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REPORT
OF THE
HEALTH OF LIVERPOOL
DURING THE YEAR 1877,

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REPORT, 1877.

THE estimated population for this year was 527,083, and for 1878, 532,681, giving an estimated increase of 5,598; the natural increase by deducting 13,904 deaths from 20,333 births is 6,429 for the year 1877, being 831 over the estimated increase.

Notwithstanding the prevalence of Hooping Cough and Small Pox, the health of the Town has been on the whole satisfactory; for once only during a long period has the death rate been lower, namely in 1873, when it was 25·8 per 1,000, whilst for this year the rate was 26·4, being 1·1 lower than the year 1876, and 2·9 lower than the average of the previous ten years. The most fatal of the zymotic diseases was Hooping Cough, which occasioned 735 deaths. The deaths of Infants below five years of age were 6,341, and comprised 45·6 per cent. of the whole deaths.

It is very gratifying to observe the growing interest which the Public take in sanitary matters, and in no way is it more manifested than in their willingness to furnish information of the existence of infectious disease, and the desire to have the assistance of the Sanitary Authority to disinfect their premises and clothing as a preventive measure. This will be apparent from the number of cases of infectious disease, 3,876, reported during the year, and which included 1,660 cases of Small Pox, 1,414 of Fever, 493 of Scarlatina, 250 of Measles, and 59 of Diphtheria.

To prevent the spread of disease by the assembling of large numbers of children in the public schools, an arrangement was made with the School Board that, when a house was reported to be infected by zymotic disease, a Sanitary Inspector should visit it, and ascertain if any children were attending school. This information was to be communicated to the School Board, and notice sent to the Head Master of the school at which the children attended; the children would be then released from school duties until their homes had been thoroughly cleansed and disinfected. This arrangement was found to work very satisfactorily, and, meeting the approval of teachers and parents, has now been extended to all schools within the Borough.

Dr. Archer, Assistant Medical Officer of Mill Road Hospital, has kindly furnished returns of 1,021 cases of Small Pox admitted into that Institution from the end of May, 1876, to February, 1877. Of the total number of cases, 158 or 15·5 per cent died, and comprised patients who were vaccinated 731,

of whom 45 died, or 6·2 per cent., unvaccinated 218, of whom 100 died, or 45·9 per cent., and doubtful cases 72, of whom 13 died, or 18·1 per cent. Allowing the same proportion of unvaccinated to the vaccinated as given in Dr. Seaton's report to the Local Government Board for the year 1874, namely, four out of every one hundred persons, it will be found that out of the 506,000 vaccinated, 731 cases, or 14·4 per 10,000, were sent to Hospital, and of these 0·9 per 10,000 died, or less than one person for every 10,000 vaccinated. Of the 21,083 unvaccinated, 218 or 103·4 per 10,000, were sent to Hospital, and 47·4 per 10,000 of the unvaccinated died. To state the subject plainly, it may be fairly assumed that there were 4,000 cases of Small Pox during the epidemic of 1876 and 1877 within the Borough, and of every 10,000 vaccinated persons 57·7 had the disease and 3·6 died, and of every 10,000 unvaccinated persons 413·6 had the disease and 189·7 died. If we add the doubtful to the vaccinated, out of every 10,000 63 had the disease and 4·6 died. On further reference to the returns it will be observed that the number of vaccinated cases under 16 years of age (when revaccination is generally performed) is very large, and suggests the propriety of revaccination at a much earlier period.

The reduction in the deaths from Diarrhoea and Fever during the last twelve years affords very satisfactory evidence of the beneficial character of the sanitary operations during that period.

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	...

During the fifty-two weeks of the year 1877 (terminating on Saturday, December 29), the Returns of the Local Registrars record 20,333 births, and 13,904 deaths within the Borough; the numbers for the corresponding period of the previous year, 1876, were 20,426 births and 14,347 deaths.

Of the births 10,299 were males, and 10,034 were females, making the total birth rate of the Borough equal to 38·6 per 1,000; the average of the previous ten years being 38·1 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	389	367	357	356	342	332	412	318	2873
	Vauxhall	68	81	79	64	83	85	84	60	604
	St. Paul's and Exchange..	86	99	98	91	70	95	81	80	700
	St. Anne's and Lime Street	151	171	127	145	154	165	136	125	1174
	Castle Street and St. Peter's	23	27	24	20	20	18	28	16	176
	Pitt Street and Gt. George	68	105	80	82	80	75	67	84	641
	Rodney St. & Abercromby	199	191	188	162	180	190	183	167	1460
Out-Townships.	Everton	541	574	522	526	508	531	573	509	4284
	Kirkdale	259	286	293	261	280	256	276	253	2164
	West Derby	319	318	296	293	295	316	315	286	2438
	The Toxteths	506	477	479	475	480	462	500	440	3819
Parish		984	1041	953	920	929	960	991	850	7628
Out-Townships		1625	1655	1590	1555	1563	1565	1664	1488	12705
Borough		2609	2696	2543	2475	2492	2525	2655	2338	20333

DEATHS.

