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REPORT

OF THE

HEALTH OF LIVERPOOL

DURING THE YEAR 1880,

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Medical Officer of Health for the City and Port.

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1881.

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CENSUS, 1881.

THE Superintendent Registrars have kindly furnished returns of the Census taken on the night of April 3rd, 1881, which are exclusive of returns sent direct to the Registrar-General. The increase of the population in the decade is 55,244, raising the total population within the Municipality to 548,649. If to this be added the increase of three months (which will give the number used in calculating the death rate), the population at the middle of the year will be 550,110, whilst the estimated population was 549,834. Inhabited houses have increased 13,896 since the Census of 1871, and the average number of persons per house is 5·9 against 6·3 in 1871, and 6·7 in 1861. The increase of population and houses has taken place in the Out Townships, the Parish or Old Borough having decreased from 238,411 to 207,132, and inhabited houses from 34,293 to 31,678. The number of dwelling-houses erected during the ten years has been 18,653, and pulled down 2,927, giving an increase of dwellings of 15,736. Uninhabited houses have increased from 8,532 in 1871 to 10,381; and there are also many houses, which are now used only for business purposes, of which there are no record.

The number of deaths in the ten years—1871 to 1880—was 147,605; whilst in the ten previous years—1861 to 1870—there were 156,205, being a decrease of 8,600 deaths, notwithstanding the increase of population, reducing the death rate from the previous decade 33· per 1000 persons living to 28·5 per 1000 for the present. This decrease has been progressive, and is satisfactory evidence of the improved health of the people. The death-rate for the five years—1871 to 1875—was 29·5, and from 1876 to 1880, 27·5. The appended table shows a very satisfactory decrease in the number of deaths from zymotic diseases, and of children under five years of age.

The epidemic periods during the decade have been the year 1871, when smallpox of a virulent type prevailed, following the introduction of the disease by Spanish sailors, when 1,919 persons died; 1874, scarlatina caused 1911 deaths; 1876, smallpox caused this year 386 deaths, and the following year, 1877, 299 deaths; and during the year 1878 scarlatina and measles were general, the former causing 947, and the latter 444 deaths.

Years.	Births.	Birth-rate per 1,000.	Deaths.	Death-rate per 1,000.	Deaths from Zymotic Causes.	Per-centage of Zymotic Deaths to Deaths from all Causes.	Deaths of Children below 5 years of age.	Percentage of Deaths under 5 years to Total Deaths.
1861 to 1870	..	..	156,205	33·0	45,814	29·3	76,115	48·7
1871 ,, 1880	199,092	38·3	147,605	28·5	34,966	23·7	69,403	47·0
1871 ,, 1875	96,094	38·0	74,457	29·5	19,368	26·0	35,140	47·2
1876 ,, 1880	102,998	38·7	73,148	27·5	15,598	21·3	34,263	46·8

RETURNS OF CENSUS, 1881 AND 1871.

1881.

District.	Population.	HOUSES.		
		Inhabited.	Uninhabited.	Building.
Parish of Liverpool	207,132	31,678	4,099	..
Everton	109,788	19,116	1,907	87
Kirkdale	57,668	9,780	748	187
West Derby.....	67,703	12,741	1,372	190
Toxteth Park	106,358	18,984	2,255	232
City	548,649	92,299	10,381	696

1871.

District.	Population.	HOUSES.		
		Inhabited.	Uninhabited.	Building.
Parish of Liverpool	238,411	34,293	4,310	91
Everton	90,937	16,339	1,722	230
Kirkdale	32,978	5,220	370	141
West Derby.....	50,687	9,177	839	39
Toxteth Park	80,392	13,374	1,291	91
City	493,405	78,403	8,532	592

REPORT, 1880.

THE returns furnished by the Registrars of Births and Deaths for the fifty-two weeks of the year 1880 included 20,783 births and 14,811 deaths, giving a natural increase of 5,972 to the population, being 194 more than the estimated increase between the years 1880 and 1881.

The growth of large towns arises from two causes—the natural increase and immigration, of which we have no returns; and as this is the tenth year since the census of 1871, the estimated population, 544,056, can only be considered approximate, and when the estimated increase or decrease in divisions or wards of the City are calculated the numbers estimated will be liable to errors.

The meteorological conditions of the early months of the year were favourable to health, the temperature being above the average. In the first quarter the number of deaths was 3,619, and in the corresponding quarter of 1879, when the temperature was below the average, there were 4,413 deaths, chiefly from pulmonary disease; in the second quarter there were 3,530 deaths against 3,163 in the corresponding quarter of the previous year. The greatly increased temperature of the third quarter caused a large mortality amongst infants and the total number of deaths registered was 4,091, whilst in the same quarter of the previous year, when the temperature was very low, the number of deaths was 2,875, or 1,216 fewer. The daily meteorology of these months, and the number of deaths from diarrhœa are fully set out in the report. The Local Government Board, having been impressed with the great increase of deaths from diarrhœa in the large towns, communicated with the Health Committee, and the Medical Officer submitted the following report on

SUMMER DIARRHŒA IN 1880.

Epidemic or summer diarrhœa is classed as a zymotic disease, and is notably a disease of towns, chiefly affecting children, more particularly infants under one year of age. It has been very prevalent during the third quarter of this year, though its periods of greatest mortality have varied very considerably in different towns, arising no doubt from the difference in the local meteorological conditions. The disease attained its maximum mortality in Brighton as early as the week terminating July 21st, in London and Portsmouth, August 7th, Liverpool, September 11th, and the latest in Bristol, September 25th.

The annual death-rate per one thousand of the population, during the three months, varied from 2·4 in Bristol to 6· in Liverpool, 6·1 in Birmingham and Leeds, 6·5 in Sheffield, 6·8 in Norwich, 8· in Hull, 8·8 in Salford, and 10·6 in Leicester.

The number of deaths in Liverpool was 813, of which 462 were under one year of age, 317 above one and under five, and 34 above five years. The greatest percentage of deaths of children under one year of age, relatively to the number of registered births, was in Vauxhall ward 15·4, whilst in Scotland Ward it was 13·, Kirkdale 11·8, and the lowest, 6·4, in West Derby Ward. The accompanying table shows the number of deaths in each ward during each of the thirteen weeks, and the map shows the localities of the deaths.

In endeavouring to ascertain the cause of the increase of the disease over the corresponding period of last year, it may be confidently stated that, so far as the action of the Health Committee was concerned, the City was in as favourable a state to contend against disease as in the previous year, but the meteorological conditions were entirely different. In the Medical Officer's report for 1879, it is remarked "that the cold and stormy summer had a beneficial effect in lessening the number of deaths from diarrhœa, which were fewer than ever recorded in Liverpool," and a table is appended comparing the high temperature of 1878, when 800 deaths occurred, and the low temperature of 1879, when there were only 216 deaths. The effect of a high temperature is also illustrated by the table, attached to this report, which shows that, during the first week in July, terminating on the 10th with a temperature of 57·9, there were 16 deaths; as the temperature rose so did the number of deaths increase, until the week terminating September 4th, when the average mean temperature was 66·1 and the number of deaths 109; though the mean temperature of the following week fell to 60·3, the number of deaths rose to 112, the fatal effect of the great heat of the previous week being then felt.

Heat by itself will not produce diarrhœa, but acting upon organic matter it promotes decomposition, filling the atmosphere with noxious emanations, which, with the exhalations from a crowded population, envelopes as in a fog the ill-ventilated parts of the City. Whether any specific organisms are produced or their growth and productiveness fostered under the influence of a high temperature has not been decided, but neither heat nor dirt alone will produce diarrhœa, but, combined, the result is certain.

An important element to be considered, where there is a high infantile mortality, is the birth-rate, which supplies the material most favourable for disease. In the year 1879 only four of the large towns had a higher birth-rate than Liverpool, and three of them—Hull, Birmingham, and Salford—had this year a higher death-rate from diarrhœa. During the third quarter of this year the birth-rate in Liverpool was higher than in any of the large towns, but the above-named towns, with Sheffield, Norwich, Leeds, and Leicester, had a higher proportional mortality.

Though the disease was general over the whole City, yet, on reference to the map, the greatest mortality will be found in those districts where the houses are most crowded together and the population most dense. The consequence of those insanitary conditions is reflected in the general high rate of infantile mortality which prevails in these localities, and it can be no matter of surprise that, when diarrhœa prevails, the enfeebled constitutions and lowered vitality of the children render them unable to cope with the disease, and they sink into early graves.

The system of sub-letting houses greatly aggravates the evil, and is causing districts once comparatively healthy to be now the constant homes of disease, and the Medical Officer regrets to state that this practice is extending and deteriorating the physical and moral condition of the people. The cause, no doubt, in the first instance, arose from poverty, but it has now become a general custom, and is in too many cases the origin as well as the consequence of improvidence.

The neglect and indifference with which children are treated in some of these houses is painful to witness, and that large numbers of them die can excite no surprise, for the wonder is that any of them survive.

The following table shows the localities of the deaths from Diarrhœa during the third quarter, and on the map are marked the localities of the deaths during the whole year:—

DIARRHŒA.

WARDS.	Births during the Quarter.	WEEK ENDING July 10	July 17	July 24	July 31	August 7	August 14	August 21	August 28	September 4	September 11	September 18	September 25	Oct. 2	Total.	Percentage of Deaths from Diarrhœa under 1 Year to Births.
		MEAN TEMPERATURE.														
		57·9	60·9	60·0	59·7	60·8	63·8	62·4	62·5	66·1	60·3	56·1	56·3	56·0		
		DEATHS FROM DIARRHŒA (UNDER 1 YEAR).														
Scotland	692	4	1	3	3	4	9	8	16	12	13	7	7	3	90	13·0
Vauxhall	117	1	..	..	..	1	3	1	3	3	3	3	..	..	18	15·4
St. Paul's and Exchange	178	1	..	1	..	1	1	1	3	1	2	..	1	1	13	7·3
St. Anne's and Lime Street	246	..	1	2	2	2	4	..	2	4	1	1	1	1	21	8·5
Castle Street and St. Peter's	38	..	..	..	..	..	1	..	..	1	..	..	1	..	3	7·9
Pitt Street and Gt. George	150	..	..	1	1	..	..	..	2	..	2	2	1	1	10	6·7
Rodney Street and Abercromby	375	2	..	..	4	4	..	2	1	5	1	2	3	2	26	6·9
Everton	1076	..	5	2	2	9	7	14	14	17	11	7	7	2	97	9·0
Kirkdale	569	..	1	1	2	9	4	6	12	10	7	8	7	..	67	11·8
West Derby	652	..	1	..	2	2	6	6	6	6	3	8	..	2	42	6·4
Toxteths	984	1	2	3	4	7	6	10	9	10	7	7	7	2	75	7·6
		DEATHS FROM DIARRHŒA (BETWEEN 1 AND 5 YEARS).														
Scotland		1	1	2	..	5	6	5	7	14	17	14	8	6	86	
Vauxhall		..	..	..	2	1	..	3	1	2	2	4	3	2	20	
St. Paul's and Exchange		..	..	1	1	2	1	..	1	1	2	2	1	1	13	
St. Anne's and Lime Street		..	..	..	..	1	3	3	4	3	4	1	4	1	24	
Castle Street and St. Peter's		..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pitt Street and Gt. George		..	..	..	..	..	..	..	..	1	1	3	3	..	8	
Rodney Street and Abercromby		..	1	..	..	1	..	..	..	1	..	1	2	1	7	
Everton		1	1	3	4	2	3	2	4	5	14	10	3	2	54	
Kirkdale		..	1	2	1	2	..	2	2	3	4	5	6	4	32	
West Derby		2	1	2	1	2	3	2	1	1	5	1	2	1	24	
Toxteths		2	..	..	6	4	1	2	2	3	9	7	6	7	49	
		DEATHS FROM DIARRHŒA (ABOVE 5 YEARS).														
Scotland		1	..	..	..	..	..	1	..	..	1	1	..	1	5	
Vauxhall		..	..	..	..	..	..	..	..	..	..	1	..	..	1	
St. Paul's and Exchange		..	..	..	..	..	..	..	..	1	..	..	..	..	1	
St. Anne's and Lime Street		..	..	..	..	..	..	..	..	1	..	..	..	..	1	
Castle Street and St. Peter's		..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pitt Street and Gt. George		..	..	..	..	..	..	..	..	..	..	1	..	..	1	
Rodney Street and Abercromby		..	1	..	..	..	..	..	..	..	..	3	..	..	4	
Everton		..	..	..	..	..	1	..	2	..	1	..	1	..	5	
Kirkdale		..	1	..	1	..	..	..	2	1	1	..	1	..	7	
West Derby		..	..	1	..	..	1	..	..	1	..	..	..	..	3	
Toxteths		..	..	..	..	..	1	1	1	2	1	..	..	..	6	
Total Deaths from Diarrhœa		16	18	24	36	59	61	69	95	109	112	99	75	40	813	

DIARRHŒA.

1878	No. of Deaths.	Mean Temperature.	Rainfall in Inches.	Wind. Mean Velocity in Miles.	1879	No. of Deaths.	Mean Temperature.	Rainfall in Inches.	Wind. Mean Velocity in Miles.	1880	No. of Deaths.	Mean Temperature.	Rainfall in Inches.	Wind. Mean Velocity in Miles.
June ..	42	59·0	2·961	218	June ..	21	56·3	3·515	369	June ..	31	57·1	2·423	355
July ..	310	61·7	1·075	284	July ..	10	57·1	2·921	464	July ..	104	59·5	4·687	321
Aug. ..	370	61·7	4·250	314	Aug. ..	100	58·2	6·211	421	Aug. ..	343	62·6	1·513	253
Sept. ..	120	57·2	4·146	354	Sept. ..	106	55·0	3·083	350	Sept. ..	370	58·8	2·909	314
Oct.....	33	51·0	2·375	399	Oct.....	42	49·3	1·155	379	Oct.....	97	45·6	4·659	356

The above table illustrates the effect of temperature in this and the previous two years, showing the variation of date of maximum death-rate to be concurrent with the greatest heat.

FEVER.

There was a slight increase of deaths from fever registered during the year. 141 deaths were returned as typhoid, gastric, and enteric fever, whilst in the previous year the deaths from the same causes were 129. Typhus caused 87 deaths, being 4 less than in the previous year, the remaining death returns being from fever, continued fever, and febricula.

The following table gives the annual number of deaths from diarrhœa and fever, being the diseases most influenced by sanitary measures :—

Year.	Deaths from Diarrhœa.	Deaths from Fever.	Deaths from Relapsing Fever.
1866	1145	1523	...
1867	796	656	...
1868	1108	841	...
1869	1001	783	...
1870	1151	572	355
1871	1127	701	207
1872	998	451	25
1873	906	335	...
1874	879	449	...
1875	842	490	...
1876	694	398	...
1877	605	382	...
1878	979	375	...
1879	402	248	...
1880	1028	256	...

Two deaths occurred from SMALL POX—one was a girl admitted an inmate of a servants' home, the other was a gentleman who had arrived only a few days previously from London, and in whom the disease was latent. Both cases were removed to hospital.

The deaths from SCARLATINA and MEASLES were below the average, and fewer than in 1879.

When a case of infectious disease is reported, the house is visited and every information and assistance given for the removal of the patient, if desired, and disinfection of the clothing, house, &c. The number of infectious cases reported during the year was 2,786, and 904 patients were removed to hospital, of whom 369 were removed by the Sanitary Officers.

1,463 post cards were sent to the head masters of the various schools informing them that children from infected houses attended their schools; similar information was also given to the School Board.

HOSPITAL ACCOMMODATION FOR INFECTIOUS DISEASE.

For the accommodation and treatment of infectious disease the Select Vestry have a hospital in Brownlow Hill, the West Derby Guardians one in Mill Road, Everton, and the Toxteth Guardians have theirs in Smithdown Road. Patients are admitted into these institutions free of charge. There is also another institution for infectious disease situated in Netherfield Road, supported by voluntary subscriptions and payment by patients, the charges being from 10s. 6d. to £2 2s. per week, according to accommodation. The Corporation contributed £5,000 towards its erection; and owing to the diminishing number of fever cases the funds of the institution were so reduced that further application was made for assistance. In order to extend its usefulness and offer an inducement to the public to avail themselves of its advantages, the Corporation have undertaken to pay an annual sum of £250, provided 25 beds were placed at the disposal of the Medical Officer of Health at the reduced charge of 7s. per week, payable by each patient.

The importance of early isolation of cases of infectious disease cannot be too strongly urged upon the attention of the public as the most effectual measure for limiting the spread of contagion, and the small charge now made will enable many persons to avail themselves of private hospital treatment who hitherto objected to entering parish hospitals. The Medical Officer will be glad to grant certificates of admission for proper cases on application at his office.

OFFENSIVE TRADES.

The number of applications for permission to carry on the different businesses which come under the designation of offensive trades was thirteen, three of which were granted. In every instance the premises were visited and inquiries made as to the proposed method of conducting the processes of manufacture. A business was established without the consent of the Corporation for the preparation of albumen from the serum of blood and the manufacture of manure from blood clots and sulphuric acid; proceedings were commenced against the proprietor, and stayed on condition that a license was applied for to manufacture albumen and an undertaking given that serum only should be brought into the City, and the making of manure given up.

INSANITARY DWELLINGS.

Pursuant to the Liverpool Sanitary Amendment Act, the Medical Officer of Health made a presentment to the Grand Jury at the Quarter Sessions held in August that eighty-nine houses were unfit for human habitation, or in a condition, state, or situation prejudicial to health, and stating that the defects could be remedied by certain structural alterations and improvements, and by the demolition of certain premises, the nature of which was fully set out in each case. The Grand Jury, some of its members having visited the different properties, approved of the presentment, and it is now being carried out by the Corporation.

BRICK BURNING.

A common kiln for the purpose of brick burning having been erected on a piece of vacant land in Lightbody Street, the effluvia from which were complained of by the inhabitants in the neighbourhood as a nuisance, proceedings were taken on the certificate of the Medical Officer, and a conviction obtained.

For the other sanitary work reference is made to the tables.

During the fifty-two weeks of the year 1880 (terminating on Saturday, January 1, 1881), the Returns of the Local Registrars record 20,783 births and 14,811 deaths within the City; the numbers for the corresponding period of the previous year, 1879, were 20,844 births and 14,502 deaths.

Of the births 10,619 were males and 10,164 were females, making the total Birth-rate of the City equal to 38·2 per 1,000, being the exact average of the previous ten years.

The distribution of the births in the different wards and districts of the City has been arranged in the following table :—

BIRTHS.

