	1	4
Cedars Road	—	11
Cemetery Road	1	9
Chadd Street	1	2
Chandos Road	2	6
Channelsea Road	2	6
Channelsea Street	3	7
Channelsea Court	1	1
Chant Square	1	1
Chant Street	—	1
Chapel Street, Stratford	1	13
Chapel Street, Forest Gate	—	1
Chaplin Road	—	—
Chapman Road	2	3
Chargeable Lane	1	1
Chargeable Street	—	4
Charles Street, Plaistow	—	1
Charles Street, Silvertown	1	4
Charlotte Street, Canning Town	3	5

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Charlotte Street, Old Canning Town	2	2
Charlton Road	1	—
Chatsworth Road	2	8
Chauntler Road	1	6
Chaucer Road	1	3
Chesterton Road... ..	—	4
Chesterton Terrace	1	1
Chestnut Avenue	1	6
Chobham Road	4	8
Church Street, West Ham	2	7
Church Street, Plaistow... ..	—	7
Church Street, Barking Road	—	4
Church Street Buildings	—	3
Clare Road	—	1
Clarence Road	4	10
Claremont Road	1	3
Clarkson Street	2	4
Claughton Road	2	—
Clever Road	2	9
Clifford Road	1	6
Clifton Road	3	16
Clova Road	1	2
Clyde Road	4	4
Cobbold Road	—	2
Colegrave Road	5	17
Columbia Road	1	1
Connaught Road	—	3
Constance Street, Plaistow	—	3
Constance Street, Silvertown	5	9
Coolfyn Road	1	9
Cooks Road	—	2
Cooper Street	2	4
Cranbrook Road	—	6
Cranmer Road	—	3
Crawford Street	1	—
Creek Street	—	—
Crescent Road	2	1
Cross Street, Stratford	—	2

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Cross Street, Canning Town	...	...	...	...	...	1	3
Crown Street	...	...	...	...	...	2	11
Crownfield Road	...	...	...	...	...	—	—
Croydon Road	...	...	...	...	...	4	15
Crosby Road	...	...	...	...	...	—	2
Cruickshank Road	...	...	...	...	...	1	6
Cullum Street	...	...	...	...	...	4	13
Cundy Road	...	...	...	...	...	8	17
Curtis Road	...	...	...	...	...	—	—
Custom Street	...	...	...	...	...	—	3
Dacre Road	...	...	...	...	...	—	4
Dale Road	...	...	...	...	...	5	9
Dames Road	...	...	...	...	...	1	5
Dartmouth Road	...	...	...	...	...	2	—
David Street	...	...	...	...	...	—	2
Davis Street	...	...	...	...	...	—	—
Dean Street	...	...	...	...	...	1	1
Deanery Road	...	...	...	...	...	—	—
Denmark Street	...	...	...	...	...	2	6
Derby Street	...	...	...	...	...	—	10
Devonshire Road	...	...	...	...	...	1	2
Dirleton Road	...	...	...	...	...	2	7
Dirleton Place	...	...	...	...	...	—	2
Disraeli Road	...	...	...	...	...	—	1
Dongola Road	...	...	...	...	...	8	3
Drew Road	...	...	...	...	...	—	1
Dunbar Road	...	...	...	...	...	1	3
Dunmow Road	...	...	...	...	...	1	5
Earl Street	...	...	...	...	...	—	—
Earlham Grove	...	...	...	...	...	1	7
East Road	...	...	...	...	...	2	3
East Street	...	...	...	...	...	2	2

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Eastbourne Road	2	14
Eastern Road, West Ham Lane	—	—
Eastern Road, Plaistow	—	3
Eastwood Road	1	2
Edith Road	1	3
Edward Street, Canning Town	5	16
Edward Street, Barking Road		
Eldon Road	—	1
Eleanor Road	1	1
Edwin Road	—	2
Elm Road	—	2
Elmhurst Road	1	3
Elphick Street	4	1
Emily Street	—	6
Emma Road	3	2
Emma Street	3	4
Ernest Road, Forest Gate	—	1
Ernest Road, Plaistow	—	9
Essex Street	3	3
Ethel Road, Barking Road	—	1
Ethel Road, Custom House	3	3
Eve Road	—	4
Evelyn Road	—	3
Evesham Road	4	11
Exning Road	—	—
Fairland Road	—	—
Falkland Road	—	—
Falkner Street	1	—
Falmouth Street... ..	—	1
Faringford Road... ..	—	7
Fenton's Avenue	—	6
Ferndale Road	2	3
Ferns Road	—	—
Field Road	3	7
Firwood Road	—	—