Of the 13,904 deaths, 7,217 were of males, and 6,687 of females; 7,022 occurred in the Parish, and 6,882 in the Out-townships.

The Death-rate of the Borough was equal to 26·4 per 1,000. The average of the previous ten years was 29·3 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 21·3, per 1,000 of the population.

The deaths occurred in the following districts:—

DISTRICTS.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual.
		Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Deaths.
Parish.	Scotland	259	285	231	245	284	252	267	271	2094
	Vauxhall	45	38	52	56	66	61	55	67	440
	St. Paul's and Ex- change	73	74	73	48	68	73	59	67	535
	St. Anne's and Lime Street	116	129	119	110	95	109	112	128	918
	Castle Street and St. Peter's	27	14	28	12	19	13	28	26	167
	Pitt Street and Great George	50	55	70	58	66	49	64	66	478
	Rodney Street and Abercromby	116	100	106	79	82	77	83	99	742
	Parish Workhouse and Hospitals	285	184	274	162	209	130	229	175	1648
Out- Townships.	Everton	275	305	300	296	262	269	280	267	2254
	Kirkdale	125	128	141	133	113	133	139	143	1055
	West Derby	139	175	161	155	116	144	157	128	1175
	The Toxteths	241	241	281	239	251	267	212	192	1924
	Out-Township Work- house and Hospitals }	98	64	73	39	74	36	69	21	474
Parish		971	879	953	770	889	764	897	899	7022
Out-Townships		878	913	956	862	816	849	857	751	6882
Borough		1849	1792	1909	1632	1705	1613	1754	1650	13904

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 1,694 of the deaths in these establishments under the wards and districts from whence the patients were removed, viz., 340 under Scotland Ward, 145 under Vauxhall Ward, 147 under St. Paul's and Exchange Wards (Dale Street District), 283 under St. Anne's and Lime Street Wards (Islington District), 26 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), 143 under Rodney Street and Abercromby Wards (Mount Pleasant District), 198 under the Out-township of Everton, 70 under that of Kirkdale, 126 under that of West Derby, and 100 under those of the Toxteths. This will leave unclassified 264 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 164 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	2482	33·3
Vauxhall	596	37·2
St. Paul's and Exchange	695	32·8
St. Anne's and Lime Street	1225	30·9
Castle Street and St. Peter's	197	30·0
Pitt Street and Gt. George	606	30·0
Rodney Street and Abercromby	902	20·3
Everton	2500	20·0
Kirkdale	1147	22·2
West Derby	1326	21·3
The Toxteths	2064	22·8
Hospitals (Residences outside Borough)	164	..
Borough	13904	26·4

The following table shows the natural increase or decrease of population, or the proportion of births to deaths during the year 1877, in the several districts of the Borough:—

DISTRICTS AND WARDS.	Births.	Deaths.	Increase.	Decrease
Scotland	2873	2482	391	..
Vauxhall	604	596	8	..
St. Paul's and Exchange	700	695	5	..
St. Anne's and Lime Street	1174	1225	..	51
Castle Street and St. Peter's	176	197	..	21
Pitt Street and Gt. George	641	606	35	..
Rodney Street and Abercromby	1460	902	558	..
Everton	4284	2500	1784	..
Kirkdale	2164	1147	1017	..
West Derby	2438	1326	1112	..
The Toxteths	3819	2064	1755	..
Borough	20333	13740	6593	..
Hospitals (Residences outside Borough)	..	164	..	..
Total	20333	13904	6429	..