Districts and Wards.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Births
Parish.	Scotland	352	382	366	336	353	339	339	323	2790
	Vauxhall	73	80	83	59	51	66	66	60	538
	St. Paul's and Exchange	79	70	91	83	100	78	82	74	657
	St. Anne's and Lime Street	131	135	154	147	116	130	140	138	1091
	Castle Street and St. Peter's	25	20	18	23	16	22	18	15	157
	Pitt Street and Gt. George	78	77	80	86	65	85	57	66	594
	Rodney St. & Abercromby	152	193	209	176	190	185	167	169	1441
Out-Townships.	Everton	551	562	592	545	569	507	557	464	4347
	Kirkdale	289	313	326	295	285	284	270	247	2309
	West Derby	341	309	348	339	310	342	351	301	2641
	The Toxteths	552	503	576	555	508	476	543	505	4218
Parish		890	957	1001	910	891	905	869	845	7268
Out-Townships		1733	1687	1842	1734	1672	1609	1721	1517	13515
City		2623	2644	2843	2644	2563	2514	2590	2362	20783

DEATHS.

Of the 14,811 deaths 7,636 were of males, and 7,175 of females; 6,980 occurred in the Parish, and 7,831 in the Out-townships.

The Death-rate of the City was equal to 27·2 per 1,000. The average of the previous ten years was 28·9 per 1,000.

The following table shows the actual number of deaths registered in the Parish and Out-townships, previous to the transference to the districts from whence the patients were removed, of the deaths occuring in the Workhouses and Hospitals. The Death-rate of the Parish was equal to 32·8, and that of the Out-townships to 21·6, per 1,000 of the population.

The deaths occurred in the following districts :—

Districts.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Deaths.
Parish.	Scotland	224	235	262	251	354	296	235	274	2131
	Vauxhall	66	55	62	44	71	66	57	48	469
	St. Paul's and Exchange	87	74	100	76	67	60	68	64	596
	St. Anne's and Lime Street	103	112	115	90	113	112	114	97	856
	Castle Street and St. Peter's	14	9	10	13	24	19	15	6	110
	Pitt Street and Great George	53	59	72	54	54	86	50	71	499
	Rodney Street and Abercromby	84	105	71	90	94	103	97	104	748
	Parish Workhouse and Hospitals	248	168	258	165	208	135	226	163	1571
Out-Townships.	Everton	261	288	276	261	366	349	281	332	2414
	Kirkdale	160	130	159	130	223	201	170	157	1330
	West Derby	174	189	154	151	164	192	161	173	1358
	The Toxteths	308	298	273	266	291	347	241	248	2272
	Out-Township Workhouse and Hospitals	73	42	78	49	60	36	87	32	457
Parish		879	817	950	783	985	877	862	827	6980
Out-Townships		976	947	940	857	1104	1125	940	942	7831
City		1855	1764	1890	1640	2089	2002	1802	1769	14811

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 1,667 of the deaths in these establishments under the wards and districts from whence the patients were removed, viz., 341 under Scotland Ward, 160 under Vauxhall Ward, 131 under St. Paul's and Exchange Wards (Dale Street District), 257 under St. Anne's and Lime Street Wards (Islington District), 31 under Castle Street and St. Peter's Wards (St. George's District), 122 under Pitt Street and Great George's Wards (St. Thomas's District), 160 under Rodney Street and Abercromby Wards (Mount Pleasant District), 190 under the Out-township of Everton, 66 under that of Kirkdale, 99 under that of West Derby, and 110 under those of the Toxteths. This will leave unclassified 229 deaths of persons whose previous residences were either unknown or not specified;

and these, in the absence of definite information, have been placed in the Wards in proportion to the number of total deaths; and 132 who were residents outside the City.

The results of the alterations occasioned by this re-arrangement of the deaths in the wards and districts will be shown in the following table, from which a calculated rate of mortality per 1,000 of the estimated inhabitants has been made; but it must be observed that the estimate of the population of all the districts in the Parish has been made on a rate of decrease which is probably in excess of what is going on.

Districts and Wards.	Annual.	
	Deaths.	Rate per 1000.
Scotland	2511	34·2
Vauxhall	639	43·2
St. Paul's and Exchange	739	37·0
St. Anne's and Lime Street	1131	28·8
Castle Street and St. Peter's	143	25·9
Pitt Street and Gt. George	631	33·4
Rodney Street and Abercromby	922	21·0
Everton	2645	18·2
Kirkdale	1418	22·2
West Derby	1480	21·6
The Toxteths	2420	25·3
Hospitals (Residences outside City)	132	..
City	14811	27·2

The following table shows the natural increase or decrease of population, and the number of births and deaths during the year 1880, in the several districts of the City:—

Districts and Wards.	Births.	Deaths.	Increase.	Decrease
Scotland	2790	2511	279	..
Vauxhall	538	639	..	101
St. Paul's and Exchange	657	739	..	82
St. Anne's and Lime Street	1091	1131	..	40
Castle Street and St. Peter's	157	143	14	..
Pitt Street and Gt. George	594	631	..	37
Rodney Street and Abercromby	1441	922	519	..
Everton	4347	2645	1702	..
Kirkdale	2309	1418	891	..
West Derby	2641	1480	1161	..
The Toxteths	4218	2420	1798	..
City	20783	14679	6104	..
Hospitals (Residences outside City)	..	132	..	..
Total	20783	14811	5972	..

The following table, taken from the Registrar-General's Reports, will enable us to compare the mortality of Liverpool with twenty-two of the larger towns of the United Kingdom:—

TOWNS.	Estimated Population in the middle of the year 1880.	Births in 52 Weeks, ending 1st Jan., 1881.	Deaths in 52 Weeks, ending 1st Jan., 1881.	Annual Rate to 1,000 of Population.		Population on Acre.
				Births.	Deaths.	
London	3664149	132173	81128	36·1	22·1	48·6
Brighton	107321	3207	2094	29·9	19·5	45·6
Portsmouth	134224	4399	2507	32·8	18·7	29·9
Norwich	85827	2948	2113	34·3	24·6	11·5
Plymouth	74993	2353	1837	31·4	24·5	53·8
Bristol	213536	7195	4276	33·7	20·0	48·0
Wolverhampton	75970	2802	1598	36·9	21·0	22·4
Birmingham	394738	15169	8172	38·5	20·7	47·0
Leicester	129912	4830	2988	37·2	23·0	40·6
Nottingham	173627	6419	4339	37·0	25·0	17·4
Manchester	363130	12775	9185	35·2	25·3	84·6
Salford	185786	7102	4786	38·2	25·8	35·9
Oldham	115413	3854	2676	33·4	23·2	24·7
Bradford	197196	6343	4109	32·2	20·8	27·3
Leeds	318929	11346	6688	35·6	21·0	14·8
Sheffield	304938	10723	6410	34·7	21·0	15·5
Hull	149627	5650	3532	37·8	23·6	41·2
Sunderland	116730	4282	2860	36·8	24·5	42·2
Newcastle-on-Tyne	149366	5320	3273	35·6	21·9	27·8
Edinburgh	229839	7505	4928	32·7	21·4	54·8
Glasgow	589598	18773	13278	31·9	22·5	97·7
Dublin	314666	10060	11308	32·0	36·0	31·3
Liverpool	544056	20783	14811	38·2	27·2	104·4

The average age at death of the Inhabitants of the City during the twelve months of the year 1880 was 23 years, in the Parish 25 years, and in the Out-townships 21 years.

WARDS.		Quarters.								Year 1880.		
		First.		Second.		Third.		Fourth.				
		Age in Years.		Age in Years.		Age in Years.		Age in Years.		Age in Years.		
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Both Sexes
Scotland	Avg. Age at Death	23	20	16	17	12	13	16	19	17	17	17
Vauxhall	,,	23	24	20	23	13	17	19	23	19	22	20
St. Paul's	,,	23	28	18	22	4	26	18	25	16	25	21
Exchange	,,	21	28	22	24	18	18	27	26	22	24	23
St. Anne's	,,	17	30	19	15	11	16	23	21	18	21	19
Lime Street	,,	26	27	28	25	13	25	35	23	26	25	25
Castle Street	,,	31	12	48	30	24	71	45	43	37	39	38
St. Peter's	,,	33	42	33	40	25	27	39	39	33	37	35
Pitt Street	,,	18	23	21	31	12	22	29	28	20	26	23
Great George	,,	30	33	27	26	12	20	26	31	24	28	26
Rodney Street	,,	25	31	33	33	21	24	24	35	26	31	28
Abercromby	,,	28	27	31	29	25	21	26	36	28	28	28
Parish Workhouse and Hospitals	,,	39	41	38	36	36	36	37	38	38	38	38
Everton	,,	23	24	18	19	14	18	18	23	18	21	20
Kirkdale	,,	22	26	20	22	16	14	20	19	20	20	20
West Derby	,,	19	26	23	27	16	16	23	26	20	24	22
North Toxteth	,,	20	28	21	28	13	20	22	30	19	27	23
South Toxteth	,,	14	21	20	21	11	19	21	31	17	23	20
Out-Township Workhouse & Hospitals	,,	38	36	39	40	39	37	39	30	39	36	37
Parish	,,	28	29	26	25	19	20	26	27	25	25	25
Out-Townships	,,	20	25	21	24	15	18	22	25	20	23	21
City	,,	24	27	24	24	17	19	24	26	22	24	23

The deaths of Infants below the fifth year of their age amounted to 7,341, and thus comprised 49·6 per cent. of the whole deaths; the average number for the preceding ten years was 7,021, and the average percentage 47·0. The deaths of Infants below one year of age amounted to 3,961, or 19·1 per cent. of all the children born within the City died before attaining the age of twelve months.

The first of the following tables shows the districts where Infantile Mortality was relatively and absolutely greatest, the second table illustrates the influence of age on the death-rate of the City, and the third table places, in one connected view, the pathological history of the death registry.

WARDS.		Quarters.				Annual.	Per Centage of Deaths under 5 years to Total Deaths.
		March.	June.	Sept.	Dec.		
Scotland	Total Deaths..	459	513	650	509	2131	62·1
	Below 5 years..	232	320	473	298	1323	
Vauxhall	Total Deaths..	121	106	137	105	469	55·7
	Below 5 years..	59	55	92	55	261	
St. Paul's	Total Deaths..	98	100	71	71	340	54·7
	Below 5 years..	47	55	48	36	186	
Exchange	Total Deaths..	63	76	56	61	256	51·2
	Below 5 years..	33	39	33	26	131	
St. Anne's	Total Deaths..	143	138	169	145	595	56·0
	Below 5 years..	72	77	109	75	333	
Lime Street	Total Deaths..	72	67	56	66	261	46·0
	Below 5 years..	29	32	36	23	120	
Castle Street	Total Deaths..	9	6	3	4	22	27·3
	Below 5 years..	4	1	1	0	6	
St. Peter's	Total Deaths..	14	17	40	17	88	35·2
	Below 5 years..	5	5	18	3	31	
Pitt Street	Total Deaths..	38	46	50	53	187	46·0
	Below 5 years..	20	19	27	20	86	
Great George	Total Deaths..	74	80	90	68	312	45·5
	Below 5 years..	30	37	50	25	142	
Rodney Street	Total Deaths..	84	74	86	90	334	39·8
	Below 5 years..	30	25	48	30	133	
Abercromby	Total Deaths..	105	87	111	111	414	43·5
	Below 5 years..	45	34	57	44	180	
Parish Workhouse and Hospitals	Total Deaths..	416	423	343	389	1571	15·0
	Below 5 years..	55	73	56	51	235	
Everton	Total Deaths..	549	537	715	613	2414	57·8
	Below 5 years..	271	313	484	327	1395	
Kirkdale	Total Deaths..	290	289	424	327	1330	55·7
	Below 5 years..	132	154	282	173	741	
West Derby	Total Deaths..	363	305	356	334	1358	54·6
	Below 5 years..	185	157	235	164	741	
North Toxteth	Total Deaths..	302	290	335	253	1180	53·1
	Below 5 years..	149	141	218	118	626	
South Toxteth	Total Deaths..	304	249	303	236	1092	59·2
	Below 5 years..	188	142	203	113	646	
Out-Township Workhouse and Hospitals	Total Deaths..	115	127	96	119	457	5·5
	Below 5 years..	11	3	5	6	25	
Parish	Total Deaths..	1696	1733	1862	1689	6980	45·4
	Below 5 years..	661	772	1048	686	3167	
Out-Townships	Total Deaths..	1923	1797	2229	1882	7831	53·3
	Below 5 years..	936	910	1427	901	4174	
City	Total Deaths..	3619	3530	4091	3571	14811	49·6
	Below 5 years..	1597	1682	2475	1587	7341	

AGES.	Quarters.				Annual.	
	March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of population.
Deaths below 1 year of age	818	874	1460	809	3961	7·3
,, between 1 year and 5	779	808	1015	778	3380	6·2
,, ,, 5 ,, 20	261	244	234	286	1025	1·9
,, ,, 20 ,, 60	1197	1084	951	1171	4403	8·1
,, above 60 years	563	520	431	527	2041	3·7
,, at ages unknown	1	..	..	..	1	
,, at all ages	3619	3530	4091	3571	14811	27·2

The Registrars' Returns show that there were 21 deaths (13 of women and 8 of men) at the age of 90 and upwards, viz., 2 males and 6 females at 90, 1 male and 2 females at 91, 2 males and 1 female at 92, 1 male and 2 females at 94, 1 male at 95, 1 female at 96, 1 female at 101, and 1 male at 105.

CLASSES.	Quarters.				Year 1880.
	March.	June.	Sept.	Dec.	
1. Zymotic Diseases	554	628	1323	668	3173
2. Diseases of Uncertain Seat	89	90	114	75	368
3. Tubercular Diseases	492	514	528	473	2007
4. Diseases of Brain, &c.	430	388	393	347	1558
5. ,, of Heart, &c.	214	220	159	199	792
6. ,, of Lungs, &c.	1013	801	556	855	3225
7. ,, of Stomach, &c.	139	165	184	161	649
8. ,, of Kidneys, &c.	59	71	69	73	272
9. Childbirth, Diseases of Uterus, &c.	20	21	15	41	97
10. Rheumatism, Diseases of the Joints, &c.	19	22	22	19	82
11. Diseases of the Skin, Cellular Tissue, &c.	16	12	11	12	51
12. Malformations	10	4	16	13	43
13. Premature Birth	66	68	57	65	256
14. Atrophy and Debility	204	211	336	213	964
15. Old Age	103	130	126	124	483
16. Privation, Cold, &c.	1	2	2	1	6
17. Inquests	182	177	176	216	751
Causes not specified	8	6	4	16	34
All Causes	3619	3530	4091	3571	14811
Total Zymotics	554	628	1323	668	3173
Smallpox	..	..	1	1	2
Measles	137	87	42	17	283
Scarlatina	101	82	84	198	465
Hooping Cough	96	241	213	113	663
Diarrhœa	35	65	813	115	1028
Fever	54	50	70	82	256

ZYMOTICS.

This class of diseases occasioned 3,173 deaths during the year 1880, and accounted for 21·4 per cent. of the total mortality within the City during the same period. The average number of deaths from these diseases for the preceding ten years was 3,652, and the percentage death rate for 1880 was 2·7 per cent. less than the proportional rate of zymotic deaths to deaths from all causes during the preceding decennial period. The following table shows the localities and the periods of their fatal prevalence :—

WARDS, &c.	Deaths from all Causes.	ZYMOTICS.				
		Quarters.				Per Centage of Zymotic Deaths to Deaths from all Causes.
		March.	June.	Sept.	Dec.	
Scotland	2131	60	128	282	122	27·8
Vauxhall	469	25	24	61	26	29·0
St. Paul's	340	16	28	26	19	26·2
Exchange	256	13	21	15	7	21·9
St. Anne's	595	18	30	66	25	23·4
Lime Street	261	8	6	21	7	16·1
Castle Street	22	3	..	..	1	18·2
St. Peter's	88	1	1	10	1	14·8
Pitt Street	187	6	6	13	9	18·2
Great George	312	11	15	32	13	22·8
Rodney Street	334	12	12	21	11	16·8
Abercromby	414	17	13	33	18	19·6
Liverpool Workhouse Hospital	1156	43	34	26	33	11·8
Royal Infirmary	267	..	..	..	4	1·5
Children's Infirmary	33	..	1	1	1	9·1
Lying-in Hospital	11	..	..	3	..	27·3
North Hospital	104	..	..	1	..	1·0
Stanley Hospital	42	..	..	..	..	..
Royal South Hospital	177	2	1	1	2	3·4
Netherfield Road Hospital	16	3	1	5	5	87·5
West Derby Union Hospital	222	6	13	14	14	21·2
Everton	2414	79	99	236	131	22·6
Kirkdale	1330	42	58	146	88	25·1
West Derby	1358	70	43	124	48	21·0
North Toxteth	1180	53	50	90	31	19·0
South Toxteth	1092	66	44	96	52	23·6
Parish	6980	233	319	611	297	20·9
Out-Townships	7831	321	309	712	371	21·9
City	14811	554	628	1323	668	21·4

FEVER.

Fever accounted for 256 deaths within the City of Liverpool, or for 124 in the Parish and 132 in the Out-Townships. (The average number of deaths for the preceding ten years was 440). The rate of its mortality was equal to 0·5 per 1,000 of the estimated population. Its percentage rate relatively to deaths from all causes was 1·5 during the first, 1·4 during the second, 1·7 during the third, and 2·3 during the fourth quarter of the year. Its annual rate relatively to deaths from all causes

was 1·7 per cent., and relatively to deaths from zymotic causes 8·1 per cent. Its deaths included 141 males and 115 females; 81 persons below the age of 15, 66 between the ages of 15 and 30, and 109 above the age of 30.

Under the term Fever every form of continued fever is included; but the registers of deaths attribute 7 cases to gastric fever, 96 to typhoid fever, 38 to enteric fever, 6 to continued fever, 2 to low fever, 87 to typhus, 13 to fever, and under that of febricula 7 deaths.

The following tables are in themselves sufficiently explanatory. The first compares the averages of deaths from fever during the preceding ten years with those during 1880; the second and third tables show the districts of the town and the periods of the year in which all forms of continued fever were most fatally prevalent; the fourth marks in streets the habitats of the disease; and the remaining tables the occupations and positions of its victims.

WARDS.	Exact Average of Fever Deaths for Preceding Ten Years.	Deaths from Fever during the Year 1880.
Scotland	53	30
Vauxhall	11	6
St. Paul's	7	8
Exchange	5	6
St. Anne's	21	12
Lime Street	7	3
Castle Street	1	1
St. Peter's	3	1
Pitt Street	5	1
Great George	9	2
Rodney Street	6	6
Abercromby	10	5
Everton	77	26
Kirkdale		16
West Derby	23	20
North Toxteth	22	16
South Toxteth	24	12
Hospital Deaths	156	85
Total	440	256

In the above table the averages have been calculated without making allowance for increase of population.

DEATHS FROM FEVER DURING THE YEAR 1880.

