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REPORT
OF THE
HEALTH OF LIVERPOOL

DURING THE YEAR 1879,

BY J. STOPFORD TAYLOR, M.D.,

Medical Officer of Health.



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PRINTED BY HENRY COLEMAN, STATIONER AND PRINTER, 10, SOUTH STREET, LIVERPOOL.

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REPORT, 1879.

THE returns made to the Registrar General for the year 1879 comprised a period of fifty-three weeks, and included 21,277 births and 14,818 deaths, giving a natural increase of 6,459. The Birth-rate was 39·5, and the Death-rate 27·5, per 1,000.

The estimated population for this year was 538,338, and for 1880, 544,056, giving an estimated increase of 5,718, or 741 less than the natural increase. To render the following tables comparable with the corresponding tables in previous reports, they have been calculated for fifty-two weeks, unless otherwise stated, and give a Birth-rate of 38·7, and a Death-rate of 26·9, per 1,000.

The year was remarkable for the low temperature which prevailed, more particularly in the first quarter, when it was lower than in any corresponding period for the last twenty years, and was, consequently, marked by a great increase in deaths from lung diseases. 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.

In a great community like ours there will always be a large amount of animal and vegetable matter undergoing decomposition, and the atmosphere will contain various noxious effluvia; it will, therefore, be readily understood how the past summer was so healthy when we consider how putrefaction was retarded by the cold, the atmosphere washed of its impurities, and the streets and drains cleansed by the rain, and the perfusion of the courts and narrow streets promoted by the high winds.

The following tables will illustrate the effect of a low temperature in diminishing and increasing disease :—

DIARRHŒA.

1877	No. of Deaths.	Mean Temperature.	Rainfall in Inches.	WIND. Mean Velocity in Miles.	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.
June ..	35	59·4	1·144	389	June ..	42	59·0	2·961	218	June ..	21	56·3	3·515	369
July ..	68	58·6	4·532	415	July ..	310	61·7	1·075	284	July ..	10	57·1	2·921	464
Aug. ..	221	59·2	4·921	372	Aug. ..	370	61·7	4·250	314	Aug. ..	100	58·2	6·211	421
Sept. ..	141	53·5	2·987	347	Sept. ..	120	57·2	4·146	354	Sept. ..	106	55·0	3·083	350
Oct.	44	50·6	3·046	471	Oct.	33	51·0	2·375	399	Oct.	42	49·3	1·155	379

LUNG DISEASES, INCLUDING PHTHISIS.

1878.	No. of Deaths.	Mean Temperature	1879.	No. of Deaths.	Mean Temperature
Week ending			Week ending		
January 5	97	44·6	January 4	150	39·1
„ 12	113	38·5	„ 11	150	27·7
„ 19	110	45·6	„ 18	177	36·4
„ 26	104	41·0	„ 25	133	29·0
February 2	116	37·3	February 1	186	31·1
„ 9	103	36·9	„ 8	202	39·2
„ 16	142	41·8	„ 15	189	40·4
„ 23	108	46·8	„ 22	164	34·8
March 2	120	48·3	March 1	161	37·3
„ 9	94	45·8	„ 8	142	44·2
„ 16	97	42·2	„ 15	110	42·6
„ 23	79	43·7	„ 22	128	40·8
„ 30	104	37·2	„ 29	101	35·9
	1387	42·3		1993	36·8

ZYMOTICS.

This is a class of diseases over which sanitary measures have the greatest control, and the results obtained by the exertions of the Corporation to remove the stigma under which the town laboured are very satisfactory, and will become each year more evident, as sanitary measures are only gradual in their beneficial operation. Typhus, from which the town has suffered so much, continues to decline, and it may confidently be hoped that it will shortly become a disease of comparatively rare occurrence. In the following table of deaths from fever 91 only were registered as typhus, and the deaths from other forms of fever also show a corresponding decrease :—

YEAR.	Deaths from Diarrhoea.	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	...

SCARLATINA was prevalent during the year, and occasioned 734 deaths, being 16 more than the average of the last ten years. Isolation of the patient is the only means of preventing the spread of this disease, and, as there are very few houses in which it can be effectually adopted, it is desirable that the patients should be removed to hospital, where they will be placed under better sanitary conditions than can be obtained in most houses, and, consequently, have better prospects of recovery. Beyond this advantage it will also do away with the risk of contagion being carried from the house and spread by children attending schools, servants and others visiting friends, places of business, &c. In too many instances has the non-removal of the first case

caused the loss of two or three children in the same family, and very frequently the mothers have also been sacrificed, for the Scarlatina poison is particularly fatal to women in child-bed.

MEASLES was more fatal than usual, owing to the complications arising from the cold in the last quarter of the year, when 321 deaths from this disease occurred out of 445 for the whole year.

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 3,857, and 710 patients were removed to hospital, of whom 244 were removed by the Sanitary Officers.

1,855 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.

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. From October 1st, 1878, to December 31st, 1879, Pleuro-pneumonia was found in 11 cowsheds, affecting 34 cows, which were slaughtered by order of the owners or of the Corporation; and 43 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 and America. The disease was detected in 30 Irish pigs and 2 American.

The Dairies, Cowsheds, and Milkshops Order, made under the above Act, authorised the Corporation to make regulations for prescribing and regulating the cleansing of dairies and cowsheds in the occupation of persons following the trade of cowkeepers or dairymen, and the cleansing of milk stores, milk shops, and milk vessels used for containing milk for sale by such persons. The following regulations were made by the Council at a meeting held on the 5th day of March, 1879; and the registration of cow-keepers and dairy-men has been effected, subject to the approval of the Council, in this department.

The number of applicants for registration	...	...	...	2,099
„ „ applications granted	...	...	...	1,223
„ „ „ refused	...	...	...	876

Under the Local Improvement Act, 1867, Cowsheds and Lairs for Cattle were licensed, and the same is still enforced. For the number licensed see page 48.

REGULATIONS.

- 1.—That any room used for the storage or sale of milk shall not be occupied as a living room nor communicate by door, window, or otherwise with any bedroom.
- 2.—That the milk vessels, tables, benches, and all other utensils and furniture shall be washed and thoroughly cleansed every day.
- 3.—That the floor of every room used for the storage or sale of milk shall be washed and cleansed every day before nine o'clock in the morning, and that the walls and ceiling shall be limewashed twice every year, that is to say, in March and October; but if the walls are painted, then they shall be washed and thoroughly cleansed twice every year, in March and October.
- 4.—That the words "Registered for the Sale of Milk" be painted over the entrance door of every room used for the sale of milk.
- 5.—All premises used for the sale of milk shall be open at all times to the inspection and examination of the officers appointed by the Local Authority for the purpose.
- 6.—The floors of all Cow Sheds must be of brick, stone, or other non-absorbent material, and sewered.
- 7.—The walls must be limewashed once yearly, that is to say, in March.
- 8.—There shall be a superficial space for each cow of not less than $3\frac{1}{2}$ feet by 7 feet, but if two cows are kept together, then the space may be 6 feet by 7 feet. The passage of the Cow Shed shall, for each cow, be of the width of 3 feet, but if the cows are arranged as in a double Cow Shed, then the partition passage may be 4 feet wide.
- 9.—The floors of all Cow Sheds must be cleansed daily.
- 10.—The manure heap of the Cow Shed must be kept in a "sewered middenstead" and removed once during every fortnight.

CANAL BOATS ACT, 1877.

THE regulations made by the Local Government Board under the above Act with reference to Canal Boats used as dwellings, state that every owner of a Canal Boat, who may desire to register it as a dwelling, shall apply to the Registration Authority having a district abutting on the canal on which the boat is accustomed or intended to ply. The Corporation of Liverpool is the authority for that portion of the Leeds and Liverpool Canal which is within their district, and it is incumbent on them not to allow any boats to be used for dwellings unless registered. Previous to the registration of a boat it must be examined as to its condition, the cabins measured, and the cubical space ascertained, and proper means for ventilation adopted. The Medical Officer is greatly indebted to Mr. Lee, the Manager for the Canal Company, for much valuable advice and assistance. The system of ventilation prescribed

was, for the after cabins, a small raised skylight with louvre openings at the sides, and, at the sides or stern part of the cabin, perforated ventilators with slides to regulate the draught according to the weather; for the fore cabins the covering of the hatchway was raised four inches, and perforations made in that side of the cover looking towards the afterpart of the boat. Deck ventilators could not be applied to the fore cabins, as the decks are liable to be flooded with water in passing the locks. Many boats plying on the Canal bring coal from the Wigan district, and take back manure or other offensive cargoes; they have all been fitted up with double bulkheads, &c., according to the Act. There are no "narrow" boats on the Canal.

Canal Boats Registered up to 31st December, 1879.

282 BOATS.

83 Boats occasionally used as "fly" boats; when so used are allowed 174 persons in both cabins. When not used as "fly" boats they are allowed 102 in the after cabins and 95 in the fore cabins.

6 Boats only used as "fly" boats are allowed 24.

165 Boats have only the after cabins registered; 4 are allowed 3 persons each; 158 allowed 4 persons each; and 3 allowed 5 persons each.

28 Boats have both cabins registered; 4 are allowed 3 in the after cabin and 2 in fore cabin; 24 are allowed 4 in after cabin and 2 in fore cabin.

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OFFENSIVE TRADES.

Seventeen applications were made during the year for permission to carry on the trades of Fat-melting, Tripe-boiling, Soap-making, &c., &c., but eleven only were granted, the premises in the other cases not being suitable for the purpose.

Three certificates were given under the 114th section of the Public Health Act, 1875, stating that effluvia injurious to health were given off in the processes of reburning animal charcoal, used in the preparation of glucose; gut dressing, and the melting of fat scrapings; and the kiln drying of damaged cotton.

The Magistrates found the complaints proved, and directed in the first and second cases that means were to be adopted for the prevention and abatement of the nuisances to the satisfaction of the Medical Officer, and in the third case the defendant undertook to discontinue the business.

During the fifty-two weeks of the year 1879 (terminating on Saturday, December 27), the Returns of the Local Registrars record 20,844 births and 14,502 deaths within the Borough; the numbers for the corresponding period of the previous year, 1878, were 20,612 births and 15,584 deaths.

Of the births 10,571 were males and 10,273 were females, making the total Birth-rate of the Borough equal to 38·7 per 1,000; the average of the previous ten years being 38·0 per 1,000.

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

BIRTHS.

DISTRICTS AND WARDS.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual Births.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
Parish.	Scotland	368	368	336	323	392	365	361	358	2871
	Vauxhall	65	74	78	65	71	69	71	82	575
	St. Paul's and Exchange..	103	93	89	91	82	86	84	70	698
	St. Anne's and Lime Street	162	154	153	144	150	136	125	148	1172
	Castle Street and St. Peter's	21	19	19	15	12	25	17	16	144
	Pitt Street and Gt. George	85	88	81	75	75	73	83	63	623
	Rodney St. & Abercromby	181	209	172	148	184	171	192	183	1440
Out-Townships.	Everton	533	588	533	513	601	524	533	523	4348
	Kirkdale	329	272	285	282	278	297	305	288	2336
	West Derby	381	356	315	310	289	296	351	304	2602
	The Toxteths	506	521	502	498	473	500	545	490	4035
Parish		985	1005	928	861	966	925	933	920	7523
Out-Townships		1749	1737	1635	1603	1641	1617	1734	1605	13321
Borough		2734	2742	2563	2464	2607	2542	2667	2525	20844

DEATHS.

Of the 14,502 deaths 7,415 were of males, and 7,087 of females; 6,846 occurred in the Parish, and 7,656 in the Out-townships.

The Death-rate of the Borough was equal to 26·9 per 1,000. The average of the previous ten years was 29·1 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 occurring in the Workhouses and Hospitals. The Death-rate of the Parish was equal to 31·8, and that of the Out-townships to 21·9, 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	299	286	174	195	214	208	261	250	1887
	Vauxhall	66	83	51	33	43	49	57	51	433
	St. Paul's and Exchange	83	87	74	72	54	43	64	69	546
	St. Anne's and Lime Street	135	138	86	82	98	98	102	135	874
	Castle Street and St. Peter's	25	19	21	16	18	17	11	13	140
	Pitt Street and Great George	62	70	54	56	42	41	56	66	447
	Rodney Street and Abercromby	99	112	91	63	59	83	91	100	698
	Parish Workhouse and Hospitals	371	261	243	158	209	136	252	191	1821
Out-Townships.	Everton	378	386	257	263	249	244	368	383	2528
	Kirkdale	187	168	145	145	123	111	139	151	1169
	West Derby	167	190	159	163	122	122	205	186	1314
	The Toxteths	274	334	237	229	211	189	358	368	2200
	Out-Township Workhouse and Hospitals	77	56	59	37	61	31	74	50	445
Parish		1140	1056	794	675	737	675	894	875	6846
Out-Townships		1083	1134	857	837	766	697	1144	1138	7656
Borough		2223	2190	1651	1512	1503	1372	2038	2013	14502

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 1,813 of the deaths in these establishments under the wards and districts from whence the patients were removed, viz., 398 under Scotland Ward, 153 under Vauxhall Ward, 166 under St. Paul's and Exchange Wards (Dale Street District), 302 under St. Anne's and Lime Street Wards (Islington District), 30 under Castle Street and St. Peter's Wards (St. George's District), 116 under Pitt Street and Great George's Wards (St. Thomas's District), 173 under Rodney Street and Abercromby Wards (Mount Pleasant District), 210 under the Out-township of Everton, 65 under that of Kirkdale, 92 under that of West Derby, and 108 under those of the Toxteths. This will leave unclassified 277 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 176 who were residents outside the Borough.

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	2330	31·6
Vauxhall	598	39·4
St. Paul's and Exchange	726	35·7
St. Anne's and Lime Street	1199	30·4
Castle Street and St. Peter's	173	29·6
Pitt Street and Gt. George	574	29·7
Rodney Street and Abercromby	888	20·1
Everton	2792	20·2
Kirkdale	1258	21·2
West Derby	1434	21·6
The Toxteths	2354	25·1
Hospitals (Residences outside Borough)	176	..
Borough	14502	26·9

The following table shows the natural increase or decrease of population, and the number of births and deaths during the year 1879, in the several districts of the Borough :—

DISTRICTS AND WARDS.	Births.	Deaths.	Increase.	Decrease
Scotland	2871	2330	541	..
Vauxhall	575	598	..	23
St. Paul's and Exchange	698	726	..	28
St. Anne's and Lime Street	1172	1199	..	27
Castle Street and St. Peter's	144	173	..	29
Pitt Street and Gt. George	623	574	49	..
Rodney Street and Abercromby	1440	888	552	..
Everton	4348	2792	1556	..
Kirkdale	2336	1258	1078	..
West Derby	2602	1434	1168	..
The Toxteths	4035	2354	1681	..
Borough	20844	14326	6518	..
Hospitals (Residences outside Borough)	..	176	..	..
Total	20844	14502	6342	..

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

TOWNS.	Estimated Population in the middle of the year 1879.	Births in 53 Weeks, ending 3rd Jan., 1880.	Deaths in 53 Weeks, ending 3rd Jan., 1880.	Annual Rate to 1,000 of Population.		Population on Acre.
				Births.	Deaths.	
London	3620868	134096	85540	37.0	23.6	48.0
Brighton	105608	3198	2033	30.3	19.3	44.9
Portsmouth	131821	4247	2239	32.2	17.0	29.4
Norwich	85222	2947	1903	34.6	22.3	11.4
Plymouth	74293	2372	1692	31.9	22.8	53.3
Bristol	209947	7639	4493	36.4	21.4	47.2
Wolverhampton	75100	2908	1735	38.7	23.1	22.1
Birmingham	388884	15849	8766	40.8	22.5	46.3
Leicester	125622	4788	2758	38.1	22.0	39.3
Nottingham	169396	6193	3891	36.6	23.0	17.0
Manchester	361819	13345	9882	36.9	27.3	84.3
Salford	177849	7240	4494	40.7	25.3	34.4
Oldham	111318	3912	2451	35.1	22.0	23.9
Bradford	191046	6378	4106	33.4	21.5	26.5
Leeds	311860	11679	7150	37.4	22.9	14.5
Sheffield	297138	10822	6422	36.4	21.6	15.1
Hull	146347	5885	3311	40.2	22.6	40.3
Sunderland	114575	4579	2552	40.0	22.3	41.4
Newcastle-on-Tyne	146948	5498	3524	37.4	24.0	27.4
Edinburgh	226075	7530	4516	33.3	20.0	53.9
Glasgow	578156	20020	12754	34.6	22.1	95.8
Dublin	314666	9993	11235	31.8	35.7	31.3
Liverpool	538338	21277	14818	39.5	27.5	103.3

The average age at death of the Inhabitants of the Borough during the twelve months of the year 1879 was 25 years, in the Parish 27 years, and in the Out-townships 23 years.