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Fisher Street	3	7
Florence Road	1	2
Florence Street	1	5
Folkestone Road....	—	—
Ford Street	—	2
Ford's Market ...	—	1
Ford's Park Road ...	5	16
Forest Lane	3	7
Forest Road	1	—
Forest Street	1	11
Forty Acre Lane ...	3	10
Foster Road	—	1
Fowler Road	—	2
Fox Street	3	6
Francis Street, Stratford ...	2	5
Francis Street, Canning Town ...	4	10
Frank Street ...	—	1
Frederick Road ...	—	2
Frederick Street...	—	3
Freemason Road...	2	11
Freemantle Road ...	—	2
Fulton Street ...	—	11
Garfield Road ...	1	4
Garvery Road ...	1	6
Geere Road ...	3	5
George Street, Plaistow...	—	3
George Street, Canning Town ...	1	6
George Street, Silvertown ...	2	5
Gift Lane ...	—	2
Gibbins Road ...	2	6
Gipsy Lane ...	3	5
Gladstone Road ...	—	1
Glenparke Road ...	—	4
Gilbert Street ...	—	1
Glenavon Road ...	—	6

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Globe Crescent	—	2
Godfrey Street	—	3
Godsell Road	—	—
Godwin Road	—	7
Gordon Street	1	4
Gough Road	—	3
Gower Road	2	2
Grace Road	3	10
Grafton Road, North	—	5
Grafton Road, South	1	3
Graham Road	—	—
Grange Road	11	30
Granville Road	1	6
Gray Street	6	7
Great Eastern Road	1	3
Green Street	—	3
Greengate Street	1	4
Grenville Road	1	3
Gregory Road	—	1
Grove Crescent Road	1	6
Gurney Road	—	11
Hack Road	2	7
Hallesville Road... ..	3	7
Ham Road	—	—
Ham Park Road... ..	2	7
Hamfrith Road	—	3
Hampton Road	1	6
Harold Road	3	8
Hartington Road	1	5
Hartland Road	1	9
Hastings Road	1	1
Hazlemere Road... ..	—	1
Hearn Street	—	2
Helena Road	3	2
Hemsworth Street	3	11

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Henniker Road	...	...	...	...	...	5	7
Herbert Street	...	...	...	...	...	3	9
Hermit Road	...	...	...	...	...	3	8
Heyworth Road	...	...	...	...	...	1	6
High Street, Stratford	...	...	...	...	...	8	31
High Street, Plaistow	...	...	...	...	...	1	3
Hill Street	...	...	...	...	...	1	3
Hollybush Street	...	...	...	...	...	1	3
Holness Road	...	...	...	...	...	2	1
Holtum Place	...	...	...	...	...	—	1
Hooper Road	...	...	...	...	...	6	16
Horace Road	...	...	...	...	...	—	1
Hospital, West Ham	...	...	...	...	...	—	—
Hospital, Borough	...	...	...	...	...	—	—
Hospital, Ship's	...	...	...	...	...	—	—
Hospital, Children's	...	...	...	...	...	—	—
Hospital, Seamen's	...	...	...	...	...	—	—
Hotham Street	...	...	...	...	...	2	5
Howards Road, Forest Gate	...	...	...	...	...	—	3
Howards Road, Plaistow	...	...	...	...	...	2	22
Hoy Street	...	...	...	...	...	1	11
Hubbard Street	...	...	...	...	...	1	5
Hudson Road	...	...	...	...	...	1	1
Hughan Road	...	...	...	...	...	1	1
Huntingdon Road	...	...	...	...	...	1	1
Idmiston Road	...	...	...	...	...	1	5
Ingal Road	...	...	...	...	...	—	1
Ingestre Road	...	...	...	...	...	—	1
Invicta Road	...	...	...	...	...	—	—
Ismailia Road	...	...	...	...	...	—	3
Industrial School	...	...	...	...	...	—	—
James Street	...	...	...	...	...	3	2
Janson Road	...	...	...	...	...	—	8