Wards.	January.				February.				March.				Apl	Quarter.	April.			May.					June.				Jly.	Quarter.
	10	17	24	31	7	14	21	28	6	13	20	27	3		10	17	24	1	8	15	22	29	5	12	19	26	3	
Scotland	2	1	1	1	1	3	1	..	3	1	1	..	1	16	..	..	1	1	..	..	1	..	1	..	..	..	..	4
Vauxhall	..	..	..	..	..	..	1	..	..	.	..	1	..	2	2	..	..	..	..	1	1	..	..	1	1	..	..	6
St. Paul's	..	..	1	..	..	..	1	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	1	1	1	..	..	..	..	..	1	..	..	..	4	..	..	..	..	1	..	..	..	..	..	..	1	..	2
St. Anne's	2	..	..	..	..	1	2	..	..	..	..	..	..	5	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Lime Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	3
Castle Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1
Great George	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	..	..	..	..	2
Rodney Street	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	..	..	2
Abercromby	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	2
Everton	..	..	1	..	1	1	..	..	1	1	..	..	..	5	..	..	1	..	..	1	1	..	2	..	3	..	1	9
Kirkdale	..	..	..	1	..	..	..	..	..	..	..	3	..	4	..	..	..	..	..	..	..	4	..	..	..	1	1	6
West Derby	..	..	..	1	..	..	..	..	1	1	..	..	..	3	..	1	..	1	1	..	1	1	..	1	1	1	..	8
North Toxteth	1	2	..	1	..	..	..	..	..	..	1	..	2	7	..	..	..	..	..	..	..	..	1	1	..	..	1	3
South Toxteth	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hospitals (Residences out of City)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Hospitals (Residences unknown)	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	5	4	4	6	2	5	6	..	5	5	2	5	5	54	3	1	3	2	3	5	4	6	5	4	8	3	3	50

Wards.	July.				August.				September.				Oct.	Quarter.	October.				November.				December.				Jan	Quarter.	Year.
	10	17	24	31	7	14	21	28	4	11	18	25	2		9	16	23	30	6	13	20	27	4	11	18	25	1		
Scotland	1	..	1	..	..	..	..	1	..	2	1	1	3	10	1	3	1	..	..	..	1	2	..	..	3	1	1	13	43
Vauxhall	..	..	..	..	..	..	..	1	..	..	1	..	..	2	..	..	1	..	..	..	..	2	2	1	..	..	1	7	17
St. Paul's	..	..	..	..	..	..	1	..	..	..	1	..	..	2	..	..	..	..	..	..	..	1	..	1	..	2	1	5	10
Exchange	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	7
St. Anne's	..	1	..	..	..	1	..	..	1	2	..	..	..	5	1	1	..	1	..	1	1	..	..	..	..	..	..	5	16
Lime Street	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	1	..	1	..	..	..	..	..	..	..	..	2	6
Castle Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1
St. Peter's	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Pitt Street	..	..	..	..	..	..	..	1	..	..	1	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Great George	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	1	5
Rodney Street	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	2	3	7
Abercromby	..	..	..	..	..	..	..	..	..	1	..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Everton	2	..	2	1	..	..	..	..	1	1	1	2	2	12	2	3	1	1	..	1	..	4	2	..	2	2	1	19	45
Kirkdale	..	..	..	1	1	..	..	1	..	1	1	..	..	5	1	..	..	..	..	1	1	..	..	..	1	1	..	5	20
West Derby	1	1	2	3	..	..	1	4	..	2	1	1	..	16	1	..	..	1	1	1	..	..	..	..	..	..	1	5	32
North Toxteth	..	..	..	..	..	..	1	..	..	1	..	1	..	3	..	..	..	..	2	1	..	..	..	..	..	..	1	4	17
South Toxteth	..	..	1	..	..	..	..	..	1	..	1	..	1	4	..	2	..	1	1	..	1	1	..	1	..	..	..	7	12
Hospitals (Residences out of City)	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	1	..	..	1	..	..	4	6
Hospitals (Residences unknown)	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Total	4	3	6	5	1	1	3	10	3	10	9	8	7	70	6	13	4	4	5	7	4	11	4	3	7	6	8	82	256

In arranging this table, all Deaths occurring in Hospitals, have been transferred to the Wards from whence they came.

DEATHS FROM FEVER.

WARDS.		Quarters. March. M.	March. F.	June. M.	June. F.	Sept. M.	Sept. F.	Dec. M.	Dec. F.	Year. M.	Year. F.	Total
Scotland	Below 5 years	2	2	1	..	..	..	2	2	5	4	9
	Above 5 years	8	1	1	1	2	2	3	3	14	7	21
Vauxhall	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	3	..	1	1	1	1	5	6
St. Paul's	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	Above 5 years	1	..	..	..	1	1	2	2	4	3	7
Exchange	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	2	1	2	..	..	..	..	1	4	2	6
St. Anne's	Below 5 years	1	..	..	..	..	1	..	..	1	1	2
	Above 5 years	..	1	1	..	3	1	1	3	5	5	10
Lime Street	Below 5 years	..	..	..	..	1	..	..	..	1	..	1
	Above 5 years	..	..	..	..	..	..	1	1	1	1	2
Castle Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	1	..	1	1
St. Peter's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Pitt Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Great George	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	1	..	..	1	..	..	1	1	2
Rodney Street	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
	Above 5 years	1	..	..	1	1	..	1	1	3	2	5
Abercromby	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	1	..	2	2	..	..	..	2	3	5
Parish Workhouse and Hospitals	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	6	4	5	3	7	3	6	9	24	19	43
Out-Township Workhouse and Hospitals.	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	4	1	7	3	9	5	9	4	29	13	42
Everton	Below 5 years	..	..	1	..	1	..	..	1	2	1	3
	Above 5 years	4	..	3	1	3	4	1	7	11	12	23
Kirkdale	Below 5 years	1	..	1	1	..	..	2	..	4	1	5
	Above 5 years	..	3	..	2	4	..	1	1	5	6	11
West Derby	Below 5 years	1	..	1	..	1	1	..	..	3	1	4
	Above 5 years	1	..	2	2	3	4	1	3	7	9	16
North Toxteth	Below 5 years	1	..	..	..	1	..	..	..	2	..	2
	Above 5 years	2	3	2	1	..	2	1	3	5	9	14
South Toxteth	Below 5 years	..	..	..	..	1	..	..	..	1	..	1
	Above 5 years	1	..	..	..	2	1	2	5	5	6	11
Parish	Below 5 years	3	3	1	1	1	1	2	2	7	7	14
	Above 5 years	18	8	11	10	16	10	15	22	60	50	110
Out-Townships	Below 5 years	3	..	3	1	4	1	2	1	12	3	15
	Above 5 years	12	7	14	9	21	16	15	23	62	55	117
City	Below 5 years	6	3	4	2	5	2	4	3	19	10	29
	Above 5 years	30	15	25	19	37	26	30	45	122	105	227

List of Streets in the City wherein Two or more Deaths from Fever occurred in 1880.

Streets in the Parish.	Houses. Front.	Houses. Court.	Total.	Streets in the Out-Townships.	Houses. Front.	Houses. Court.	Total.
Ashfield	2	..	2	Beaufort	2	..	2
Bispham	1	1	2	Braemar	3	..	3
Blandford	2	..	2	Breck Road	2	..	2
Blenheim	..	4	4	Clarke	2	..	2
Circus	1	1	2	Curzon	1	3	4
Eldon	..	4	4	Gordon	3	.	3
Gildart's Gardens	3	..	3	Henderson	1	1	2
Highfield	3	..	3	Howe	2	..	2
Hopwood	..	3	3	Mann	..	5	5
Hornby	2	1	3	Netherfield Road N.	2	..	2
Limekiln Lane	1	1	2	Prince Edwin	1	1	2
Milton	1	1	2	Radcliffe	2	..	2
Oriel	..	3	3	Smithdown Lane	2	..	2
Ray	..	2	2	Stanhope	2	1	3
Rose Place	..	2	2	Worthington	1	1	2
Tatlock	1	1	2				
Upper Milk	2	..	2				
Walter	2	..	2				

Occupations of Persons who (either themselves or members of their family) have died from Fever in the Workhouses or Hospitals of the City, tabulated into Wards from whence they came, during the Year 1880.

LIVERPOOL PARISH WORKHOUSE.

Occupations.	Wards. Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Total.
Labourers	8	6	1	1	2	..	..	..	..	1	..	..	..	19
Tradesmen	1	4	..	..	2	2	..	..	..	..	1	..	1	11
Servants	1	..	1	..	..	..	..	..	..	..	..	..	..	2
Seamen	2	..	..	..	..	..	..	..	1	..	..	..	..	3
Unknown	1	1	..	..	..	..	..	..	1	1	..	..	..	4
Males	7	7	1	..	2	1	..	..	2	1	..	..	1	22
Females	6	4	1	1	2	1	..	..	..	1	1	..	..	17
Total	13	11	2	1	4	2	..	..	2	2	1	..	1	39

ROYAL INFIRMARY.

OCCUPATIONS.	Wards.		Total.
	Everton.	West Derby.	
Tradesmen	1	..	1
Professions	..	1	1
Unknown	1	..	1
Males	1	..	1
Females	1	1	2
Total	2	1	3

NORTHERN HOSPITAL.

One Male, a Seaman, residence unknown.

ROYAL SOUTHERN HOSPITAL.

One Male, a Seaman, residence unknown.

WEST DERBY UNION WORKHOUSE HOSPITAL (MILL ROAD).

OCCUPATIONS.	Wards.			Residences outside the City.	Total.
	Everton.	Kirkdale.	West Derby.		
Labourers	9	1	8	4	22
Tradesmen	3	2	3	..	8
Professions and Mercantile	2	..	..	..	2
Seamen	..	1	..	..	1
Males	8	2	8	4	22
Females	6	2	3	..	11
Total	14	4	11	4	33

EVERTON HOSPITAL (NETHERFIELD ROAD).

OCCUPATIONS.	Wards.					Residences outside the City.	Total.
	Lime Street.	St. Peter's.	Gt. George.	Everton.	North Toxteth.		
Labourers	..	..	..	1	..	1	2
Tradesmen	1	1	..	1	1	1	5
Seaman	..	..	1	..	..	..	1
Males	..	1	1	1	1	2	6
Females	1	..	..	1	..	..	2
Total	1	1	1	2	1	2	8

Occupations of Persons who (either themselves or members of their family) have died from Fever in the different Wards of the City during the Year 1880. (Not included in the foregoing Tables of Deaths in Workhouses and Hospitals.)

OCCUPATIONS.	Wards.																	Total.
	Scotland.	Vauxhall	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	
Labourers	21	4	5	3	4	..	..	1	1	..	1	1	9	7	5	3	7	72
Tradesmen	8	2	2	3	7	3	1	..	..	1	3	3	11	5	9	5	1	64
Seamen	..	..	1	..	1	..	..	..	..	1	1	1	2	2	1	4	4	18
Professions and Mercantile	1	..	..	..	..	..	..	..	..	..	1	..	3	1	4	4	..	14
Servants	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Unknown	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	2
Males	19	1	4	4	6	2	..	..	1	1	3	2	13	9	10	7	6	88
Females	11	5	4	2	6	1	1	1	..	1	3	3	13	7	10	9	6	83
Total	30	6	8	6	12	3	1	1	1	2	6	5	26	16	20	16	12	171

TOXTETH WORKHOUSE.

Not included in the Mortality of the City, being beyond the Municipal Boundaries.

OCCUPATIONS.	Wards.		Total.
	North Toxteth.	South Toxteth.	
Labourers	3	3	6
Tradesmen	2	1	3
Seamen	3	..	3
Males	5	3	8
Females	3	1	4
Total	8	4	12

SCARLATINA.

Scarlatina accounted during the year for 465 deaths, or for 214 in the Parish, and 251 in the Out-townships. (The average number of deaths for the preceding ten years was 687). The rate of its mortality was equal to 0·9 per 1,000 of the estimated population. Its rate relatively to deaths

from all causes was 2·8 per cent. in the first quarter, 2·3 in the second, 2·1 in the third, and 5·5 in the fourth quarter of the year; its annual rate relatively to all deaths was 3·1 per cent., and relatively to deaths from zymotic causes 14·7 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1880; the second is a record of the streets of the City wherein 3 or more deaths occurred from that disease.

WARDS.		Quarters. March.		June.		Sept.		Dec.		Year.		
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years	5	9	8	5	7	6	19	28	39	48	87
	Above 5 years	3	1	5	1	2	5	3	11	13	18	31
Vauxhall	Below 5 years	1	1	..	1	5	2	7	4	13	8	21
	Above 5 years	..	..	..	..	2	2	1	1	3	3	6
St. Paul's	Below 5 years	..	2	1	..	..	1	1	1	2	4	6
	Above 5 years	..	..	1	..	..	..	1	1	2	1	3
Exchange	Below 5 years	1	1	1	..	..	..	1	..	3	1	4
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	Below 5 years	..	..	2	1	..	1	2	4	4	6	10
	Above 5 years	..	..	1	..	4	2	..	..	5	2	7
Lime Street	Below 5 years	1	..	..	..	..	..	1	..	2	..	2
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Castle Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	.	..	1	..	..	..	..	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	Below 5 years	..	..	1	..	..	1	..	..	1	1	2
	Above 5 years	..	..	..	..	2	1	..	..	2	1	3
Rodney Street	Below 5 years	..	..	..	..	1	..	..	..	1	..	1
	Above 5 years	..	1	..	1	..	..	2	..	2	2	4
Abercromby	Below 5 years	..	..	1	..	..	..	..	2	1	2	3
	Above 5 years	1	..	..	..	..	..	1	..	2	..	2
Parish Workhouse and Hospitals	Below 5 years	2	1	..	..	..	3	..	4	2	8	10
	Above 5 years	..	..	..	1	4	2	1	3	5	6	11
Out-Township Workhouse and Hospitals.	Below 5 years	1	..	1	..	..	..	..	..	2	..	2
	Above 5 years	..	1	..	1	..	2	1	1	1	5	6
Everton	Below 5 years	8	11	6	10	4	3	13	14	31	38	69
	Above 5 years	3	4	3	1	3	..	4	8	13	13	26
Kirkdale	Below 5 years	5	2	4	4	7	..	16	13	32	19	51
	Above 5 years	2	2	2	1	2	..	12	11	18	14	32
West Derby	Below 5 years	7	4	5	3	..	2	1	1	13	10	23
	Above 5 years	5	4	1	2	1	..	..	..	7	6	13
North Toxteth	Below 5 years	..	2	..	1	1	2	..	..	1	5	6
	Above 5 years	1	..	..	..	..	..	..	..	1	..	1
South Toxteth	Below 5 years	2	1	1	3	2	..	2	1	7	5	12
	Above 5 years	3	3	1	..	..	2	1	..	5	5	10
Parish	Below 5 years	10	14	15	7	13	14	31	43	69	78	147
	Above 5 years	4	2	7	3	14	12	9	16	34	33	67
Out-Townships	Below 5 years	23	20	17	21	14	7	32	29	86	77	163
	Above 5 years	14	14	7	5	6	4	18	20	45	43	88
City	Below 5 years	33	34	32	28	27	21	63	72	155	155	310
	Above 5 years	18	16	14	8	20	16	27	36	79	76	155

List of Streets in the City wherein Three or more Deaths from Scarlatina occurred in 1880.

Streets in the Parish.	Houses. Front.	Houses. Court.	Total.	Streets in the Out-Townships.	Houses. Front.	Houses. Court.	Total.
Ashfield	7	...	7	Arkwright	..	3	3
Back Portland	3	...	3	Christopher	4	..	4
Beau	3	1	4	Cockerell	3	..	3
Blenheim	2	6	8	Field	3	..	3
Boundary Street East	7	...	7	Lamb	3	..	3
Brownlow Hill	3	..	3	Leadenhall	3	..	3
Burlington	5	4	9	Leekworth	3	..	3
Carruthers	4	..	4	Mann	2	1	3
Eaton	3	4	7	Paley	3	..	3
Eldon	1	2	3	Radcliffe	4	..	4
Gascoyne	4	1	5	Rembrandt	3	..	3
Hopwood	2	1	3	Selwyn	4	..	4
Hornby	5	2	7				
Houlgrave	3	...	3				
Latimer	4	...	4				
Louis	4	...	4				
Oriel	3	3	6				
Portland	4	...	4				
Raymond	3	1	4				
Richmond Row	1	2	3				
Scotland Road	3	...	3				
Silvester	2	1	3				
Vauxhall Road	4	2	6				
Vescock	5	...	5				
White	3	..	3				
Woodstock	2	1	3				

MEASLES

Occasioned 283 deaths, of which 140 occurred in the Parish, and 143 in the Out-Townships. (The average number of deaths for the preceding ten years was 386.) Its percentage death-rate relatively to deaths from all causes was 3·8 in the first quarter of the year, 2·5 in the second, 1·0 in the third, and 0·5 in the fourth. Its annual percentage rate relatively to deaths from all causes was 1·9, and relatively to deaths from Zymotic causes 8·9.

WARDS.		Quarters.								Year.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years	1	3	7	6	3	3	1	..	12	12	24
	Above 5 years	..	..	2	..	..	..	..	..	2	..	2
Vauxhall	Below 5 years	4	8	3	6	..	..	..	1	7	15	22
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	Below 5 years	4	1	5	2	1	..	..	..	10	3	13
	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Exchange	Below 5 years	1	1	..	2	..	1	..	..	1	4	5
	Above 5 years	..	..	..	1	..	..	..	..	..	1	1
St. Anne's	Below 5 years	4	1	2	1	1	1	..	..	7	3	10
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Lime Street	Below 5 years	..	1	1	..	..	..	..	..	1	1	2
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Castle Street	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	1	..	..	..	1	..	..	..	2	..	2
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	2	3	..	1	2	1	..	..	4	5	9
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	Below 5 years	3	3	..	..	..	..	..	..	3	3	6
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	Below 5 years	1	2	..	1	..	..	1	..	2	3	5
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Abercromby	Below 5 years	..	4	..	..	..	1	..	..	..	5	5
	Above 5 years	..	2	..	..	..	..	..	..	..	2	2
Parish Workhouse and Hospitals	Below 5 years	6	9	3	7	..	..	..	..	9	16	25
	Above 5 years	..	..	2	..	..	..	1	..	3	..	3
Out-Township Workhouse and Hospitals	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Everton	Below 5 years	3	5	..	1	..	..	4	5	7	11	18
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Kirkdale	Below 5 years	..	3	7	7	3	3	2	..	12	13	25
	Above 5 years	..	..	1	1	..	..	..	..	1	1	2
West Derby	Below 5 years	6	9	3	1	9	5	1	..	19	15	34
	Above 5 years	..	1	..	..	1	1	..	..	1	2	3
North Toxteth	Below 5 years	11	11	6	..	3	1	1	..	21	12	33
	Above 5 years	..	2	1	2	..	..	..	..	1	4	5
South Toxteth	Below 5 years	10	6	2	2	1	..	..	..	13	8	21
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Parish	Below 5 years	27	37	21	26	8	7	2	1	58	71	129
	Above 5 years	..	4	5	1	..	..	1	..	6	5	11
Out-Townships	Below 5 years	30	35	18	11	16	9	8	5	72	60	132
	Above 5 years	..	4	2	3	1	1	..	..	3	8	11
City	Below 5 years	57	72	39	37	24	16	10	6	130	131	261
	Above 5 years	..	8	7	4	1	1	1	..	9	13	22

DIARRHŒA

Accounted for 1,028 deaths, or for 458 in the Parish, and 570 in the Out-townships. (The average number of deaths for the preceding ten years was 858). Its percentage death-rate relatively to deaths from all causes was 1·0 in the first quarter of the year, 1·8 in the second, 19·9 in the third, and 3·2 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 6·9, and relatively to deaths from Zymotic causes 32·4.