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 1877.	Births in 52 Weeks, ending 29th Dec. 1877.	Deaths in 52 Weeks, ending 29th Dec. 1877.	Annual Rate to 1,000 of Population.		Population on Acre.
				Births.	Deaths.	
London	3533484	127257	77002	36.0	21.8	46.9
Brighton	102264	3001	1907	29.3	18.6	43.4
Portsmouth	127144	4089	2199	32.2	17.3	28.3
Norwich	84023	2805	1755	33.4	20.9	11.2
Plymouth	72911	2227	1573	30.5	21.6	52.3
Bristol	202950	7291	4415	35.9	21.8	45.6
Wolverhampton	73389	2852	1768	38.9	24.1	21.6
Birmingham	377436	16037	9099	42.5	24.1	44.9
Leicester	117461	4704	2513	40.0	21.4	36.7
Nottingham	95025	3457	2172	36.4	22.9	47.6
Manchester	359213	13798	9810	38.4	27.3	83.7
Salford	162978	6866	4079	42.1	25.0	31.5
Oldham	103559	4003	2495	38.7	24.1	22.2
Bradford	179315	6797	3921	37.9	21.9	24.8
Leeds	298189	11908	6630	39.9	22.2	13.8
Sheffield	282130	10859	6154	38.5	21.9	14.4
Hull	140002	5822	3032	41.6	21.7	38.5
Sunderland	110382	4501	2491	40.8	22.6	33.4
Newcastle-on-Tyne	142231	5602	3178	39.4	22.3	26.5
Edinburgh	218729	7230	4595	33.1	21.0	52.2
Glasgow	555933	20958	13736	37.7	24.7	92.1
Dublin	314666	9325	8795	29.6	28.0	31.3
Liverpool	527083	20333	13904	38.6	26.4	101.2

The average age at death of the Inhabitants of the Borough during the twelve months of the year 1877 was 25 years, in the Parish 27 years, and in the Out-Townships 23 years. The following table shows that the average age was lowest during the third quarter, or during the months of July, August, and September, when Infantile Diarrhoea was prevalent:—

WARDS.	QUARTERS.								YEAR 1877.			
	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	Arg. Age at Death	21	25	19	22	14	14	16	17	18	20	19
Vauxhall	"	27	32	24	19	9	13	16	19	19	21	20
St. Paul's	"	30	28	25	26	16	15	26	18	24	22	23
Exchange	"	29	43	26	19	26	25	30	20	28	27	27
St. Anne's	"	29	28	21	24	15	15	19	21	21	22	22
Lime Street	"	32	33	18	41	25	24	22	24	24	31	27
Castle Street	"	52	60	34	21	35	14	27	39	37	34	35
St. Peter's	"	28	32	25	32	31	29	19	16	26	27	27
Pitt Street	"	29	30	25	13	25	19	21	19	25	20	23
Great George	"	31	33	21	32	20	16	15	26	22	27	24
Rodney Street	"	30	43	28	44	32	32	30	19	30	35	32
Abercromby	"	31	35	33	41	22	32	29	36	29	36	32
Parish Workhouse } and Hospitals . . . }	"	40	43	42	42	39	37	40	39	40	40	40
Everton	"	25	23	21	23	18	20	20	20	21	21	21
Kirkdale	"	24	30	22	21	19	17	14	17	20	21	21
West Derby	"	21	26	21	26	19	24	25	30	22	27	24
North Toxteth	"	28	31	23	30	16	21	16	24	21	27	24
South Toxteth	"	24	28	19	21	15	20	22	25	20	24	22
Out-Township Work- } house & Hospitals }	"	29	30	32	29	34	33	42	35	34	32	33
Parish	"	31	33	28	29	22	21	25	24	27	27	27
Out-Townships	"	25	28	22	24	19	21	21	23	22	24	23
Borough	"	28	30	25	26	21	21	23	24	24	25	25

The deaths of Infants below the fifth year of their age amounted to 6,341, and thus comprised 45·6 per cent. of the whole deaths; the average number for the preceding ten years was 7,197, and the average per centage 48·3.

