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REPORT
ON THE
SANITARY CONDITION
OF THE
CITY OF LONDON,
FOR THE YEAR 1871—1872.

BY
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HOSPITAL.

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1872.

REPORT

OF THE

CITY OF LONDON

FOR THE YEAR 1842

BY THE

COMMISSIONERS OF THE CITY OF LONDON

PRINTED BY

JOHN WOODWARD, 10, ST. MARTIN'S LANE

*At a meeting of the Commissioners of Sewers
of the City of London, held at the
Guildhall of the said City, on Tuesday,
17th December, 1872,*

The Medical Officer of Health laid before the
Court his Annual Report.

ORDERED—

That the same be printed and circulated as
usual.

JOSEPH DAW,
Principal Clerk.

1
The Commission of the European Communities
of the City of London, held at the
premises of the said City on Monday,
17th November 1971.

The Medical Officer of Health said that the
case of the patient is as follows:

It is the case of a patient who is

W. H. H. H. H.
W. H. H. H. H.

REPORT

ON THE

SANITARY CONDITION

OF THE

CITY OF LONDON.

THE TWENTY-FOURTH ANNUAL REPORT OF THE
MEDICAL OFFICER OF HEALTH.

TO THE HONOURABLE COMMISSIONERS OF SEWERS OF
THE CITY OF LONDON.

GENTLEMEN,—In the course of the sanitary year which expired in September last there were 1,195 marriages, 1,825 births, and 1,762 deaths registered in the City. These numbers are below the averages for the corresponding period of the last 10 years—the marriages having been in the annual proportion of 1,432, the births 2,429, and the deaths 2,393.

MARRIAGES.

These have been at the rate of 15·6 per 1,000 of the population—the common proportion in the City for the last 10 years being a little less than 15 per 1,000, while that of all England is about 8·4 per 1,000.

BIRTHS.

Of the 1,825 births in the City during the year, 883 were males and 942 females. These are in the proportion of only 93·7 males to 100 females, whereas

the ordinary proportion in the City is 102 males to every 100 females, and in the whole of England it is 104·4 to the 100. Again, of the 1,825 births in the City 834 were in the Eastern Division, 475 in the Western, and 516 in the Central. These numbers are in the annual proportion of 29·9 per 1,000 of the population of the first-named district, 25·2 per 1,000 of the second, and 17·2 of the third—the average for the entire City being 23·8 per 1,000. In the preceding 10 years the average birth-rate in the City has been 25·5 per 1,000, and in all England it is 35·4.

DEATHS.

The 1,762 deaths for the year were distributed as follows:—647 in the Eastern Union, 443 in the Western, and 672 in the City proper. The death-rate, therefore, in the several districts has been in the proportion of 23·2 per 1,000 of the population of Eastern Division, 23·5 of the Western, and 22·5 of the Central—making an average of just 23 per 1,000 for the entire City. In the preceding 10 years the average annual mortality has been at the rate of 25·1 per 1,000 of the population, and in the chief towns of England it is 26·1 per 1,000.

AGES AT DEATH.

These are shown in the 4th Table of the Appendix and it will be observed that about one-third of all the deaths in the year were among children of less than 5 years of age, and that another third, or nearly so, were among persons at 60 and upwards. Of every

1,000 deaths, indeed, the proportion at different ages was as follows:—

*Proportion of Deaths at different ages in every
1,000 Deaths.*

Ages.	Eastern Division of City.	Western Division of City.	Central Division of City.	Entire City.
Under 5	411	370	214	326
From 5 to 20	65	61	49	58
„ 20 „ 40	110	106	150	124
„ 40 „ 60	182	174	231	199
At 60 and over.....	232	289	356	293
Total	1,000	1,000	1,000	1,000

So that of every 1,000 deaths in each of the principal divisions of the City, the largest proportion of deaths among children (411) was in the Eastern District, and the smallest (214) in the Central; whereas at 20 and upwards the proportions are reversed. These results are mainly due to the circumstance that there is a larger proportion of adult life in the Central Division of the City than in the Eastern. To some extent, however, the high mortality of children in the Eastern and Western Districts is caused by the less perfect sanitary condition of those places; for if it be tested by the death-rate of infants at less than a year old, it will be found that of every 1,000 children born in the Western Division of the City 192 die before they are one year old, in the Eastern Division 179 die, and in the Central only 147—the proportion for the whole City being 173 per 1,000. This is very nearly the average (174) for the last 10 years, but it is a good deal above the average

(153) for all England, although it is greatly below the average (197) for the chief towns of England.

CAUSES OF DEATH.