WARDS.		Quarters. March. M.	March. F.	June. M.	June. F.	Sept. M.	Sept. F.	Dec. M.	Dec. F.	Year. M.	Year. F.	Year. Total.
Scotland	Below 5 years	1	2	5	5	95	81	11	7	112	95	207
	Above 5 years	..	1	..	..	2	3	..	..	2	4	6
Vauxhall	Below 5 years	2	..	2	..	18	20	3	2	25	22	47
	Above 5 years	2	..	..	..	1	..	..	..	3	..	3
St. Paul's	Below 5 years	..	1	4	..	13	2	5	1	22	4	26
	Above 5 years	..	..	..	1	..	..	..	..	..	1	1
Exchange	Below 5 years	..	..	4	1	5	6	..	2	9	9	18
	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
St. Anne's	Below 5 years	1	..	1	1	19	15	2	4	23	20	43
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Lime Street	Below 5 years	1	..	..	1	6	5	..	..	7	6	13
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
Castle Street	Below 5 years	1	..	..	..	..	..	..	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	1	3	..	..	..	3	1	4
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	..	..	1	..	2	1	1	1	4	2	6
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	Below 5 years	..	..	1	..	4	11	3	2	8	13	21
	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Rodney Street	Below 5 years	..	..	..	1	5	9	2	2	7	12	19
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
Abercromby	Below 5 years	..	..	1	1	7	8	2	3	10	12	22
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
Parish Workhouse and Hospitals	Below 5 years	..	..	..	..	2	2	3	2	5	4	9
	Above 5 years	1	..	..	..	2	..	..	4	3	4	7
Out-Township Workhouse and Hospitals	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	Above 5 years	..	..	1	..	1	..	..	..	2	..	2
Everton	Below 5 years	3	1	5	3	79	72	7	7	94	83	177
	Above 5 years	..	2	..	1	1	3	..	..	1	6	7
Kirkdale	Below 5 years	1	..	2	2	47	52	3	6	53	60	113
	Above 5 years	..	..	..	..	5	2	..	..	5	2	7
West Derby	Below 5 years	2	3	2	3	33	33	5	4	42	43	85
	Above 5 years	..	..	..	..	1	2	..	1	1	3	4
North Toxteth	Below 5 years	2	2	4	2	30	31	2	1	38	36	74
	Above 5 years	..	..	..	1	1	..	..	..	1	1	2
South Toxteth	Below 5 years	2	3	4	3	32	31	7	9	45	46	91
	Above 5 years	..	..	1	..	..	5	..	1	1	6	7
Parish	Below 5 years	6	3	19	11	179	160	32	26	236	200	436
	Above 5 years	3	1	..	1	8	5	..	4	11	11	22
Out-Townships	Below 5 years	10	10	17	13	221	219	24	27	272	269	541
	Above 5 years	..	2	2	2	9	12	..	2	11	18	29
City	Below 5 years	16	13	36	24	400	379	56	53	508	469	977
	Above 5 years	3	3	2	3	17	17	..	6	22	29	51

List of Streets in the City wherein Three or more Deaths from Diarrhœa occurred during the Year 1880.

Streets in the Parish.	Houses. Front.	Houses. Court.	Total.
Adlington	1	3	4
Ascot	3	..	3
Athol	12	..	12
Back Portland	3	..	3
Beacon	3	..	3
Bevington Bush	4	..	4
Blenheim	2	1	3
Bond	2	1	3
Bostock	2	2	4
Burlington	6	3	9
Canterbury	4	..	4
Cavendish	1	2	3
Cherry Lane	3	..	3
Chisenhale	..	3	3
Crown	..	4	4
Dryden	1	5	6
Eldon	2	1	3
Epsom	3	..	3
Gascoyne	4	4	8
Gerard	3	..	3
Great Richmond	2	1	3
Hankin	4	1	5
Hornby	3	7	10
Kew	3	1	4
Latimer	3	2	5
Limekiln Lane	2	1	3
Midghall	1	2	3
Naylor	..	3	3
Oriel	1	4	5
Pall Mall	1	4	5
Portland	3	..	3
Rathbone	1	3	4
Raymond	2	1	3
Regent	3	1	4
Russell	3	..	3
Saltney	..	3	3
Scotland Road	3	..	3
Silvester	7	2	9
Summer Seat	3	..	3
Tatlock	2	1	3
Upper Frederick	2	1	3
Vauxhall Road	2	1	3

Streets in the Out-Townships.	Houses. Front.	Houses. Court.	Total.
Arkwright	6	1	7
Arlington	3	..	3
Barry	3	..	3
Beatrice	6	..	6
Beaufort	5	..	5
Boundary	2	2	4
Brasenose Road	3	..	3
Breck Road	3	..	3
Buckingham	3	..	3
China	4	..	4
Clive	2	1	3
Dorrit	3	..	3
Elias	9	..	9
Ellison	3	..	3
Flinders	3	..	3
Gelling	3	..	3
Godwin	3	..	3
Gordon	5	..	5
Grafton	2	1	3
Great Homer	4	..	4
Harding	2	1	3
Howe	4	..	4
Jenkinson	1	2	3
Lamb	5	..	5
Lancaster	3	..	3
Leadenhall	3	..	3
Leyden	3	..	3
Mann	5	7	12
Oriel Road	4	..	4
Pelops	3	..	3
Prince Edwin	2	1	3
Prophet	..	3	3
Pugin	3	..	3
Rockingham	3	..	3
Roscommon	3	..	3
Royden	3	..	3
Salisbury	4	..	4
Stitt	3	..	3
Teulon	4	..	4
Walton Lane	3	..	3
Wolfe	4	1	5

DIARRHŒA IN DATES OF DEATH, 1880.

Date. June.	No. of Deaths.	Mean Reading of Barometer.	Mean Temperature.	Rain. Amount in Inches.	Rain. Hours.	Wind. Mean Daily Velocity in Miles.	Wind. Direction.
1	2	30·258	55·8	0·032	1·0	443	E
2	..	30·180	54·0	0·056	1·0	361	NE
3	1	30·017	55·8	0·011	0·5	206	NNW
4	..	30·003	52·3	..	..	402	NW & NE
5	..	30·000	50·8	0·220	7·0	654	WNW
6	1	29·844	51·6	0·350	5·3	807	W
7	..	29·643	50·2	0·133	3·5	568	W
8	2	29·657	48·8	0·304	4·6	418	WSW
9	1	29·741	52·0	0·010	0·7	172	NW & Var.
10	..	29·839	53·2	..	..	147	NW
11	..	29·925	53·4	..	..	158	WNW
12	1	29·941	61·4	..	..	285	SSE & SW
13	2	29·958	56·5	0·282	12·0	211	SE & S
14	..	30·118	55·4	0·059	2·4	276	NW
15	2	30·183	57·6	0·130	3·6	407	NNW
16	..	30·111	59·3	0·020	0·6	455	NE & N
17	2	30·190	61·3	0·023	0·3	540	ENE
18	1	30·022	61·3	..	..	378	E
19	..	29·717	58·9	0·278	3·3	264	E
20	2	29·581	60·9	0·250	2·7	347	E
21	2	29·598	62·1	0·004	0·3	250	SE & S
22	3	29·746	59·9	..	..	216	WNW & SE
23	..	29·746	59·2	..	..	126	NW
24	2	29·744	60·5	..	..	194	WNW
25	..	29·803	58·7	0·036	1·0	118	NW & SW
26	1	29·929	58·9	..	..	342	W
27	1	30·097	62·9	0·080	1·4	524	SW
28	2	30·081	62·2	0·060	0·9	719	SW
29	3	29·973	60·6	0·042	1·0	400	SW
30	..	29·746	58·7	0·043	1·7	264	WSW

DIARRHŒA IN DATES OF DEATH, 1880.

Date. July.	No. of Deaths.	Mean Reading of Barometer.	Mean Temperature.	Rain. Amount in Inches.	Rain. Hours.	Wind. Mean Daily Velocity in Miles.	Wind. Direction.
1	2	29·678	57·0	..	..	366	W
2	3	29·641	58·5	0·250	5·6	319	SSW
3	..	29·618	57·6	0·010	1·4	321	WSW
4	3	29·983	57·7	..	..	523	NW & W
5	1	30·134	60·2	..	..	512	W
6	4	29·903	58·7	0·380	6·2	363	SW
7	2	29·631	55·7	0·208	2·6	394	WSW
8	3	29·533	57·0	0·050	1·4	427	WSW
9	2	29·667	57·4	0·050	1·0	163	SSW
10	5	29·849	58·7	..	..	326	W
11	3	30·048	59·3	0·130	3·5	299	WNW
12	..	30·100	55·4	0·284	4·6	125	NW & Var.
13	5	30·077	60·2	0·062	1·1	176	SE & E
14	3	30·060	60·2	0·531	2·6	431	ENE
15	1	29·980	61·1	0·266	1·1	304	ENE
16	2	30·077	65·1	..	..	143	E & Var.
17	2	30·046	65·1	0·610	4·0	145	N & Var.
18	2	29·857	58·1	0·072	1·6	313	WSW
19	2	29·940	58·7	..	..	284	WSW
20	3	30·080	56·8	..	..	334	W
21	8	30·065	60·4	..	..	204	WNW
22	6	29·981	63·0	..	..	274	SE & E
23	3	29·930	62·5	0·075	1·8	185	SE & E
24	4	29·822	60·6	0·280	5·8	207	SSE
25	5	29·832	62·8	0·249	6·1	160	S & Var.
26	2	29·564	59·5	0·842	6·8	401	E
27	5	29·691	62·2	0·123	3·2	391	W & Var.
28	5	29·553	62·6	0·127	1·6	462	SSW & SE
29	5	29·518	58·8	0·029	0·3	364	WSW
30	9	29·590	56·4	0·059	0·9	518	W
31	4	29·715	55·9	..	..	530	W

DIARRHŒA IN DATES OF DEATH, 1880.

Date. August.	No. of Deaths.	Mean Reading of Barometer.	Mean Temperature.	Rain. Amount in Inches.	Rain. Hours.	Wind. Mean Daily Velocity in Miles.	Wind. Direction.
1	10	29·641	59·1	0·144	3·4	186	NW & Var.
2	5	29·700	58·7	0·007	0·2	387	WNW
3	14	29·865	61·2	0·011	0·3	284	WNW
4	10	29·831	66·3	..	..	230	SSW
5	8	29·713	62·5	0·154	3·1	283	SSW
6	9	29·601	60·6	0·100	2·5	306	W & S
7	4	29·442	57·1	1·097	8·9	433	W & Var.
8	4	29·638	59·1	..	..	667	W
9	6	30·101	60·4	..	..	186	WNW
10	9	30·255	66·6	..	..	135	S & Var.
11	10	30·284	64·0	..	..	136	NW & Var.
12	13	30·249	66·6	..	..	298	NE & E
13	13	30·196	65·2	..	..	199	NE & Var.
14	5	30·174	64·4	..	..	274	E & NW
15	10	30·139	66·3	..	..	230	ESE
16	13	30·128	63·9	..	..	272	ESE
17	9	30·189	61·2	..	..	322	NE
18	10	30·190	60·6	..	..	265	E
19	11	30·123	62·3	..	..	166	ESE
20	12	30·119	61·4	..	..	124	SE & NW
21	12	30·162	61·3	..	..	205	E
22	13	30·143	60·8	..	..	200	E
23	12	30·120	59·7	..	..	182	ENE
24	17	30·088	59·8	..	..	214	E
25	16	30·060	63·1	..	..	293	E
26	15	29·961	63·6	..	..	247	E
27	10	30·128	64·4	..	..	169	E & NW
28	17	30·243	65·8	..	..	182	E & W
29	13	30·124	64·4	..	..	358	ENE
30	12	30·004	63·6	..	..	207	ESE
31	21	30·050	66·0	..	..	216	ESE

DIARRHŒA IN DATES OF DEATH, 1880.

Date. Sept.	No. of Deaths.	Mean Reading of Barometer.	Mean Temperature.	Rain.		Wind.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	Direction.
1	12	30·166	64·1	0·026	0·8	237	SSW
2	18	30·274	65·1	..	..	157	W & Var.
3	19	30·201	66·3	..	..	142	NW & SE
4	18	29·964	73·5	..	..	308	SE & E
5	18	29·953	62·7	0·174	1·8	341	SW & W
6	13	30·031	60·4	..	..	381	SW
7	14	30·035	57·5	..	..	353	W
8	15	30·053	58·5	..	..	229	E & Var.
9	13	29·867	62·2	0·030	1·4	493	E
10	19	29·635	62·7	0·134	2·6	430	SE
11	15	29·636	57·9	0·166	0·8	174	W & Var.
12	16	29·579	59·6	0·420	7·3	214	SSE
13	11	29·636	54·5	0·076	2·5	489	W
14	13	29·428	55·3	0·170	3·0	463	ESE
15	16	29·365	56·2	0·114	3·8	522	NW & N
16	11	29·697	58·2	..	..	503	N
17	15	29·825	56·8	0·270	2·9	327	W & Var.
18	9	29·615	52·1	0·389	3·8	467	WSW
19	6	29·638	51·6	0·127	1·8	715	W
20	11	29·798	54·4	0·068	1·3	684	W
21	8	29·883	56·6	0·450	6·4	338	WSW
22	17	29·882	56·5	0·290	9·7	383	WSW
23	16	30·107	57·7	0·005	0·5	176	WSW
24	7	30·080	57·9	..	..	122	WSW
25	6	30·045	59·5	..	..	134	S & Var.
26	3	30·152	57·8	..	..	97	SE & Var.
27	10	30·295	59·4	..	..	156	SE & NW
28	7	30·451	55·5	..	..	121	NW & Var.
29	5	30·475	57·4	..	..	161	NW & SE
30	9	30·375	56·5	..	..	98	NW & S

DIARRHŒA IN DATES OF DEATH, 1880.

Date. October	No. of Deaths.	Mean Reading of Barometer.	Mean Temperature.	Rain. Amount in Inches.	Rain. Hours.	Wind. Mean Daily Velocity in Miles.	Wind. Direction.
1	3	30·184	57·4	0·090	2·1	264	WSW
2	9	29·950	48·1	0·200	3·1	581	NW & W
3	4	29·915	45·1	0·025	0·4	455	NW
4	6	29·763	44·9	0·776	12·7	214	ENE
5	5	29·356	46·0	0·435	13·4	528	NE
6	6	29·424	50·2	0·011	0·7	258	NE & N
7	5	29·665	49·8	0·077	1·0	419	NE & E
8	5	29·823	48·6	..	..	293	NE & E
9	3	29·965	48·5	..	..	387	NE & N
10	2	30·155	48·7	..	..	462	NE
11	6	30·354	47·0	..	..	317	NE & E
12	1	30·333	48·2	..	..	227	NE & N
13	3	30·347	48·6	..	..	120	N
14	2	30·385	49·2	..	..	146	NW & SW
15	1	30·266	48·0	..	..	213	SE
16	2	30·101	56·5	..	..	135	SE
17	4	30·093	49·1	..	..	109	W & S
18	4	30·010	47·1	0·110	1·0	550	WSW
19	1	30·063	36·4	..	..	195	NE & N
20	2	29·764	38·1	..	..	233	E & N
21	8	29·884	39·1	..	..	260	N & NE
22	..	29·841	41·1	..	..	352	NE & E
23	5	29·987	42·9	..	..	309	NE
24	3	30·260	45·1	0·100	3·0	247	WSW
25	1	30·080	46·5	0·308	5·7	515	W
26	1	29·622	40·4	0·731	16·0	446	NE & Var.
27	1	29·315	38·2	1·470	18·9	650	NE & E
28	3	28·970	39·8	0·297	6·8	625	NE & N
29	..	29·703	41·2	..	..	384	N & NW
30	1	30·075	44·6	..	..	459	WSW
31	..	30·010	44·7	0·029	0·8	697	WSW

WHOOPING COUGH

Occasioned 663 deaths, or 317 in the Parish and 346 in the Out-Townships. (The average number of deaths for the preceding ten years was 440). Its percentage death-rate relatively to deaths from all causes was 2·7 in the first quarter of the year, 6·8 in the second, 5·2 in the third, and 3·2 in the fourth; its percentage rate relatively to deaths from all causes was 4·5, and relatively to deaths from Zymotic causes 20·9.

DEATHS FROM WHOOPING COUGH.

WARDS.		Quarters.								Year.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years	2	2	25	40	31	26	5	12	63	80	143
	Above 5 years	..	1	1	1	..	1	..	..	1	3	4
Vauxhall	Below 5 years	3	3	2	4	5	3	..	1	10	11	21
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	Below 5 years	4	1	4	6	2	1	2	1	12	9	21
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Exchange	Below 5 years	..	4	3	5	..	2	1	1	4	12	16
	Above 5 years	..	..	..	1	..	..	..	..	..	1	1
St. Anne's	Below 5 years	2	4	6	7	4	7	..	3	12	21	33
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
Lime Street	Below 5 years	..	..	1	2	3	2	..	..	4	4	8
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Castle Street	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	3	1	..	..	3	1	4
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	..	..	..	1	2	4	1	4	3	9	12
	Aobve 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	Below 5 years	..	2	2	5	4	5	..	1	6	13	19
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	Below 5 years	..	2	4	2	..	2	..	..	4	6	10
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Abercromby	Below 5 years	1	2	..	6	2	1	4	..	7	9	16
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	Below 5 years	1	1	..	3	..	..	..	..	1	4	5
	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Out-Township Workhouse and Hospitals	Below 5 years	..	..	1	..	..	..	..	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	Below 5 years	7	2	20	21	20	24	11	17	58	64	122
	Above 5 years	..	..	1	1	..	..	..	1	1	2	3
Kirkdale	Below 5 years	6	3	5	5	6	11	4	4	21	23	44
	Above 5 years	1	..	..	1	..	..	1	..	2	1	3
West Derby	Below 5 years	7	3	4	8	5	10	9	8	25	29	54
	Above 5 years	..	..	..	..	..	2	..	2	..	4	4
North Toxteth	Below 5 years	5	2	10	10	7	5	6	3	28	20	48
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
South Toxteth	Below 5 years	13	9	7	15	4	6	4	7	28	37	65
	Above 5 years	1	..	..	..	..	..	..	.	1	..	1
Parish	Below 5 years	13	22	47	81	56	54	13	23	129	180	309
	Above 5 years	..	2	2	2	1	1	..	..	3	5	8
Out-Townships	Below 5 years	38	19	47	59	42	56	34	39	161	173	334
	Above 5 years	2	..	1	2	1	2	1	3	5	7	12
City	Below 5 years	51	41	94	140	98	110	47	62	290	353	643
	Above 5 years	2	2	3	4	2	3	1	3	8	12	20

DEATHS FROM CROUP.