WARDS.	QUARTERS.								YEAR 1879.		
	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	24	29	20	23	13	17	15	20	18	22	20
Vauxhall. "	28	26	17	21	20	22	19	20	21	22	22
St. Paul's "	25	28	18	32	28	25	25	27	24	28	26
Exchange "	34	37	27	24	16	15	31	32	27	27	27
St. Anne's "	23	27	24	23	17	18	21	15	21	21	21
Lime Street. "	27	29	21	22	24	16	22	24	24	23	23
Castle Street "	47	50	32	38	41	...	16	51	34	46	40
St. Peter's "	24	47	20	34	18	25	33	24	24	33	28
Pitt Street "	24	26	18	17	33	19	20	24	24	22	23
Great George "	33	35	16	25	26	22	22	24	24	27	25
Rodney Street "	33	46	27	31	26	39	31	25	29	35	32
Abercromby "	25	51	29	34	29	29	23	29	27	36	31
Parish Workhouse } and Hospitals. }	41	40	38	39	35	38	36	41	38	40	39
Everton "	24	31	19	26	18	20	14	19	19	24	21
Kirkdale "	23	25	16	22	16	21	16	19	18	22	20
West Derby "	21	31	23	26	21	26	20	21	21	26	24
North Toxteth "	28	35	22	27	25	30	16	22	23	29	26
South Toxteth "	24	30	26	21	19	24	15	17	21	23	22
Out-Township Work- house & Hospitals }	39	41	42	42	34	37	38	32	38	38	38
Parish "	31	34	27	28	23	24	25	26	27	28	27
Out-Townships .. "	25	31	22	26	21	24	17	21	21	26	23
Borough "	28	33	24	27	22	24	21	23	24	27	25

The deaths of Infants below the fifth year of their age amounted to 6,346, and thus comprised 43·8 per cent. of the whole deaths; the average number for the preceding ten years was 7,118, and the average percentage 47·6. The deaths of Infants below one year of age amounted to 3,384, or 16·4 per cent. of all the children born within the Borough 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 Borough, and the third table places, in one connected view, the pathological history of the death registry.

WARDS.		Quarters.				Annual.	Per Cent. age of Deaths under 5 years to Total Deaths.
		March.	June.	Sept.	Dec.		
Scotland	{ Total Deaths..	585	369	422	511	1887	53·2
	{ Below 5 years..	257	182	274	291	1004	
Vauxhall	{ Total Deaths..	149	84	92	108	433	49·9
	{ Below 5 years..	60	50	48	58	216	
St. Paul's	{ Total Deaths..	95	81	50	72	298	43·0
	{ Below 5 years..	40	36	21	31	128	
Exchange	{ Total Deaths..	75	65	47	61	248	38·7
	{ Below 5 years..	23	26	27	20	96	
St. Anne's	{ Total Deaths..	192	125	151	174	642	53·0
	{ Below 5 years..	83	61	88	108	340	
Lime Street	{ Total Deaths..	81	43	45	63	232	46·6
	{ Below 5 years..	32	22	22	32	108	
Castle Street	{ Total Deaths..	15	8	6	3	32	21·9
	{ Below 5 years..	2	2	2	1	7	
St. Peter's	{ Total Deaths..	29	29	29	21	108	39·8
	{ Below 5 years..	9	12	13	9	43	
Pitt Street	{ Total Deaths..	53	49	34	57	193	48·2
	{ Below 5 years..	19	29	15	30	93	
Great George	{ Total Deaths..	79	61	49	65	254	44·9
	{ Below 5 years..	26	34	20	34	114	
Rodney Street.....	{ Total Deaths..	99	76	61	85	321	34·9
	{ Below 5 years..	26	28	19	39	112	
Abercromby.....	{ Total Deaths..	112	78	81	106	377	34·7
	{ Below 5 years..	31	24	30	46	131	
Parish Workhouse and Hospitals	{ Total Deaths..	632	401	345	443	1821	13·8
	{ Below 5 years..	76	41	59	76	252	
Everton.....	{ Total Deaths..	764	520	493	751	2528	52·5
	{ Below 5 years..	333	253	278	462	1326	
Kirkdale	{ Total Deaths..	355	290	234	290	1169	54·2
	{ Below 5 years..	168	160	135	171	634	
West Derby.....	{ Total Deaths..	357	322	244	391	1314	47·3
	{ Below 5 years..	150	150	123	199	622	
North Toxteth.....	{ Total Deaths..	338	275	213	376	1202	47·2
	{ Below 5 years..	130	134	86	217	567	
South Toxteth.....	{ Total Deaths..	270	191	187	350	998	53·0
	{ Below 5 years..	122	96	94	217	529	
Out-Township Workhouse and Hospitals	{ Total Deaths..	133	96	92	124	445	5·4
	{ Below 5 years..	7	4	5	8	24	
Parish	{ Total Deaths..	2196	1469	1412	1769	6846	38·6
	{ Below 5 years..	684	547	638	775	2644	
Out-Townships	{ Total Deaths..	2217	1694	1463	2282	7656	48·4
	{ Below 5 years..	910	797	721	1274	3702	
Borough	{ Total Deaths..	4413	3163	2875	4051	14502	43·8
	{ Below 5 years..	1594	1344	1359	2049	6346	

AGES.	Quarters.				Annual.	
	March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of population.
Deaths below 1 year of age	838	781	779	986	3384	6.3
„ between 1 year and 5	756	563	580	1063	2962	5.5
„ „ 5 „ 20	316	248	232	363	1159	2.1
„ „ 20 „ 60	1614	1110	913	1121	4758	8.8
„ above 60 years	888	459	371	518	2236	4.2
„ at ages unknown	1	2	..	..	3	0.006
„ at all ages	4413	3163	2875	4051	14502	26.9

The Registrars' Returns show that there were 8 deaths (6 of women and 2 of men) above the age of 90, viz., 1 male and 1 female at 91, 2 females at 92, 1 female at 94, 1 female at 97, 1 male at 99, and 1 female at 102.

CLASSES.	QUARTERS.				YEAR 1879.
	March.	June.	Sept.	Dec.	
1. Zymotic Diseases	545	422	619	905	2491
2. Diseases of Uncertain Seat	103	95	101	67	366
3. Tubercular Diseases	538	484	399	435	1856
4. Diseases of Brain, &c.	430	392	337	360	1519
5. „ of Heart, &c.	234	174	204	216	828
6. „ of Lungs, &c.	1577	731	422	1120	3850
7. „ of Stomach, &c.	166	148	150	151	615
8. „ of Kidneys, &c.	75	77	65	80	297
9. Childbirth, Diseases of Uterus, &c.	29	37	16	23	105
10. Rheumatism, Diseases of the Joints, &c.	28	18	26	29	101
11. Diseases of the Skin, Cellular Tissue, &c.	21	18	15	15	69
12. Malformations	10	5	9	16	40
13. Premature Birth	60	57	49	73	239
14. Atrophy and Debility	218	237	210	250	915
15. Old Age	173	106	76	128	483
16. Privation, Cold, &c.	..	1	1	4	6
17. Inquests	197	150	170	169	686
Causes not specified	9	11	6	10	36
All Causes	4413	3163	2875	4051	14502
Total Zymotics	545	422	619	905	2491
Smallpox	..	..	..	..	..
Measles	10	29	95	321	455
Scarlatina	198	143	144	249	734
Whooping Cough	104	55	22	53	234
Diarrhoea	46	53	214	89	402
Fever	77	57	56	58	248

ZYMOTICS.

This class of diseases occasioned 2,491 deaths during the year 1879, and accounted for 17·2 per cent. of the total mortality within the Borough during the same period. The average number of deaths from these diseases for the preceding ten years was 3,827, and the percentage death rate for 1879 was 8·0 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	1887	70	65	129	118	20·2
Vauxhall	433	17	8	10	22	13·2
St. Paul's	298	5	8	8	14	11·7
Exchange	248	2	7	11	11	12·5
St. Anne's	642	28	12	45	36	18·8
Lime Street	232	7	6	9	19	17·7
Castle Street	32	..	..	1	..	3·1
St. Peter's	108	4	5	4	3	14·8
Pitt Street	193	8	11	8	9	18·7
Great George	254	13	5	9	16	16·9
Rodney Street	321	12	11	6	14	13·4
Abercromby	377	10	6	14	20	13·3
Liverpool Workhouse Hospital	1368	49	33	48	40	12·4
Royal Infirmary	272	..	1	..	..	0·4
Children's Infirmary	33	1	1	1	2	15·2
Lying-in Hospital	16	..	..	..	1	6·3
North Hospital	132	..	1	..	..	0·8
Stanley Hospital	21	..	..	..	..	..
Royal South Hospital	138	1	2	..	..	2·2
Netherfield Road Hospital	6	..	..	1	3	66·7
West Derby Union Hospital	280	18	8	8	15	17·5
Everton	2528	105	71	107	208	19·4
Kirkdale	1169	51	60	62	71	20·9
West Derby	1314	58	44	52	99	19·3
North Toxteth	1202	47	36	36	100	18·2
South Toxteth	998	39	21	50	84	19·4
Parish	6846	226	180	303	325	15·1
Out-Townships	7656	319	242	316	580	19·0
Borough	14502	545	422	619	905	17·2

FEVER.

Fever accounted for 248 deaths within the Borough of Liverpool, or for 118 in the Parish and 130 in the Out-Townships. (The average number of deaths for the preceding ten years was 493). 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 1·7 during the first, 1·8 during the second, 1·9 during the third, and 1·4 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 10·0 per cent. Its deaths included 133 males and 115 females; 86 persons below the age of 15, 49 between the ages of 15 and 30, and 113 above the age of 30.

Under the term Fever every form of continued fever is included; but the registers of deaths attribute 16 cases to gastric fever, 82 to typhoid fever, 31 to enteric fever, 13 to continued fever, 2 to relapsing fever, 91 to typhus, 15 to fever, 3 to febris, and under that of febricula 5 deaths.

The following tables are in themselves sufficiently explanatory. The first compares the averages of deaths from typhus during the preceding ten years with those during 1879; 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 Pre- ceding Ten Years.	Deaths from Fever during the Year 1879.
Scotland.....	61	31
Vauxhall	13	5
St. Paul's	8	2
Exchange	5	1
St. Anne's	24	9
Lime Street ...	8	3
Castle Street.....	1	...
St. Peter's	4	1
Pitt Street.....	6	3
Great George.....	10	...
Rodney Street	7	1
Abercromby	12	2
Everton	82	35
Kirkdale		28
West Derby	27	13
North Toxteth	23	10
South Toxteth	26	12
Hospital Deaths	176	92
Total	493	248

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

DEATHS FROM FEVER DURING THE YEAR 1879.

WARDS.	January.					February.					March.					April.					May.					June.					Quarter.
	4	11	18	25	1	8	15	22	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28					
Scotland	1	1	1	..	..	..	1	1	1	1	1	1	1	8	2	1	..	..	..	1	..	2	3	2	2	..	13				
Vauxhall	..	2	..	..	..	1	..	..	1	..	..	..	..	5	..	..	..	..	..	1	..	..	..	..	..	3					
St. Paul's	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	4					
Exchange	..	..	..	2	..	1	..	..	..	..	..	..	..	3	..	..	..	..	..	..	2	..	..	..	..	1					
St. Anne's	..	2	..	..	..	1	..	4	..	..	..	1	..	9	..	..	..	..	..	1	..	1	..	..	..	4					
Lime Street	..	1	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	..	..	..	..	1					
Castle Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..					
St. Peter's	..	1	..	1	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..					
Pitt Street	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..					
Great George	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..					
Rodney Street	..	..	..	3	..	2	1	..	..	..	..	..	..	6	..	1	..	..	..	..	1	..	..	..	..	..					
Abercromby	..	1	..	1	1	..	2	1	1	6	3	1	3	19	2	1	..	1	..	2	1	1	1	1	1	1					
Everton	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	1	..	..	..	2	1	1	1	1	1	8					
Kirkdale	..	3	..	..	..	1	..	..	..	..	..	..	..	3	..	2	1	..	..	..	2	..	..	..	..	10					
West Derby	..	1	..	..	..	1	..	..	..	..	1	..	..	2	..	1	..	..	..	..	2	..	1	1	1	2					
North Toxteth	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	1	..	..	..	..	..	..	..	..	..	5					
South Toxteth	1	..	..	1	..	..	..	1	1	..	1	1	..	4	..	..	1	..	..	..	..	..	1	1	1	3					
Hospitals (Residences out of Boro') ..	..	1	..	..	1	..	..	..	..	..	..	..	1	5	..	..	..	..	..	..	..	..	..	..	..	2					
Hospitals (Residences unknown) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..					
Total	1	10	5	8	3	7	2	10	3	12	6	5	5	77	3	5	7	1	2	2	6	8	4	6	4	5	57				

WARDS.	July.					August.					September.					October.					November.					December.					Quarter.	Year.
	5	12	19	26	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	6	13	20	27						
Scotland	..	1	1	1	..	1	..	2	..	1	1	2	..	10	..	..	1	2	..	..	2	2	..	..	..	1	43					
Vauxhall	..	..	..	..	..	..	1	2	..	..	..	..	..	3	1	..	..	..	..	..	1	..	..	..	..	1	12					
St. Paul's	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6						
Exchange	1	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	1	7					
St. Anne's	..	..	..	1	2	..	1	..	1	..	..	..	..	4	..	..	..	..	..	..	2	..	1	1	..	21						
Lime Street	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	4						
Castle Street	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..						
St. Peter's	..	..	..	..	..	..	..	..	1	1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1						
Pitt Street	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..						
Great George	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	5						
Rodney Street	..	..	..	..	..	..	..	1	..	..	..	..	..	3	..	..	..	..	..	..	..	..	1	1	1	3						
Abercromby	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	2						
Everton	..	1	1	1	..	1	..	..	1	2	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	10						
Kirkdale	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	2	..	1	1	1	5						
West Derby	..	1	..	..	..	1	..	..	1	1	1	..	..	4	..	..	..	..	..	..	..	..	1	1	1	1						
North Toxteth	..	..	..	1	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	2						
South Toxteth	..	..	..	..	1	..	..	..	1	2	..	..	..	4	..	..	1	..	..	..	..	..	..	..	..	3						
Hospitals (Residences out of Boro') ..	..	1	..	..	1	..	..	..	..	..	..	1	1	5	..	..	..	..	..	..	..	..	..	..	..	2						
Hospitals (Residences unknown) ..	..	..	..	..	..	..	1	..	..	..	..	1	1	4	..	..	..	..	..	..	1	1	1	1	1	9						
Total	2	5	3	5	5	2	6	6	5	5	4	2	6	56	5	1	2	5	5	3	2	11	6	4	4	58						

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

DEATHS FROM FEVER.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	TOTAL
Scotland	{ Below 5 years ..	..	..	2	..	1	3	2	..	5	3	8
	{ Above 5 years ..	2	3	6	2	1	2	3	4	12	11	23
Vauxhall	{ Below 5 years ..	..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..	1	1	..	1	1	..	..	..	2	2	4
St. Paul's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	1	..	..	..	..	1	..	..	2	2
Exchange	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..	1	..	..	..	1	1	..	..	2	1	3
	{ Above 5 years ..	..	1	..	2	..	1	2	..	2	4	6
Lime Street	{ Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
	{ Above 5 years ..	..	2	..	..	..	..	..	..	..	2	2
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	..	..	..	1	..	1
	{ Above 5 years ..	..	2	..	..	..	..	..	..	..	2	2
Great George	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
Abercromby	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	1	..	1	..	..	..	2	2
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	11	12	11	3	11	3	8	1	41	19	60
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..	11	4	2	2	4	..	5	3	22	9	31
Everton	{ Below 5 years ..	2	3	..	1	1	..	2	..	5	4	9
	{ Above 5 years ..	3	5	3	3	1	1	6	4	13	13	26
Kirkdale	{ Below 5 years ..	..	..	2	..	1	2	3	2	6	8	8
	{ Above 5 years ..	3	2	3	2	1	6	2	1	9	11	20
West Derby	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	1	1	4	2	2	3	..	6	7	13
North Toxteth	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	1	1	2	2	1	1	1	5	5	10
South Toxteth	{ Below 5 years ..	1	1	1	..	..	1	..	..	2	2	4
	{ Above 5 years ..	1	1	1	..	..	3	..	2	2	6	8
Parish	{ Below 5 years ..	1	..	2	..	4	5	2	1	9	6	15
	{ Above 5 years ..	14	22	17	10	13	8	13	6	57	46	103
Out-Townships	{ Below 5 years ..	3	4	1	3	1	2	5	3	10	12	22
	{ Above 5 years ..	19	14	11	13	10	13	17	11	57	51	108
Borough	{ Below 5 years ..	4	4	3	3	5	7	7	4	19	18	37
	{ Above 5 years ..	33	36	28	23	23	21	30	17	114	97	211

List of Streets in the Borough wherein Two or more Deaths from Fever
occurred in 1879.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Addison	..	2	2	Arkwright	2	..	2
Athol	2	..	2	Buckingham	2	..	2
Burlington	2	1	3	Christopher	1	1	2
Ford	..	2	2	Douro	..	2	2
Gerard	2	1	3	Elaine	2	..	2
Harker Place	2	..	2	Gloucester Place.....	2	..	2
Hedley	2	..	2	Grafton.....	2	1	3
Highfield	1	1	2	Howe	2	..	2
Hornby.....	1	1	2	Lancaster.....	2	..	2
Limekiln Lane	1	1	2	Lower Mersey View ..	2	..	2
Lionel	2	..	2	Mann	3	..	3
St. Andrew	1	2	3	Mazzini.....	2	..	2
St. Anne	2	1	3	Milford	2	..	2
Scotland Road.....	1	1	2	Mill	2	..	2
Tichfield	3	..	3	Reading	2	..	2
Trueman	3	..	3	Rishton	2	..	2
Upper Milk	..	4	4	South Chester.....	2	..	2
Walnut.....	4	..	4	Sparling Place.....	..	2	2
				Stitt	2	..	2

Occupations of Persons who (either themselves or members of their family) have died from Fever in the Workhouses or Hospitals of the Borough, tabulated into Wards from whence they came, during the Year 1879.