The chief causes of death during the year were as follows :—Phthisis 234, tabes and scrofula 88, hydrocephalus 24, pneumonia and bronchitis 326, alvine disorders 51 (39 of which were among children), continued fever 28, scarlet fever 9, small-pox 26, measles 40, whooping-cough, croup, and diphtheria 86, and erysipelas 16—making together 346 deaths from tubercular diseases, 326 from inflammatory affections of the lungs, and 256 from diseases of a zymotic character. In the corresponding period of the last 10 years, the average number of deaths from each of these groups of diseases was 493, 383, and 492 respectively. But, besides these, there were 120 deaths from violence, privation, and poison, against an average of 146, and 97 from convulsions and teething, against an average of 135. To put these results in a simpler form, it may be said that of every 1,000 deaths in the City during the year, 185 were from pneumonia and bronchitis, 133 from phthisis, 50 from tabes and scrofula, 69 from hydrocephalus, convulsions, and teething, 29 from alvine disorders, 16 from continued fever, 5 from scarlet fever, 15 from small-pox, 22 from measles, 49 from whooping-cough, croup, and diphtheria, 9 from erysipelas, 68 from violence, &c., and 350 from diseases of a chronic character. In the case of lung diseases (phthisis, pneumonia, and bronchitis) the proportion has risen

from 289, which is the average for the last 10 years, to 318, and in the case of small-pox it has risen from 10 to 15, but all the other maladies are greatly below the average. This is more clearly expressed in the following table:—

Proportion of Deaths from the following Diseases in every 1,000 Deaths.

	CITY OF LONDON.				ENGLAND.
	In 1872.		Average of 10 years.		1869.
Pneumonia and Bronchitis.....	185	...	160	...	164
Phthisis	133	...	129	...	106
Tabes and Scrofula	50	...	59	...	29
Hydrocephalus, Convulsions, &c.	69	...	74	...	76
Alvine disorders	29	...	38	...	42
Continued fever.....	16	...	39	...	37
Scarlet fever	5	...	39	..	56
Small-pox	15	...	10	...	3
Measles	22	...	25	...	21
Whooping-cough, Croup, &c.....	49	...	49	...	37
Erysipelas	9	...	6	...	4
Violence, privation, &c.	68	...	61	...	55
Others, chiefly chronic	350	...	311	...	370
Total.....	1,000	...	1,000	...	1,000

From which it will be seen that the chief falling off has been in the proportion of deaths from continued fever, scarlet fever, and alvine disorders, thus showing a marked improvement in the public health. This is further exemplified by the returns of sickness among the poor of the City ; for in the year 1872 the number of cases of fever attended by the Union Medical Officers was only 86, against an annual average of 665, and the cases of diarrhœa were only 251, against an average of 927.

METEOROLOGY.

The temperature, barometric pressure, rainfall, humidity, &c., for each month of the year are shown in the Sixth Table of the Appendix; and, as usual, they are from observations at Guildhall, under the superintendence of Mr. Haywood. The chief facts are as follow :—

Rainfall, Humidity, Dew-point, and Temperature in each Quarter of the Year 1872.

	QUARTERS ENDING				Entire Year.
	Dec., 1871.	March, 1872.	June, 1872.	Sept., 1872.	
Total Rainfall (inches)	6·08	5·42	6·65	6·34	24·49
Average in City for 10 years	6·36	5·60	5·34	6·13	23·43
Number of Wet Days.....	28	48	47	33	156
Average in City for 10 years.....	41	42	37	35	155
Degree of Humidity (Sat.=100) ...	80	89	71	69	77
Average in City for 10 years	82	84	73	71	77
Dew-point (Fahrenheit)	39·6	41·3	44·9	53·3	44·8
Average in City for 10 years.....	42·6	37·8	46·0	52·7	44·7
Temperature (Fahrenheit)	45·0	46·4	53·8	64·6	52·4
Average in City for 10 years.....	47·6	41·9	54·3	62·1	51·5

The total rainfall during the year (24·5 inches) has been one inch above the average for the last 10 years, and it occurred during the quarter which ended in June last, when the rainfall was 6·65 inches, against an average of 5·34 inches. The number of wet days in that quarter was also increased from 37 to 47; but during the whole of the year the number (156) was

close to the average (155). As regards humidity, it will be noticed that the dampest month of the year was January, when the proportion of moisture in the atmosphere amounted to 95 per cent. of saturation. In point of fact, during the whole of the first quarter of the year the degree of humidity was 89 per cent. of saturation. The mean temperature of the air was $52\cdot4^{\circ}$ Fahrenheit, the average for the last 10 years being $51\cdot5^{\circ}$; and the range was from 28° on the 8th of December, 1871, to 88° on the 25th of July last.

THE WATER SUPPLY.

This, as usual, has been the subject of regular inquiry, the investigation having been extended to the quality of the water supplied by each of the Metropolitan Water Companies, and the following are the principal results :—

Average Chemical Composition of the Metropolitan Waters for the Year 1872.