WARDS.		Quarters. March. M.	March. F.	June. M.	June. F.	Sept. M.	Sept. F.	Dec. M.	Dec. F.	Year. M.	Year. F.	Year. Total.
Scotland	Below 5 years	1	2	3	3	3	3	3	3	10	11	21
	Above 5 years	2	..	1	1	..	..	..	..	3	1	4
Vauxhall	Below 5 years	..	..	..	..	..	..	..	1	..	1	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	Below 5 years	..	..	..	..	..	..	1	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Exchange	Below 5 years	1	..	..	..	..	..	1	..	2	..	2
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	Below 5 years	..	1	1	1	1	..	2	1	4	3	7
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Lime Street	Below 5 years	..	2	..	..	1	..	1	1	2	3	5
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Castle Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	..	..	1	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Great George	Below 5 years	..	..	3	..	..	1	..	..	3	1	4
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	Below 5 years	..	..	..	..	..	..	1	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Abercromby	Below 5 years	..	1	..	..	..	1	1	1	1	3	4
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	Below 5 years	2	1	2	2	..	1	..	..	4	4	8
	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Out-Township Workhouse and Hospitals	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	Below 5 years	6	7	6	6	2	2	7	11	21	26	47
	Above 5 years	1	..	..	1	..	..	1	1	2	2	4
Kirkdale	Below 5 years	3	3	4	2	..	..	4	2	11	7	18
	Above 5 years	..	1	..	2	..	..	..	..	..	3	3
West Derby	Below 5 years	..	5	1	2	1	2	4	3	6	12	18
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
North Toxteth	Below 5 years	2	1	2	2	1	..	1	2	6	5	11
	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
South Toxteth	Below 5 years	3	..	1	2	1	..	1	2	6	4	10
	Above 5 years	1	1	..	..	1	1	..	..	2	2	4
Parish	Below 5 years	4	8	9	6	5	6	11	7	29	27	56
	Above 5 years	2	1	3	1	..	..	..	..	5	2	7
Out-Townships	Below 5 years	14	16	14	14	5	4	17	20	50	54	104
	Above 5 years	2	3	..	3	1	2	1	1	4	9	13
City	Below 5 years	18	24	23	20	10	10	28	27	79	81	160
	Above 5 years	4	4	3	4	1	2	1	1	9	11	20

DEATHS FROM DIPHTHERIA.

WARDS.		Quarters. March. M.	March. F.	June. M.	June. F.	Sept. M.	Sept. F.	Dec. M.	Dec. F.	Year. M.	Year. F.	Year. Total.
Scotland	Below 5 years	..	1	..	1	..	1	1	..	1	3	4
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Vauxhall	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	Below 5 years	..	..	..	..	1	..	1	..	2	..	2
	Above 5 years	..	..	..	1	..	1	..	..	..	2	2
Exchange	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	1	..	..	1	1
Lime Street	Below 5 years	..	..	..	..	..	..	1	..	..	1	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Castle Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	Below 5 years	..	..	..	1	..	..	..	1	..	2	2
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	Below 5 years	1	..	..	..	..	..	..	..	1	..	1
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Abercromby	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	Below 5 years	..	..	..	..	..	1	..	..	..	1	1
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
Out-Township Workhouse and Hospitals.	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Everton	Below 5 years	1	3	2	1	..	1	1	..	4	5	9
	Above 5 years	..	1	2	1	..	1	..	1	2	4	6
Kirkdale	Below 5 years	..	1	..	..	..	..	..	1	..	2	2
	Above 5 years	..	1	..	..	1	..	1	2	2	3	5
West Derby	Below 5 years	1	1	..	..	..	1	..	1	1	3	4
	Above 5 years	..	..	..	..	1	..	..	1	1	1	2
North Toxteth	Below 5 years	1	..	1	..	..	..	1	1	3	1	4
	Above 5 years	1	1	..	..	..	..	..	..	1	1	2
South Toxteth	Below 5 years	1	..	..	..	..	..	2	..	3	..	3
	Above 5 years	1	..	..	..	..	..	1	1	2	1	3
Parish	Below 5 years	1	1	..	3	1	2	3	1	5	7	12
	Above 5 years	..	1	..	1	1	1	1	..	2	3	5
Out-Townships	Below 5 years	4	5	3	1	..	2	4	3	11	11	22
	Above 5 years	2	3	2	1	2	2	2	5	8	11	19
City	Below 5 years	5	6	3	4	1	4	7	4	16	18	34
	Above 5 years	2	4	2	2	3	3	3	5	10	14	24

OTHER ZYMOTICS.

Under the term of other Zymotics are included:—Chicken Pox, Small Pox, Cholera, Dysentery, Infantile Remittent Fever, Erysipelas, Syphilis, Thrush, Puerperal Fever, Rheumatic Fever, Quinsy, Ague, Mumps, Purpura, and Scurvy.

WARDS.		Quarters.								Year.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years	1	4	2	1	..	4	..	4	3	13	16
	Above 5 years	2	3	1	1	1	1	1	3	5	8	13
Vauxhall	Below 5 years	1	..	1	..	2	..	1	..	5	..	5
	Above 5 years	..	..	1	1	..	..	2	..	3	1	4
St. Paul's	Below 5 years	..	..	..	1	2	..	..	..	2	1	3
	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Exchange	Below 5 years	1	..	..	1	..	..	..	..	1	1	2
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	Below 5 years	1	1	4	1	4	1	..	2	9	5	14
	Above 5 years	1	..	..	..	..	..	..	..	1	..	1
Lime Street	Below 5 years	1	..	..	..	2	..	..	..	3	..	3
	Above 5 years	..	..	..	1	..	..	..	1	..	2	2
Castle Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	1	..	..	..	1	..	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	Below 5 years	..	..	..	..	1	..	..	2	1	2	3
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	Below 5 years	1	1	1	..	1	..	1	1	4	2	6
	Above 5 years	1	..	..	..	..	..	1	3	2	3	5
Rodney Street	Below 5 years	1	..	..	1	1	1	..	..	2	2	4
	Above 5 years	..	1	..	..	..	..	..	1	..	2	2
Abercromby	Below 5 years	..	3	..	..	4	3	..	..	4	6	10
	Above 5 years	1	1	1	..	2	1	2	2	6	4	10
Parish Workhouse and Hospitals	Below 5 years	3	2	..	3	..	..	1	..	4	5	9
	Above 5 years	3	1	2	..	2	1	2	2	9	4	13
Out-Township Workhouse and Hospitals.	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	1	..	1	..	2	3	3	3	7	10
Everton	Below 5 years	1	3	..	..	3	7	5	2	9	12	21
	Above 5 years	2	1	1	1	3	..	..	2	6	4	10
Kirkdale	Below 5 years	1	3	..	2	..	1	1	1	2	7	9
	Above 5 years	..	..	2	..	..	2	..	..	2	2	4
West Derby	Below 5 years	4	3	..	2	2	..	1	..	7	5	12
	Above 5 years	1	1	..	1	3	..	2	..	6	2	8
North Toxteth	Below 5 years	1	1	2	2	..	1	3	3	6	7	13
	Above 5 years	1	..	1	..	1	1	1	2	4	3	7
South Toxteth	Below 5 years	2	1	..	1	4	1	1	2	7	5	12
	Above 5 years	1	1	1	..	..	1	..	3	2	5	7
Parish	Below 5 years	10	11	8	8	18	9	3	9	39	37	76
	Above 5 years	8	6	6	3	5	3	8	12	27	24	51
Out-Townships	Below 5 years	9	11	2	7	9	10	11	8	31	36	67
	Above 5 years	5	4	5	3	7	6	6	10	23	23	46
City	Below 5 years	19	22	10	15	27	19	14	17	70	73	143
	Above 5 years	13	10	11	6	12	9	14	22	50	47	97

TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 2,007 deaths in the City of Liverpool during the year 1880, of which 873 occurred in the Parish, and 1,134 in the Out-Townships. (The average number of deaths for the preceding ten years was 2,003). The death-rate was 3·7 per 1,000 of the estimated population; their percentage death-rate relatively to deaths from all causes was 13·6.

PHTHISIS.

The deaths from Phthisis amounted to 1,337, and show a gradual decrease, the average number for the preceding ten years being 1,539.

WARDS.		Quarters.								Year.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years	1	2	4	2	1	..	1	..	7	4	11
	Above 5 years	16	22	14	9	14	14	13	10	57	55	112
Vauxhall	Below 5 years	..	..	..	..	1	..	..	..	1	..	1
	Above 5 years	7	9	4	5	3	4	4	2	18	20	38
St. Paul's	Below 5 years	1	..	1	2	..	..	..	..	2	2	4
	Above 5 years	4	6	6	3	..	3	2	1	12	13	25
Exchange	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
	Above 5 years	3	2	2	2	3	..	4	..	12	4	16
St. Anne's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	4	11	11	9	3	8	5	4	23	32	55
Lime Street	Below 5 years	1	..	..	..	..	..	1	..	2	..	2
	Above 5 years	4	6	3	4	1	5	5	3	13	18	31
Castle Street	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	1	..	..	1	3	..	1	..	5	1	6
Pitt Street	Below 5 years	..	..	2	..	..	..	..	..	2	..	2
	Above 5 years	3	2	1	3	1	9	1	5	6	19	25
Great George	Below 5 years	..	..	..	1	1	..	..	1	1	2	3
	Above 5 years	5	3	4	3	5	7	7	2	21	15	36
Rodney Street	Below 5 years	..	..	1	1	..	..	1	..	2	1	3
	Above 5 years	4	7	5	3	6	1	5	7	20	18	38
Abercromby	Below 5 years	..	..	..	1	..	..	..	..	..	1	1
	Above 5 years	6	5	4	6	5	5	3	7	18	23	41
Parish Workhouse and Hospitals	Below 5 years	..	..	1	..	..	..	..	..	1	..	1
	Above 5 years	31	18	49	17	36	14	28	11	144	60	204
Out-Township Workhouse and Hospitals	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	11	7	10	6	3	2	10	5	34	20	54
Everton	Below 5 years	1	..	1	..	4	8	1	4	7	12	19
	Above 5 years	24	27	13	22	15	21	29	27	81	97	178
Kirkdale	Below 5 years	..	..	3	1	2	..	1	..	6	1	7
	Above 5 years	10	13	13	17	5	15	8	12	36	57	93
West Derby	Below 5 years	1	..	..	..	1	..	..	1	2	1	3
	Above 5 years	14	23	14	19	11	14	21	13	60	69	129
North Toxteth	Below 5 years	..	1	..	2	2	..	..	..	2	3	5
	Above 5 years	14	17	11	14	6	18	15	10	46	59	105
South Toxteth	Below 5 years	1	..	3	..	..	4	2	..	6	4	10
	Above 5 years	7	13	14	7	5	11	9	11	35	42	77
Parish	Below 5 years	3	2	9	9	3	..	3	1	18	12	30
	Above 5 years	88	91	103	65	80	70	78	52	349	278	627
Out-Townships	Below 5 years	3	1	7	3	9	12	4	5	23	21	44
	Above 5 years	80	100	75	85	45	81	92	78	292	344	636
City	Below 5 years	6	3	16	12	12	12	7	6	41	33	74
	Above 5 years	168	191	178	150	125	151	170	130	641	622	1263

DEATHS FROM THE OTHER TUBERCULAR DISEASES.

WARDS.		Quarters, March.		June.		Sept.		Dec.		Year.		
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years	10	5	10	6	18	17	10	12	48	40	88
	Above 5 years	..	..	2	1	2	..	2	..	6	1	7
Vauxhall	Below 5 years	3	1	1	..	1	1	1	1	6	3	9
	Above 5 years	..	..	1	..	1	..	1	1	3	1	4
St. Paul's	Below 5 years	..	..	1	..	..	..	..	1	1	1	2
	Above 5 years	..	..	2	..	..	..	..	..	2	..	2
Exchange	Below 5 years	..	..	1	..	1	..	..	1	2	1	3
	Above 5 years	..	..	..	..	1	..	..	..	1	..	1
St. Anne's	Below 5 years	2	..	1	2	2	1	2	1	7	4	11
	Above 5 years	..	..	..	..	..	..	..	1	..	1	1
Lime Street	Below 5 years	1	1	..	2	2	2	..	1	3	6	9
	Above 5 years	..	..	..	..	..	..	..	1	..	1	1
Castle Street	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Pitt Street	Below 5 years	..	..	1	..	..	2	1	..	2	2	4
	Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Great George	Below 5 years	1	1	1	1	1	..	2	2	5	4	9
	Above 5 years	..	..	1	..	..	1	..	..	1	1	2
Rodney Street	Below 5 years	1	1	1	..	2	2	1	..	5	3	8
	Above 5 years	1	..	2	..	..	..	1	1	4	1	5
Abercromby	Below 5 years	2	3	..	2	3	5	2	3	7	13	20
	Above 5 years	2	..	..	1	..	2	..	..	2	3	5
Parish Workhouse and Hospitals	Below 5 years	..	1	3	4	3	3	1	..	7	8	15
	Above 5 years	2	..	3	1	1	1	..	..	6	2	8
Out-Township Workhouse and Hospitals.	Below 5 years	1	1	..	1	..	..	..	..	1	2	3
	Above 5 years	1	..	3	..	..	..	..	..	4	..	4
Everton	Below 5 years	11	12	14	8	29	22	16	14	70	56	126
	Above 5 years	4	3	5	2	2	..	1	3	12	8	20
Kirkdale	Below 5 years	5	6	7	2	11	12	7	6	30	26	56
	Above 5 years	1	1	3	..	3	..	1	1	8	2	10
West Derby	Below 5 years	7	6	12	9	12	15	14	9	45	39	84
	Above 5 years	..	2	3	..	1	..	..	2	4	4	8
North Toxteth	Below 5 years	5	4	6	6	9	10	9	9	29	29	58
	Above 5 years	4	..	4	2	..	..	1	..	9	2	11
South Toxteth	Below 5 years	4	5	7	7	13	12	11	6	35	30	65
	Above 5 years	2	..	3	3	1	..	..	..	6	3	9
Parish	Below 5 years	20	13	20	17	33	33	20	22	93	85	178
	Above 5 years	5	1	11	3	5	5	4	4	25	13	38
Out-Townships	Below 5 years	33	34	46	33	74	71	57	44	210	182	392
	Above 5 years	12	6	21	7	7	..	3	6	43	19	62
City	Below 5 years	53	47	66	50	107	104	77	66	303	267	570
	Above 5 years	17	7	32	10	12	5	7	10	68	32	100

Mr. Hartnup has kindly supplied the following Meteorological Table :—

LIVERPOOL OBSERVATORY.

DATE—1880.	Mean Barometer.	Mean Temperature.	Rainfall on Ground.
	Inches.	°	Inches.
January	30·330	35·8	0·742
February	29·681	43·3	1·249
March	30·063	44·0	1·792
April	29·845	47·1	1·055
May	30·102	51·0	2·133
June	29·913	57·1	2·423
July	29·844	59·5	4·687
August	30·021	62·6	1·513
September	29·938	58·8	2·909
October	29·925	45·6	4·659
November	29·884	42·8	3·116
December	29·853	42·4	5·060

Mr. Hagger, the Vestry Clerk, has kindly supplied the following Tables:—

PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital.

1880. Week Ending	Scarlatina. No. at commencement of week.	Scarlatina. Admitted.	Scarlatina. Discharged.	Scarlatina. Died.	Scarlatina. Remaining at end of week.	Small Pox. No. at commencement of week.	Small Pox. Admitted.	Small Pox. Discharged.	Small Pox. Died.	Small Pox. Remaining at end of week.	Typhoid. No. at commencement of week.	Typhoid. Admitted.	Typhoid. Discharged.	Typhoid. Died.	Typhoid. Remaining at end of week.
Jan. 3	11	1	4	1	7	..	..	..	..	..	3	..	..	..	3
,, 10	7	3	2	..	8	..	..	..	..	..	3	1	..	..	4
,, 17	8	2	2	..	8	..	..	..	..	..	4	1	..	..	5
,, 24	8	2	2	2	6	..	..	..	..	..	5	..	..	..	5
,, 31	6	2	..	..	8	..	..	..	..	..	5	1	1	..	5
Feb. 7	8	1	1	1	7	..	..	..	..	..	5	..	..	..	5
,, 14	7	4	6	1	4	..	..	..	..	..	5	6	1	..	10
,, 21	4	2	..	..	6	..	..	..	..	..	10	..	4	1	5
,, 28	6	..	2	..	4	..	..	..	..	..	5	..	1	1	3
March 6	4	2	1	..	5	..	..	..	..	..	3	2	1	1	3
,, 13	5	2	1	..	6	..	..	..	..	..	3	1	2	..	2
,, 20	6	3	1	..	8	..	..	..	..	..	2	1	1	..	2
,, 27	8	1	2	..	7	..	..	..	..	..	2	1	..	1	2
April 3	7	..	2	..	5	..	..	..	..	..	2	1	1	..	2
,, 10	5	2	3	..	4	..	..	..	..	..	2	2	..	..	4
,, 17	4	2	2	..	4	..	..	..	..	..	4	1	..	..	5
,, 24	4	1	1	..	4	..	..	..	..	..	5	2	3	1	3
May 1	4	1	1	1	3	..	..	..	..	..	3	1	1	..	3
,, 8	3	3	..	..	6	.	..	..	..	..	3	3	4	1	1
,, 15	6	..	3	..	3	..	..	..	..	..	1	1	..	..	2
,, 22	3	..	2	..	1	..	..	..	..	..	2	..	..	..	2
,, 29	1	2	..	..	3	..	.	..	..	..	2	2	2	..	2
June 5	3	..	..	..	3	..	..	..	..	..	2	3	..	..	5
,, 12	3	6	1	..	8	..	..	..	..	..	5	..	..	..	5
,, 19	8	5	..	..	13	..	..	..	.	..	5	..	1	..	4
,, 26	13	1	..	1	13	..	..	..	..	..	4	1	3	1	1
July 3	13	1	1	..	13	..	..	..	..	..	1	2	1	1	1
,, 10	13	..	4	1	8	..	2	..	.	2	1	..	..	..	1
,, 17	8	3	..	..	11	2	..	2	..	..	1	..	..	..	1
,, 24	11	2	1	..	12	..	..	..	..	..	1	5	3	..	3
,, 31	12	6	5	..	13	..	..	.	..	..	3	1	..	..	4
Aug. 7	13	1	..	1	13	..	..	..	..	..	4	1	..	..	5
,, 14	13	5	7	2	9	..	..	..	..	..	5	1	..	..	6
,, 21	9	6	1	1	13	..	..	..	..	..	6	3	..	1	8
,, 28	13	6	2	2	15	..	..	..	..	..	8	2	..	1	9
Sept. 4	15	1	..	..	16	..	..	..	..	..	9	1	1	..	9
,, 11	16	2	3	..	15	..	..	..	..	..	9	1	..	..	10
,, 18	15	2	4	1	12	..	2	1	..	1	10	2	1	1	10
,, 25	12	5	5	2	10	1	..	..	..	1	10	11	3	1	17
Oct. 2	10	5	2	1	12	1	..	..	..	1	17	..	6	1	10
,, 9	12	8	1	..	19	1	..	..	..	1	10	10	2	..	18
,, 16	19	9	..	3	25	1	..	1	..	..	18	1	..	1	18
,, 23	25	2	3	..	24	..	..	..	..	..	18	4	3	..	19
,, 30	24	5	3	..	26	..	..	..	..	..	19	1	4	..	16
Nov. 6	26	7	3	2	28	..	..	..	..	..	16	2	6	..	12
,, 13	28	4	5	..	27	..	..	..	..	..	12	3	4	2	9
,, 20	27	3	8	1	21	..	..	..	..	..	9	..	..	..	9
,, 27	21	..	2	1	18	..	..	..	..	..	9	..	2	..	7
Dec. 4	18	3	1	..	20	..	..	..	..	..	7	1	2	..	6
,, 11	20	4	8	..	16	..	..	..	..	..	6	2	6	..	2
,, 18	16	3	1	1	17	..	..	..	..	..	2	1	1	..	2
,, 25	17	2	3	..	16	..	..	..	..	..	2	2	2	..	2

PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital.