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..	544	476	536	538	2094	} 58·7
	{ Below 5 years..	278	260	355	336	1229	
Vauxhall	{ Total Deaths..	83	108	127	122	440	} 57·5
	{ Below 5 years..	29	57	96	71	253	
St. Paul's	{ Total Deaths..	79	64	82	71	296	} 50·3
	{ Below 5 years..	31	29	52	37	149	
Exchange	{ Total Deaths..	68	57	59	55	239	} 41·8
	{ Below 5 years..	23	27	29	21	100	
St. Anne's	{ Total Deaths..	169	174	161	177	681	} 53·2
	{ Below 5 years..	69	91	102	100	362	
Lime Street	{ Total Deaths..	76	55	43	63	237	} 43·5
	{ Below 5 years..	29	23	22	29	103	
Castle Street	{ Total Deaths..	15	13	8	15	51	} 23·5
	{ Below 5 years..	..	4	3	5	12	
St. Peter's	{ Total Deaths..	26	27	24	39	116	} 46·6
	{ Below 5 years..	10	10	9	25	54	
Pitt Street	{ Total Deaths..	46	52	52	51	201	} 49·8
	{ Below 5 years..	15	29	28	28	100	
Great George	{ Total Deaths..	59	76	63	79	277	} 50·2
	{ Below 5 years..	20	35	37	47	139	
Rodney Street	{ Total Deaths..	101	94	80	94	369	} 38·5
	{ Below 5 years..	32	26	33	51	142	
Abercromby	{ Total Deaths..	115	91	79	88	373	} 35·4
	{ Below 5 years..	42	26	30	34	132	
Parish Workhouse and Hospitals	{ Total Deaths..	469	436	339	404	1648	} 9·7
	{ Below 5 years..	40	37	34	49	160	
Everton	{ Total Deaths..	580	596	531	547	2254	} 52·8
	{ Below 5 years..	259	317	314	299	1189	
Kirkdale	{ Total Deaths..	253	274	246	282	1055	} 53·6
	{ Below 5 years..	110	140	142	173	565	
West Derby	{ Total Deaths..	314	316	260	285	1175	} 49·4
	{ Below 5 years..	152	159	139	130	580	
North Toxteth	{ Total Deaths..	245	262	252	224	983	} 49·8
	{ Below 5 years..	97	118	147	128	490	
South Toxteth	{ Total Deaths..	237	258	266	180	941	} 55·8
	{ Below 5 years..	108	151	169	97	525	
Out-Township Workhouse and Hospitals	{ Total Deaths..	162	112	110	90	474	} 12·0
	{ Below 5 years..	16	16	18	7	57	
Parish	{ Total Deaths..	1850	1723	1653	1796	7022	} 41·8
	{ Below 5 years..	618	654	830	833	2935	
Out-Townships	{ Total Deaths..	1791	1818	1665	1608	6882	} 49·5
	{ Below 5 years..	742	901	929	834	3406	
Borough	{ Total Deaths..	3641	3541	3318	3404	13904	} 45·6
	{ Below 5 years..	1360	1555	1759	1667	6341	

AGES.	Quarters.				Annual.	
	March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of population.
Deaths at 1 year and under	866	972	1117	872	3827	7.3
„ between 1 year and 5	494	583	642	795	2514	4.8
„ „ 5 „ 20	257	257	236	228	978	1.8
„ „ 20 „ 60	1439	1240	967	1047	4693	8.9
„ above 60 years	581	488	352	462	1883	3.6
„ at ages unknown	4	1	4	...	9	0.017
„ at all ages	3641	3541	3318	3404	13904	26.4

The Registrars' Returns show that there were 13 deaths (12 women and 1 man) above the age of 90, viz., 1 male at 91, 4 females at 92, 1 female at 93, 6 females at 94, and 1 female at 96.

CLASSES.	QUARTERS.				YEAR 1877.
	March.	June.	Sept.	Dec.	
1. Zymotic Diseases	634	616	969	714	2933
2. Diseases of Uncertain Seat	90	81	79	91	341
3. Tubercular Diseases	494	578	419	452	1943
4. Diseases of Brain, &c.	414	382	340	324	1460
5. „ of Heart, &c.	223	191	177	176	767
6. „ of Lungs, &c.	877	738	474	800	2889
7. „ of Stomach, &c.	142	169	148	145	604
8. „ of Kidneys, &c.	63	83	56	55	257
9. Childbirth, Diseases of Uterus, &c.	35	33	29	26	123
10. Rheumatism, Diseases of the Joints, &c.	20	25	22	17	84
11. Diseases of the Skin, Cellular Tissue, &c.	24	26	18	17	85
12. Malformations	11	15	14	10	50
13. Premature Birth	58	57	47	56	218
14. Atrophy and Debility	213	229	242	229	913
15. Old Age	141	133	93	100	467
16. Privation, Cold, &c.	1	...	2	1	4
17. Inquests	190	176	182	176	724
Causes not specified	11	9	7	15	42
All Causes	3641	3541	3318	3404	13904
Total Zymotics	634	616	969	714	2933
Smallpox	175	75	41	8	299
Measles	9	15	44	129	197
Scarlatina	50	23	51	101	225
Hooping Cough	93	226	219	197	735
Diarrhœa	32	61	430	82	605
Typhus and Infantile Fever	139	83	79	81	382

ZYMOTICS.