NAMES OF WATER COMPANIES, &c.	Total Solid Matter per gallon.	Common Salt.	Oxygen required by Organic Matter, &c.	Nitrogen.		Hardness.	
				As Nitrates, &c.	As Ammonia.	Before Boiling.	After Boiling.
THAMES WATER COMPANIES.	Grains.	Grains.	Grains.	Grains.	Grains.	Degrees.	Degrees.
Grand Junction	19·48	1·87	0·103	0·130	0·004	14·6	3·7
West Middlesex	18·88	1·81	0·049	0·131	0·001	14·7	3·7
Southwark & Vauxhall	19·21	1·79	0·102	0·123	0·004	14·7	3·7
Chelsea	19·63	1·86	0·101	0·133	0·004	14·9	3·8
Lambeth	19·66	1·86	0·098	0·123	0·003	15·0	3·8
OTHER COMPANIES.							
Kent	27·21	2·60	0·011	0·233	0·000	20·2	5·7
New River	18·97	1·77	0·039	0·134	0·001	14·7	3·6
East London.....	20·04	2·02	0·058	0·150	0·002	15·1	4·1

So that the proportions of saline matter dissolved in the water supplied by the Thames Companies has ranged from 18·88 grains per imperial gallon in the case of the West Middlesex Company's water, to 19·66 in that of the Lambeth Company. The average amount of saline matter in the New River Company's water has been 18·97 grains per gallon ; while in that of the East London Company it has been 20·04 grains, and in that of the Kent Company 27·21 grains. The hardness of the water has ranged from 14·6 degrees to 20·2 ; and the quantity of oxygen required to oxydise organic and other oxydisable matter has been less than the hundredth part of a grain per gallon of the water derived from the chalk wells of the Kent Company, and about a tenth of a grain in that derived from the Thames. The saline and organic ammonia obtainable from a gallon of water by Wanklyn's process has never exceeded the hundredth part of a grain.

Four of the Companies, namely the West Middlesex, the Kent, the New River, and the East London, have constantly supplied water free from turbidity, even when examined in large volume, as in a glass tube two feet in length ; but the water of the Grand Junction, the Chelsea, the Lambeth, and the Southwark and Vauxhall Companies has been frequently turbid. This has arisen from unusual floods in the river and from a want of storeage capacity in the reservoirs of the Companies. Provision, however, is

being made to remedy this defect, so that objectionable flood waters may be diverted from the supply.

The quantity of water supplied daily to London by the several Companies has been as follows :—

Average amounts of Water supplied daily to London by the Water Companies during each Month of the Year 1872 :—

Months.	Gallons per Day.		Number of Houses supplied.
	Total.	Per Head.	
October, 1871	105,645,974	31·9	491,485
November „	103,055,193	31·1	482,719
December „	102,446,507	30·9	491,857
January, 1872	101,139,041	30·5	493,226
February, „	101,353,285	30·6	493,551
March, „	102,857,846	31·1	493,978
April, „	105,457,575	31·9	495,677
May, „	107,859,997	32·6	495,649
June, „	114,860,743	34·7	496,495
July, „	119,736,251	36·2	497,845
August, „	116,679,344	35·2	498,161
September „	114,696,589	34·6	498,574
Average	107,982,362	32·6	494,101

Taking the population of London at 3,311,298, it will be seen that the average daily supply per head ranged from 30·5 gallons in January to 36·2 gallons in July ; and that the quantity supplied to each house was rather more than 218 gallons a day. About 60 million gallons of each day's supply were derived from the Thames, about 45 million gallons from the New River and the River Lea, and the remainder from the chalk wells of the Kent Company.

In accordance with the provisions of the Metropolis Water Acts of 1852 and 1871, the Board of Trade, after inquiry into the matter, have sanctioned the Regulations made by the Companies for the purpose of preventing waste, misuse, undue consumption, and contamination of water supplied by them; and, amongst other things, the Regulations prescribe the size, nature, and strength of the pipes, cocks, cisterns, and other apparatus to be used in every house, and they interdict all arrangements that may lead to waste or misuse, or contamination of water. These Regulations came into force on the 10th of August last, and the penalty for refusing or neglecting to comply with them, or for wilfully violating them, is a sum of money not exceeding £5. It is provided, however, that all existing fittings, which shall be sound and efficient, and which are not required to be removed or altered under these Regulations, shall be deemed to be prescribed fittings under the "Metropolis Water Act, 1871;" but gradually more severe regulations will come into operation with the view of providing for a constant supply; for under the Act of 1871 it becomes the duty of the Metropolitan Board of Works, and of the Corporation of the City, after giving due notice to the Water Companies, to bring the whole of their districts—part by part—under constant service. It is also in the power of any Company, after due notice to the Metropolitan Authority, and after the expiration of at least four months from the date of such notice, to bring about the same results. At the eastern end of

London this has already been done by the East London Waterworks Company, who have given notice to the Metropolitan Board of Works of their intention to bring under constant supply, on and after the 25th of March next, the whole of the premises in the block of buildings between Hackney Road, Cambridge Heath Road, Church Street Bethnal Green, and Shoreditch High Street. This block contains 6,273 houses, or thereabouts, and it appears to be the intention of the Company to deal in the same manner with other parts of their district, including the City. The public must be prepared, therefore, for considerable alterations in the state of their fittings, so as to adapt them for constant service; and if such alterations are not made within two months after notice from the Company, the Company may enter the premises and do the necessary work at the expense of the consumer or owner, or the supply may be cut off and the premises proceeded against as a nuisance, and the person in default liable to a penalty of £5. In view, therefore, of such obligations it behoves the public to make provision, with as little delay as possible, for the adaptation of their fittings to a constant service, seeing that they have been clamouring for this for many years past, and that their wishes may at any moment be realised.

SANITARY WORK OF THE YEAR.