1880. Week Ending	Typhus. No. at commencement of week.	Typhus. Admitted.	Typhus. Discharged.	Typhus. Died.	Typhus. Remaining at end of week.	Simple Continued. No. at commencement of week.	Simple Continued. Admitted.	Simple Continued. Discharged.	Simple Continued. Died.	Simple Continued. Remaining at end of week.	Measles. No. at commencement of week.	Measles. Admitted.	Measles. Discharged.	Measles. Died.	Measles. Remaining at end of week.
Jan. 3....	12	2	2	1	11	17	9	4	..	22	22	18	8	1	31
,, 10....	11	7	4	..	14	22	17	16	..	23	31	12	10	6	27
,, 17....	14	2	1	1	14	23	6	7	..	22	27	2	2	4	23
,, 24....	14	2	2	..	14	22	13	13	..	22	23	9	10	1	21
,, 31....	14	..	1	..	13	22	6	5	1	22	21	2	2	2	19
Feb. 7....	13	2	5	..	10	22	10	9	..	23	19	4	8	..	15
,, 14....	10	7	2	1	14	23	4	7	..	20	15	4	1	2	16
,, 21....	14	5	5	2	12	20	3	5	..	18	16	1	7	2	8
,, 28....	12	3	1	1	13	18	3	6	1	14	8	1	3	..	6
March 6....	13	3	2	..	14	14	1	5	..	10	6	4	2	..	8
,, 13....	14	8	6	1	15	10	6	5	1	10	8	1	1	..	8
,, 20....	15	2	1	1	15	10	2	4	1	7	8	2	2	..	8
,, 27....	15	3	2	..	16	7	4	5	..	6	8	6	..	..	14
April 3....	16	..	8	1	7	6	2	1	..	7	14	3	5	1	11
,, 10....	7	9	2	..	14	7	5	4	..	8	11	5	3	4	9
,, 17....	14	3	4	..	13	8	3	4	..	7	9	2	2	2	7
,, 24....	13	..	2	..	11	7	1	2	..	6	7	3	..	1	9
May 1....	11	5	1	..	15	6	4	4	..	6	9	7	5	2	9
,, 8....	15	2	3	1	13	6	3	4	..	5	9	3	2	..	10
,, 15....	13	2	..	2	13	5	3	3	..	5	10	4	2	2	10
,, 22....	13	3	7	..	9	5	4	2	..	7	10	1	3	2	6
,, 29....	9	..	2	..	7	7	5	6	..	6	6	7	3	..	9
June 5....	7	7	1	1	12	6	6	3	1	8	9	3	1	3	8
,, 12....	12	8	1	..	19	8	3	..	1	10	8	..	1	1	6
,, 19....	19	4	6	3	14	10	7	7	..	10	6	5	3	1	7
,, 26....	14	2	..	..	16	10	6	9	..	7	7	3	..	..	10
July 3....	16	10	3	..	23	7	7	9	..	5	10	3	3	..	10
,, 10....	23	4	3	..	24	5	4	4	..	5	10	3	4	..	9
,, 17....	24	2	7	..	19	5	8	6	..	7	9	..	3	..	6
,, 24....	19	2	6	..	15	7	3	6	..	4	6	..	6	..	..
,, 31....	15	3	7	..	11	4	7	3	..	8	..	3	..	..	3
Aug. 7....	11	1	1	..	11	8	3	4	..	7	3	..	..	..	3
,, 14....	11	2	..	..	13	7	4	2	1	8	3	..	..	..	3
,, 21....	13	5	8	..	10	8	10	6	..	12	3	..	1	..	2
,, 28....	10	1	1	1	9	12	4	7	..	9	2	..	..	..	2
Sept. 4....	9	..	1	..	8	9	13	5	1	16	2	..	2	..	..
,, 11....	8	6	.	2	12	16	4	5	1	14	..	..	..	..	..
,, 18....	12	4	3	..	13	14	6	4	2	14	..	..	..	..	..
,, 25....	13	2	2	1	12	14	6	10	..	10	..	..	..	..	..
Oct. 2....	12	2	4	1	9	10	1	1	..	10	..	..	..	..	..
,, 9....	9	5	3	..	11	10	6	5	..	11	..	1	..	..	1
,, 16....	11	1	2	..	10	11	2	7	..	6	1	..	..	..	1
,, 23....	10	10	2	..	18	6	1	3	..	4	1	..	1	..	..
,, 30....	18	7	..	..	25	4	6	3	..	7	..	..	..	..	..
Nov. 6....	25	3	1	..	27	7	2	2	..	7	..	..	..	..	..
,, 13....	27	3	4	1	25	7	9	5	..	11	..	..	..	..	..
,, 20....	25	8	4	1	28	11	8	4	..	15	..	..	..	..	..
,, 27....	28	11	6	3	30	15	6	5	..	16	..	..	..	..	..
Dec. 4....	30	9	6	1	32	16	3	5	..	14	..	..	..	..	..
,, 11....	32	9	7	2	32	14	4	7	..	11	..	..	..	..	..
,, 18....	32	4	5	1	30	11	4	2	..	13	..	..	..	..	..
,, 25....	30	7	1	..	36	13	4	3	1	13	..	..	..	..	..

PARISH OF LIVERPOOL.

Return of Persons in Receipt of Relief in the Year 1880.

Week ending.	Work-house.	Industrial Schools.	Out-Relief.	Week ending.	Work-house.	Industrial Schools.	Out-Relief.
1880.				1880.			
January 3..	3053	846	2836	July 3..	2774	697	2576
,, 10..	2999	872	2780	,, 10..	2781	727	2611
,, 17..	3042	874	2714	,, 17..	2804	720	2582
,, 24..	3044	861	2776	,, 24..	2808	755	2595
,, 31..	3086	847	2775	,, 31..	2777	747	2579
February 7..	3069	852	2859	August 7..	2698	781	2559
,, 14..	3094	854	2859	,, 14..	2722	755	2571
,, 21..	3094	839	2873	,, 21..	2723	786	2578
,, 28..	3084	828	2934	,, 28..	2774	776	2602
March 6..	3091	828	2923	September 4..	2780	908	2614
,, 13..	3047	814	2887	,, 11..	2830	885	2618
,, 20..	3009	812	2816	,, 18..	2860	917	2657
,, 27..	2960	809	2794	,, 25..	2906	900	2673
April 3..	2892	812	2734	October 2..	2878	935	2637
,, 10..	2863	792	2698	,, 9..	2974	926	2657
,, 17..	2863	787	2721	,, 16..	2920	951	2659
,, 24..	2862	793	2681	,, 23..	3012	941	2644
May 1..	2800	770	2760	,, 30..	3046	946	2665
,, 8..	2749	759	2699	November 6..	3110	940	2692
,, 15..	2744	752	2690	,, 13..	3136	986	2701
,, 22..	2786	754	2643	,, 20..	3212	983	2716
,, 29..	2838	740	2675	,, 27..	3216	1008	2763
June 5..	2802	733	2617	December 4..	3222	1008	2762
,, 12..	2826	729	2622	,, 11..	3196	1010	2752
,, 19..	2826	707	2636	,, 18..	3222	991	2718
,, 26..	2772	709	2595	,, 25..	3214	1016	2732

These show that the average number of persons suffering from Continued Fever (including therein Typhus, Typhoid, and simple Continued Fever) at one time in Hospital during the year 1880 was 32, and their percentage Death-rate was 9·6. The average number of cases of Measles at one time in Hospital during the year was 7, and the percentage Death-rate was 25·7; the average number of cases of Scarlatina at one time in the Hospital during the year was 11, and the percentage Death-rate was 16·9.

The number of persons in receipt of Parochial Relief on Saturday, 26th of June, 1880, was 6,076, or 146 more than at the corresponding period of 1879; and the number on Saturday, the 25th December, 1880, was 6,962, or 232 more than at the same period of 1879.

SANITARY WORK.

Privies Certified for Conversion into Water Closets during the year 1880.

WARDS.	No. of Privies Certified.
Scotland	46
Vauxhall	2
St. Paul's	14
Exchange	1
St. Anne's	44
Lime Street	59
St. Peter's	14
Pitt Street	10
Great George	41
Rodney Street	149
Abercromby	143
Everton	491
Kirkdale	158
West Derby	530
North Toxteth	173
South Toxteth	112
TOTAL	1987

The City Engineer has kindly supplied the following tables :—

Return showing the number of Houses Erected, and the number of Houses Taken Down in each of the Sixteen Wards during the year 1880 :—

No.	WARDS.	Houses Erected.	Houses taken down.
1	Everton and Kirkdale	720	74
2	Scotland	5	84
3	Vauxhall	....	2
4	St. Paul's	....	20
5	Exchange	....	12
6	Castle Street	1	....
7	St. Peter's	....	12
8	Pitt Street	1	....
9	Great George	....	....
10	Rodney Street	3	3
11	Abercromby	9	71
12	Lime Street	4	1
13	St. Anne's	....	14
14	West Derby	549	23
15	North Toxteth	589	....
16	South Toxteth	214	15
	TOTAL	2095	331

SEWER VENTILATION.

Number of Iron Pipe Ventilating Shafts, fitted with Archimedian Extractors 1,018

Length of Sewers Ventilated under present system ..... 152 Miles

Number of Street Ventilating Gratings fixed 3,353

LODGING-HOUSES.

The Health Committee have, since the passing of the Sanitary Act, 1866, ruled that, as far as possible, all registered lodging-houses should have a day apartment for the accommodation of their lodgers, and that all houses where single rooms were occupied by day and night should be registered as sub-let. The space required for a night lodger in a registered lodging-house is 300 cubical feet, while the space in a sub-let house for each adult is 350 feet.

There were on the register 1,064 lodging-houses at the end of 1879, and 1,088 at the end of 1880. This difference was occasioned by the removal of 283 old licenses, and the addition of 307 new ones. The visits to lodging-houses are both by day and night. The lodging-houses of the better class, and especially those provided only with single beds for each person, and only with the number of beds equivalent to the number of lodgers allowed, are not visited at night except on grave suspicion or on complaint, or in the case of foreign emigrant lodging-houses. The night visits are pretty nearly restricted to the low districts and tramp houses. The number of day visits paid during the year was 42,099, and the night visits 6,444. The number of lodging-houses found overcrowded on the night visits was 56, the number of informations laid for breaches of the bye-laws was 156, with the results of fines in 146 cases to the extent of £27 15s. 6d., in sums varying from 1s. to 10s. and costs. The number of lodging-houses found dirty was 210; notices were served to lime-wash and cleanse.

It is necessary frequently to visit houses which are not licensed either as lodging or sub-let houses, especially when emigration is brisk or at race times. There were 2,887 such visits paid during the day, and in 88 of the cases where suspicion was confirmed they were followed up by night visits. A tenant harbouring lodgers is not taken before the Justices for the first offence, but is noticed to apply to have his rooms measured and licensed. There were 260 such notices issued during the year, but in only 15 cases did the tenants refuse to comply; they were brought before the Justices and fined. A bye-law requires that every case of infectious sickness in a lodging-house should be at once reported to the Medical Officer of Health. 33 cases of fever and one case of small pox occurred in lodging-houses; in 26 of the cases the patients were at once sent to hospital, the remaining 8, being members of the keepers' families, were not removed; 4 of these latter died. In all cases of fever or infectious disease the bedding was at once removed to the disinfecting apparatus, and the rooms purified and cleansed; in the cases where the patients remained, the licenses to receive lodgers were suspended by the Medical Officer. No

lodger died from fever or small pox in a registered lodging-house; but, not including the cases of fever, there were 128 deaths from non-contagious diseases in lodging-houses, of which 94 belonged to the keepers' families and 34 were lodgers.

SUB-LET HOUSES.

The number of sub-let Houses on the Register at the termination of 1879 was 13,144; the number registered during 1880 was 1044, making the total on the Register on the 31st December, 14,188. The number of visits paid during the night was 11,656, and during the day 68,858, with the result of finding 1,474 rooms overcrowded. In addition to overcrowding, the offence (though not punishable in sub-let houses) of permitting males and females not married to occupy the same room comes under the notice, and is entered in the books of the Inspectors. There were 962 rooms thus indecently occupied by 1,435 males and 1,643 females, besides having also in these rooms 709 children between the ages of 5 and 13 years. The character of the indecent occupation may be judged of from the following facts:—In 483 instances one man and two women were found in the same bedroom; in 313 instances two men and one woman; in 71 instances two men and two women; in 45 instances one man and three women; in 29 instances three men and one woman; in eight instances two men and three women; in four instances three men and two women; in three instances one man and four women; in two instances three men and three women; in one instance two men and four women; in one instance four men and one woman; and in one instance nine men and three women.

Informations were laid against 1,212 chief tenants for permitting overcrowding in rooms, with the following results:—3 were fined 1s; 991 fined 1s. and 1s. costs; 2 fined 1s. and 1s. 6d. costs; 3 fined 2s. and 1s. costs; 4 fined 2s. and 2s. costs; 1 fined 2s. 6d. and 1s. costs; 147 fined 2s. 6d. and 2s. 6d. costs; 26 fined 5s. and 4s. 6d. costs; 9 fined 10s. and 4s. 6d. costs; and 2 fined 20s. and 4s. 6d. costs; making a total of fines levied during the year of £159. Of the remaining 24 cases, 16 informations were withdrawn and 8 acquitted, the tenants having abated the overcrowding.

LICENSES FOR CATTLE.

During the year 1880, 38 applications were made to the Health Committee for licenses to keep cows; 37 of the applications for keeping 346 cows were granted. There are at present 450 shippons licensed to keep 5,322 cows. 84 of the shippons previously licensed have been transferred to fresh tenants.

17 applications were made during the year to keep pigs in styes separate from, and unconnected with, shippons; 3 of the applications for keeping 8 pigs were granted. 14 piggeries, licensed to keep 32 pigs, have been given up during the year. 8 piggeries previously licensed have been transferred to fresh tenants. The total number of premises or styes now licensed in the City is 153, for keeping 461 pigs.

CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

This Act was referred to the Medical Officer to carry out in conjunction with the Veterinary Surgeon, the Inspector of Nuisances, and the Meat Inspectors. During the year Pleuro-pneumonia was found in 3 cowsheds, affecting 14 cows, which were slaughtered by order of the owners or of the Corporation; and 14 cows, which were not diseased, but had been either in contact with the affected ones or in the same cowsheds, were slaughtered by order of the owners.

Pig Typhoid was found amongst the swine imported from Ireland. The disease was detected in 13 pigs.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDER.

Number of applications for registration during the year	528	
Of which transfers were	178	
Number of applications granted	410	
" " refused	118	
Number on the register at the end of 1880		1328
" " " 1879		1223
An increase of		105

CANAL BOATS ACT, 1877.

Canal Boats Registered up to 31st December, 1880.

304 Boats.

83 Boats occasionally used as "fly" boats; when so used are allowed 173 persons in both cabins. When not used as "fly" boats they are allowed 103 in the after cabins and 94 in the fore cabins.

12 Boats only used as "fly" boats are allowed 46.

176 Boats have only the after cabins registered; 4 are allowed 3 persons each; 169 allowed 4 persons each; and 3 allowed 5 persons each.

33 Boats have both cabins registered; 4 are allowed 3 in the after cabin and 2 in fore cabin; 29 are allowed 4 in after cabin and 2 in fore cabin.

304

MORTUARIES.

During the year 59 bodies were, by order of the Justices on the certificate of the Medical Officer, removed to the Mortuaries provided by the Council under section 142 of the Public Health Act, 1875.

CASES OF INFECTIOUS DISEASE REPORTED DURING 1880.

Year—1880.	Small Pox.	Fever.	Scarlatina.	Measles.	Diphtheria	TOTAL.
January	—	65	91	173	5	334
February	1	69	68	62	13	213
March	—	65	41	54	11	171
April	—	74	59	60	5	198
May	1	62	88	50	7	208
June	5	73	79	61	3	221
July	—	66	72	44	2	184
August	1	64	66	22	1	154
September	3	127	72	19	10	231
October	1	122	158	15	7	303
November	1	127	144	39	12	323
December	1	115	105	22	3	246
TOTAL	14	1029	1043	621	79	2786
Removed to Hospital	8	650	182	60	4	904

Of the patients removed to Hospital the following were conveyed by the Sanitary Officers:—348 cases of Fever and Scarlatina, 5 cases of Small Pox, 14 cases of Measles, and 2 cases of Diphtheria, making a total of 369 persons. 88 were taken to Netherfield Road Hospital, 248 to the Parish Workhouse Hospital, 9 to Toxteth Workhouse Hospital, and 24 to West Derby Union Hospital.

DISINFECTION OF HOUSES.