This class of diseases occasioned 2,933 deaths during the year 1877, and accounted for 21·1 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 3,919, and the percentage death rate for 1877 was 4·8 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	2094	97	121	222	145	27·9
Vauxhall	440	6	23	54	34	26·6
St. Paul's.....	296	9	8	32	12	20·6
Exchange	239	7	8	17	8	16·7
St. Anne's	681	29	29	54	41	22·5
Lime Street	237	5	12	8	10	14·8
Castle Street	51	..	3	1	3	13·7
St. Peter's	116	3	1	4	5	11·2
Pitt Street	201	6	4	11	9	14·9
Great George	277	8	9	13	20	18·1
Rodney Street.....	369	12	8	15	18	14·4
Abercromby.....	373	11	6	18	16	13·7
Liverpool Workhouse Hospital	1196	80	35	27	65	17·3
Royal Infirmary	265	..	..	1	1	0·8
Children's Infirmary	37	..	1	..	2	8·1
Lying-in Hospital	12	..	1	..	..	8·3
North Hospital	138	1	1	2	..	2·9
Stanley Hospital... ..	15	..	..	..	..	..
Royal South Hospital	125	1	1	1	3	4·8
Netherfield Road Hospital	24	13	9	2	..	100·0
West Derby Union Hospital	310	74	38	33	7	49·0
Everton	2254	114	108	152	95	20·8
Kirkdale	1055	35	51	80	86	23·9
West Derby.....	1175	52	53	71	52	19·4
North Toxteth	983	34	30	66	48	18·1
South Toxteth	941	37	56	85	34	22·5
Parish	7022	274	270	479	389	20·1
Out-Townships	6882	360	346	490	325	22·1
Borough	13904	634	616	969	714	21·1

TYPHUS AND INFANTILE REMITTENT FEVER.

These diseases accounted for 382 deaths within the Borough of Liverpool, or for 254 in the Parish and 128 in the Out-Townships (The average number of deaths for the preceding ten years was 569). The rate of their mortality was equal to 0·7 per 1,000 of the estimated population. Their percentage rate relatively to deaths from all causes was 3·8 during the first, 2·3 during the second, 2·4 during the third, and 2·4 during the fourth quarter of the year. Their annual rate relatively to deaths from all causes was 2·7 per cent., and relatively to deaths from zymotic causes 13·0 per cent. Their deaths included 199 males and 183 females; 128 persons below the age of 15, 84 between the ages of 15 and 30, and 170 above the age of 30.

Every form of continued fever is included under the generic term of typhus; but the registers of deaths attribute 7 cases to gastric fever, 81 to typhoid fever, 28 to enteric fever, 6 to continued fever, 2 to relapsing fever, 2 to brain fever, 1 to eruptive fever, and 203 to typhus. Under the term of fever there were registered 34 deaths, under that of febris 4 deaths, and under that of febricula 5 deaths. The deaths registered under the term of infantile remittent amounted to 9.

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 1877; 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 1877.
Scotland.....	75	44
Vauxhall	16	8
St. Paul's	10	4
Exchange	8	8
St. Anne's.....	25	21
Lime Street ...	9	2
Castle Street.....	1	..
St. Peter's.....	4	1
Pitt Street.....	7	3
Great George.....	11	3
Rodney Street	10	4
Abercromby	13	7
Everton and Kirkdale.....	95	68
West Derby	29	30
North Toxteth	25	12
South Toxteth	28	12
Hospital Deaths	203	155
Total	569	382

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

DEATHS FROM TYPHUS AND INFANTILE REMITTENT FEVER IN 1877.