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Jedburgh Road	—	3
John Street, Plaistow	—	1
John Street, Canning Town	—	1
Junction Road, Plaistow	1	—
Junction Road, Old Canning Town	—	3
Jupp Road	1	5
Kelland Road	2	2
Kent Street	1	2
Keogh Road	2	7
Khartoum Road	1	6
Khedive Road	1	5
King Street, Stratford	3	2
King Street, Plaistow	—	6
King Street, Canning Town	1	4
Kingsley Road	—	4
Knight's Road	—	5
Knox Road	1	1
Ladywell Street	—	—
Lancaster Road	—	1
Laindon Avenue... ..	—	—
Lambert Road	1	3
Langthorne Street	—	12
Lansdown Road	3	14
Latimer Road	—	4
Lavender Street	—	3
Lawrence Street... ..	6	14
Lea Street	2	—
Leabon Street	—	—
Lee Street	—	1
Leonard Road	1	1
Leonard Street	—	1
Leslie Road	2	2
Lett Road	2	7
Leyes Road	8	12

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Leyton Road	...	...	...	...	...	5	19
Leytonstone Road	...	...	...	...	...	8	10
Libra Road	...	...	...	...	...	—	4
Liddington Road	...	...	...	...	...	1	4
Liddon Road	...	...	...	...	...	2	4
Lincoln Road	...	...	...	...	...	—	—
Liverpool Road	...	...	...	...	...	4	17
Livingstone Road	...	...	...	...	...	2	19
London Road	...	...	...	...	...	—	6
Lorne Road	...	...	...	...	...	—	2
Louise Road	...	...	...	...	...	—	4
Lovatt Road	...	...	...	...	...	—	—
Lower Road	...	...	...	...	...	2	2
Lucas Road	...	...	...	...	...	2	10
Luton Road	...	...	...	...	...	—	1
Maiden Road	...	...	...	...	...	2	2
Major Road	...	...	...	...	...	5	12
Malmesbury Road	...	...	...	...	...	5	18
Manbey Grove	...	...	...	...	...	1	3
Manbey Park	...	...	...	...	...	2	—
Manbey Road	...	...	...	...	...	—	1
Manbey Street	...	...	...	...	...	—	4
Manor Road	...	...	...	...	...	7	7
Marcus Street	...	...	...	...	...	4	14
Margery Park Road	...	...	...	...	...	—	2
Mark Street	...	...	...	...	...	—	9
Marsh Gate Lane	...	...	...	...	...	1	4
Martin Road	...	...	...	...	...	3	10
Martha Road	...	...	...	...	...	—	—
Martin Street	...	...	...	...	...	1	4
Martindale Road	...	...	...	...	...	3	19
Matthew's Park Avenue	...	...	...	...	...	—	1
Maryland Road	...	...	...	...	...	6	6
Maryland Street	...	...	...	...	...	—	6
Maryland Park	...	...	...	...	...	—	1

STREETS.					Deaths from Infectious Disease.	All other Deaths.
Maryland Square	...	...	...	...	1	—
Mary Street	...	...	...	...	2	7
Mason Street	...	...	...	...	—	—
Maud Road	...	...	...	...	2	7
Maud Street	...	...	...	...	1	3
Mayfield Road	...	...	...	...	2	—
MacDonald Road	...	...	...	...	—	1
Meeson Road	...	...	...	...	5	9
Melford Road	...	...	...	...	—	2
Meredith Street	...	...	...	...	—	1
Merton Street	...	...	...	...	—	3
Middle Road	...	...	...	...	—	—
Milton Road	...	...	...	...	1	5
Milton Street	...	...	...	...	—	3
Montague Street	...	...	...	...	—	1
Montesquieu Street	...	...	...	...	1	5
Morecambe Street	...	...	...	...	—	—
Morgan Street	...	...	...	...	1	4
Mortham Street	...	...	...	...	2	4
Morton Road	...	...	...	...	—	4
Mount Street	...	...	...	...	—	—
Muir Street	...	...	...	...	—	2
Myra Street	...	...	...	...	—	3
May's Buildings	...	...	...	...	—	—
Napier Road	...	...	...	...	4	4
Nelson Street	...	...	...	...	4	12
Neville Road	...	...	...	...	8	11
New Street, Stratford	...	...	...	...	3	7
New Road, Old Canning Town	...	...	...	...	2	3
Newland Road	...	...	...	...	2	1
New Barn Street	...	...	...	...	2	5
New City Road	...	...	...	...	4	12
New Providence Street	...	...	...	...	1	3
Newman Road	...	...	...	...	—	5
Newman Street, Tidal Basin	...	...	...	...	—	2