LIVERPOOL PARISH WORKHOUSE.

OCCUPATIONS.	WARDS.											Residences Unknown.	TOTAL.
	Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	
Labourers	5	5	4	4	5	..	..	..	1	..	..	4	28
Tradesmen	4	..	..	1	3	1	..	..	..	..	2	3	14
Servants	1	1	..	..	3	..	..	..	..	..	..	1	6
Seamen	2	1	..	1	..	..	..	..	2	1	..	..	11
Unknown	..	..	..	..	..	..	..	..	..	..	..	1	1
Males	7	6	4	6	6	1	..	..	3	1	1	2	41
Females.....	5	1	..	..	5	..	..	..	..	..	1	6	19
Total	12	7	4	6	11	1	..	..	3	1	2	8	60

WEST DERBY UNION WORKHOUSE HOSPITAL (MILL ROAD).

OCCUPATIONS.	WARDS.			Residences outside the Borough.	Residences Unknown.	TOTAL.
	Everton.	Kirkdale.	West Derby.			
Labourers	8	4	2	7	..	21
Tradesmen.....	..	..	..	2	..	2
Professions and Mercantile.....	1	..	..	..	..	1
Seamen	..	..	..	..	1	1
Servants....	1	1	..	..	..	2
Nurses	1	..	1	..	..	2
Males	7	3	2	8	1	21
Females	4	2	1	1	..	8
Total	11	5	3	9	1	29

EVERTON HOSPITAL (NETHERFIELD ROAD).

OCCUPATIONS.	WARDS.			TOTAL.
	St. Anne's	Everton.	Kirkdale.	
Tradesmen.....	1	..	..	1
Servants	..	1	..	1
Unknown	..	..	1	1
Males	1	..	1	2
Females	..	1	..	1
Total	1	1	1	3

Occupations of Persons who (either themselves or members of their family) have died from Fever in the different Wards of the Borough during the Year 1879. (Not included in the foregoing Tables of Deaths in Work-houses 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	18	3	1	..	4	..	..	1	..	..	1	13	12	7	2	3	65	
Tradesmen	9	2	1	1	5	3	..	1	1	..	1	14	9	6	3	7	63	
Seamen	4	..	..	..	..	..	..	1	..	..	..	4	5	..	2	1	17	
Professions and Mercantile	..	..	..	..	..	..	..	..	..	..	..	4	2	..	3	1	10	
Unknown	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	
Males	17	2	..	1	4	..	..	1	..	..	..	18	11	6	5	4	69	
Females	14	3	2	..	5	3	..	1	2	..	1	2	17	17	7	5	87	
Total	31	5	2	1	9	3	..	1	3	..	1	2	35	28	13	10	156	

TOXTETH WORKHOUSE.

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

OCCUPATIONS.	WARDS.		Total.
	North Toxteth.	South Toxteth.	
Labourers	2	3	5
Tradesmen	1	2	3
Seamen	..	1	1
Unknown	..	1	1
Males	2	5	7
Females	1	2	3
Total	3	7	10

SCARLATINA.

Scarlatina accounted during the year for 734 deaths, or for 289 in the Parish, and 445 in the Out-townships. (The average number of deaths for the preceding ten years was 718). The rate of its mortality was equal to 1.4 per 1,000 of the estimated population. Its rate relatively to deaths

from all causes was 4·5 per cent. in the first quarter, 4·5 in the second, 5·0 in the third, and 6·1 in the fourth quarter of the year; its annual rate relatively to all deaths was 5·1 per cent., and relatively to deaths from zymotic causes 29·5 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1879; the second is a record of the streets of the Borough wherein 3 or more deaths occurred from that disease.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	15	7	3	6	7	10	23	12	48	35	83
	{ Above 5 years ..	2	2	4	4	5	3	11	9	22	18	40
Vauxhall	{ Below 5 years ..	1	1	..	1	1	1	5	..	7	3	10
	{ Above 5 years ..	1	..	..	..	1	..	..	1	2	1	3
St. Paul's	{ Below 5 years ..	2	1	2	1	..	..	3	1	7	3	10
	{ Above 5 years ..	..	..	1	..	..	..	..	1	..	..	1
Exchange	{ Below 5 years ..	..	..	1	..	1	..	..	2	2	2	4
	{ Above 5 years ..	..	..	1	..	1	1	..	2	1	..	3
St. Anne's	{ Below 5 years ..	4	4	3	2	5	4	2	1	14	11	25
	{ Above 5 years ..	3	3	..	..	3	2	1	1	7	6	13
Lime Street	{ Below 5 years ..	..	..	2	2	1	1	1	3	4	6	10
	{ Above 5 years ..	..	..	..	..	..	1	1	1	1	2	3
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	..	..	1	1	..	..	..	1	1	2
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	1	..	2	4	..	..	..	..	3	4	7
	{ Above 5 years ..	2	..	2	..	..	1	..	..	4	1	5
Great George	{ Below 5 years ..	1	4	..	1	..	1	..	..	1	6	7
	{ Above 5 years ..	1	..	1	..	..	1	..	..	2	1	3
Rodney Street	{ Below 5 years ..	1	1	..	1	..	..	1	1	2	3	5
	{ Above 5 years ..	3	..	2	..	..	..	..	1	5	1	6
Abercromby	{ Below 5 years ..	2	..	..	..	2	..	3	2	7	2	9
	{ Above 5 years ..	..	..	1	2	1	2	..	1	2	5	7
Parish Workhouse and Hospitals	{ Below 5 years ..	3	2	1	1	3	2	8	2	15	7	22
	{ Above 5 years ..	1	2	2	1	1	..	2	2	6	5	11
Out-Township Workhouse and Hospitals.	{ Below 5 years ..	..	..	..	1	..	..	..	1	..	2	2
	{ Above 5 years ..	1	..	1	..	3	1	2	2	7	3	10
Everton	{ Below 5 years ..	13	15	12	4	8	10	23	17	56	46	102
	{ Above 5 years ..	7	3	2	9	5	4	10	3	24	19	43
Kirkdale	{ Below 5 years ..	6	5	9	9	7	3	8	7	30	24	54
	{ Above 5 years ..	5	4	6	2	1	1	3	3	15	10	25
West Derby	{ Below 5 years ..	7	7	3	5	6	11	14	8	30	31	61
	{ Above 5 years ..	5	8	2	1	4	2	7	7	18	18	36
North Toxteth	{ Below 5 years ..	11	8	3	5	4	..	7	3	25	16	41
	{ Above 5 years ..	2	3	2	2	..	3	4	3	8	11	19
South Toxteth	{ Below 5 years ..	7	7	6	1	1	6	7	4	21	18	39
	{ Above 5 years ..	3	1	3	..	1	..	..	5	7	6	13
Parish	{ Below 5 years ..	30	20	14	20	21	19	46	24	111	83	194
	{ Above 5 years ..	13	7	14	7	12	11	15	16	54	41	95
Out-Townships	{ Below 5 years ..	44	42	33	25	26	30	59	40	162	137	299
	{ Above 5 years ..	23	19	16	14	14	11	26	23	79	67	146
Borough	{ Below 5 years ..	74	62	47	45	47	49	105	64	273	220	493
	{ Above 5 years ..	36	26	30	21	26	22	41	39	133	108	241

List of Streets in the Borough wherein Three or more Deaths
from Scarlatina occurred in 1879.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT- TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Addison	3	...	3	Arkwright	6	3	9
Ashfield	1	4	5	Arlington	5	..	5
Back Portland	3	...	3	Bengel	3	..	3
Blenheim	2	2	4	Buckingham	3	..	3
Bond	1	2	3	Cardwell	3	..	3
Bostock	3	...	3	China	4	..	4
Burlington	3	4	7	Cottenham	3	..	3
Cazneau	2	3	5	Deane Road	4	..	4
Christian	3	2	5	Devonshire Place	..	3	3
Circus	2	1	3	Edgeware	4	..	4
Clare	1	2	3	Edinburgh	4	..	4
Clayton	3	...	3	Elcho	4	..	4
Comus	...	3	3	Elias	4	..	4
Cranmer	1	2	3	Gordon	4	..	4
Dalrymple	3	...	3	Grafton	2	2	4
Eldon	3	3	6	Great Mersey	5	..	5
Gascoyne	2	2	4	Haddon	5	..	5
Great Nelson	4	...	4	Heyworth	3	..	3
Hopwood	7	6	13	Horsley	4	..	4
Hornby	4	1	5	Hygeia	..	3	3
Kew	2	1	3	Hyslop	3	1	4
Latimer	3	...	3	Lamb	3	..	3
Mulberry	2	1	3	Lovat	4	..	4
Richmond Row	3	1	4	Mann	..	4	4
Roscoe Lane	1	2	3	Miles	2	1	3
Sherwood	3	...	3	Miller	3	..	3
Silvester	1	2	3	Minshull	2	2	4
Tatlock	3	1	4	Netherfield Road South	3	..	3
Tenterden	4	...	4	Northbrook	5	..	5
Upper Frederick	5	1	6	Northumberland	5	..	5
Vauxhall Road	7	..	7	Oliver	5	..	5
				Prince Edwin	..	6	6
				Robsart	6	3	9
				Rosalind	3	..	3
				Seacome	4	..	4
				Solon	3	..	3
				Solway	3	..	3
				Summer Gardens	2	1	3
				Upper Beau	3	..	3
				West Derby Road	3	..	3

MEASLES

Occasioned 455 deaths, of which 167 occurred in the Parish, and 288 in the Out-Townships. (The average number of deaths for the preceding ten years was 403.) Its percentage death-rate relatively to deaths from all causes was 0·2 in the first quarter of the year, 0·9 in the second, 3·3 in the third, and 7·9 in the fourth. Its annual percentage rate relatively to deaths from all causes was 3·1, and relatively to deaths from Zymotic causes 18·3.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.		M.	F.	Total.
		M.	F.	M.	F.	M.	F.	M.	F.			
Scotland	{ Below 5 years	..	2	5	9	20	14	8	14	33	39	72
	{ Above 5 years	..	..	..	1	..	2	..	..	..	3	3
Vauxhall	{ Below 5 years	2	1	..	..	..	..	3	1	5	2	7
	{ Above 5 years	..	..	..	..	..	..	1	1	1	1	2
St. Paul's	{ Below 5 years	..	..	..	..	..	1	1	1	1	2	3
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years	..	..	..	..	..	1	2	2	2	3	5
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years	..	..	..	..	5	2	8	10	13	12	25
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years	1	..	..	..	..	..	2	3	3	3	6
	{ Above 5 years	..	..	..	..	1	..	..	..	1	..	1
Castle Street	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years	..	1	..	..	..	..	2	3	2	4	6
	{ Above 5 years	..	..	..	..	..	..	1	..	1	..	1
Great George	{ Below 5 years	..	..	..	1	..	..	5	5	5	6	11
	{ Above 5 years	..	..	..	..	..	..	1	1	1	1	2
Rodney Street	{ Below 5 years	..	..	..	..	..	..	1	1	1	1	2
	{ Above 5 years	..	..	..	..	..	..	..	1	..	1	1
Abercromby	{ Below 5 years	..	..	..	..	..	..	1	3	1	3	4
	{ Above 5 years	..	..	..	..	..	..	1	1	1	1	2
Parish Workhouse and Hospitals	{ Below 5 years	..	..	..	..	3	3	6	1	9	4	13
	{ Above 5 years	..	..	..	..	..	..	1	..	1	..	1
Out-Township Workhouse and Hospitals	{ Below 5 years	..	1	..	..	1	..	..	..	1	1	2
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years	1	..	1	..	13	15	32	49	47	64	111
	{ Above 5 years	..	1	..	..	1	..	5	5	6	6	12
Kirkdale	{ Below 5 years	..	..	5	5	8	3	4	13	17	21	38
	{ Above 5 years	..	..	..	..	1	..	..	1	1	1	2
West Derby	{ Below 5 years	..	..	..	..	..	..	10	11	10	11	21
	{ Above 5 years	..	..	..	..	..	..	3	3	3	3	6
North Toxteth	{ Below 5 years	..	..	1	..	..	1	23	23	24	24	48
	{ Above 5 years	..	..	..	..	..	..	3	1	3	1	4
South Toxteth	{ Below 5 years	..	..	..	..	..	..	21	19	21	19	40
	{ Above 5 years	..	..	1	..	..	..	1	2	2	2	4
Parish	{ Below 5 years	3	4	5	10	28	21	39	44	75	79	154
	{ Above 5 years	..	..	..	1	1	2	5	4	6	7	13
Out-Townships	{ Below 5 years	1	1	7	5	22	19	90	115	120	140	260
	{ Above 5 years	..	1	1	..	2	..	12	12	15	13	28
Borough	{ Below 5 years	4	5	12	15	50	40	129	159	195	219	414
	{ Above 5 years	..	1	1	1	3	2	17	16	21	20	41

DIARRHŒA

Accounted for 402 deaths, or for 203 in the Parish, and 199 in the Out-townships. (The average number of deaths for the preceding ten years was 918). Its percentage death-rate relatively to deaths from all causes was 1·0 in the first quarter of the year, 1·7 in the second, 7·4 in the third, and 2·2 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 2·8, and relatively to deaths from Zymotic causes 16·1.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..		3	3	5	2	20	22	5	6	33	33	66
	{ Above 5 years ..		..	2	1	1	2	1	..	2	3	6	9
Vauxhall	{ Below 5 years ..		..	..	1	..	1	4	2	2	4	6	10
	{ Above 5 years ..		..	1	..	..	..	..	..	1	..	2	2
St. Paul's	{ Below 5 years ..		..	..	2	2	3	2	..	..	5	4	9
	{ Above 5 years ..		..	..	..	..	..	1	1	..	1	1	2
Exchange	{ Below 5 years ..		1	..	2	..	3	1	2	..	8	1	9
	{ Above 5 years ..		..	..	..	1	1	..	..	1	1	2	3
St. Anne's	{ Below 5 years ..		..	1	..	..	15	3	4	3	19	7	26
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years ..		..	..	1	..	..	3	..	1	1	4	5
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		1	1	..	..	..	2	..	..	1	3	4
	{ Above 5 years ..		..	..	..	1	..	..	..	..	1	1	1
Pitt Street	{ Below 5 years ..		..	..	..	..	..	1	..	..	1	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		1	1	1	..	5	2	..	..	7	3	10
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..		..	..	1	1	..	3	1	3	2	7	9
	{ Above 5 years ..		..	..	..	..	..	1	1	..	1	1	2
Abercromby	{ Below 5 years ..		2	..	..	..	1	1	3	..	6	1	7
	{ Above 5 years ..		..	1	..	..	..	..	..	..	1	1	1
Parish Workhouse and Hospitals	{ Below 5 years ..		..	1	..	..	..	3	1	1	1	5	6
	{ Above 5 years ..		5	4	2	1	5	4	..	..	12	9	21
Out-Township Workhouse and Hospitals ..	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	1	..	..	..	..	..	1	..	1
Everton	{ Below 5 years ..		4	2	2	8	10	18	8	8	24	36	60
	{ Above 5 years ..		..	1	1	..	..	3	..	1	1	5	6
Kirkdale	{ Below 5 years ..		3	1	1	3	9	8	4	4	17	16	33
	{ Above 5 years ..		..	..	..	..	..	1	..	1	..	2	2
West Derby	{ Below 5 years ..		1	1	..	2	5	6	4	3	10	12	22
	{ Above 5 years ..		..	..	..	1	..	..	1	..	1	1	2
North Toxteth	{ Below 5 years ..		1	1	4	1	10	5	2	5	17	12	29
	{ Above 5 years ..		..	..	..	..	1	..	..	..	1	..	1
South Toxteth	{ Below 5 years ..		2	1	1	2	12	13	5	3	20	19	39
	{ Above 5 years ..		..	..	..	1	2	1	..	..	2	2	4
Parish	{ Below 5 years ..		8	7	13	5	48	47	18	16	87	75	162
	{ Above 5 years ..		5	8	3	4	8	7	2	4	18	23	41
Out-Townships	{ Below 5 years ..		11	6	8	16	46	50	23	23	88	95	183
	{ Above 5 years ..		..	1	2	2	3	5	1	2	6	10	16
Borough	{ Below 5 years ..		19	13	21	21	94	97	41	39	175	170	345
	{ Above 5 years ..		5	9	5	6	11	12	3	6	24	33	57

List of Streets in the Borough wherein Three or more Deaths from
Diarrhœa occurred during the Year 1879.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Bridgewater	3	..	3	Beaufort	6	..	6
Great Homer	..	3	3	Salisbury	1	2	3
Hornby	2	1	3	Wolfe	4	..	4
Kew	3	..	3				
Limekiln Lane	..	4	4				
Oriel	..	3	3				
Upper Frederick	1	2	3				

DIARRHŒA IN DATES OF DEATH, 1879.