In all cases of infectious disease the houses were disinfected, free of cost, with sulphurous gas, by officers appointed by the Health Committee; but whenever there was sickness in any room of the house, so as to endanger health by the use of sulphurous gas, carbolic acid powder was freely sprinkled in the rooms and passages of the house until the sulphurous gas could be used safely. No house is considered properly disinfected until sulphurous gas has been used. The existence of sickness, and the consequent employment of carbolic acid powder, necessitate many visits by the persons in charge of disinfection. There were in all 4,059 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 1,759.

THE DISINFECTING APPARATUS.

The number of articles disinfected at the Apparatus during the year amounted to 29,588.

Date. 1880.	Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending—					
January 10.....	32	56	256	196	540
,, 17.	41	66	297	268	672
,, 24.....	35	58	239	201	533
,, 31.....	63	47	280	519	909
February 7.....	41	110	285	119	555
,, 14.....	31	42	207	148	428
,, 21.....	52	60	466	1110	1688
,, 28.....	20	65	230	217	532
March 6.....	29	38	189	255	511
,, 13.....	31	55	236	727	1049
,, 20.....	26	31	143	218	418
,, 27.....	23	31	131	131	316
April 3.....	24	30	155	60	269
,, 10.....	29	42	217	161	449
,, 17.....	43	25	201	99	368
,, 24.....	52	27	984	1017	2080
May 1.....	20	34	128	54	236
,, 8.....	29	65	324	150	568
,, 15.....	35	61	279	431	806
,, 22.....	19	28	178	152	377
,, 29.....	30	39	199	112	380
June 5.....	23	46	205	163	437
,, 12.....	22	42	161	302	527
,, 19.....	32	58	241	136	467
,, 26.....	38	45	205	68	356
July 3.....	21	24	127	86	258
,, 10.....	35	42	172	61	310
,, 17.....	31	44	152	38	265
,, 24.....	38	50	265	181	534
,, 31.....	21	23	138	31	213
August 7.....	18	50	117	33	218
,, 14.....	28	45	171	182	426
,, 21.....	56	82	341	221	700
,, 28.....	39	43	216	302	600
September 4.....	35	39	211	215	500
,, 11.....	32	31	197	162	422
,, 18.....	37	40	252	669	998
,, 25.....	58	58	283	345	744
October 2.....	52	59	267	314	692
,, 9.....	42	37	247	131	457
,, 16.....	44	65	322	80	511
,, 23.....	55	80	393	239	767
,, 30.....	34	45	302	191	572
November 6.....	42	60	280	132	514
,, 13.....	54	89	348	218	709
,, 20.....	49	75	359	110	593
,, 27.....	43	53	234	191	521
December 4.....	48	60	288	119	515
,, 11.....	34	40	220	167	461
,, 18.....	38	62	321	114	535
,, 25.....	12	21	109	205	347
1881—January 1	34	56	286	360	736
Totals	1,849	2,574	13,054	12,111	29,588

The number of articles destroyed at the Apparatus during the year amounted to 518.

Date. 1880.	Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending—					
January 10.....	4	12	10	..	34
,, 17.....	1	3	1	..	5
,, 24.....	1	7	1	..	9
,, 31.....	..	4	..	..	4
February 7.....	1	4	7	..	12
,, 14.....	2	6	..	..	8
,, 21.....	3	7	7	21	38
,, 28.....	..	4	2	..	6
March 6.....	2	6	..	..	8
,, 13.....	2	..	2	..	4
,, 20.....	..	10	..	..	10
,, 27.....	2	2	..	..	4
April 3.....	..	..	..	13	13
,, 10.....	..	7	..	..	7
,, 17.....	1	6	..	..	7
,, 24.....	1	1	..	..	2
May 1.....	1	4	2	..	7
,, 8.....	5	4	8	..	17
,, 15.....	1	2	2	13	18
,, 22.....	..	..	..	..	..
,, 29.....	2	2	..	..	4
June 5.....	2	..	4	..	6
,, 12.....	..	7	8	..	15
,, 19.....	..	2	6	..	8
,, 26.....	4	7	1	..	12
July 3.....	4	4	3	..	11
,, 10.....	3	4	..	..	7
,, 17.....	1	4	4	..	9
,, 24.....	1	1	..	..	2
,, 31.....	6	9	9	..	24
August 7.....	..	..	..	..	..
,, 14.....	..	1	..	..	1
,, 21.....	..	1	..	..	1
,, 28.....	3	4	8	6	21
September 4.....	2	6	..	..	8
,, 11.....	1	5	1	..	7
,, 18.....	1	4	..	..	5
,, 25.....	11	3	3	2	19
October 2.....	2	10	..	..	12
,, 9.....	1	2	..	..	3
,, 16.....	1	4	..	..	5
,, 23.....	3	5	3	..	11
,, 30.....	1	2	1	..	4
November 6.....	3	10	2	6	21
,, 13.....	4	8	3	4	19
,, 20.....	..	2	..	..	2
,, 27.....	3	6	..	41	50
December 4.....	1	4	1	..	6
,, 11.....	1	2	..	2	5
,, 18.....	..	4	..	..	4
,, 25.....	..	..	..	..	..
1881—January 1	..	3	..	..	3
Totals	88	215	99	116	518

INSPECTOR OF NUISANCES' REPORT FOR THE YEAR 1880. SLAUGHTER-HOUSE RETURNS OF CATTLE KILLED IN THE CITY, 1880.

	STREET.	Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Dead Meat imported for Sale at the Abattoir.		
							Beasts.	Sheep.	Pigs.
	Abattoir	21301	199815	..	12899	10264	8727	33464	..
	Foreign Animals' Wharf— Huskisson Dock / Canada Dock	8676	1973	..	..	..	..	..	..
New Parts.	Arch No. 30	106	88	..	3	1061	..	..	..
	Back Butler Street	273	1467	..	1	..	..	..	..
	Back Castle Street	343	1274	118	37	..	..	..	..
	Back Mount Vernon Green	364	5251	1462	85	..	..	..	..
	Browside	267	996	131	..	..	..	..	..
	Byles Street	67	2088	430	1	..	.	..	..
	Corlett Street	352	3203	773	3	27	..	..	..
	Cotter Street	..	..	..	..	1715	..	..	..
	Crown Street	220	744	216	..	5	..	..	..
	Darnley Street	..	..	..	..	1711	..	..	..
	Edgeware Street	44	568	..	4	..	..	..	..
	Embledon Street	603	2419	748	38	28	..	..	..
	Foley Street	584	2872	82	28	7	..	..	..
	Gelling Street	469	809	378	126	..	..	..	..
	Grinfield Street	2	..	..	..	8	..	..	..
	Parliament Street	273	1645	394	168	1	..	..	..
	Peel Street	3	12	2	..	..	..	..	..
Old Parts.	Bachelor Street	70	697	160	..	..	..	..	..
	Back Commutation Row (1)	497	2453	234	..	..	..	..	..
	,, ,, (2)	549	2848	..	4	..	..	..	..
	Benledi Street	97	182	41	5	..	..	..	..
	Bevington Hill	1403	844	32	272	..	.	..	..
	Bolton Street	405	2983	3	49	..	..	..	..
	Byrom Street	..	..	..	..	791	..	..	..
	Cross Street	..	..	..	..	10293	.	..	..
	Finch Place	523	3670	3	130	..	.	..	..
	Frederick Street	737	2687	267	12	106	..	..	..
	Hodson Street	505	4343	249	1	..	..	..	..
	Leeds Street	762	887	44	1	1375	..	..	...
	Lydia Ann Street	100	124	192	..	7	..	..	..
	Norfolk Street	138	1526	246	..	3	..	..	..
	Norman Street	..	..	..	..	2480	..	..	..
	Plumbe Street	..	..	..	..	1538	..	..	..
	Price Street	233	1365	91	..	1	..	..	..
	Scotland Road	27	584	26	24	..	..	..	..
	Soho Street	..	..	..	..	2019	..	..	..
	Stanley Road	244	296	7	257	390	..	..	..
	St. James Street	220	1614	143	..	..	..	..	..
	Upper Milk Street	1500	886	..	..	13004	..	..	..
	Total in Private Slaughter-houses	11980	51425	6472	1249	36570	..	..	..
	Total in the City	41957	253213	6472	14148	46834	8727	33464	..

UNWHOLESOME MEAT, FISH, &c., SEIZED AND DESTROYED.

	DATE.—1880.	Beef.	Veal.	Mutton.	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Miscellaneous.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	
Slaughter Houses.	Abattoir	125569	16177	107408	..	5857	..	..	..	..	179717 Oysters.
	Bevington Hill	2720	564	1246	..	..	..	..	..	..	5000 ,,
	Benledi Street	480	..	436	..	..	..	..	..	..	20000 ,,
	Bolton Street	30	194	..	..	..	..	..	..	..	
	Bachelor Street	..	..	68	..	..	..	..	..	..	
	Back Castle Street	360	..	..	..	..	..	..	..	..	
	Cross Street	..	..	..	..	2620	..	..	..	..	
	Cotter Street	..	..	..	..	546	..	..	..	..	
	Darnley Street	..	..	..	..	200	..	..	..	..	
	Finch Place	..	..	323	..	30	..	..	..	..	
	Frederick Street	..	..	45	..	..	..	..	..	..	
	Foley Street	..	70	50	..	..	..	..	..	..	
	Gelling Street	2905	130	..	..	85	..	..	..	..	
	Leeds Street	820	..	111	..	130	..	..	..	..	
	Price Street	500	..	54	..	..	..	..	..	..	
	Parliament Street	975	762	54	..	..	..	..	..	..	
	Sandhills	1160	..	48	..	..	..	..	..	..	
	St. James Street	264	..	568	..	..	..	..	..	..	
	Upper Milk Street	4965	257	2288	..	2509	..	..	..	..	
Markets	Cleveland Square	..	..	335	..	..	..	..	..	..	St. John's Market
	St. John's	1761	200	837	..	123	385	653	181753	178	Central Station
	St. James'	166	180	190	..	80	..	..	..	..	Hood Street
	St. Martin's	419	..	..	..	44	..	..	300	..	
Other Parts.	Argyle Street	..	..	..	..	10304	..	..	..	..	34 Head of Game.
	Athol Street	..	..	..	..	..	..	..	6	..	279 Oranges.
	Back Rose Street	..	..	120	..	..	..	..	..	..	
	Breck Road	..	..	4	Livers	..	..	..	150	..	
	Brunswick Road	65	..	..	..	..	..	..	..	..	
	Brownlow Hill	..	..	..	..	40	..	..	..	..	
	Bamber Street	1100	..	..	..	..	..	..	..	..	
	Baker Street	..	..	..	..	..	..	..	15	..	
	Cable Street	..	..	..	..	448	..	..	..	..	
	Christian Street	..	..	48	..	..	..	..	..	..	
	Cheapside	..	..	..	..	720	..	..	..	..	
	Canada Dock	2400	..	435	..	5784	..	..	..	..	
	Copperas Hill	..	..	..	..	200	..	..	..	..	
	Circus Street	..	..	..	..	1680	..	..	..	..	
	Everton Road	64	..	..	..	..	..	..	10	..	
	Falkner Street	101	..	..	..	14	..	..	..	..	
	Great Charlotte Street	..	..	..	..	201	13	..	7408	..	
	Gill Street	..	..	..	..	113	..	..	..	..	
	Great Homer Street	228	..	5040	..	..	..	..	..	..	St. John's Market
	Glenny Street	520	..	..	..	..	..	..	..	..	,,
	Great George Place	50	..	..	..	..	..	..	..	..	
	Hill Street	284	..	15	..	..	..	..	..	..	
	Huskisson Dock	4563	..	..	..	..	..	..	..	..	
	Heyworth Street	9	..	23	..	..	..	..	..	..	
	King Street	..	..	..	..	..	..	..	3360	..	
	Knight Street	..	..	130	..	..	..	..	..	..	
	Carried forward	152478	18534	119886	..	31728	398	653	193002	178	..

UNWHOLESOME MEAT, FISH, &c., SEIZED AND DESTROYED.

Continued.

DATE.—1880.	Beef.	Veal.	Mutton	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Miscellaneous.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	
Brought forward ..	152478	18534	119886	..	31728	398	653	193002	178	
OTHER PARTS.										
Islington	..	..	..	..	117	35	..	..	..	
Kirkdale Road	..	..	..	..	..	..	..	20	..	
London Road.....	..	..	..	..	173	..	..	..	..	
Lime Street	112	..	..	..	20	..	..	..	..	
Limekiln Lane	..	..	..	..	25	..	..	..	..	
Mill Street.....	18	..	98	..	190	..	..	24	..	
Mount Vernon Street	..	..	70	..	..	..	..	..	..	
Mathew Street	..	..	..	..	2392	..	..	..	..	
Myrtle Street	375	..	35	..	..	..	..	20	..	
Netherfield Road	29	..	..	..	..	..	..	..	..	
Northumberland St.	55	..	..	..	..	..	..	..	..	
Overbury Street	14	..	..	..	..	..	..	..	..	
Oriel Street	..	..	..	..	..	..	..	25	..	
Preston Street	..	..	..	..	..	102	..	..	..	
Pitt Street.....	35	..	569	..	..	..	..	4592	..	
Prince's Dock	..	..	..	..	120	..	..	..	..	
Park Road	143	..	..	..	9	..	..	..	..	
Paddington	.. 7	..	..	..	..	..	..	..	..	
Rose Street	..	..	..	..	..	9	..	8049	..	
Renshaw Street.....	..	..	.	..	..	6	..	..	..	
Roscommon Street ..	..	..	33	..	..	..	..	..	..	
Richmond Row	54	..	..	..	..	..	..	..	..	
Scotland Road	2145	810	366	..	980	..	..	..	..	
Stanley Road.....	935	366	478	..	..	..	..	8	..	
Smithdown Lane	..	..	..	..	..	..	..	15	..	
Shannon Street.....	..	..	..	.	..	..	..	15	..	
Sawney Pope Street..	..	..	..	..	..	..	..	609	..	
Sandon Dock	..	..	44	..	..	..	..	..	..	
Soho Street	25	..	..	..	..	..	..	..	..	
St Anne Street	7	..	..	..	..	..	..	..	..	
Smith Street	13	..	..	..	..	..	..	..	..	
Tarlton Street	43	..	..	..	..	..	..	..	..	
Titchfield Street	..	..	..	..	..	..	..	12	.	
Victoria Street	..	..	..	..	..	..	..	570	..	
Vauxhall Road	..	..	..	..	320	..	..	52	..	
Whitechapel	..	..	..	..	..	114	..	..	..	
Wavertree Road	9	..	65	..	..	..	..	..	..	
Windsor Street.....	46	..	..	..	..	..	..	..	..	
Wapping	..	..	..	..	7600	..	..	..	..	
Whitefield Lane	..	..	.	..	..	..		8		
Total	156543	19710	121644	..	43674	664	653	207021	178	..

9000 Oysters.

Rose Street.....

	Tons.	cwts.	qsr.	lbs.
Equal to—Meat.....	152	9	2	27
,, Fish	92	8	1	15

Number of Visits to Slaughterhouses made by Meat Inspectors		16,330
,, Informations for Exposing for Sale Diseased Meat and Fish		112
,, Fined		92
,, Sent to Gaol		2
Amount of Fines	£244 0 3	

NUISANCES.

Nuisances inspected, complained of by Inhabitants	2,579
,, Reported by District Officers	65,097
,, Notices issued	36,373
,, Referred to the Medical Officer	5,561
,, ,, City Engineer	3,386
,, ,, Building Surveyor	887
,, ,, Water Engineer	8,130
,, ,, Superintendent of Scavengers	4,986
Number of Nuisance Informations	2,921
,, Fined	433
,, Magistrates' Orders to abate	994
,, Withdrawn and Acquitted, the work being done	1,494
Amount of Fines	£135 14 0

HOUSE TO HOUSE VISITATION.

Number of Streets Examined	3,480
,, ,, Houses Examined	73,250
,, ,, ,, found Clean	68,967
,, ,, ,, ,, Dirty	283
,, Apartments in Street Houses Examined	241,653
,, Courts Examined	5,590
,, Court Houses Examined	27,640
,, ,, ,, found Clean	23,915
,, ,, ,, ,, Dirty	3,725
,, Apartments in Court Houses Examined	82,562
,, Re-inspections of Dirty Houses	19,826
Total Number of Houses Examined	120,716

CELLAR EXAMINATION.

Number of Streets in which Cellars were Inspected	2,629
,, Cellars Inspected	31,557
,, ,, found Empty	17,324
,, ,, Illegally Occupied	963
,, ,, Legally ,,	13,270
,, Courts in which Cellars were Inspected	2,398
,, Cellars Inspected	11,448
,, ,, found Empty	8,914
,, ,, ,, Illegally Occupied	175
,, ,, ,, Legally ,,	2,359
,, Cellar Notices issued	969
,, ,, Informations	307
,, Fined	279
,, Withdrawn	18
,, of Cellars ordered to be Closed after second conviction	10
Amount of Fines	£32 13 6

INFECTED AND DIRTY HOUSES.

1,056 Infected Street Houses Inspected, containing	1,561 cases.
343 ,, Court ,, ,, ,,	459 ,,
58 ,, Cellars ,, ,, ,,	87 ,,
Number of Notices to Owners to Cleanse Infected Houses	1,528
,, ,, Occupiers to Whitewash Dirty Houses	9,277
,, ,, Owners to Whitewash Exteriors of Courts	3,116
,, Renewed Notices to Whitewash	5,571
,, Informations against Infected and Dirty Houses	734
,, Fined	95
,, Acquitted and Withdrawn	639
Amount of Fines	£36 14 0

SHIPPON AND PIGGERY INSPECTION.

Number of Shippons and Piggeries Inspected	1,09 2
,, Informations	16
,, Fined	15
Amount of Fines	£6 4 6

COURT AND PRIVY EXAMINATIONS.

Number of Visits to Courts and Alleys		125,372
,, Closets found Dirty, but Cleansed during Officer's Inspection		97,540
,, Informations		9
,, Fined		4
Amount of Fines	£0 13 0	

PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Informations against Manufactories		248
,, ,, Steamers		75
,, Fined		315
,, Acquitted or Withdrawn		8
Amount of Fines	£286 12 6	

PROCEEDINGS UNDER THE ADULTERATION ACT.

No. of Samples.	Description of Samples.	Results of Analysis.
245	Milk	23 were adulterated and informations laid.
23	Butter	11 ,, ,, ,,
23	Spirits	3 ,, ,, ,,
13	Coffee	2 ,, ,, ,,
9	Drugs	3 ,, ,, ,,
3	Cocoa	3 ,, ,, ,,
2	Beer	Not Adulterated.
2	Green Peas	,, ,,
2	Tea	,, ,,
322		

The number of prosecutions was 45, the result being that 6 cases were dismissed with a caution or withdrawn, and in 39 cases penalties were inflicted varying from 2s. to £10 and costs, amounting in all to £69 0s. 6d.