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Newton Street	1	4
Norfolk Street	—	1
North Road	—	—
North Street, Stratford	—	1
North Street, Plaistow	—	—
Northern Road	—	4
North Woolwich Road	4	11
Norwich Road	—	—
Nursery Lane	—	—
Oak Road	1	3
Oakdale Road	—	4
Odessa Road	6	13
Ohio Road	1	5
Orchard Court	—	—
Ordnance Road	—	7
Oriental Road	1	4
Osborne Road	—	4
Outram Street	—	1
Pacific Road	1	—
Palmerston Road	—	—
Park Grove	—	3
Park Road	2	3
Park Lane	—	—
Park Place	—	1
Parker Street	1	5
Parliament Place	—	—
Paul Street	3	12
Pelly Road	2	6
Percy Road, Forest Gate	—	—
Percy Road, Upton	—	4
Percy Road, Plaistow	7	8
Peterborough Road	—	—
Peter Street	3	7

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Peto Street	—	—
Phillip Street, Plaistow	2	1
Phillip Street, Canning Town	—	1
Pigwell Lane	—	—
Pitt Street	1	4
Pitchford Street	2	10
Plaistow Grove	2	2
Plaistow Road	1	11
Plaistow Park Road	—	6
Plasbet Road	3	13
Pleasant Place	—	—
Poplar Street	1	13
Portland Road	2	10
Portway	1	8
Pragell Street	1	6
Preston Road	2	7
Prince Regents Lane	1	8
Prince of Wales Road	7	10
Quadrant Street	—	3
Queen's Road, Plaistow	12	28
Queen's Road, Canning Town	2	9
Queen Street, Stratford	2	7
Queen Street, Stratford New Town		
Radnor Street	—	3
Randolph Road	5	5
Randall Street	—	—
Ranelagh Road	2	3
Railway Cottages	—	3
Railway Place	—	3
Rathbone Street... ..	3	9
Ravenstone Road	—	—
Raymond Road	2	3

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Redriff Road	...	...	...	...	...	1	8
Reginald Road	...	...	...	...	...	2	3
Rendel Road	...	...	...	...	...	7	13
Reynolds Road	...	...	...	...	...	—	1
Richard Street	...	...	...	...	...	—	—
Richford Road	...	...	...	...	...	—	7
Richmond Street	...	...	...	...	...	—	—
Ridley Road	...	...	...	...	...	—	2
Riles Road	...	...	...	...	...	—	2
River Lea	...	...	...	...	...	—	1
River Thames	...	...	...	...	...	—	—
River Street	...	...	...	...	...	—	1
Rivett Street	...	...	...	...	...	—	4
Roberts Road	...	...	...	...	...	2	7
Robertson Road	...	...	...	...	...	2	4
Rochester Avenue	...	...	...	...	...	1	3
Rokeby Street	...	...	...	...	...	1	3
Romford Road	...	...	...	...	...	2	19
Roscoe Street	...	...	...	...	...	1	13
Rosetta Road	...	...	...	...	...	—	—
Rosher Road	...	...	...	...	...	11	6
Ross Road	...	...	...	...	...	—	1
Royal Road	...	...	...	...	...	3	10
Rudolph Road	...	...	...	...	...	—	—
Russell Road	...	...	...	...	...	1	3
Russell Street	...	...	...	...	...	1	—
Ruth Street	...	...	...	...	...	1	—
Sabberton Street	...	...	...	...	...	—	3
Salisbury Road	...	...	...	...	...	1	2
Salmen Road	...	...	...	...	...	2	2
Salway Road	...	...	...	...	...	1	4
Samson Street	...	...	...	...	...	—	1
Sandall Street	...	...	...	...	...	1	8
Sandford Street	...	...	...	...	...	—	3
Sarah Street	...	...	...	...	...	4	13