This is shown in the Seventh Table of the Appendix, and it will be observed that 19,784 inspections of houses have been made by the four sanitary inspectors

during the year, of which number 1,408 required amendment—the number of orders issued for sanitary improvement having been 1,958. But besides these there were 197 inspections of bakehouses ; and 2,991 notices were issued for the periodical cleansing of the lodging-houses of the City, in accordance with the 6th Regulation made in pursuance of the 35th section of the Sanitary Act, 1866. The distribution of this work has been as follows:—

Number of Inspections of Houses, and of Bakehouses; and of Orders issued for the amendment of the same by each of the Sanitary Inspectors of the City, during the Year 1872.

NAMES OF THE SANITARY INSPECTORS.	LODGING HOUSES.			BAKEHOUSES.	
	Number of Inspections	Orders for Sanitary Improvement.	Notices under 6th Regulation.	Number of Inspections.	Orders for Sanitary Improvement.
William Clark	4,988	760	750	56	7
Job Payne	5,455	713	741	42	7
Thomas Saltmarsh	5,060	218	750	43	8
Thomas Shurmur	4,281	267	750	56	7
Total	19,784	1,958	2,991	197	29

These inspections resulted in the issuing of 661 orders for cleansing and lime-whiting the rooms of houses, 977 for cleansing and repairing privies, 402 for amending sinks and drains, 89 for removing waste water, 69 for amending the water supply, 50 for paving yards and cellars, 26 for abolishing cesspools,

12 for erecting and repairing dust-bins, 8 for improving ventilation, 9 for abating smoke nuisance, 4 for removing animals improperly kept, and 116 for sundry other improvements of houses.

The Inspector of Shipping has made 1,797 inspections of ships, and has found 20 requiring sanitary improvement, chiefly in the cleansing and better ventilating of the forecastles.

The keeper of the Mortuary in Golden Lane has received 59 dead bodies during the year, and has kept them in decent custody before burial: 7 of these were cases of small-pox, and 4 of continued fever, the bodies having been removed from the dwellings of the poor, where they would otherwise have been retained in the midst of the living.

2,149 infected articles have been received at the disinfecting rooms, and have either been disinfected and returned to the owners, or destroyed. They consisted of 223 sheets, 184 blankets, 182 beds, 120 mattresses, 110 bolsters, 231 pillows, 134 quilts, 493 articles of clothing, 59 carpets, and 413 sundries.

The Markets and Slaughter-houses have been daily inspected during the year, and the two inspectors have condemned and seized 195,522 lbs., or about 88 tons of meat, as unfit for human food—189,399 lbs. were seized in the New Meat Market, 5,084 lbs. at Aldgate, and 1,039 lbs. at Leadenhall. It consisted of 74,463 lbs. of diseased meat, 102,050 lbs. of putrid

meat, and 19,009 lbs. of meat from animals that had died from accident or disease. The returns embrace 913 sheep and lambs, 108 calves, 380 pigs, 736 quarters of beef, 2,760 joints of meat, besides 3,149 plucks, 12 baskets of kidneys and melts, 1,572 kidneys, 51 hams, 190 sides and pieces of bacon, 4 barrels of pork, 17 pigs' chaps, 35 tongues, 35 ox-tails, 2 goats, 12 fawns, 100 quarters and pieces of venison, 142 hares, 5 boxes and cases of rabbits, 644 rabbits, 2,146 head of game and poultry, 1 box of plovers' eggs, 2 hampers of eggs, 200 eggs, 29 cheeses, 1 cask of turtle, 1 barrel and 1 pad of fish, 1 basket of plaice, 1 barrel of cod-roes, 27 mats of dates, 6 boxes of grapes, 2 boxes of pears, 2,500 oranges, and 106 cocoa-nuts.

At Billingsgate and Columbia Markets the Fish-meters of the Fishmongers' Company seized and condemned about 287 tons of fish during the year. It consisted of about 232,945 herrings, 171,826 plaice, 167,749 haddocks, 142,270 whittings, 129,050 smelts, 66,660 dabs, 2,900 gurnets, 8,586 thornbacks, 3,457 codfish, 9,105 soles, 19,300 of various descriptions of fish, 7,907 lobsters and crabs, 205 bushels of sprats, 21 bushels of oysters, 235 bushels of periwinkles, 338 bushels of whelks, 216 bushels of mussels, 60 bushels of cockles, 9,603 gallons of shrimps, and 8,879 lbs. of salmon and eels.

Three persons have been convicted during the year

of selling unwholesome food, and they have been punished by fine or imprisonment.

All the Slaughter-houses in the City (38 in number) have been daily inspected, and the Cow-houses (12 in number, with 102 cows) have been periodically visited. I submit, as usual, a list of these places, and

I remain, GENTLEMEN,

Your obedient Servant,

HY. LETHEBY.

GUILDHALL,

December 17th, 1872.

APPENDIX.