WATER CLOSET CONVERSIONS.

Number of Notices		651
,, Certified		1,987
,, Constructed		2,427
,, of Closets standing over from 31st December, 1879		412
,, Demolished		6
,, under Notices not expired, and Empty Houses		196
,, granted extension of time by Health Committee and Magistrates		210
,, of Informations		64
,, Fined		4
Amount of Fines	£4 7 6	

SMOTHERED CATTLE.

Goat.	Deer.	Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
1	1	73	250	62	218	169	28794

REMOVALS TO MORTUARIES AND HOSPITALS.

Bodies Removed to Mortuaries.			Persons Removed to Hospitals.			
Smithdown Rd.	St. Martin's.	Anfield.	Brownlow Hill.	Mill Road.	Toxteth Park.	Netherfield Rd.
9	50	..	248	24	9	88

KNACKERS' YARDS RETURNS.

Horses Destroyed.	Asses Destroyed.	Other Animals Destroyed.
2787	56	72

The following report has been kindly prepared by RICHARD S. REYNOLDS, M.R.C.V.S., the Veterinary Superintendent, who also has charge of the Scavenging Department :—

Year 1880.

TABLE No. 1.

NIGHT SERVICE FOR EMPTYING MIDDENS, COURT ASHPITS, AND SOME OFFICE ASHPITS.

Notices Received.	Middens, &c., Emptied.	Loads of Nightsoil and Ashes.							Nightly average Working Staff.				Analysis of Work.		Average contents of each Midden.
		Number Removed.			Where Deposited.										
		Manure.	Ashes.	Total.	Phillips Street.	Sandhills.	South Wharves.	Waver-tree and Inland	Midden Men.	Wharf Men.	Carts.	Horses.	Loads per Man per Night.	Loads per Cart per Night.	Cart Loads.
12,165	24,362	30,769	12,355	43,124	31,073	9,045	2,274	732	42·7	8·4	32·44	33·5	3·25	4·26	1·77

TABLE No. 2.

SERVICE FOR THE COLLECTION AND REMOVAL OF DRY ASHES.

Notices Received.	Ashpits Emptied.	Loads of Dry Ashes.							Average Daily Working Staff.			Analysis of Work.		Average contents of each Ashpit.
		Number Removed.			Where Deposited.									
		From Ashpits.	By "Bell" Carts.	Total.	Phillips Street.	Sandhills.	South Wharves.	Rubbish, Tips, &c.	Ashpit Men.	Carts and Wagons.	Horses.	Loads per Man per Day.	Loads per Cart per Day.	Cart Loads.
16,731	58,355	55,038	16,071	71,109	18,317	3,662	16,821	32,309	57·46	50·	52·77	3·96	4·56	1·21

TABLE No. 3.

SERVICE FOR FLUSHING AND CLEANSING TROUGH WATER CLOSETS.

Number of Urinals.	Number of Trough Water Closets.	Average Working Staff.	
		Trough W. C. Men.	Urinal Men.
204—450 Stalls.	3,729	46·4	11·8

TABLE No. 4.

SERVICE FOR CLEANSING, COLLECTION, AND REMOVAL OF REFUSE FROM STREETS, COURTS, PASSAGES, &c.

Loads of Street Sweepings Removed.						Average Daily Staff.				Average Number of Loads Removed Daily per Cart.
Total Number Removed.	Where Deposited.					Scavengers.	Sweeping Machines.	Carts.	Horses.	
	Phillips Street.	Sandhills.	Wavertree.	South Wharves.	Refuse on Tips and New Macadam.					
84,958	44,234	7,987	2,582	14,020	16,135	324	14	64·34	80·3	4·25

TABLE No. 5.

CLEANSING AND REMOVAL OF REFUSE FROM STREETS, COURTS, AND PASSAGES ON SUNDAYS.

Loads of Street Sweepings.												Average Daily Staff.	
Removed.				Where Deposited.									
				Phillips Street.		Sandhills.		River Craft Dock.					
Manure.	Ashes.	Refuse.	Total.	Manure.	Refuse.	Manure.	Refuse.	Manure.	Refuse.			Men.	Horses.
1860	38	1921	3819	1575	697	240	636	45	626	..	..	115·8	26·3

TABLE No. 6.

SERVICE FOR STREET WATERING.

Number of Days on which Carts were out.	Total Number of Loads Distributed.	Average Daily Staff employed during the Season.		Average Number of Loads Distributed Daily per Cart.
		Watermen.	Carts and Horses.	
139	181,807	22·8	34·	38·4

TABLE No. 7.

DESPATCHES OF MANURE AND REFUSE.

	Saleable Manure.				Unsaleable Refuse.					Grand Total.	Average Daily Staff.	
	Night Soil.	Sweepings.	Mixture.	Total.	Contractors.	Farmers.	Depôts.	Sea.	Total.		Inspectors and Foremen.	Labourers.
Phillips Street....	26,064	21,696	2,352	50,112	45,888	2,016	11,616	..	59,520	109,632		
Sandhills	288	..	48	336	13,488	240	..	..	13,728	14,064	1	13
Do. by Rail..	7,186	4,944	74	12,204	..	169	..	..	169	12,373		
Wavertree	527	2,416	158	3,101	..	128	..	..	128	3,229		1·27
River Craft Dock..	138	8,307	595	9,040	..	3,380	..	..	3,380	12,420	1	5·1
Do. by Hopper..	..	..	..	..	..	..	..	33,590	33,590	33,590		10·9
	34,203	37,363	3,227	74,793	59,376	5,933	11,616	33,590	110,515	185,308	2	30·27

TABLE No. 8.

HORSES.—DAILY AVERAGE NUMBER.

Hired.	Corporation Horses.				Supplied for various Works.												
					Scavenging.							City Engineer.					
Number.	Number.	Effective for Work.	Percentage of Ineffectives.	At Work every Sunday.	Night Soil Removal.	Dry Ash Removal.	Street Scavenging.	Yards, Stables, Stores, &c.	Market.	Superintendent.	Watering.	Paving.	Sewers Cleansing.	Brownlow Street.	Horsing Police Vans.	Disinfecting Vans, &c.	Improvement Committee.
18·65	246	239	2·84	52·6	33·5	52·77	80·3	7·37	1·1	1	15·2	42	10·2	1	7·7	4·48	1·3

Number Purchased.		Number Disposed of.		
Plant.	Maintenance.	Died.	Destroyed.	Sold.
—	42	8	0	31

TABLE No. 9.

AVERAGE DAILY STAFF OF MEN EMPLOYED.

General.					Night Service.			
Inspectors.	Timekeeper, Checker, &c.	Clerks.	Office Boys.	Total.	Inspectors	Midden Men.	Wharf Men.	Total.
1	2	4	2	9	4·1	42·4	8·4	54·9

Day Service.														
Inspectors and Foremen.	District Storekeepers.	Watermen.	Barrow Men.	Sweepers.	Cart Followers.	Passage Men.	Gully Men.	Trough Closet Men.	Urinal Men.	Ash Men.	Boat Men.	Crew Hopper Barge.	Orderly Boys.	Total.
20	8·2	10·	79·6	108·1	64·5	28	34	46·4	11·8	57·7	4	8·4	9·8	490·5

Stables, Yards, and Stores.				Workshops.					
Horsekeepers.	Night Watchmen.	Carters, Yardmen, Stablemen, and Storekeepers.	Total.	Cartwrights.	Shoeing Smiths.	Blacksmiths and Strikers.	Painters.	Labourers.	Total.
4	4	236·1	244·1	10·9	6	10·9	1·7	·9	30·4

Wharves, Depôts, &c.													Grand Total.
Phillips' Street.		Sandhills.		River Craft Dock.		Bromborough.		Gorsey Lane, Aintree, and Ford.		Various Town Deposit Places.		Total.	
Foreman.	Labourers.	Foreman.	Labourers.	Foreman.	Labourers.	Foreman.	Labourers.	Foreman.	Labourers.	Foreman.	Labourers.		
1	·	·	13	1	16	·	·2	1	23·4	·75	7	63·35	892·25

TABLE No. 10.

Daily Consumption of Provender and Weekly Cost per Horse per Week.

Food and Litter.

Days Keep.	Total Consumption of Food.		Daily Average Consumption per Horse.	Weekly Cost of each Horse's Keep.
			Lbs.	
	Corn	10,212 centals.	11·20	
	Beans and Peas ..	4,157½ ,,	4·56	
	Oats	210 ,,	·23	
90,151 Horses of Health Committee.	Bran	2,373 ,,	2·60	Gross weekly cost 14s 0d.
	Meal	707½ ,,	·77	Credit value of Manure ..... 1s. 6d.
1,012 Livery, &c.	Roots	234¼ cwt.	·28	
91,163	Grass.....	1274¼ ,,	1·56	12s. 6d.
	Hay	8,658 ,,	10·63	
	Straw	7,110 ,,	8·73	
	Sawdust	1,995 sacks.	·153	

(A) TABLE

IN THE URBAN SANITARY DISTRICT OF LIVERPOOL, CLASSIFIED ACCORDING TO DISEASES
AND THE BIRTHS THEREIN DURING THI

(I.) Names of Localities (being Parishes, Groups of Parishes, Townships, Wards, or other areas of known population) adopted for the purpose of these Statistics; Public Institutions being excluded. WARDS. 1.	Population at all Ages. Census, 1871. 2.	Population at all Ages. Estimated to middle of 1880. 3.	Registered Births. 4.	Mortality from all Causes, at Subjoined Ages. At all Ages. 5.	Under 1 Year. 6.	1 and under 5 7.	5 and under 15. 8.	15 and under 25. 9.	25 and under 60 10.	60 and upwards. 11.
Scotland	77033	68356	2790	2134	659	664	121	60	447	183
Vauxhall	18958	13773	538	473	133	129	23	19	125	44
St. Paul's and Exchange	23913	18598	657	598	160	158	29	17	152	82
St. Anne's and Lime Street	40231	36644	1091	859	254	203	41	22	250	89
Castle Street and St. Peter's	9423	5136	157	110	21	16	3	4	46	20
Pitt Street and Gt. George	23271	17613	594	503	127	103	20	18	163	7
Rodney Street and Abercromby	45582	40964	1441	754	177	139	41	37	208	15
Everton	90937	133389	4347	2431	796	605	128	94	501	30
Kirkdale	32978	58703	2309	1337	427	320	97	46	288	15
West Derby	50687	63064	2641	1362	408	336	55	59	284	22
The Toxteths	80392	87816	4218	2289	695	588	108	82	492	32
(II.) Public Institutions. Parish Workhouse & Hospitals	..	..	..	1580	114	124	76	120	805	34
(II.) Public Institutions. Out Township Workhouse and Hospitals	..	..	..	459	7	19	30	55	284	6
Totals	493405	544056	20783	14889	3978	3404	772	633	4045	20

Deaths occurring outside the division or district among persons belonging thereto	16	..	..	4	3	9	.
Deaths occurring within the division or district among persons not belonging thereto	10	..	..	1	8	1	.

OF DEATHS

AGES, AND LOCALITIES, AND SHOWING ALSO THE POPULATION OF SUCH LOCALITIES, YEAR ENDING 31ST DECEMBER, 1880.

MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS IN PERSONS UNDER FIVE YEARS OF AGE.

12.	Smallpox. 13.	Measles. 14.	Scarlatina. 15.	Diphtheria. 16.	Croup (not spasmodic). 17.	Whooping Cough. 18.	Continued Fevers. Typhus. 19.	Enteric or Typhoid 20.	Other or Doubtful. 21.	Diarrhœa and Dysentery. 22.	Cholera. 23.	Rheumatic Fever. 24.	Erysipelas. 25.	Pyæmia. 26.	Puerperal Fever. 27.	Ague. 28.	Phthisis. 29.	Bronchitis, Pneumonia, and Pleurisy. 30.	Heart Disease. 31.	Injuries. 32.	Other Diseases. 33.
Under 5	..	24	87	4	22	143	1	6	2	208	..	..	2	..	..	..	11	256	1	43	513
5 upwards	..	2	31	..	4	4	6	6	9	8	1	2	4	1	1	..	112	249	62	50	259
Under 5	..	22	21	..	1	21	..	..	..	47	..	..	..	..	..	..	1	48	..	11	90
5 upwards	..	..	6	..	..	..	3	3	..	3	..	1	1	..	..	..	38	66	10	19	61
Under 5	..	18	10	2	3	37	..	..	1	44	..	..	..	..	..	..	5	74	..	21	103
5 upwards	..	2	3	2	..	2	2	7	4	2	..	..	..	..	..	..	41	97	21	8	89
Under 5	..	13	12	1	12	41	1	..	2	57	2	..	..	..	..	..	2	107	..	20	187
5 upwards	..	1	7	1	1	1	2	9	1	2	..	..	1	..	1	..	87	84	50	15	139
Under 5	..	3	..	..	1	5	..	..	..	5	1	..	..	..	..	..	1	9	..	1	11
5 upwards	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	6	5	12	7	41
Under 5	..	15	3	2	6	31	..	..	..	28	..	..	2	.	..	..	5	41	1	8	88
5 upwards	..	..	3	..	1	..	1	2	..	1	..	..	2	..	..	2	61	57	27	15	101
Under 5	..	12	4	2	5	26	..	1	..	41	6	..	..	..	..	..	4	59	2	7	147
5 upwards	..	3	6	1	..	..	3	4	3	2	1	3	4	..	1	..	82	74	45	9	197
Under 5	..	18	69	9	48	122	..	1	2	181	1	..	6	..	..	..	19	289	1	37	598
5 upwards	..	..	26	6	5	3	2	20	1	8	..	5	2	2	1	..	179	220	101	21	428
Under 5	..	25	51	2	18	44	..	4	1	113	1	..	1	1	..	..	7	123	1	24	331
5 upwards	..	2	32	5	3	3	4	8	..	9	..	..	2	1	..	.	93	121	56	29	222
Under 5	..	35	23	4	18	54	..	4	..	85	..	..	2	..	..	.	3	146	2	11	357
5 upwards	..	3	13	2	1	4	4	10	2	4	1	1	4	1	1	..	129	115	60	6	257
Under 5	..	54	18	7	21	114	..	2	1	165	2	..	7	1	..	..	16	270	..	32	573
5 upwards	..	5	11	5	5	2	11	13	2	9	1	2	4	1	2	1	183	158	108	24	459
Under 5	..	25	11	1	8	5	..	..	..	9	..	..	2	1	..	..	1	43	..	17	115
5 upwards	..	3	11	1	1	1	30	13	1	10	..	..	4	6	..	..	204	274	182	108	493
Under 5	..	1	2	..	..	1	..	..	..	1	..	..	..	..	..	..	..	1	..	8	12
5 upwards	2	1	6	1	..	..	18	24	..	3	..	..	1	1	1	..	54	79	33	73	136
Under 5	..	265	311	34	163	644	2	18	9	984	13	..	22	3	..	..	75	1466	8	240	3125
5 upwards	2	22	155	24	21	20	86	120	24	61	4	14	29	13	8	3	1269	1599	767	384	2882
Under 5	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
5 upwards	..	..	4	..	..	..	9	1	2	..	..	..	..	..	..	..	..	..	..	..	..
Under 5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5 upwards	1	..	1	..	..	..	1	7	..	..	..	..	..	..	..	..	..	..	..	..	..

PHILIP'S PLAN OF LIVERPOOL

Mortality Map of Diarrhœa.
in 1880.

The Red Dots mark the number of Deaths

REFERENCE to the WARDS.

1 Everton & Kirkdale
2 Scotland
3 Vauxhall
4 St. Paul's
5 Exchange
6 Castle street
7 St. Peter's
8 Pitt street
9 Great George
10 Redney street
11 Abercromby
12 Lime street
13 St. Ann's street
14 West Derby
15 South Toxteth
16 North Toxteth

GEORGE PHILIP & SON LONDON & LIVERPOOL

DEATHS REGISTERED IN THE CITY OF LIVERPOOL,

DURING THE YEAR ENDING SATURDAY, 1st JANUARY, 1881.

CAUSE OF DEATH.	Male.	Female.	Age below 1	2	5	10	15	20	25	30	40	50	60	70	80	90	100	?	City of Liverpool.
All Causes	7696	7175	3363	1845	1535	542	326	357	375	455	1135	1264	1104	1163	672	165	21	1	14871
I.—Zymotic Diseases	1576	1597	1065	779	735	229	45	35	39	33	79	61	42	23	12	..	..	..	3173
II.—Diseases of Uncertain or Variable Seat	144	224	29	3	12	3	1	4	4	6	32	56	86	72	23	..	..	..	368
III.—Tubercular Diseases	1653	1014	279	192	173	84	68	160	150	169	344	271	131	62	..	..	..	..	2667
IV.—Diseases of the Brain, Spinal Marrow, &c.	807	731	308	143	104	58	22	19	17	30	84	103	151	139	89	16	1	..	1538
V.—Diseases of the Heart and Blood Vessels	399	393	1	1	7	13	19	29	29	30	137	150	148	152	79	12	..	..	792
VI.—Diseases of the Lungs, &c.	1700	1525	728	480	305	66	16	22	30	41	185	211	261	408	169	42	2	..	3225
VII.—Diseases of the Stomach, Liver, &c.	305	344	142	72	75	17	18	12	16	29	69	69	69	64	27	2	..	..	649
VIII.—Diseases of the Kidneys, &c.	175	97	4	1	19	26	8	11	12	13	33	47	46	30	28	2	..	..	272
IX.—Childbirth, Diseases of the Uterus, &c.	..	97	..	..	..	1	..	1	16	15	26	16	6	6	..	..	..	..	97
X.—Rheumatism, Diseases of the Joints, &c.	49	33	1	..	3	14	9	8	6	4	11	12	4	9	1	..	..	..	82
XI.—Diseases of the Skin, Cellular Tissue, &c.	26	25	12	2	4	2	1	..	5	2	9	6	5	2	2	..	..	..	51
XII.—Malformations	25	16	41	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40
XIII.—Premature Birth	157	99	256	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	256
XIV.—Atrophy and Debility	492	472	713	140	64	6	3	1	3	1	3	7	23	..	..	..	..	..	964
XV.—Old Age	185	298	..	..	..	..	..	..	..	..	..	..	..	128	228	109	18	..	483
XVI.—Privation, Cold, &c.	3	3	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
XVII.—Violence, &c.	503	249	183	33	42	35	33	28	24	47	112	101	90	32	17	2	..	1	752
Causes not specified	17	17	5	1	1	..	1	1	3	3	5	2	6	5	1	..	..	..	34
Males	..	..	2161	946	753	295	118	132	180	211	577	688	640	560	302	64	8	1	7696
Females	..	..	1800	899	782	247	208	155	195	224	558	576	554	603	370	101	13	..	7175