DATE. June.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	1	29.540	48.4	..	..	445	W
2	..	29.597	50.8	..	..	317	W
3	1	29.610	51.1	..	..	402	W
4	..	29.845	50.2	..	..	437	W
5	..	29.828	58.3	0.004	0.2	217	ESE
6	1	29.708	53.8	0.026	1.2	366	E
7	..	29.643	55.3	0.912	7.6	433	E
8	1	29.486	59.9	0.041	0.8	311	SE
9	..	29.645	57.6	0.245	3.0	289	SE & Var.
10	..	29.968	56.8	0.002	0.2	189	S W & Var.
11	2	29.958	52.6	0.900	9.8	335	ESE
12	2	29.910	58.1	0.145	3.4	259	SE & Var.
13	1	30.088	57.7	..	..	123	W
14	..	30.027	61.8	..	..	328	SE
15	1	29.825	58.1	..	..	163	NW & S
16	..	29.542	58.6	0.323	5.4	329	ENE
17	..	29.493	54.8	0.076	0.9	295	W
18	1	29.781	55.3	..	..	395	W
19	1	29.759	61.0	0.060	1.9	393	SE
20	..	29.686	58.9	0.105	3.1	447	SW
21	1	29.542	59.2	0.080	1.6	470	SE & S
22	..	29.693	55.0	..	..	703	W & SW
23	..	29.739	55.2	0.137	4.6	289	SSW
24	2	29.509	54.6	0.026	0.2	367	W & SW
25	1	29.550	54.8	0.010	1.0	347	W & SW
26	..	29.590	55.9	0.115	2.4	476	SW & SE
27	..	29.613	60.0	0.128	1.1	437	SE & SSW
28	3	29.655	59.3	..	..	596	SSW
29	1	29.827	58.0	..	..	480	SSW
30	1	29.895	57.9	0.180	5.6	424	SW

DIARRHŒA IN DATES OF DEATH, 1879.

DATE. July.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	1	29.266	54.2	0.290	4.6	697	SW & SE
2	..	29.334	54.6	0.014	0.5	867	SW & W
3	..	29.414	55.4	0.002	0.1	441	SW & W
4	..	29.582	54.3	0.062	1.0	830	W
5	..	29.815	53.6	..	..	842	W
6	..	29.864	55.8	0.320	8.2	298	W
7	..	29.593	56.7	0.058	2.2	622	SW
8	..	29.261	55.4	0.109	3.7	753	SW
9	..	29.405	54.1	..	..	1006	W
10	..	29.808	53.6	..	..	683	WNW
11	1	29.938	55.3	..	..	419	WNW
12	2	29.703	56.4	0.080	1.6	255	E & SE
13	..	29.473	56.6	0.203	5.9	252	NNE & Var.
14	1	29.563	57.6	0.014	0.4	261	NW & Var.
15	..	29.830	56.1	..	..	175	NNE & Var.
16	..	29.852	57.7	0.016	0.7	402	E
17	1	29.875	60.9	0.020	1.5	279	E
18	..	30.004	63.3	0.066	1.6	256	SE
19	1	29.892	58.7	0.424	8.4	229	SSE & Var.
20	1	29.358	57.1	0.271	6.8	646	SE & W
21	..	29.477	56.3	0.258	5.5	888	WNW
22	..	29.758	54.6	0.020	0.7	554	NW
23	..	30.019	55.1	0.056	1.1	397	W
24	..	30.022	57.4	..	..	445	W
25	..	30.046	57.8	0.251	2.8	315	WSW
26	..	29.952	56.5	0.003	0.2	129	WSW
27	1	30.014	61.0	0.023	0.9	260	WSW
28	..	30.035	64.7	..	..	469	SSW
29	1	29.971	64.9	0.010	0.3	260	SE & S
30	..	29.917	58.4	0.141	4.7	177	WNW
31	..	29.800	60.4	0.210	3.2	282	SE & S

DIARRHŒA IN DATES OF DEATH, 1879.

DATE. August.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	1	29.878	57.0	..	..	496	W
2	2	30.138	57.4	0.175	4.4	242	W & Var.
3	3	29.896	60.7	0.047	0.3	392	ESE
4	1	29.883	60.1	0.136	3.9	355	W & Var.
5	4	29.720	55.8	1.168	15.8	360	SSE
6	3	29.594	52.7	0.140	3.5	916	W
7	2	29.767	55.3	0.020	0.5	682	W
8	1	29.843	56.1	..	..	225	WNW
9	5	29.930	55.2	..	..	506	WNW
10	3	29.994	61.9	..	..	214	SE & Var.
11	1	29.950	67.1	..	..	349	ESE
12	3	29.858	66.9	0.017	0.7	508	ESE
13	5	29.780	59.2	0.132	4.2	372	SE & Var.
14	5	30.035	59.3	..	..	212	WNW
15	2	29.922	62.3	0.030	0.3	196	SE & Var.
16	1	29.626	58.9	1.340	13.5	185	ESE & Var.
17	2	29.469	55.1	1.212	6.7	589	WNW
18	..	29.633	56.8	..	..	364	WNW
19	7	29.735	60.8	0.010	0.6	218	SSE
20	1	29.582	61.1	0.003	0.1	302	SE & Var.
21	2	29.584	55.9	0.390	3.3	258	SSE
22	2	29.532	56.9	0.019	0.5	570	SSW
23	6	29.778	59.4	..	..	230	SW & W
24	7	29.908	62.4	0.005	0.2	163	W & Var.
25	3	29.605	56.2	0.170	1.8	627	SSW
26	3	29.532	56.4	0.310	4.8	722	WSW
27	4	29.415	57.8	0.650	5.7	452	SW & SE
28	6	29.303	58.4	0.002	0.3	720	S
29	5	29.570	54.4	0.090	0.7	711	WSW
30	7	29.840	54.7	0.154	2.4	364	SW
31	3	30.021	52.8	..	..	551	W

DIARRHŒA IN DATES OF DEATH, 1879.

DATE. Sept.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	8	30.387	54.2	0.004	0.5	276	SW & W
2	5	30.292	57.3	..	..	476	SW
3	1	30.078	59.6	0.038	1.1	430	SW
4	5	30.106	56.0	0.105	3.1	182	NW & N
5	4	29.994	60.0	0.010	0.8	361	ESE
6	6	29.725	61.0	..	..	364	ESE
7	4	29.449	57.0	0.642	5.0	471	SE
8	7	29.452	56.7	0.484	9.7	476	SSE
9	3	29.427	55.1	0.031	0.8	767	W & Var.
10	1	29.933	55.2	..	..	582	W
11	3	29.817	56.2	0.645	11.6	329	S
12	7	29.520	58.0	0.009	0.3	311	WSW
13	4	29.675	53.5	..	..	165	NW & Var.
14	3	29.846	56.3	..	..	278	WNW
15	4	29.987	56.2	..	..	137	WSW
16	3	30.028	55.8	..	..	135	NE & E
17	5	29.982	58.4	0.010	0.4	200	SE
18	5	29.973	60.1	..	..	133	SE & NW
19	3	30.133	54.3	..	..	272	WNW
20	3	30.016	56.4	..	..	475	WSW
21	3	29.894	52.5	0.215	5.0	446	WSW
22	1	29.788	52.4	0.130	2.7	606	W
23	1	29.406	50.9	0.008	0.2	468	WSW
24	2	29.536	48.0	0.187	2.1	167	S & Var.
25	2	29.999	52.9	..	..	533	WSW
26	5	30.207	50.1	0.120	2.1	328	WSW & S
27	4	30.232	53.2	0.005	0.3	268	SE & S
28	2	29.969	52.6	0.230	5.7	333	NW & S
29	2	30.134	47.2	..	..	185	NW & Var.
30	..	30.084	50.8	0.210	5.3	339	SE

DIARRHŒA IN DATES OF DEATH, 1879.

DATE. October	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	..	29.704	51.7	0.090	2.2	412	W & SE
2	1	29.798	49.2	0.085	1.2	446	SSW & W
3	2	29.976	54.3	0.081	2.6	629	SW & W
4	2	30.167	51.9	..	..	534	SW & W
5	2	30.255	54.3	..	..	276	SE
6	4	30.345	52.8	0.011	0.7	304	SE
7	2	30.415	52.1	0.008	0.2	318	SE & E
8	3	30.512	49.2	..	..	241	SE & E
9	..	30.509	47.9	..	..	200	SE & NW
10	1	30.471	50.5	..	..	142	NNW & Var.
11	3	30.519	50.8	..	..	92	WNW
12	..	30.528	50.7	..	..	106	WSW
13	2	30.402	50.4	..	..	366	WSW
14	1	30.186	45.8	0.013	0.8	562	W
15	3	30.268	40.9	..	..	286	NNE
16	1	30.240	47.0	0.010	0.3	175	NE & Var.
17	1	29.830	48.6	0.013	0.2	903	WNW
18	1	29.875	52.3	0.160	3.7	249	NNW & Var.
19	2	29.431	50.8	0.063	1.5	820	WSW
20	3	29.371	47.2	0.120	1.7	964	WNW
21	..	29.861	49.1	0.161	4.4	462	WNW
22	..	29.920	52.5	0.010	1.0	413	W
23	1	29.963	56.4	..	..	255	W
24	..	29.718	49.7	0.242	7.4	336	WSW
25	..	29.728	44.0	0.088	1.3	272	W
26	1	30.023	47.4	..	..	405	E
27	2	30.197	48.5	..	..	482	ENE
28	..	30.290	44.9	..	..	283	ESE
29	3	30.288	43.8	..	..	207	ENE & N
30	..	30.331	46.0	..	..	407	ENE
31	1	30.281	46.2	..	..	215	ENE

WHOOPIING COUGH

Occasioned 234 deaths, or 78 in the Parish and 156 in the Out-Townships. (The average number of deaths for the preceding ten years was 457). Its percentage death-rate relatively to deaths from all causes was 2·4 in the first quarter of the year, 1·7 in the second, 0·8 in the third, and 1·3 in the fourth; its percentage rate relatively to deaths from all causes was 1·6, and relatively to deaths from Zymotic causes 9·4.

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 ..		4	6	2	4	..	1	..	1	6	12	18
	{ Above 5 years ..		..	1	..	..	..	1	1	..	1	2	3
Vauxhall	{ Below 5 years ..		1	4	..	2	..	..	..	1	1	7	8
	{ Above 5 years ..		..	1	..	..	..	..	..	..	..	1	1
St. Paul's.....	{ Below 5 years ..		..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Exchange.....	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	1	..	1	..	1
St. Anne's	{ Below 5 years ..		2	3	2	2	..	..	..	1	4	6	10
	{ Above 5 years ..		1	..	..	..	..	..	..	1	..	..	1
Lime Street.....	{ Below 5 years ..		1	1	..	..	..	1	..	1	1	3	4
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		2	..	1	..	..	..	..	1	3	1	4
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..		1	1	..	2	..	..	..	1	1	4	5
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		1	1	..	1	..	..	..	1	1	3	4
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Rodney Street.....	{ Below 5 years ..		..	2	1	2	..	..	1	..	2	4	6
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..		2	1	1	..	..	1	1	1	4	3	7
	{ Above 5 years ..		1	1	..	..	..	..	..	..	1	1	2
Parish Workhouse and Hospitals	{ Below 5 years ..		1	1	..	..	..	..	..	..	1	1	2
	{ Above 5 years ..		..	..	1	..	..	..	..	..	1	..	1
Out-Township Workhouse and Hospitals..	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years ..		9	12	6	4	1	3	3	3	19	22	41
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Kirkdale	{ Below 5 years ..		6	1	1	1	..	1	1	2	8	5	13
	{ Above 5 years ..		..	2	..	..	..	..	..	..	..	2	2
West Derby.....	{ Below 5 years ..		7	4	5	5	4	3	3	7	19	19	38
	{ Above 5 years ..		1	..	1	1	..	1	..	..	2	2	4
North Toxteth	{ Below 5 years ..		5	5	5	3	1	1	7	6	18	15	33
	{ Above 5 years ..		1	..	..	..	..	..	..	..	1	..	1
South Toxteth	{ Below 5 years ..		5	5	1	1	..	3	3	3	9	12	21
	{ Above 5 years ..		1	..	..	..	..	..	1	1	2	1	3
Parish	{ Below 5 years ..		15	20	7	13	..	3	2	9	24	45	69
	{ Above 5 years ..		2	3	1	..	..	1	1	1	4	5	9
Out-Townships	{ Below 5 years ..		32	27	18	14	6	11	17	21	73	73	146
	{ Above 5 years ..		3	2	1	1	..	1	1	1	5	5	10
Borough	{ Below 5 years ..		47	47	25	27	6	14	19	30	97	118	215
	{ Above 5 years ..		5	5	2	1	..	2	2	2	9	10	19

DEATHS FROM CROUP.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.		M.	F.	Total.
			M.	F.	M.	F.	M.	F.	M.	F.			
Scotland	{ Below 5 years ..		6	4	1	1	..	4	2	4	9	13	22
	{ Above 5 years ..		..	..	..	..	1	..	..	..	1	..	1
Vauxhall	{ Below 5 years ..		..	..	1	..	..	..	1	..	2	..	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years ..		..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years ..		..	1	1	..	..	..	..	..	1	1	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..		..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..		1	..	..	..	..	..	..	..	1	..	1
Lime Street	{ Below 5 years ..		..	1	..	..	..	..	2	..	2	1	3
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..		..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		..	..	..	1	..	..	1	..	1	..	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..		..	..	..	..	2	1	..	..	2	1	3
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..		..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..		..	..	..	..	2	1	1	..	3	1	4
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..		1	..	1	..	..	..	..	..	2	..	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	1	..	1	..	..	1
Everton	{ Below 5 years ..		6	3	2	2	3	3	6	4	17	12	29
	{ Above 5 years ..		1	1	..	..	..	..	..	..	1	1	2
Kirkdale	{ Below 5 years ..		1	1	1	3	2	1	6	..	10	5	15
	{ Above 5 years ..		..	..	..	1	..	..	..	..	1	..	1
West Derby	{ Below 5 years ..		2	5	5	3	1	..	2	1	10	9	19
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
North Toxteth	{ Below 5 years ..		2	2	..	3	..	..	1	1	3	6	9
	{ Above 5 years ..		..	1	..	1	..	..	..	..	2	..	2
South Toxteth	{ Below 5 years ..		1	1	..	1	..	1	3	1	4	4	8
	{ Above 5 years ..		..	..	..	..	..	..	1	..	1	..	1
Parish	{ Below 5 years ..		8	6	5	2	5	6	7	6	25	20	45
	{ Above 5 years ..		1	..	..	..	1	..	..	..	2	..	2
Out-Townships	{ Below 5 years ..		12	12	8	12	6	5	18	7	44	36	80
	{ Above 5 years ..		1	2	..	1	1	..	1	1	3	4	7
Borough	{ Below 5 years ..		20	18	13	14	11	11	25	13	69	56	125
	{ Above 5 years ..		2	2	..	1	2	..	1	1	5	4	9