No. I.—*Enumeration of Births, Deaths, and Marriages in each of the City Unions for the Year ending September, 1872, and a comparison with the Averages of the last Ten Years.*

QUARTERS ENDING.	EAST LONDON UNION.			WEST LONDON UNION.			CITY OF LONDON UNION.			ENTIRE CITY.		
	Births.	Deaths.	Marriages.	Births.	Deaths.	Marriages.	Births.	Deaths.	Marriages.	Births.	Deaths.	Marriages.
December, 1871	197	186	...	133	132	...	122	195	...	452	513	346
Average of 10 Quarters	258	235	...	161	160	...	186	203	...	605	598	386
March, 1872	221	171	...	111	120	...	140	182	...	472	473	244
Average of 10 Quarters	280	254	...	169	180	...	197	237	...	646	671	327
June, 1872	224	136	...	113	99	...	136	167	...	473	402	285
Average of 10 Quarters	267	224	...	157	154	...	182	191	...	606	569	356
September, 1872	192	154	...	118	92	...	118	128	...	428	374	320
Average of 10 Quarters	246	227	...	148	147	...	178	181	...	572	555	363
Sum of the 4 Quarters	834	647	...	475	443	...	516	672	...	1,825	1,762	1,195
Average of 10 Years.....	1,051	940	...	635	641	...	743	812	...	2,429	2,393	1,432

No. II.—*Annual Enumeration of Births for the Year ending September, 1872.*

BIRTHS IN THE FOUR QUARTERS.	TOTAL.	EAST LONDON UNION.			WEST LONDON UNION.			CITY OF LONDON UNION.					
		Saint Botolph.	Cripple- gate.	Total.	Saint Sephre.	Saint Bride.	Total.	Castle- baynard.	Christ- church.	Queen- hithe.	Allhalls. Barking.	Broad Street.	Total.
		M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.
Quarter ending Decem- ber, 1871	218 234 452	43 47 90	51 56 107	94 103 197	29 27 56	39 38 77	68 65 133	10 11 21	8 9 17	10 9 19	10 15 25	18 22 40	56 66 122
Quarter ending March, 1872	219 253 472	59 61 120	46 55 101	105 116 221	21 26 47	27 37 64	48 63 111	12 13 25	10 6 16	12 16 28	15 10 25	17 29 46	66 74 140
Quarter ending June, 1872	231 242 473	60 63 123	39 62 101	99 125 224	17 14 31	41 41 82	58 55 113	13 11 24	5 16 21	16 8 24	13 12 25	27 15 42	74 62 136
Quarter ending Sep- tember, 1872	215 213 428	51 59 110	42 40 82	93 99 192	19 18 37	36 45 81	55 63 118	14 15 29	7 8 15	18 9 27	15 6 21	13 13 26	67 51 118
Sum of the Four Quar- ters	883 942 1825	213 230 443	178 213 391	391 443 834	86 85 171	143 161 304	229 246 475	49 50 99	30 39 69	56 42 98	53 43 96	75 79 154	263 253 516
Annual Average of the last Ten years	1228 1204 2432	286 272 558	247 248 495	533 520 1053	133 134 267	186 182 368	319 316 635	70 71 141	59 58 117	72 73 145	73 68 141	102 98 200	376 368 744

No. III.—*Annual Enumeration of Deaths for the Year ending September, 1872.*

DEATHS IN THE FOUR QUARTERS.	TOTAL.	EAST LONDON UNION.			WEST LONDON UNION.			CITY OF LONDON UNION.					
		Saint Botolph.	Cripple- gate.	Work- house.	Saint Septhre.	Saint Bride.	Work- house.	Castle- baynard.	Christ Church.	Queen- hithe.	Allhalls. Barking.	Broad Street.	Work- house.
	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.
Quarter ending Decem- ber 1871	260 253 513	46 51 97	41 39 80	6 3 9	18 22 40	34 35 69	12 11 23	9 8 17	9 8 17	21 15 36	13 13 26	33 23 56	18 25 43
Quarter ending March, 1872.....	255 218 473	38 45 83	39 38 77	9 2 11	18 19 37	38 22 60	15 8 23	5 4 9	8 7 15	14 13 27	16 11 27	27 23 50	28 26 54
Quarter ending June, 1872.....	206 196 402	33 33 66	32 30 62	2 6 8	12 11 23	29 34 63	7 6 13	8 6 14	7 10 17	16 8 24	11 14 25	19 13 32	30 25 55
Quarter ending Septem- ber, 1872	202 172 374	44 41 85	31 35 66	0 3 3	15 12 27	26 20 46	12 7 19	7 5 12	6 9 15	11 6 17	11 12 23	16 10 26	23 12 35
Sum of the Four Quar- ters	923 839 1762	161 170 331	143 142 285	17 14 31	63 64 127	127 111 238	46 32 78	29 23 52	30 34 64	62 42 104	51 50 101	95 69 164	99 88 187
Annual Average of the last Ten years	1242 1151 2393	209 212 421	207 195 402	58 59 117	112 95 207	162 150 312	70 52 122	59 56 115	55 49 104	71 62 133	80 58 138	86 85 171	73 78 151

No. IV.—*Classification of Deaths in the City Unions according to Age, for the Year ending September, 1872, and a comparison with the Averages of the last Ten Years.*