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Scott Street	...	...	...	...	...	1	22
Seaton Street	...	...	...	...	...	1	3
Sebert Road	...	...	...	...	...	3	10
Selsdon Road	...	...	...	...	...	2	10
Selwyn Road	...	...	...	...	...	—	2
Sewell Street	...	...	...	...	...	—	3
Shaftesbury Avenue	...	...	...	...	...	1	4
Shepherd Street	...	...	...	...	...	1	2
Ship Street	...	...	...	...	...	2	3
Shipwright Street	...	...	...	...	...	1	5
Shirley Road	..	...	...	...	...	2	2
Shirley Street	...	...	..	...	...	2	9
Short Road	...	...	...	...	...	—	—
Short Street	...	...	...	...	...	—	—
Sidney Road, Forest Gate	...	...	...	..	...	1	—
Sidney Street, Tidal Basin	...	...	...	...	...	1	4
Skelton Road	...	...	...	...	...	1	2
Skiers Street	...	...	...	...	...	1	11
Smith Street	...	...	...	...	...	—	3
Solomon Road	...	...	...	...	...	—	—
Sophia Road	...	...	...	...	...	—	5
South Street, Stratford	...	...	...	...	...	—	4
South Street, Stratford New Town	...	...	...	...	...	—	—
Southern Road	...	...	...	...	...	—	1
Sprowston Road	...	...	...	...	...	—	4
Stanley Road	...	...	...	...	...	3	14
Stanley Street	...	...	...	...	...	1	5
Star Lane	...	...	...	...	...	3	15
Star Street	...	...	...	...	...	1	4
Station Road, Forest Gate	...	...	...	...	...	2	5
Station Road, Plaistow	...	...	...	...	...	1	3
Station Street	...	...	...	...	...	2	2
Steele Road	...	...	...	...	...	3	7
Stephens Road	...	...	...	...	...	1	11
Stephenson Street	...	...	...	...	...	3	14
Stock Street	...	...	...	...	...	—	7
Stopford Road	...	...	...	...	...	—	4
Stork Road	...	...	...	...	...	—	2

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Stracey Road	...	...	...	...	...	1	6
Stratford Road	...	...	...	...	...	2	8
Stratford Street	...	...	...	...	...	1	—
Strode Road	...	...	...	...	...	—	2
Studley Road	...	...	...	...	...	2	5
Stuckeley Road	...	...	...	...	...	2	1
St. Andrew's Road	...	...	...	...	...	—	2
St. George's Avenue	...	...	...	...	...	—	—
St. George's Road	...	...	...	...	...	—	6
St. George's Square	...	...	...	...	...	1	1
St. James' Road	...	...	...	...	...	4	10
St. John's Road	...	...	...	...	...	—	4
St. Leonard's Road	...	...	...	...	...	—	—
St. Luke's Square	...	...	...	...	...	2	6
St. Mary's Road	...	...	...	...	...	5	6
St. Thomas' Road	...	...	...	...	...	—	6
Suffolk Road	...	...	...	...	...	—	2
Suffolk Street	...	...	...	...	...	1	4
Sugar House Lane	...	...	...	...	...	1	1
Surrey Street	...	...	...	...	...	1	1
Sussex Street	...	...	...	...	...	—	2
Sutton Road	...	...	...	...	...	2	2
Swanscomb Street	...	...	...	...	...	4	5
Swete Street	...	...	...	...	...	1	3
Sylvan Road	...	...	...	...	...	1	1
Tabernacle Avenue	...	...	...	...	...	—	1
Talbot Road	...	...	...	...	...	—	4
Tate Road	...	...	...	...	...	—	8
Tavistock Road	...	...	...	...	...	—	1
Temple Mill Lane	...	...	...	...	...	1	3
Tenby Road	...	...	...	...	...	1	17
Tennyson Road	...	...	...	...	...	2	5
The Crescent	...	...	...	...	...	—	—
The Grove	...	...	...	...	...	1	2
The Green	...	...	...	...	...	2	2