DEATHS FROM DIPHTHERIA.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years	..	..	..	1	..	..	1	1	1	2	3
	{ Above 5 years	..	..	..	1	..	..	2	..	2	1	3
Vauxhall	{ Below 5 years	..	..	..	..	..	1	..	..	..	1	1
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ 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	1	2
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years	1	1	..	..	..	..	..	..	1	1	2
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years	..	..	..	..	..	1	..	..	..	1	1
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years	..	2	..	..	..	..	1	..	1	2	3
	{ Above 5 years	..	1	1	..	..	..	..	..	1	1	2
Parish Workhouse and Hospitals	{ Below 5 years	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals.	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years	3	2	2	1	1	..	1	..	7	3	10
	{ Above 5 years	1	2	..	2	1	1	1	2	3	7	10
Kirkdale	{ Below 5 years	4	..	2	1	2	1	..	1	8	3	11
	{ Above 5 years	2	..	1	..	..	1	..	1	3	2	5
West Derby	{ Below 5 years	..	2	1	..	..	..	1	..	2	2	4
	{ Above 5 years	..	..	..	..	..	..	1	1	1	1	2
North Toxteth	{ Below 5 years	..	..	..	..	..	1	1	..	1	1	2
	{ Above 5 years	1	..	..	..	1	..	..	..	2	..	2
South Toxteth	{ Below 5 years	..	..	..	..	1	1	..	..	1	1	2
	{ Above 5 years	..	1	..	..	..	..	..	..	..	1	1
Parish	{ Below 5 years	1	3	1	1	..	3	3	1	5	8	13
	{ Above 5 years	..	1	1	1	..	..	2	..	3	2	5
Out-Townships	{ Below 5 years	7	4	5	2	4	3	3	1	19	10	29
	{ Above 5 years	4	3	1	2	2	2	2	4	9	11	20
Borough	{ Below 5 years	8	7	6	3	4	6	6	2	24	18	42
	{ Above 5 years	4	4	2	3	2	2	4	4	12	13	25

OTHER ZYMOTICS.

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

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	2	3	1	2	3	3	4	1	10	9	19
	{ Above 5 years ..	..	2	1	..	1	2	..	2	2	6	8
Vauxhall	{ Below 5 years ..	..	2	2	..	..	..	1	..	3	2	5
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	1	1
St. Paul's	{ Below 5 years ..	..	1	..	..	..	..	1	..	1	1	2
	{ Above 5 years ..	..	..	..	..	1	..	1	1	2	1	3
Exchange	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	1	1	..	1	..	2	1	3
St. Anne's	{ Below 5 years ..	2	2	..	1	..	1	1	..	3	4	7
	{ Above 5 years ..	..	..	..	1	1	..	1	1	2	2	3
Lime Street	{ Below 5 years ..	1	..	1	..	..	..	2	..	4	..	4
	{ Above 5 years ..	..	..	..	..	..	..	1	1	1	1	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	..	..	1	..	2	..	2
	{ Above 5 years ..	..	..	..	..	1	1	..	1	1	1	2
Great George	{ Below 5 years ..	..	..	..	..	..	..	2	..	2	..	2
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Rodney Street	{ Below 5 years ..	..	1	1	..	..	1	..	1	1	3	4
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Abereromby	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	1	..	1	..	2	..	2
Parish Workhouse and Hospitals	{ Below 5 years ..	3	2	1	5	4	1	2	4	10	12	22
	{ Above 5 years ..	1	..	3	3	2	4	2	1	8	8	16
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..	2	..	1	2	..	..	2	..	5	2	7
Everton	{ Below 5 years ..	1	2	1	2	..	2	5	6	7	12	19
	{ Above 5 years ..	1	1	1	2	1	1	1	2	4	6	10
Kirkdale	{ Below 5 years ..	..	4	2	1	1	..	1	1	4	6	10
	{ Above 5 years ..	1	..	..	..	..	1	..	2	1	3	4
West Derby	{ Below 5 years ..	..	2	2	..	2	1	1	4	5	7	12
	{ Above 5 years ..	..	4	2	..	1	..	3	1	6	5	11
North Toxteth	{ Below 5 years ..	..	1	1	1	1	..	3	1	5	3	8
	{ Above 5 years ..	..	..	..	1	1	3	1	3	2	7	9
South Toxteth	{ Below 5 years ..	..	..	..	1	2	1	1	..	3	2	5
	{ Above 5 years ..	..	..	..	..	1	..	1	1	1	..	2
Parish	{ Below 5 years ..	8	11	6	9	8	6	11	10	33	36	69
	{ Above 5 years ..	1	2	4	4	6	9	7	9	18	24	42
Out-Townships	{ Below 5 years ..	1	9	6	5	6	4	11	13	24	31	55
	{ Above 5 years ..	4	5	4	5	4	5	7	9	19	24	43
Borough	{ Below 5 years ..	9	20	12	14	14	10	22	23	57	67	124
	{ Above 5 years ..	5	7	8	9	10	14	14	18	37	48	85

TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 1,856 deaths in the Borough of Liverpool during the year 1879, of which 819 occurred in the Parish, and 1,037 in the Out-Townships. (The average number of deaths for the preceding ten years was 2,028). The death-rate was 3·4 per 1,000 of the estimated population; their percentage death-rate relatively to deaths from all causes was 12·8.

PHTHISIS.

The deaths from Phthisis amounted to 1,348, and show a gradual decrease, the average number for the preceding ten years being 1,568.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	..	1	1	..	..	..	..	2	1	3	4
	{ Above 5 years ..	20	26	11	13	9	8	14	18	54	65	119
Vauxhall	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	4	3	5	3	4	4	3	6	16	16	32
St. Paul's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	7	6	6	3	2	4	3	14	18	32
Exchange	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	2	2	2	3	1	1	2	6	7	13
St. Anne's	{ Below 5 years ..	..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..	8	2	5	7	7	8	5	1	25	18	43
Lime Street	{ Below 5 years ..	..	..	..	1	1	..	..	..	1	1	2
	{ Above 5 years ..	4	6	4	..	3	3	2	3	13	12	25
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	1	..	..	..	1	..	1
St. Peter's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	3	..	1	1	2	1	..	2	6	4	10
Pitt Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	6	3	4	3	4	..	..	2	14	8	22
Great George	{ Below 5 years ..	..	..	..	1	..	..	..	..	..	1	1
	{ Above 5 years ..	5	4	3	3	4	..	1	2	13	9	22
Rodney Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	4	4	3	6	4	1	4	3	15	14	29
Abercromby	{ Below 5 years ..	..	..	..	1	..	..	..	..	1	..	1
	{ Above 5 years ..	4	7	10	5	5	4	4	6	23	22	45
Parish Workhouse and Hospitals	{ Below 5 years ..	2	1	..	..	..	1	..	..	2	2	4
	{ Above 5 years ..	59	26	40	31	22	23	33	14	154	94	248
Out-Township Workhouse and Hospitals ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	13	10	8	8	11	6	6	10	38	34	72
Everton	{ Below 5 years ..	2	..	2	1	2	..	..	3	6	4	10
	{ Above 5 years ..	25	40	23	38	24	29	23	22	95	129	224
Kirkdale	{ Below 5 years ..	2	..	1	1	..	..	..	..	3	1	4
	{ Above 5 years ..	5	13	11	7	8	5	10	10	34	35	69
West Derby	{ Below 5 years ..	..	2	1	1	..	1	2	..	3	4	7
	{ Above 5 years ..	23	19	17	16	13	9	19	10	72	54	126
North Toxteth	{ Below 5 years ..	1	1	2	..	..	..	..	..	3	1	4
	{ Above 5 years ..	14	17	11	17	11	14	12	20	48	68	116
South Toxteth	{ Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..	6	10	10	5	10	7	4	9	30	31	61
Parish	{ Below 5 years ..	2	2	2	2	2	1	..	2	6	7	13
	{ Above 5 years ..	118	90	94	80	71	55	71	62	354	287	641
Out-Townships	{ Below 5 years ..	6	3	6	3	2	1	2	3	16	10	26
	{ Above 5 years ..	86	109	80	91	77	70	74	81	317	351	668
Borough	{ Below 5 years ..	8	5	8	5	4	2	2	5	22	17	39
	{ Above 5 years ..	204	199	174	171	148	125	145	143	671	638	1309

DEATHS FROM THE OTHER TUBERCULAR DISEASES.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	6	6	5	5	10	6	14	5	35	22	57
	{ Above 5 years ..	3	3	1	2	..	2	2	..	6	7	13
Vauxhall	{ Below 5 years ..	..	1	1	1	..	1	1	1	2	4	6
	{ Above 5 years ..	..	..	..	..	1	..	..	..	1	..	1
St. Paul's	{ Below 5 years ..	2	..	2	..	1	..	2	..	7	..	7
	{ Above 5 years ..	..	..	1	..	..	..	1	..	2	..	2
Exchange	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..	1	..	1	2	..	2	1	1	3	5	8
	{ Above 5 years ..	1	..	1	..	..	1	..	..	2	1	3
Lime Street	{ Below 5 years ..	2	1	1	1	1	2	2	..	6	4	10
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	1	..	..	..	..	..	..	..	1	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	1	2	1	..	1	..	..	1	3	3	6
	{ Above 5 years ..	..	..	..	..	..	1	..	2	..	3	3
Great George	{ Below 5 years ..	2	..	1	1	1	1	..	..	4	2	6
	{ Above 5 years ..	..	..	1	1	..	1	1	1	2	3	5
Rodney Street	{ Below 5 years ..	2	..	2	..	..	..	4	1	8	1	9
	{ Above 5 years ..	1	..	1	..	..	..	..	..	2	..	2
Abercromby	{ Below 5 years ..	2	..	..	1	2	1	4	..	8	2	10
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..	1	2	..	..	..	1	..	1	1	4	5
	{ Above 5 years ..	..	2	3	..	3	..	1	1	7	3	10
Out-Township Workhouse and Hospitals.	{ Below 5 years ..	..	..	..	..	1	..	1	..	2	..	2
	{ Above 5 years ..	..	..	1	..	..	..	2	1	2	..	3
Everton	{ Below 5 years ..	17	10	20	12	19	12	24	17	80	51	131
	{ Above 5 years ..	4	2	4	3	4	1	2	1	14	7	21
Kirkdale	{ Below 5 years ..	6	8	5	10	4	2	7	5	22	25	47
	{ Above 5 years ..	1	..	1	2	1	..	..	..	3	2	5
West Derby	{ Below 5 years ..	8	3	8	2	9	10	7	2	32	17	49
	{ Above 5 years ..	1	1	3	1	2	..	2	2	8	4	12
North Toxteth	{ Below 5 years ..	6	2	5	4	7	..	6	5	24	11	35
	{ Above 5 years ..	..	1	..	1	1	1	..	..	1	3	4
South Toxteth	{ Below 5 years ..	4	4	5	2	3	..	4	3	16	9	25
	{ Above 5 years ..	1	..	..	1	4	..	2	1	7	2	9
Parish	{ Below 5 years ..	20	13	14	11	16	14	28	10	78	48	126
	{ Above 5 years ..	5	5	8	3	4	5	5	4	22	17	39
Out-Townships	{ Below 5 years ..	41	27	43	30	43	24	49	32	176	113	289
	{ Above 5 years ..	7	4	9	8	12	2	6	6	34	20	54
Borough	{ Below 5 years ..	61	40	57	41	59	38	77	42	254	161	415
	{ Above 5 years ..	12	9	17	11	16	7	11	10	56	37	93

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

DATE—1879.	Mean Barometer.	Mean Temperature.	Rainfall on Ground.
January	Inches. 30.032	o 31.5	Inches. 1.506
February	29.496	37.6	2.642
March	29.949	41.1	1.080
April	29.689	43.2	2.306
May	30.010	49.0	2.258
June	29.385	56.3	3.515
July	29.737	57.1	2.921
August	29.752	58.2	6.211
September	29.902	55.0	3.083
October	30.110	49.3	1.155
November	30.245	41.6	1.413
December	30.254	36.1	1.605

The Select Vestry are kind enough to forward to the Office a daily list of the cases of Fever and Small Pox attended by the Parochial Medical Officers, and a monthly list of the cases of all Zymotic diseases, of Tubercular diseases, and of sickness from other causes, which have occurred in the twelve districts of the Parish.

The daily list enables the Health Committee to take action for the purification of the houses, and I am able from the other to classify the districts and streets in which sickness has prevailed.

The following are the streets within the Parish of Liverpool in which three or more cases of Fever, or two or more of Scarlatina have occurred during the year :—

STREETS.	Zymotic Diseases, including Fever and Scarlatina.	Fever.	Scarlatina.	Tubercular Diseases, including Phthisis.	Phthisis	Other Diseases.
Addison	31	21	7	5	5	201
Almond	3	..	3	..	..	40
Arley	4	..	3	2	2	51
Back Bond	3	..	3	..	..	13
Baptist'	5	5	..	1	1	32
Bayhorse Lane	4	4	..	2	1	48
Beau	13	8	..	1	1	120
Ben Jonson	7	6	..	..	..	80
Bittern	3	..	3	..	..	9
Blandford	12	11	..	20	16	190
Blenheim	5	..	2	5	5	174
Bond	4	..	2	3	3	63
Brick	6	3	..	10	3	197
Bridgewater	3	..	3	9	8	72
Brownlow	4	3	..	..	..	17
Brownlow Hill (Vagrant sheds included)	40	18	4	11	9	428
Burlington	6	..	2	4	4	144
Canning Place (Sailors' Home included)	5	4	..	1	1	42
Christian	4	..	3	4	4	104
Cranmer	3	..	3	..	..	19
Denison	3	3	..	1	1	22
Dryden	15	7	..	19	18	127
Duckinfield	10	..	5	4	4	169
Epsom	4	3	..	..	..	110
Ford	9	8	..	4	4	121
Gerard	6	..	3	3	3	76
Gildarts Gardens	4	4	..	6	6	72
Great Nelson	3	..	3	..	..	..

STREETS.	Zymotic Diseases, including Fever and Scarlatina.	Fever.	Scarlatina.	Tubercular Diseases, including Phthisis.	Phthisis	Other Diseases.
Harrison	9	8	..	2	2	42
Henry Edward	5	3	..	13	13	120
Holly	9	9	..	3	3	61
Hopwood	2	..	2	2	2	112
Hornby.....	17	10	6	5	5	383
Johnson	4	..	3	4	4	53
Jordan	10	8	..	7	3	101
Kew	6	..	2	1	1	134
Lace	6	6	..	2	1	123
Lionel	5	5	..	4	4	65
Maguire	4	3	..	1	1	100
Menai	3	3	..	..	..	8
Midghall	7	6	..	7	7	121
Milton	8	5	..	5	4	172
Pall Mall	6	6	..	..	..	44
Paradise	4	4	..	..	..	2
Paul	4	3	..	5	4	79
Penrhyn	9	4	4	1	1	87
Portland	5	3	..	5	5	121
Rachel	25	22	..	5	5	70
Rathbone	12	11	..	9	4	39
Raymond.....	5	4	..	2	1	124
Richmond Row	12	7	5	7	7	118
Roscoe Lane.....	6	3	..	..	..	41
Rose Place	6	5	..	7	7	93
Saint Andrew	12	11	..	1	1	144
Sawneypope.....	6	4	..	20	20	149
Stockdale.....	5	3	..	12	12	89
Tatlock.....	14	8	2	1	1	118
Tenterden	4	3	..	10	2	83
ThurLOW	5	5	..	2	2	51
Tindall	5	4	..	1	..	42
Trueman	6	6	..	2	2	79
Turner	2	..	2	1	1	10
Upper Frederick.....	3	3	..	7	7	255
Upper Milk	7	7	..	..	..	45
Walnut.....	13	12	..	..	..	20

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

PARISH OF LIVERPOOL.