CITY DISTRICTS.	TOTAL.	Under 1.	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 and over.
EAST LONDON UNION, 1872	647	150	266	20	9	13	38	33	60	58	71	79
Average of Ten Years.....	940	188	385	39	14	18	53	66	81	83	97	104
WEST LONDON UNION, 1872	443	91	164	15	5	7	15	32	39	38	45	83
Average of Ten Years.....	641	120	240	24	11	14	39	54	58	65	65	71
CITY OF LONDON UNION, 1872	672	76	144	13	12	8	46	55	70	86	110	128
Average of Ten Years.....	812	114	229	30	16	19	51	57	79	89	111	131
ENTIRE CITY, 1872	1,762	317	574	48	26	28	99	120	169	182	226	290
Average of Ten Years.....	2,393	422	854	93	41	51	143	177	218	237	273	306

No. V.—*Classification of Deaths according to Causes, during the Year 1872 ; and a comparison with the Averages of the last Ten Years.*

CITY DISTRICTS AND POPULATION IN 1861.	Violence, Privation, Premature Birth, and Poison	Tubercular Diseases			Convulsions and Teething.	Zymotic Diseases.										Pneumonia, Bronchitis, and Asthma.	Others, chiefly chronic.	TOTAL.
		Phthisis.	Tubercles and Scrofula.	Hydrocephalus.		Alvine Flux.		Continued Fever.	Scarlet Fever.	Small Pox.	Measles.	Whooping Cough, Croup, & Diphtheria.	Erysipelas.					
						Adults.	Children.											
EAST LONDON UNION } 1872 (Population 27,883)	42	72	40	10	41	3	19	12	5	10	23	46	5	110	209	647		
	Average	44	120	62	20	57	12	32	41	42	12	27	53	6	147	265	940	
WEST LONDON UNION } 1872 (Population 18,815)	28	57	27	8	31	4	10	7	2	13	11	21	6	80	138	443		
	Average	45	83	42	12	35	6	17	23	23	7	17	28	4	107	192	641	
CITY OF LONDON } 1872 UNION (Population 29,906)	50	105	21	6	25	5	10	9	2	3	6	19	5	136	270	672		
	Average	57	107	37	10	43	10	13	30	29	6	15	35	4	129	287	812	
ENTIRE CITY } 1872 (Population 76,604)	120	234	88	24	97	12	39	28	9	26	40	86	16	326	617	1762		
	Average	146	310	141	42	135	28	62	94	94	25	59	116	14	383	744	2393	

No. VI.—*Meteorology of the City of London for each Month in the Year ending in September, 1872, from Observations at the Engineer's Office, Guildhall, under the direction of Mr. Haywood.*

1871-72. MONTHS.	Barometer.			Dry Thermometer.				Wet Thermometer or Hygrometer.						Rain Gauges.					
	Mean Pressure.	Highest Pressure.	Lowest Pressure.	Mean Temperature.	Highest Temperature.	Lowest Temperature.	Mean Daily Range.	Mean Temperature.		Dew Point.	Degree of Humidity.	Weight of vapour in cubic foot of air.	Vapour required to saturate foot of air.	Total Fall.		Greatest Fall.		Lowest Fall.	
								Dry Bulb.	Wet Bulb.					On Grnd.	51 ft. above Grnd.	On Grnd.	51 ft. above Grnd.	On Grnd.	51 ft. above Grnd.
Inches.	Inches.	Inches.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Grns.	Grns.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	
October ...	29.899	30.496	29.284	52.5	63.0	40.4	10.2	52.5	49.5	46.5	74	3.3	1.1	1.66	1.66	0.43	0.43	0.01	0.01
November ..	29.875	30.386	29.450	40.9	51.5	30.7	7.2	40.9	38.3	35.0	80	2.4	0.6	0.38	0.37	0.17	0.17	0.02	0.02
December...	29.944	30.478	29.344	41.2	51.0	28.0	6.6	41.2	39.5	37.4	87	2.6	0.4	0.98	0.95	0.40	0.40	0.03	0.03
January ...	29.226	30.128	29.606	43.7	53.0	36.0	10.8	43.7	43.0	42.1	94	3.1	0.1	3.26	3.24	0.44	0.42	0.02	0.02
February ...	29.648	30.068	29.438	46.8	55.0	38.5	10.5	46.8	44.7	42.4	85	3.1	0.5	0.85	0.85	0.19	0.19	0.02	0.02
March	29.572	30.158	29.158	45.7	60.0	31.3	9.6	45.7	43.2	39.4	82	2.9	0.7	2.16	2.11	0.39	0.39	0.01	0.01
April	29.691	30.310	29.004	49.3	68.2	37.0	12.8	49.3	45.4	41.2	74	2.9	1.0	1.23	1.18	0.24	0.25	0.01	0.01
May	29.793	30.218	29.206	52.6	70.0	38.0	11.8	52.6	47.7	42.8	69	3.1	1.3	2.85	2.75	0.64	0.64	0.02	0.02
June	29.646	30.032	29.400	60.5	84.0	48.0	13.8	60.5	55.3	50.8	70	4.1	1.6	1.70	1.66	0.24	0.23	0.01	0.01
July	29.674	30.096	29.536	66.1	88.0	54.0	14.9	66.1	60.4	55.8	70	4.9	2.1	3.11	3.15	0.91	0.88	0.04	0.04
August	29.712	30.162	29.300	62.0	78.0	52.6	12.8	62.0	56.9	52.5	71	4.4	2.1	2.38	2.36	0.72	0.72	0.01	0.01
September..	29.592	30.176	29.168	59.3	77.0	42.0	11.1	59.3	55.3	51.7	76	4.3	1.3	1.37	1.37	0.26	0.26	0.02	0.02