STREETS.	Deaths from Infectious Disease.	All other Deaths.
The Terrace	—	4
Thomas Street	—	1
Thornham Grove	—	—
Thorpe Road	—	—
Tidal Basin Road	1	4
Tower Hamlets Road	5	14
Tree-in-pound Road	—	—
Trevelyan Road	1	3
Trinity Gardens	—	—
Trinity Street	2	17
Tucker Street	1	13
Tunmarsh Lane	2	1
Twyford Road	—	1
Tyas Road	1	2
Tylney Road	1	1
Union Cottages	—	1
Union Road, Vicarage Lane	1	10
Union Road, Plaistow	—	4
Union Street, Tidal Basin	—	1
Union Street, Stratford	1	6
Upper Road	1	4
Upton Avenue	0	1
Upton Lane	2	9
Upton Park Road	2	11
Valentine Road	—	—
Valetta Grove	1	—
Vansittart Road	1	5
Vaughan's Place	—	—
Vaughan Road	1	1
Vernon Road	1	5
Verona Road	—	—
Vicarage Cottages	—	1

STREETS.	Deaths from Infectious Disease.	All other Deaths.
Vicarage Gardens	—	2
Vicarage Lane	2	13
Vicarage Road	—	13
Victoria Road, Forest Gate	—	1
Victoria Road, Plaistow... ..	1	4
Victoria Street	—	9
Victoria Dock Road	4	23
Village Street	1	5
Vincent Street	4	18
Vine Road	—	—
Waddington Road	—	11
Waddington Street	5	12
Walter Street	—	2
Walton Road	—	2
Ward Road	3	3
Warmington Street	1	2
Warrington Street	—	1
Warwick Road	1	4
Water Lane	1	3
Watson Street	1	1
Webb Street	—	4
Well Street	—	4
Wellington Place	4	2
Wellington Road	4	14
Wellington Street	1	1
West Ham Lane	1	8
West Road, Canning Town	2	1
West Road, Plaistow	3	9
West Street, Stratford	3	7
West Street, New Town	—	—
Western Road, Plaistow... ..	1	4
Western Road, Tidal Basin	—	1
Western Street	—	3
Westbury Road	2	4
Westwood Road	—	—

STREETS.						Deaths from Infectious Disease.	All other Deaths.
Wharfedale Lane...	...	...	...	...	...	—	—
Wharf Road	...	...	...	...	...	—	4
Wharf Street	...	...	...	...	...	—	2
Wharton Road	...	...	...	...	...	—	6
White Road	...	...	...	...	...	—	1
Whitwell Road	...	...	...	...	...	2	5
Whyteville Road	...	...	...	...	...	2	6
Widdin Street	...	...	...	...	...	—	2
Wightman Street	...	...	...	...	...	4	9
Wilberforce Street	...	...	...	...	...	—	10
William Street	...	...	...	...	...	2	6
Willow Grove	...	...	...	...	...	2	4
Wilson Street	...	...	...	...	...	—	2
Wilton Street	...	...	...	...	...	1	2
Winchester Street	...	...	...	...	...	—	3
Windmill Lane	...	...	...	...	...	1	3
Windsor Road	...	...	...	...	...	—	7
Wingfield Road	...	...	...	...	...	1	12
Winkfield Road	...	...	...	...	...	—	2
Winton Road	...	...	...	...	...	3	5
Wolsely Road	...	...	...	...	...	—	2
Wood Street	...	...	...	...	...	—	—
Woodford Road	...	...	...	...	...	1	3
Woodgrange Road	...	...	...	...	...	—	3
Woodstock Street	...	...	...	...	...	1	8
Woodward's Gardens	...	...	...	...	...	—	1
Worland Road	...	...	...	...	...	—	1
Wouldham Street	...	...	...	...	...	2	15
Wyatt Road	...	...	...	...	...	—	3
Wycliffe Road	...	...	...	...	...	—	1
York Street	...	...	...	...	...	1	8
Young Street	...	...	...	...	...	—	5