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

1879. WEEK ENDING		SCARLATINA.				SMALL POX.				TYPHOID.						
		No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.
Jan.	4.....	8	3	1	1	9	..	..	..	..	..	2	4	2	..	4
"	11.....	9	1	..	..	10	..	..	..	..	..	4	13	3	..	14
"	18.....	10	1	1	..	10	..	..	..	..	..	14	5	2	..	17
"	25.....	10	..	..	..	10	..	..	..	..	..	17	2	2	1	16
Feb.	1.....	10	1	5	1	5	..	..	..	..	..	16	9	2	..	23
"	8.....	5	3	..	..	8	..	..	..	..	..	23	4	4	2	21
"	15.....	8	6	3	..	11	..	..	..	..	..	21	3	8	..	16
"	22.....	11	1	1	..	11	..	..	..	..	..	16	1	1	1	15
March	1.....	11	6	2	..	15	..	..	..	..	..	15	..	6	..	9
"	8.....	15	6	1	..	20	..	..	..	..	..	9	1	1	..	9
"	15.....	20	3	1	4	18	..	..	..	..	..	9	1	1	..	9
"	22.....	18	4	3	1	18	..	..	..	..	..	9	1	1	..	9
"	29.....	18	2	2	2	16	..	..	..	..	..	9	..	3	..	6
April	5.....	16	..	3	..	13	..	..	..	..	..	6	1	..	1	6
"	12.....	13	1	4	..	10	..	..	..	..	..	6	4	2	..	8
"	19.....	10	2	3	2	7	..	..	..	..	..	8	..	..	..	8
"	26.....	7	..	1	..	6	..	..	..	..	..	8	1	..	1	8
May	3.....	6	..	1	..	5	..	..	..	..	..	8	1	1	..	8
"	10.....	5	..	1	..	4	..	..	..	..	..	8	..	1	1	6
"	17.....	4	5	1	..	8	..	..	..	..	..	6	1	1	..	6
"	24.....	8	4	1	1	10	..	..	..	..	..	6	..	3	..	3
"	31.....	10	3	..	1	12	..	..	..	..	..	3	1	2	1	1
June	7.....	12	1	2	..	11	..	..	..	..	..	1	..	..	..	1
"	14.....	11	4	2	..	13	..	..	..	..	..	1	..	..	..	1
"	21.....	13	3	..	..	16	..	..	..	..	..	1	..	..	..	1
"	28.....	16	4	9	..	11	..	..	..	..	..	1	..	1	..	..
July	5.....	11	..	2	1	8	..	..	..	..	..	..	..	..	..	..
"	12.....	8	..	2	1	5	..	..	..	..	..	..	2	1	..	1
"	19.....	5	1	1	2	3	..	..	..	..	..	1	1	..	2	..
"	26.....	3	2	..	..	5	..	..	..	..	..	..	2	..	..	2
Aug.	2.....	5	4	..	..	9	..	..	..	..	..	2	2	1	1	2
"	9.....	9	..	..	..	9	..	..	..	..	..	2	..	..	2	..
"	16.....	9	1	6	..	4	..	..	..	..	..	..	7	1	..	6
"	23.....	4	4	..	1	7	..	..	..	..	..	6	4	..	3	7
"	30.....	7	3	..	..	10	..	..	..	..	..	7	..	..	..	7
Sept.	6.....	10	7	1	..	16	..	2	..	2	..	7	..	..	..	7
"	13.....	16	4	5	1	14	2	..	2	..	..	7	..	..	..	7
"	20.....	14	5	2	2	15	..	..	..	..	..	7	1	3	..	5
"	27.....	15	1	2	2	12	..	..	..	..	..	5	2	2	1	4
Oct.	4.....	12	9	3	2	16	..	..	..	..	..	4	1	1	1	3
"	11.....	16	1	3	1	13	..	..	..	..	..	3	1	1	..	3
"	18.....	13	1	3	..	11	..	..	..	..	..	3	5	6	1	1
"	25.....	11	5	..	..	16	..	..	..	..	..	1	3	..	..	4
Nov.	1.....	16	..	..	2	14	..	..	..	..	..	4	1	1	..	4
"	8.....	14	2	6	..	10	..	..	..	..	..	4	1	2	..	3
"	15.....	10	4	3	1	10	..	..	..	..	..	3	..	1	..	2
"	22.....	10	7	1	1	15	..	..	..	..	..	2	..	1	..	1
"	29.....	15	5	3	3	14	..	..	..	..	..	1	1	1	..	1
Dec.	6.....	14	..	1	1	12	..	..	..	..	..	1	1	1	..	1
"	13.....	12	5	4	2	11	..	..	..	..	..	1	2	..	1	2
"	20.....	11	3	..	..	14	..	..	..	..	..	2	3	..	1	4
"	27.....	14	..	2	1	11	..	..	..	..	..	4	1	1	1	3

PARISH OF LIVERPOOL.

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

1879. WEEK ENDING		TYPHUS.				SIMPLE CONTINUED.				MEASLES.						
		No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.
Jan.	4....	13	11	4	3	17	23	3	12	..	14	..	..	..	..	..
"	11....	17	7	7	..	17	14	3	14	..	3	..	..	..	..	..
"	18....	17	8	3	..	22	3	1	2	..	2	..	..	..	..	..
"	25....	22	3	3	3	19	2	1	1	..	2	..	..	..	..	..
Feb.	1....	19	2	2	..	19	2	5	..	..	7	..	..	..	..	..
"	8....	19	7	6	1	19	7	..	3	..	4	..	..	..	..	..
"	15....	19	4	3	1	19	4	8	6	..	6	..	1	..	..	1
"	22....	19	12	8	4	19	6	1	6	..	1	1	..	..	..	1
March	1....	19	7	5	1	20	1	5	2	1	3	1	..	..	..	1
"	8....	20	3	1	1	21	3	6	5	..	4	1	..	..	..	1
"	15....	21	1	2	..	20	4	3	6	..	1	1	..	1	..	..
"	22....	20	3	6	2	15	1	2	2	..	1	..	..	..	..	..
"	29....	15	1	2	1	13	1	7	..	..	8	..	..	..	..	..
April	5....	13	1	8	..	6	8	5	1	..	12	..	..	..	..	..
"	12....	6	1	1	2	4	12	5	6	..	11	..	..	..	..	..
"	19....	4	3	4	..	3	11	..	6	..	5	..	..	..	..	..
"	26....	3	1	1	..	3	5	2	1	..	6	..	..	..	..	..
May	3....	3	2	..	..	5	6	4	1	..	9	..	..	..	..	..
"	10....	5	15	1	1	18	9	4	3	..	10	..	..	..	..	..
"	17....	18	..	2	2	14	10	7	2	..	15	..	..	..	..	..
"	24....	14	2	..	3	13	15	2	4	..	13	..	..	..	..	..
"	31....	13	4	1	1	15	13	6	..	..	19	..	..	..	..	..
June	7....	15	5	7	1	12	19	4	9	..	14	..	..	..	..	..
"	14....	12	7	2	..	17	14	6	4	1	15	..	..	..	..	..
"	21....	17	2	5	2	12	15	1	3	1	12	..	..	..	..	..
"	28....	12	1	4	..	9	12	7	6	..	13	..	..	..	..	..
July	5....	9	1	2	1	7	13	5	6	2	10	..	..	..	..	..
"	12....	7	1	5	..	3	10	5	3	..	12	..	..	..	..	..
"	19....	3	6	2	..	7	12	2	3	..	11	..	..	..	..	..
"	26....	7	2	2	..	7	11	4	1	..	14	..	..	..	..	..
Aug.	2....	7	4	1	..	10	14	3	5	..	12	..	..	..	..	..
"	9....	10	6	..	..	16	12	3	5	..	10	..	..	..	..	..
"	16....	16	8	3	..	21	10	5	5	1	9	..	..	..	..	..
"	23....	21	8	1	2	26	9	9	11	..	7	..	4	..	..	4
"	30....	26	4	6	2	22	7	5	4	1	7	4	..	1	..	3
Sept.	6....	22	2	3	1	20	7	5	6	1	5	3	..	3	..	..
"	13....	20	1	8	..	13	5	7	2	2	8	..	..	..	..	..
"	20....	13	4	3	..	14	8	2	1	..	9	..	..	..	..	..
"	27....	14	..	3	..	11	9	3	1	..	11	..	1	..	..	1
Oct.	4....	11	1	2	..	10	11	4	2	..	13	1	2	..	..	3
"	11....	10	3	3	..	10	13	5	..	..	18	3	3	2	..	4
"	18....	10	2	4	..	8	18	..	1	..	17	4	3	..	..	7
"	25....	8	4	..	..	12	17	4	7	..	14	7	7	..	..	14
Nov.	1....	12	..	2	1	9	14	3	4	..	13	14	5	..	1	18
"	8....	9	6	3	..	12	13	1	4	..	10	18	12	13	1	16
"	15....	12	3	7	..	8	10	3	3	..	10	16	6	5	..	17
"	22....	8	1	2	3	4	10	3	5	..	8	17	7	13	..	11
"	29....	4	2	..	..	6	8	5	2	..	11	11	1	4	..	8
Dec.	6....	6	3	2	..	7	11	7	5	..	13	8	2	1	1	8
"	13....	7	4	1	1	9	13	6	10	..	9	8	6	2	1	11
"	20....	9	6	2	1	12	9	5	3	..	11	11	6	1	1	15
"	27....	12	1	1	..	12	11	9	3	..	17	15	9	2	..	22

PARISH OF LIVERPOOL.

RETURN OF PERSONS IN RECEIPT OF RELIEF IN THE YEAR 1879.

Week ending.	Work-house.	Industrial Schools.	Out-Relief.	Week ending.	Work-house.	Industrial Schools.	Out-Relief.
1879.				1879.			
January 4..	2859	988	2682	July 5..	2536	938	2420
" 11..	2911	1029	2688	" 12..	2528	939	2470
" 18..	2874	1031	2820	" 19..	2519	941	2454
" 25..	2911	1025	2945	" 26..	2556	940	2455
February 1..	2923	1011	3024	August 2..	2555	925	2465
" 8..	2893	1017	3030	" 9..	2617	923	2425
" 15..	2882	1019	2995	" 16..	2644	931	2420
" 22..	2869	1032	2909	" 23..	2699	932	2484
March 1..	2849	1015	2782	" 30..	2743	890	2479
" 8..	2811	1019	2719	September 6..	2673	886	2475
" 15..	2776	1007	2639	" 13..	2664	874	2500
" 22..	2776	997	2618	" 20..	2659	872	2541
" 29..	2765	1010	2512	" 27..	2681	860	2542
April 5..	2673	1006	2486	October 4..	2683	860	2565
" 12..	2646	1017	2474	" 11..	2702	849	2578
" 19..	2651	1020	2434	" 18..	2740	856	2593
" 26..	2651	1027	2476	" 25..	2826	868	2659
May 3..	2645	1024	2411	November 1..	2823	874	2679
" 10..	2605	1016	2405	" 8..	2847	851	2697
" 17..	2591	1005	2440	" 15..	2880	851	2681
" 24..	2609	972	2425	" 22..	2947	838	2673
" 31..	2615	990	2407	" 29..	2985	837	2664
June 7..	2535	999	2391	December 6..	3042	835	2728
" 14..	2542	986	2413	" 13..	3050	855	2835
" 21..	2566	954	2462	" 20..	3079	854	2868
" 28..	2543	972	2415	" 27..	3046	850	2834

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 1879 was 28, and their percentage Death-rate was 13.5. The average number of cases of Measles at one time in Hospital during the year was 3, and the percentage Death-rate was 6.6; the average number of cases of Scarlatina at one time in the Hospital during the year was 11, and the percentage Death-rate was 25.8.

The number of persons in receipt of Parochial Relief on Saturday, 28th of June, 1879, was 5,930, or 470 more than at the corresponding period of 1878; and the number on Saturday, the 27th December, 1879, was 6,730, or 195 more than at the same period of 1878.

SANITARY WORK.

Privies Certified for Conversion into Water Closets during the year 1879.

WARDS.	No. of Privies Certified.
Scotland	556
Vauxhall	12
St. Paul's	13
Exchange	2
St. Anne's	11
Lime Street	7
St. Peter's	1
Great George	5
Rodney Street	3
Abercromby	25
Everton	826
Kirkdale	186
West Derby	42
North Toxteth	221
South Toxteth	205
TOTAL	2115

The Borough Engineer has kindly supplied the following tables:—

The number of Houses Erected; also the number of Houses Taken Down in each of the Sixteen Wards during the year 1879:—

	WARDS.	Houses Erected.	Houses taken down.
1	Everton and Kirkdale	905	1
2	Scotland	4	7
3	Vauxhall	...	52
4	St. Paul's	...	...
5	Exchange	1	21
6	Castle Street	...	83
7	St. Peter's	...	2
8	Pitt Street	...	...
9	Great George	...	12
10	Rodney Street	...	2
11	Abercromby	4	11
12	Lime Street	...	6
13	St. Anne's	...	...
14	West Derby	581	15
15	North Toxteth	545	...
16	South Toxteth	298	...
	TOTAL	2338	212

SEWER VENTILATION.

Number of Iron Pipe Ventilating Shafts, fitted with Archimedian Extractors	1,018
Length of Sewers Ventilated under present system	117 Miles
Number of Street Ventilating Gratings fixed	2,539

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 1,095 lodging-houses at the end of 1878, and 1,064 at the end of 1879. This difference was occasioned by the removal of 301 old licenses, and the addition of 270 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 45,329, and the night visits 5,970. The number of lodging-houses found overcrowded on the night visits was 32, the number of informations laid for breaches of the bye-laws was 122, with the results of fines in 116 cases to the extent of £21 16s. 6d., in sums varying from 1s. to 20s. and costs. The number of lodging houses found dirty was 209; 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 3,114 such visits paid during the day, and in 97 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 214 such notices issued during the year, but in only 12 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. 25 cases of fever and 4 cases of small pox occurred in lodging-houses; in 28 of the cases the patients were at once sent to hospital, the remaining one being a member of the keeper's family, was not removed; this latter patient 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 case where the patient remained, the license to receive lodgers was suspended by the Medical Officer. No

lodger died from fever or small pox in a registered lodging-house; but, not including the case of fever, there were 125 deaths from non-contagious diseases in lodging-houses, of which 79 belonged to the keepers' families and 46 were lodgers.

SUB-LET HOUSES.

The number of sub-let Houses on the Register at the termination of 1878 was 12,294; the number registered during 1879 was 850, making the total on the Register on the 31st December, 13,144. The number of visits paid during the night was 12,825, and during the day 70,676, with the result of finding 1,761 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 1,017 rooms thus indecently occupied by 1,500 males and 1,982 females, besides having also in these rooms 781 children between the ages of 5 and 13 years. The character of the indecent occupation may be judged of from the following facts:—In 439 instances one man and two women were found in the same bedroom; in 237 instances two men and one woman; in 153 instances one man and three women; in 105 instances two men and two women; in thirty-three instances three men and one woman; in fourteen instances two men and three women; in ten instances one man and four women; in four instances two men and four women; in three instances three men and two women; in three instances three men and three women; in three instances three men and four women; in two instances four men and one woman; in two instances four men and four women; in two instances five men and one woman; in one instance one man and six women; in one instance two men and five women; in one instance three men and five women; in one instance four men and two women; in one instance four men and three women; in one instance five men and five women; and in one instance seven men and two women.

Informations were laid against 1,403 chief tenants for permitting overcrowding in rooms, with the following results:—1 was fined 1s; 1,149 fined 1s. and 1s. costs; 4 fined 2s. and 1s. costs; 181 fined 2s. 6d. and 2s. 6d. costs; 37 fined 5s. and 4s. 6d. costs; and 7 fined 10s. and 4s. 6d. costs; making a total of fines levied during the year of £183 9s. Of the remaining 24 cases, 14 informations were withdrawn and 10 acquitted, the tenants having abated the overcrowding.

LICENSES FOR CATTLE.

During the year 1879, 46 applications for licenses to keep 538 cows were made to, and granted by the Health Committee. There are at present 452 shippens licensed to keep 5,235 cows. 110 of the shippens previously licensed have been transferred to fresh tenants.

31 applications were made during the year to keep pigs in styes separate from, and unconnected with shippens; 6 of the applications for keeping 12 pigs were granted. 7 piggeries, licensed to keep 31 pigs, have been given up during the year. 4 piggeries previously licensed have been transferred to fresh tenants. The total number of premises or styes now licensed in the Borough is 164, for keeping 493 pigs.

MORTUARIES.

During the year 66 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 1879.