Barometer.—The highest readings were on October 13, November 20, December 8, January 12, February 22, March 11, April 6, May 1, June 17, July 4, August 28, September 13. The lowest readings were on October 2, November 8, December 28, January 24, February 24, March 30, April 22, May 7, June 10, July 30, August 7, September 24.

Temperature.—The highest were on October 18, November 1, December 19, January 4, February 11, March 6, April 12, May 29, June 18, July 25, August 18, September 3. The lowest were on October 24, November 20, December 8, January 10, February 28, March 25, April 20, May 13, June 7, July 1, August 13, September 23.

Rain.—The greatest fall on October 1, November 14, December 26, January 23, February 22, March 29, April 2, May 18, June 22, July 24, August 8, September 25. The least fall on October 8, November 24, December 27, January 26, February 12, March 25, April 22, May 4, June 12, July 9, August 10, September 10.

H. G. HAYWOOD,
For W. HAYWOOD.

No. VII.—Account of the Sanitary Work performed in the City during the Year 1872, and comparison with the Averages of the last Five Years.

QUARTERS ENDING	Number of Houses Inspected.	Number of Houses requiring Amendment.	Total Number of Orders issued for Sanitary Improvement.	PARTICULARS OF THE ORDERS ISSUED.												Number of Ships Inspected.	Number of Orders issued for Improvement of Ships.
				For Cleansing and Lime-whiting Rooms.	For Erecting and Repairing Dustbins.	For Paving Cellars and Yards.	For Amending the Water Supply.	For Removing Cesspools.	For Amending Sinks and Drains.	For Removing Waste-Water.	For Cleansing and Repairing Privies.	For Improving the Ventilation.	For Abating Smoke.	For Removing Animals Improperly Kept.	Sundry other Sanitary Orders.		
December, 1871	5645	406	649	254	4	14	28	2	82	38	146	7	2	3	69	381	4
Average	5069	503	756	356	17	22	68	3	87	16	113	0	4	2	70	466	20
March, 1872	6184	340	441	146	4	13	13	7	109	19	110	0	4	6	15	536	8
Average	6251	760	1102	578	19	53	93	4	108	21	193	1	1	7	47	520	17
June, 1872	3282	312	386	119	3	6	16	6	116	16	53	0	0	1	17	630	2
Average	5270	999	1638	1108	17	27	77	5	101	18	238	3	7	4	38	514	10
September, 1872.....	4673	350	482	142	1	17	12	11	95	16	168	1	3	0	15	250	6
Average	5964	634	947	550	13	30	47	5	102	23	136	1	8	3	31	517	8
Entire Year.....	19784	1408	1958	661	12	50	69	26	402	89	977	8	9	4	116	1797	20
Average	22554	2896	4443	2592	66	132	285	17	398	78	680	5	20	16	186	2017	55

Total number of Houses inspected in 1872..... 19,784
Average „ „ „ 10 years 16,415

Requiring Amendment 1,408
Average „ 2,796

No. VIII.— *Quarterly Account of the Meat Condemned in the City Markets during the Year 1872, and comparison with the Averages of the last Ten Years.*

QUARTERS ENDING.	WHERE CONDEMNED, AND WHY CONDEMNED.															
	New Meat Market.				Aldgate Market.				Leadenhall Market.				Total.			
	Dead.	Dis-eased.	Putrid.	Total.	Dead.	Dis-eased.	Putrid.	Total.	Dead.	Dis-eased.	Putrid.	Total.	Dead.	Dis-eased.	Putrid.	Total.
December, 1871	lbs. 3219	lbs. 16601	lbs. 5354	lbs. 25174	lbs. 584	lbs. 650	lbs. 319	lbs. 1553	lbs. —	lbs. —	lbs. —	lbs. —	lbs. 3803	lbs. 17251	lbs. 5673	lbs. 26727
Average 10 Years	6260	20327	7920	34507	585	1568	141	2294	458	2586	2001	5045	7303	24481	10062	41846
March, 1872	3446	16748	1915	22109	381	1577	70	2028	—	—	200	200	3827	18325	2185	24337
Average 10 Years	3772	24282	4056	32110	417	1727	199	2343	570	2569	2391	5537	4759	28578	6653	39990
June, 1872	6285	22591	41411	70287	472	116	—	588	—	—	—	—	6757	22707	41411	70875
Average 10 Years	6120	20992	14919	42031	681	1817	250	2748	541	3902	2990	7433	7342	26711	18159	52212
September, 1872.....	4332	15245	52252	71829	290	535	90	915	—	400	439	839	4622	16180	52781	73583
Average 10 Years	3034	20337	38114	61485	797	2920	1102	4819	756	1679	7638	10073	4587	24936	46854	76377
Entire Year.....	17282	71185	100932	189399	1727	2878	479	5084	—	400	639	1039	19009	74463	102050	195522
Average of 10 Years.....	19186	85938	65009	170133	2480	8032	1692	12204	2325	10736	15027	28088	23991	104706	81728	210425