Analysis of Vital and Mortal Statistics of Thirty-three

TOWNS.	Estimated Population middle of 1896.	Births.	Deaths.	Annual Rate per 1,000 Living.		
				Births.	Deaths.	Principal Zymotic Diseases.
33 Towns	10,846,971	339,115	208,534	30·7	18·9	2·86
32 Provincial Towns ...	6,425,016	203,319	125,023	31·1	19·1	2·67
London	4,421,955	135,796	83,511	30·2	18·6	3·14
WEST HAM	240,000	8,519	4,395	35·5	18·9	3·9
Croydon	118,006	3,009	1,706	25·1	14·2	1·94
Brighton	120,499	3,022	1,975	24·7	16·1	1·63
Portsmouth	178,639	5,006	3,009	27·6	16·6	2·11
Plymouth	90,276	2,643	1,796	28·8	19·6	2·30
Bristol	230,623	6,465	3,961	27·6	16·9	1·90
Cardiff	162,690	5,591	2,784	33·8	16·8	2·27
Swansea	98,645	3,061	1,689	30·5	16·8	1·18
Wolverhampton	86,530	3,023	1,775	34·4	20·0	3·11
Birmingham	501,241	16,603	10,600	32·6	20·8	3·57
Norwich	108,630	3,400	1,919	30·8	17·4	2·53
Leicester	198,659	6,212	3,376	30·8	16·7	2·97
Nottingham	229,775	6,758	4,087	28·9	17·5	2·47
Derby	101,770	2,901	1,619	28·0	15·7	1·91
Birkenhead	109,343	3,527	2,133	31·7	19·2	2·97
Liverpool	632,512	22,416	14,617	34·9	22·7	3·01
Bolton	120,380	3,831	2,536	31·3	20·7	2·80
Manchester	529,561	17,787	12,184	33·0	22·6	3·42
Salford	210,707	7,480	4,848	34·9	22·6	4·10
Oldham	143,442	3,971	2,955	27·2	20·3	2·91
Burnley	102,805	3,245	1,830	31·0	17·5	2·19
Blackburn	129,459	3,649	2,351	27·7	17·9	1·82
Preston	113,864	3,776	2,403	32·6	20·8	1·86
Huddersfield	100,463	2,096	1,682	20·5	16·5	1·60
Halifax	94,775	2,337	1,669	24·3	17·3	1·10
Bradford	228,809	5,939	3,840	25·5	16·5	1·58
Leeds	402,449	12,574	7,670	30·7	18·8	2·28
Sheffield	347,278	12,011	6,797	34·0	19·3	2·91
Hull	220,844	7,171	4,245	31·9	18·9	3·32
Sunderland	140,386	4,873	2,828	34·2	19·8	3·00
Gateshead	98,436	3,583	1,910	35·8	19·1	3·10
Newcastle-on-Tyne ...	212,223	6,701	3,981	31·1	18·5	2·08

of the Largest English Towns during the Year 1896.

Deaths from principal Zymotic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhoea.	Deaths of Children under 1 year of age to 1,000 Births.	Rate per cent. of Uncertified Deaths
31,550	25	7,839	2,406	4,202	6,245	2,073	8,760	167	1.5
17,450	16	4,142	1,464	1,519	3,308	1,464	5,537	172	2.1
14,100	9	3,697	942	2,683	2,937	609	3,223	161	0.6
982	4	112	56	193	155	66	375	168	3.7
233	—	67	5	29	62	18	52	150	—
199	—	55	6	19	32	14	73	135	1.7
383	—	125	20	20	59	27	132	154	0.7
210	—	95	3	13	17	6	76	178	0.5
444	5	143	59	37	61	18	121	142	1.2
376	3	38	28	62	105	13	127	165	1.3
118	2	6	4	10	56	15	25	161	1.1
274	—	9	21	53	31	36	124	184	1.3
1,823	—	307	148	270	378	107	613	197	5.0
257	—	117	4	24	9	21	82	164	1.6
599	—	121	50	64	51	40	273	187	2.7
575	—	205	26	13	90	79	168	168	1.4
197	—	34	11	10	54	21	67	151	0.4
330	—	115	32	22	59	26	76	171	1.0
1,938	—	306	227	157	294	206	748	173	3.4
344	—	6	40	14	102	48	134	168	0.3
1,834	—	570	197	81	360	122	504	176	1.3
879	—	202	104	49	189	71	264	199	2.1
425	—	167	56	35	53	23	91	184	0.3
229	—	63	4	48	28	13	73	170	1.4
238	—	41	9	10	47	34	97	171	2.7
217	—	4	3	12	43	26	129	203	4.3
163	—	28	19	21	55	13	27	166	2.5
105	—	16	—	21	33	20	15	149	1.7
369	1	107	24	17	104	28	88	143	0.8
937	1	199	71	49	246	87	284	169	0.6
1,024	—	200	102	56	205	101	360	173	3.5
745	—	260	57	51	113	62	202	173	2.8
428	—	143	27	8	76	53	121	158	0.9
310	—	137	26	18	35	22	72	172	0.9
450	—	139	26	39	103	33	110	165	0.5