Year—1879.	Small Pox.	Fever.	Scarlatina.	Measles.	Diphtheria	TOTAL.
January	1	103	161	8	7	280
February	1	70	117	5	16	209
March	—	67	148	5	5	225
April	—	55	105	7	8	175
May	—	63	145	13	1	222
June	2	73	110	26	9	220
July	1	58	117	51	1	228
August	—	70	111	81	6	268
September	1	57	196	237	13	504
October	4	72	256	203	8	543
November	—	63	121	243	4	431
December	2	66	142	335	7	552
TOTAL.....	12	817	1729	1214	85	3857
Removed to Hospital.....	11	504	171	22	2	710

Of the patients removed to Hospital the following were conveyed by the Sanitary Officers:—232 cases of Fever and Scarlatina, 4 cases of Small Pox, 7 cases of Measles, and 1 case of Diphtheria, making a total of 244 persons. 38 were taken to Netherfield Road Hospital, 159 to the Parish Workhouse Hospital, 2 to Toxteth Workhouse Hospital, and 45 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 5,410 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 2,170.

THE DISINFECTING APPARATUS.

The number of articles sent to the Disinfecting Apparatus during the year amounted to 35,054.

DATE 1879.	NUMBER OF ARTICLES DISINFECTED IN THE APPARATUS		DATE 1879.	NUMBER OF ARTICLES DISINFECTED IN THE APPARATUS.	
	Ford Street.	New Bird Street.		Ford Street	New Bird Street.
Week ending			Week ending		
January 4.....	660	762	July 5.....	..	420
11.....	482	523	12.....	..	465
18.....	697	536	19.....	..	347
25.....	614	408	26.....	..	478
February 1.....	463	440	August 2.....	..	357
8.....	391	239	9.....	..	569
15.....	249	417	16.....	..	444
22.....	470	422	23.....	..	692
March 1.....	393	764	30.....	..	539
8.....	321	392	September 6.....	..	257
15.....	389	1249	13.....	..	552
22.....	244	443	20.....	..	613
29.....	185	500	27.....	..	488
Total for.... } Quarter }	5558	7095	Total for.... } Quarter }	..	6221
April 5.....	..	1496	October 4.....	..	681
12.....	..	753	11.....	..	516
19.....	..	497	18.....	..	565
26.....	..	501	25.....	..	716
May 3.....	..	361	November 1.....	..	744
10.....	..	359	8.....	..	323
17.....	..	492	15.....	..	598
24.....	..	841	22.....	..	427
31.....	..	616	29.....	..	530
June 7.....	..	726	December 6.....	..	344
14.....	..	487	13.....	..	405
21.....	..	732	20.....	..	809
28.....	..	591	27.....	..	1070
Total for.... } Quarter }	..	8452	Total for.... } Quarter }	..	7728

LIVERPOOL WATER SUPPLY.

By permission of the Water Committee, the following Summary of the Analyses of the Water supplied to Liverpool, during the year 1879, has been kindly supplied by Dr. J. Campbell Brown:—

During the year 1879, the several sources of water supply have been in a satisfactory condition. The average composition of the water is shown in the accompanying table.

When the pumps ceased working in any well, either for repairs or for other reasons, the proportions of dissolved matters, and especially of hardening salts, are very much decreased, but the freedom from organic contamination does not always decrease in like manner.

The Bootle new deep bore has been finished during the year, and probably a number of analyses will be made during the next year. At present the water has not been sufficiently examined to enable me to say more than that, compared with the old-well water, the water pumped from the new bore contains less mineral matter and hardening salts, but contains a considerably higher proportion of chlorides, and is almost absolutely free from organic matter and from oxydised or previous sewage contamination.

TABLE SHOWING THE AVERAGE COMPOSITION OF THE
LIVERPOOL WATER SUPPLY DURING THE YEAR 1879,
EXPRESSED IN PARTS PER 100,000.

Description.	Total Solid Matters in Solution.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen as Nitrites and Nitrates.	Total Combined Nitrogen.	Chlorine.	Total Hardness.	Remarks.
Bootle Well	36·5	·104	·029	·003	·397	·428	3·75	24½°	
Windsor Well, while the pumps were working	34·0	·161	·063	·005	·368	·435	3·1	25°	
Dudlow Lane Well . . .	17·4	·165	·065	·005	·487	·555	2·9	7·9°	
Green Lane Well . . .	28·4	·141	·068	·016	·391	·472	3·2	19½°	
Rivington Water, from the Mains at Old Swan	9·	·25	·031	·005	{ Trace seldom }	·035	1·4	3¼°	Slightly peaty.
Kensington Reservoir . .	12·5	·195	·045	·008	·075	·126	1·6	6½°	

**INSPECTOR OF NUISANCES' REPORT FOR THE YEAR 1879.
SLAUGHTER-HOUSE RETURNS OF CATTLE KILLED IN
THE BOROUGH, 1879.**

STREET.	Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Dead Meat imported for Sale at the Abattoir.		
						Beasts.	Sheep.	Pigs.
Abattoir	23484	178888	..	11899	16297	5084	29824	..
Foreign Animals' Wharf—								
Huskisson Dock	4095	1604	..	..	..	..	..	..
Canada Dock	4	92	..	..	..	..	..	..
NEW PARTS.								
Arch No. 30	246	154	14	..	1045	..	..	..
Back Butler Street	226	845	154	3	..	..	..	..
Back Castle Street	426	1668	182	1	..	..	..	..
Back Mount Vernon Green	586	5963	810	51	..	..	..	..
Browside	432	1213	206	3	..	..	..	..
Byles Street	26	1540	283	..	..	..	..	..
Corlett Street	811	3463	892	..	19	..	..	..
Cotter Street	..	..	..	..	1826	..	..	..
Crown Street	277	657	208	..	10	..	..	..
Darnley Street	..	..	..	..	1646	..	..	..
Edgeware Street	13	89	..	..	..	..	..	..
Embledon Street	821	2813	924	11	58	..	..	..
Foley Street	700	3091	457	16	5	..	..	..
Gelling Street	823	559	319	143	..	..	..	..
Grinfield Street	2	6	6	2	2	..	..	..
Knight Street	..	..	..	..	..	..	..	..
Parliament Street	180	863	142	149	3	..	..	..
Peel Street	57	753	210	..	..	..	..	..
OLD PARTS.								
Bachelor Street	101	894	169	12	..	..	..	..
Back Commutation Row (1)	462	3186	423	3	..	..	..	..
" " (2)	568	3260	514	..	..	..	..	..
Benledi Street	245	366	129	..	..	..	..	..
Bevington Hill	1898	965	146	727	..	..	..	..
Bolton Street	829	2933	642	44	..	..	..	..
Byrom Street	..	..	..	..	777	..	..	..
Cross Street	..	..	..	..	11953	..	..	..
Finch Place	866	4531	571	98	..	..	..	..
Frederick Street	978	2453	284	..	89	..	..	..
Hodson Street	491	4261	347	..	..	..	..	..
Hood Street	417	904	399	29	..	..	..	..
Leeds Street	875	673	35	..	2020	..	..	..
Lower Milk Street	..	..	..	..	40	..	..	..
Lydia Ann Street	204	52	259	..	2	..	..	..
Norfolk Street	520	1615	333	..	..	..	..	..
Norman Street	..	..	..	..	2165	..	..	..
Plumbe Street	..	..	..	..	867	..	..	..
Price Street	207	1075	118	..	..	..	..	..
Scotland Road	92	397	55	72	4	..	..	..
Soho Street	..	..	..	..	2147	..	..	..
Stanley Road	477	1032	36	28	1118	..	..	..
St. James Street	290	1139	137	..	..	..	..	..
Upper Milk Street	1633	1028	..	..	15720	..	..	..
Total in Private Slaughter- houses	16779	54441	9404	1392	41516	..	..	..
Total in the Borough	44362	235025	9404	13291	57813	5084	29824	..

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

Continued.

DATE.—1879.	Beef.	Veal.	Mutton	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Miscellaneous.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	
Brought forward ..	128628	14248	54482	272	56050	1156	266	129973	108	
Gt. George Place	256	80	146	..	..	..	..	..	..	
George's Dock	..	..	..	..	..	..	..	1267	..	
Gill Street	..	..	..	..	288	..	..	..	..	
Huskisson Dock	..	..	300	..	..	..	..	..	..	
Highfield Street	..	..	..	..	..	..	..	184	..	
Heyworth Street	115	..	..	..	..	..	..	46	1	
Hill Street	292	..	..	..	..	..	..	30	..	
Hawkstone Street ..	..	..	..	..	..	..	..	20	..	
Islington	186	..	70	..	13	..	..	..	..	
Landing Stage	9360	..	..	..	..	..	..	..	..	
Lad Lane	..	..	..	..	..	..	..	1537	..	
Leece Street	..	..	..	..	..	..	1880	..	..	
Lime Street	135	..	..	..	..	..	..	706	..	
Liver Street	..	..	..	..	10	..	..	..	..	
London Road	54	..	..	..	32	..	..	212	..	
Limekiln Lane	..	..	..	..	84	..	..	..	..	
Mill Street	642	104	220	..	..	..	..	21	1	
Manesty Lane	..	..	..	..	..	..	..	14504	..	
McVicar Street	..	..	..	..	..	..	..	2784	..	
Maguire Street	55	..	..	..	..	..	..	..	..	
Myrtle Street	62	..	58	..	..	..	..	..	..	
Midghall Street	..	..	..	..	..	..	..	24	..	
Naylor Street	..	..	..	..	..	..	..	3000	..	
Netherfield Rd. North	..	..	..	..	692	..	..	1695	..	
Overbury Street	..	..	..	..	10	..	..	..	..	
Parliament Street	..	..	..	..	32	..	..	..	..	
Park Lane	..	..	..	..	..	..	..	44	..	
Park Road	..	..	..	..	..	..	..	10	..	
Paddington	..	..	..	..	4	..	..	..	..	
Pitt Street	..	..	..	..	4	..	..	4480	..	
Prescot Street	..	..	..	..	..	..	..	92	..	
Queen's Arcade	..	..	..	..	11	..	..	..	..	
Queen's Dock	..	..	54	..	..	..	..	..	..	
Ray Street	..	..	..	..	..	..	..	2928	..	
Renshaw Street	..	..	..	..	..	12	..	..	..	
Rose Street	..	..	..	..	..	117	..	2695	..	
Stanley Road	..	..	..	..	..	2	..	200	..	
Scotland Road	27	80	..	..	1322	..	..	175	..	
Soho Street	..	..	..	..	..	..	..	20	..	
Squires Street	420	..	..	..	..	..	..	..	..	
St. James Street	..	..	..	..	..	..	..	32	..	
Slater Street	..	20	..	..	..	..	..	..	..	
Sawney Pope Street ..	..	..	..	..	..	..	..	450	..	
Standish Street	452	..	..	..	..	..	..	10563	..	
Sweeting Street	..	..	..	..	..	..	..	168	..	
Skelhorne Street	..	..	..	..	150	..	..	156	..	
South Street	..	..	..	..	..	..	..	10	..	
Stanley Street	..	..	..	..	363	..	..	..	..	
Springfield Street	..	..	..	..	13	..	..	..	..	
Carried forward	140684	14532	55330	272	59078	1287	2146	178026	110	..

OTHER PARTS.

New Quay 1000 Oysters.
 Queen's Dock 1000 bags Rice Meal, weighing about 100 tons.
 38000 Oysters.
 18
 9000

Huskisson Dock
 Highfield Street
 Lime Street

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

Continued.

DATE.—1879.		Beef.	Veal.	Mutton	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Miscellaneous.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	
Brought forward ..		140684	14532	55330	272	59078	1287	2146	178026	110	
OTHER PARTS.	Temple Court	..	..	..	..	..	..	..	9193	..	Victoria Dock, 9,000 Oysters Waterloo " 71,100 "
	Titchfield Street	..	..	..	..	..	..	..	116	..	
	Tyrer Street	..	..	..	..	47	..	..	..	..	
	Vauxhall Road	125	..	..	..	..	..	..	..	..	
	Waterloo Dock	..	..	35	..	..	..	..	..	..	
	Walton Road	..	..	..	..	39	..	..	531	..	
	Whitechapel	..	..	..	..	..	21	..	..	..	
	Whitefield Road	25	..	..	..	..	..	..	..	..	
	Whitefield Lane	..	..	..	..	..	..	..	10	..	
	Wellington Dock	..	..	..	..	..	..	..	3136	..	
	William Henry Street	..	..	..	..	..	..	..	15	..	
TOTAL		140834	14532	55365	272	59164	1308	2146	191027	110	..

Number of Informations for Exposing for Sale Diseased Meat and Fish ..	147
„ Fined	124
„ Sent to Goal	1
Amount of Fines	£392 10 8
Four Informations for removing Beasts affected with Pleuro-Pneumonia, and Fines inflicted	12 1 6

NUISANCES.

Nuisances inspected, complained of by Inhabitants	2,896
„ Reported by District Officers	68,454
„ Notices issued	34,846
„ Referred to the Medical Officer	5,019
„ „ Borough Engineer	2,413
„ „ Building Surveyor	799
„ „ Water Engineer	9,566
„ „ Superintendent of Scavengers	5,815
Number of Nuisance Informations	2,868
„ Fined	382
„ Magistrates Order to abate	985
„ Acquitted and Withdrawn	1,501
Amount of Fines	£144 13 6

HOUSE TO HOUSE VISITATION.

Number of Streets Examined	3,589
„ „ Houses Examined	57,609
„ „ „ found Clean	53,129
„ „ „ „ Dirty	4,480
„ Apartments in Street Houses Examined	194,210
„ Courts Examined	4,696
„ Court Houses Examined	23,514
„ „ „ found Clean	19,393
„ „ „ „ Dirty	4,121
„ Apartments in Court Houses Examined	70,787
„ Re-inspections of Dirty Houses	20,388
Total Number of Houses Examined	<u>101,511</u>

CELLAR EXAMINATION.

Number of Streets in which Cellars were Inspected	2,303
„ Cellars Inspected	24,644
„ „ found Empty	13,515
„ „ Illegally Occupied	1,032
„ „ Legally „	10,097
„ Courts in which Cellars were Inspected	2,207
„ Cellars Inspected	10,915
„ „ found Empty	8,693
„ „ „ Illegally Occupied	188
„ „ „ Legally „	2,034
„ Cellar Notices issued	1,105
„ „ Informations	331
„ Fined	288
„ Acquitted and Withdrawn	17
„ of Cellars ordered to be Closed after second conviction	<u>26</u>
Amount of Fines	£34 3 6

INFECTED AND DIRTY HOUSES.

1,262 Infected Street Houses Inspected, containing	2,020 cases.
322 „ Court „ „ „	469 „
64 „ Cellars „ „ „	81 „
Number of Notices to Owners to Cleanse Infected Houses	1,772
„ „ Occupiers to Whitewash Dirty Houses	10,195
„ „ Owners to Whitewash Exteriors of Courts	2,925
„ Renewed Notices to Whitewash	5,356
„ Informations against Infected and Dirty Houses	676
„ Fined	82
„ Acquitted and Withdrawn	<u>594</u>
Amount of Fines	£40 8 9

SHIPPON AND PIGGERY INSPECTION.

Number of Shippons and Piggeries Inspected	.. .. .	1,093
„ Informations	.. .. .	29
„ Fined	.. .. .	29
Amount of Fines..	.. .. .	£11 17 6

COURT AND PRIVY EXAMINATIONS.

Number of Visits to Courts and Alleys	.. .. .	125,833
„ Closets found Dirty, but Cleansed during Officer's Inspection	.. .. .	93,263
„ Informations	.. .. .	33
„ Fined	.. .. .	26
Amount of Fines..	.. .. .	£6 8 6

PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Informations against Manufactories	.. .. .	208
„ „ Steamers	.. .. .	58
„ Fined	.. .. .	263
„ Acquitted or Withdrawn	.. .. .	3
Amount of Fines..	.. .. .	£255 18 6

PROCEEDINGS UNDER THE ADULTERATION ACT.

No. of Samples.	Description of Samples.	Results of Analysis.
166	Milk	14 were adulterated and informations laid.
43	Drugs	6 „ „ „
24	Cocoa	20 „ „ „
7	Butter	1 „ „ „
4	Lard	Ordinary commercial quality.
*3	Rice Meal.....	Seized and destroyed under Magistrate's Order.
3	Coffee	1 adulterated and information laid.
3	Honey	1 „ „
253		

The number of prosecutions was 43, the result being that 8 cases were dismissed with a caution or withdrawn, and in 35 cases penalties were inflicted varying from 2s. to £5 and costs, amounting in all to £49 1s. 6d.

* 1000 bags Rice Meal (about 100 tons) seized at Queen's Dock as being unfit for human food, owing to being mixed with ground marble, and destroyed on a Magistrate's order under the Public Health Act, 1875.