It consisted of 913 Sheep and Lambs, 108 Calves, 380 Pigs, 736 Quarters of Beef, 2,760 Joints of Meat; besides 3,149 Plucks, 12 Baskets and Barrels of Plucks, Kidneys, and Melts, 1,572 Kidneys, 51 Hams, 190 Sides and Pieces of Bacon, 4 Barrels of Pork, 17 Pigs' Chaps, 35 Tongues, 35 Ox Tails, 1 Cask of Turtle, 1 Barrel and 1 Pad of Fish, 1 Basket of Plaice, 1 Barrel of Cods' Roes, 2 Goats, 12 Fawns, 100 Quarters and Pieces of Venison, 142 Hares, 5 Boxes and Cases and 644 Rabbits, 2,146 head of Game and Poultry, 1 Box of Plovers' Eggs, 2 Hampers and 200 Eggs, 29 Cheeses, 27 Mats of Dates, 6 Boxes of Grapes, 2 Boxes of Pears, 2,500 Oranges, 106 Cocoa Nuts, &c., &c.

No. IX.—*Quarterly Account of the Fish Condemned by the Fish-Meters in Billingsgate and Columbia Markets, during the Year 1872.*

	Quarter ending Dec. 1871.	Quarter ending Mar. 1872.	Quarter ending June 1872.	Quarter ending Sept. 1872.	Entire Year.
Dabs	2,940	600	8,420	54,700	66,660
Plaice	48,274	4,412	24,659	94,481	171,826
Whiting	100,390	1,980	11,800	28,100	142,270
Gurnets	...	2,400	...	500	2,900
Haddocks	63,133	7,418	7,686	89,512	167,749
Herrings	70,210	61,415	10,500	90,820	232,945
Thornbacks	951	534	5,102	1,999	8,586
Smelts	25,800	63,700	35,850	3,700	129,050
Cod	183	757	163	2,354	3,457
Soles	785	772	1,428	6,120	9,105
Various Fish	1,605	632	13,502	3,563	19,302
Lobsters and Crabs	613	528	1,884	4,882	7,907
Total	314,884	145,148	120,994	380,731	961,757
Sprats (bushels)	182	23	...	...	205
Oysters "	10	9	2	...	21
Periwinkles "	...	2	147	86	235
Whelks "	85	...	186	67	338
Mussels "	42	...	106	68	216
Cockles "	60	32	...	6	98
Shrimps (gallons)	3,195	168	1,566	3,174	9,603
Prawns (lbs.)	50	...	30	55	135
Salmon "	...	...	1,168	...	1,168
Eels... .. "	...	...	6,235	1,341	7,576

The total weight of the condemned fish amounted to 286 tons and 15 cwt.

No. X.—*List of Slaughter-houses in the City of
London, 1872.*

EAST DISTRICT.						WEST DISTRICT.					
No. 44, Aldgate High Street						No. 70, Fetter Lane					
45,	"	"				117,	Fore Street				
46,	"	"				4,	Hosier Lane				
48,	"	"				4,	Warwick Lane				
51,	"	"				6,	"	"			
52,	"	"				10,	"	"			
53,	"	"				6,	Newgate Market				
55,	"	"				25,	"	"			
56,	"	"				26,	"	"			
57,	"	"				27,	"	"			
58,	"	"									
59,	"	"									
60,	"	"									
62,	"	"									
66,	"	"									
67,	"	"									
68,	"	"									
68,	"	"									
68,	"	"									
68,	"	"									
69,	"	"									
70,	"	"									
73,	"	"									
74,	"	"									
75,	"	"									
No. 53, Minories											
123, Bishopsgate Street											
Gun Yard, Norton Folgate											
East District						...	...	...	...	...	28
West "						...	...	...	...	...	10
						Total		...	...		38

No. XI.—*List of Cow-houses in the City of London, and Number of Cows kept.* 1872.

EAST DISTRICT.			WEST DISTRICT.		
Name of Owners.	Situation.	No. of Cows.	Name of Owners.	Situation.	No. of Cows.
M. Andrews	Middlesex Place	10	A. Pettit	119, Aldersgate Street. . . .	12
B. Smith	Garden Court	5	C. Phillips	New Street Hill	3
T. Davies	St. James' Place.	5	T. Rowland	Bartholomew Close.	8
J. Roberts.	Half Moon Mews	3	Alfred Pettit	Bridgewater Square	17
M. Evans	Widegate Street.	11	M. Elmes	" "	7
R. Halfyard	Catherine Wheel Alley	6			
G. Griffiths	Gravel Lane	15			
No. of Cow-houses 7	No. of Cows	55	No. of Cow-houses 5	No. of Cows	47

Total Cow-houses 12

Total No. of Cows 102