WATER CLOSET CONVERSIONS.

Number of Notices	..	..	..	..	..	..	..	..	791
„ Certified..	..	..	..	..	..	..	..	..	2,115
„ Constructed	..	..	..	..	..	..	..	..	1,562
„ of Closets standing over from 31st December, 1878	..	..	..	..	..	..	..	..	362
„ Demolished	..	..	..	..	..	..	..	..	13
„ under Notices not expired, and Empty Houses	..	..	..	..	..	..	..	..	621
„ granted extension of time by Health Committee and Magistrates	..	..	..	..	..	..	..	..	281
„ of Informations	..	..	..	..	..	..	..	..	65
„ Fined	..	..	..	..	..	..	..	..	4
Amount of Fines	..	..	..	..	..	..	..	£7 8 0	

SMOTHERED CATTLE.

Calves.	Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
..	98	403	747	884	364	61895

REMOVALS TO MORTUARIES AND HOSPITALS.

Bodies Removed to Mortuaries.			Persons Removed to Hospitals.			
Smithdown Rd.	St. Martin's.	Anfield.	Brownlow Hill.	Mill Road.	ToxtethPark.	Netherfield Rd.
21	45	..	159	45	2	38

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

Year 1879.

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. Cart Loads.	
		Number Removed.			Where Deposited.				Midden Men.	Wharf Men.	Carts.	Horses.	Loads per Man per Night.		Loads per Cart per Night.
		Manure.	Ashes.	Total.	Phillips Street.	Sandhills.	South Wharves.	Waver- tree.							
15,502	24,961	34,655	11,144	45,799	32,138	11,387	888	1,386	43·8	10·4	34·52	35·6	3·43	4·14	1·83

TABLE No. 2.
 SERVICE FOR THE COLLECTION AND REMOVAL OF DRY ASHES.

Notices Received.		Ashpits Emptied.		Loads of Dry Ashes.										Average contents of each Ashpit. Cart Loads.			
				Number Received.			Where Deposited.				Average Daily Working Staff.					Analysis of Work.	
				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.
21,475	54,115	56,147	16,068	72,215	20,986	2,810	2,896	45,523	58.9	47.	51.4	3.94	4.94	1.33			

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.
210—460 Stalls.	3,726	48.	11.2

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.					
89,133	44,142	7,683	2,170	12,918	22,220	331	13	65·13	81·13	4·39

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.	
113	94,806	16	21.8	38

TABLE No. 7.
DESPATCHES OF MANURE AND REFUSE.

	Saleable Manure.			Unsaleable Refuse.				Grand Total.	Average Daily Staff.	
	Night Soil.	Sweepings.	Mixture.	Total.	Contractors.	Farmers.	Depots.		Inspectors and Foremen.	Labourers.
Philips Street	27,696	21,168	624	49,488	45,552	5,520	13,872	114,432	1	20
Sandhills	1,728	..	336	2,064	11,520	192	144	13,920		
Do. by Rail	8,268	4,584	148	13,000	..	123	..	13,123	1	1.5
Wavertree	1,403	1,841	..	3,244	..	160	..	3,404	1	7
South Wharves	1,375	8,252	359	9,986	..	9,970	..	19,956		
	40,470	35,845	1,467	77,782	57,072	15,965	14,016	87,053	3	28.5

TABLE No. 8.
HORSES.—DAILY AVERAGE NUMBER.

Hired.	Corporation Horses.				Supplied for various Works.												
	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.	Borough Engineer.			Horsing Police Vans.	Disinfecting Vans, &c.	Improvement Committee.
22	230	220	4.35	49	36	52	81	6	1.5	1	10	33	6.5	1	7	5	2

Number Purchased.		Number Disposed of.			
Plant.	Maintenance.	Died.	Destroyed.	Sold.	
25	41	11	3	25	

TABLE No. 9.
AVERAGE DAILY STAFF OF MEN EMPLOYED.

General.				Night Service.			Day Service.													Stables, Yards, and Stores.				Workshops.				Wharves, Depots, &c.										Grand Total.																					
Inspectors.	Timekeeper, Checker, &c.	Disinfecting Men.	Clerks.	Office Boy.	Total.	Inspectors	Midden Men.	Wharf Men.	Total.	Inspectors and Foremen.	District Storekeepers.	Watermen.	Barrow Men.	Sweepers.	Cart Followers.	Passage Men.	Gully Men.	Trough Closet Men.	Urinal Men.	Ash Men.	Boat Men.	Orderly Boys.	Total.	Horsekeepers.	Night Watchmen.	Carters, Yardmen, Stable-men, and Storekeepers.	Total.	Cartwrights.	Shoeing Smiths.	Blacksmiths and Strikers.	Painters.	Labourers.	Total.	Foremen.	Labourers.	Phillips' Street.	Foremen.	Labourers.	Sandhills.	Foremen.	Labourers.	South Wharves.	Foremen.	Labourers.	Bromborough.	Foremen.	Labourers.	Gorsey Lane, Almtree, and Ford.	Foremen.	Labourers.	Various Town Deposit Places.	Labourers.	Total.						
1	1	9	1	4	1	8	5	46	10	4	61	4	17	6	4	9	5	7	80	5	114	63	28	32	48	11	2	57	4	10	475	9	4	4	217	3	225	3	10	8	69	5	21	2	29	5	1	20	1	7	1	5	124	2	8	65	5	865	6

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	9,022 centals.	10·54	
	Beans and Peas ..	4,059 „	4·74	
	Oats	237 „	·27	
84,340 Horses of Health Committee.	Bran	2,034 „	2·38	Gross weekly cost 11s 11½d.
	Meal	732 „	·85	Credit value of
1,224 Livery, &c.	Roots	119 cwt.	·15	Manure 1s. 4½d.
85,564	Grass.....	582 „	·78	10s. 7½d.
	Hay	43,782 score.	10·26	
	Straw	31,260 „	7·27	
	Sawdust	2,570 sacks.	·0328	

APPENDIX.

LOCAL GOVERNMENT BOARD RETURNS.

THE Returns of Sickness required by the Local Government Board would be very valuable for statistical purposes, even if such returns could only be approximately correct; but in a district like that of the Liverpool Sanitary Authority, having a large moving population, and comprising one entire parochial area and a portion of two others, with hospital accommodation not confined to the Borough, but greatly used by people whose homes are outside the Borough, any attempt to draw useful or reliable deductions from such returns as could be obtained would be futile. To make such returns of value to a Medical Officer of Health it would be necessary to give the street or precise locality in which the patient dwelt. It would not be sufficient to give the parochial area alone, for such information would not enable him to ascertain the local causes operating adversely to health, but would assume that the same causes of disease were equally spread over the whole district. The great difference between Abercromby and Vauxhall Wards, or between Rodney Street and Scotland Wards, is illustrated by the difference in the inhabitants, the character of their employment, their dwellings, and the presence or absence of manufactories and offensive trades, and is reflected in the disparity of the death rate. To record the sickness of every seaman, emigrant, or visitor would be impossible; to follow out the history of out-pauper patients would be impracticable, for the chronic cases frequently change their residence and pass from under the care of one doctor to another, whilst the acute cases, if not sent to hospital, generally fall under the care of the dispensaries. To furnish returns of patients in hospitals is possible and might be correctly made, but would require great labour and attention. From the large number of patients admitted and the conditions under which they are received it is very possible that in many cases the first diagnosis will not be the true one, and to re-enter the case would be to record two patients instead of one, and if not altered and the patient died the rate of mortality of such disease would appear greater than was the fact. Some idea of the difficulties can be imagined when the population of the Parish of Liverpool, 205,338, is considered, and that between twenty and thirty thousand sick persons pass yearly through the Parish Hospital in Brownlow Hill. Patients are sent to this hospital by the Parish District Doctors, by the Dispensaries and other Medical Charities, by the Police, the Health Committee, &c., and some are admitted on their own application. There is also the Mill Road Hospital of the West Derby Union,

which contains not only the sick paupers of Everton (population 128,477), Kirkdale (population 55,371), and West Derby Wards (population 61,832) in the Borough, but those from Bootle, Walton, West Derby, &c., outside the Borough. During the epidemic of smallpox in 1876-7, by an arrangement between the Select Vestry and the West Derby Guardians all cases of that disease were taken to Mill Road and all fever cases to Brownlow Hill. And there is the Toxteth Workhouse Hospital outside the Borough, which accommodates the sick paupers from the Toxteth Wards (population 87,320) within the Borough.

On the admission into the above establishments of patients suffering from infectious diseases notice is sent to the Medical Officer of Health, giving the residences from which they have been removed and stating the nature of the illness.

Liverpool is well supplied with Medical Charitable Institutions; and the following table, showing the number of cases treated during the year 1878, is somewhat startling, for 188,416 cases treated gratuitously, besides pauper cases, in one year is far beyond anything that could be expected in any English city or town, and can only be accounted for by many people attending first at one institution and then another, and thus being enumerated over and over again.

CASES OF SICKNESS, &c., ATTENDED DURING THE YEAR 1878.

Institutions.	In-patients.	Out-patients.	Attendances.
Royal Infirmary	2663	5310	..
Dispensaries	..	69267	..
Eye and Ear Infirmary	486	8532	..
Ladies' Charity and Lying-in Hospital.....	271	16080	..
Northern Hospital	1629	4632	..
Royal Southern Hospital.....	1902	5920	..
Infirmary for Children.....	464	7236	..
Hospital for Consumption and Diseases of the Chest.	..	2257	..
St. George's Hospital for Skin Diseases	..	1284	..
Stanley Hospital	241	9919	..
Hospital for Cancer and Skin Diseases	..	5908	..
St. Paul's Eye and Ear Infirmary	..	2563	..
Netherfield House Institution for Infectious Diseases	161	..	..
Medical Missionary Society	..	27060	..
Homœopathic Dispensaries.	..	..	58523
One-fourth of Attendances at Homœopathic Dis- pensaries	7817	165968	58523
..	..	14631	..
..	7817	180599	..
Total Number of Cases attended by the Medical Charities			188,416 ..

In Table B has been entered the cases of infectious disease which have been reported to this office by the Authorities at Brownlow Hill on the date of admission, but returns of other diseases at this Institution are not given, for reasons previously stated. The returns of sickness and deaths at the Royal Infirmary are compiled from the annual report, and will include many cases which have been brought from a distance outside the Borough.

(A) TABLE

IN THE SANITARY DISTRICT OF LIVERPOOL, CLASSIFIED ACCORDING TO DISEASES
AND THE BIRTHS THEREIN DURING THE TWELVE YEARS ENDING 1879.

(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.	POPULATION AT ALL AGES.		Registered Births.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES.						
	Census, 1871.	Estimated to middle of 1879.		At all Ages.	Under 1 year.	1 and Under 5.	5 and under 15.	15 and under 30.	30 and under 60.	60 and upwards.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Scotland	77033	69459	2871	1896	536	471	138	99	438	2
Vauxhall	18958	14301	575	433	127	92	20	31	123	
St. Paul's and Exchange	23913	19170	698	553	139	87	22	43	187	
St. Anne's and Lime Street	40231	37131	1172	869	231	213	58	55	211	1
Castle Street and St. Peter's	9423	5501	144	142	26	25	5	18	37	
Pitt Street and Great George	23271	18208	623	450	122	88	31	26	110	
Rodney Street and Abercromby	45582	41568	1440	705	151	95	48	51	183	
Everton	90937	128477	4348	2520	673	653	167	166	501	
Kirkdale	32978	55371	2336	1166	334	300	87	72	239	
West Derby	50687	61832	2602	1324	329	301	98	86	298	
The Toxteths	80392	87320	4035	2217	596	531	125	149	473	
(U.) Public Institutions.	Parish Workhouse & Hospitals ..	..	..	1815	132	121	73	297	779	
	Out Township Workhouse and Hospitals	..	..	440	10	13	28	96	228	
Totals	493405	538338	20844	14530	3406	2990	900	1189	3807	2

OF DEATHS

AGES, AND LOCALITIES, AND SHOWING ALSO THE POPULATION OF SUCH LOCALITIES, CALENDAR MONTHS OF THE YEAR 1879.

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

12.	Smallpox.	Measles	Scarlatina.	Diphtheria.	Croup (not 'spasmodic')	Whooping Cough.	Continued Fevers.				Diarrhoea and Dysentery.	Cholera.	Rheumatic Fever.	Erysipelas.	Pyæmia.	Puerperal Fever.	Ague.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Injuries.	Other Diseases.
13.	14.	15.	16.	17.	18.	19.	Typhus.	Enteric or Typhoid	Other or Doubtful.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	
Under 5	..	74	83	3	22	17	1	4	4	66	..	..	2	1	..	..	4	261	..	34	431	
5 upwards	..	3	41	3	1	3	7	12	4	10	1	..	2	..	2	1	119	298	83	30	269	
Under 5	..	7	10	1	2	8	..	..	1	10	..	..	..	..	..	..	..	68	..	12	100	
5 upwards	..	2	3	..	..	1	..	3	1	2	..	..	..	..	1	..	32	104	14	10	41	
Under 5	..	11	14	..	4	1	..	..	2	18	..	..	..	1	..	..	..	58	..	12	105	
5 upwards	..	..	4	..	..	1	..	..	3	5	1	..	4	..	1	..	46	123	26	11	102	
Under 5	..	30	36	1	4	14	2	2	..	32	..	..	1	..	..	..	3	110	..	20	189	
5 upwards	..	1	15	..	1	1	5	2	1	..	..	1	2	..	..	1	68	124	40	10	153	
Under 5	..	..	2	..	3	4	..	..	..	4	..	..	1	..	..	..	..	13	..	..	24	
5 upwards	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	12	11	17	6	43	
Under 5	..	18	13	4	4	9	..	1	..	11	..	..	..	..	..	..	1	56	..	10	83	
5 upwards	..	3	8	..	..	..	1	..	1	1	..	..	1	..	..	..	44	52	23	9	97	
Under 5	..	7	14	4	5	13	..	..	1	16	1	..	2	..	..	..	1	44	..	5	133	
5 upwards	..	3	12	2	..	2	..	1	2	3	..	1	1	..	1	..	73	102	57	8	191	
Under 5	..	111	100	11	32	43	..	7	3	62	..	..	6	2	..	..	10	294	1	35	609	
5 upwards	..	12	43	10	2	..	2	17	7	6	1	1	4	..	2	1	222	299	96	6	463	
Under 5	..	39	54	11	15	13	..	7	2	33	..	..	6	..	..	..	4	125	2	30	293	
5 upwards	..	2	23	5	1	2	3	14	4	2	..	2	..	..	2	..	70	140	45	24	193	
Under 5	..	23	62	4	20	38	..	..	1	22	2	..	5	..	..	..	7	136	2	12	296	
5 upwards	..	7	35	2	..	4	..	12	2	4	..	4	5	..	..	..	127	153	66	7	266	
Under 5	..	95	79	5	17	57	..	1	4	70	1	..	3	1	..	..	5	327	2	26	434	
5 upwards	..	8	32	2	3	4	4	7	7	6	..	2	4	2	3	..	177	266	129	20	414	
Under 5	..	14	22	1	2	2	..	..	..	6	..	..	5	..	..	..	4	48	..	23	126	
5 upwards	..	1	11	..	..	1	42	17	2	24	..	2	6	5	3	..	245	339	135	122	607	
Under 5	..	2	2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	12	
5 upwards	..	..	10	..	1	..	22	7	2	1	..	..	1	1	1	2	71	74	32	49	143	
Under 5	..	431	491	45	130	219	4	22	18	350	4	..	31	5	..	..	39	1540	7	225	2835	
5 upwards	..	42	237	24	9	19	87	92	36	65	3	13	30	8	16	5	1306	2085	763	312	2982	

SICKNESS

THE FOLLOWING TABLES SHOW THE RESULTS OF THE SURVEY OF SICKNESS IN THE DISTRICT OF ...

Description of Sickness	Number of Cases		Percentage of Total	
	Male	Female	Male	Female
Measles	120	150	10.0	12.5
Scarlet Fever	80	90	6.7	7.5
Diphtheria	40	50	3.3	4.2
Croup	30	40	2.5	3.3
Whooping Cough	20	30	1.7	2.5
Smallpox	10	20	0.8	1.7
Polio	5	10	0.4	0.8
Cholera	2	5	0.2	0.4
Typhoid	1	3	0.1	0.2
Malaria	1	2	0.1	0.2
Other	1	1	0.1	0.1
Total	260	320	21.6	26.4

DURING THE YEAR ENDING SATURDAY, 27TH DECEMBER, 1879.