WARDS.	January.					February.					March.					April.					May.					June.					Quarter.
	January.					February.					March.					April.					May.					June.					
	6	13	20	27		3	10	17	24		3	10	17	24	31	7	14	21	28		5	12	19	26		2	9	16	23	30	
Scotland	2	3	3	5		2	2	2	2		3	3	3	3	4	40	2	1	1	2		2	2	2	2		2	2	2	1	1
Vauxhall	1	1	1	1		1	1	1	1		1	1	1	1	1	5	1	1	1	1		1	1	1	1		1	1	1	1	1
St. Paul's	1	1	1	1		1	1	1	1		1	1	1	1	1	6	1	1	1	1		1	1	1	1		1	1	1	1	1
Exchange	1	1	1	1		1	1	1	1		1	1	1	1	1	19	1	1	1	1		1	1	1	1		1	1	1	1	1
St. Anne's	1	1	1	1		1	1	1	1		1	1	1	1	1	4	1	1	1	1		1	1	1	1		1	1	1	1	1
Lime Street	1	1	1	1		1	1	1	1		1	1	1	1	1	2	1	1	1	1		1	1	1	1		1	1	1	1	1
Castle Street	1	1	1	1		1	1	1	1		1	1	1	1	1	2	1	1	1	1		1	1	1	1		1	1	1	1	1
St. Peter's	1	1	1	1		1	1	1	1		1	1	1	1	1	2	1	1	1	1		1	1	1	1		1	1	1	1	1
Pitt Street	1	1	1	1		1	1	1	1		1	1	1	1	1	2	1	1	1	1		1	1	1	1		1	1	1	1	1
Great George	1	1	1	1		1	1	1	1		1	1	1	1	1	3	1	1	1	1		1	1	1	1		1	1	1	1	1
Rodney Street	1	1	1	1		1	1	1	1		1	1	1	1	1	6	1	1	1	1		1	1	1	1		1	1	1	1	1
Abercromby	1	1	1	1		1	1	1	1		1	1	1	1	1	20	1	1	1	1		1	1	1	1		1	1	1	1	1
Everton	1	1	1	1		1	1	1	1		1	1	1	1	1	14	1	1	1	1		1	1	1	1		1	1	1	1	1
Kirkdale	1	1	1	1		1	1	1	1		1	1	1	1	1	12	1	1	1	1		1	1	1	1		1	1	1	1	1
West Derby	1	1	1	1		1	1	1	1		1	1	1	1	1	3	1	1	1	1		1	1	1	1		1	1	1	1	1
North Toxteth	1	1	1	1		1	1	1	1		1	1	1	1	1	3	1	1	1	1		1	1	1	1		1	1	1	1	1
South Toxteth	1	1	1	1		1	1	1	1		1	1	1	1	1	2	1	1	1	1		1	1	1	1		1	1	1	1	1
Hospitals (Residences out of Boro').	1	1	1	1		1	1	1	1		1	1	1	1	1	3	1	1	1	1		1	1	1	1		1	1	1	1	1
Hospitals (Residences unknown) ..	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1
Total	10	9	11	15		21	6	12	13		7	12	8	7	8	139	5	3	4	6		2	8	11	8		4	9	8	7	83

WARDS.	July.					August.					September.					October.					November.					December.					Quarter.	Year.
	July.					August.					September.					October.					November.					December.						
	7	14	21	28		4	11	18	25		1	8	15	22	29	6	13	20	27		3	10	17	24		1	8	15	22	29		
Scotland	2	1	1	1		3	1	1	2		1	1	3	4	1	18	1	3	1	2		2	2	1	1		1	1	1	1	1	
Vauxhall	1	1	1	1		1	1	1	1		1	1	1	1	1	2	1	1	1	2		1	1	1	1		1	1	1	1	1	
St. Paul's	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Exchange	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
St. Anne's	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Lime Street	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Castle Street	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
St. Peter's	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Pitt Street	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Great George	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Rodney Street	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Abercromby	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Everton	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Kirkdale	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
West Derby	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
North Toxteth	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
South Toxteth	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Hospitals (Residences out of Boro').	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Hospitals (Residences unknown) ..	1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1	1		1	1	1	1	1	
Total	4	6	6	5		4	6	6	5		2	4	13	11	7	79	8	11	7	5		2	8	8	13		4	4	5	5	1	81

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

DEATHS FROM TYPHUS AND INFANTILE

REMITTENT FEVER.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	TOTAL
Scotland	{ Below 5 years ..	4	..	1	..	2	..	..	..	7	..	7
	{ Above 5 years ..	4	7	2	7	6	5	4	2	16	21	37
Vauxhall	{ Below 5 years ..	..	..	..	2	..	..	..	1	..	3	3
	{ Above 5 years ..	1	..	..	2	1	..	..	1	2	3	5
St. Paul's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	..	1	..	..	..	1	1	3	1	4
Exchange	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	1	3	1	1	..	1	..	6	2	8
St. Anne's	{ Below 5 years ..	1	1	1	1	1	..	..	..	3	3	6
	{ Above 5 years ..	3	4	2	1	..	3	1	1	6	9	15
Lime Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	1	..	..	..	..	1	..	1	1	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 ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	1	..	..	..	..	1	..	2	1	3
Great George	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	1	1	..	1	..	2	1	3
Rodney Street	{ Below 5 years ..	1	..	..	..	..	..	..	1	1	1	2
	{ Above 5 years ..	..	1	..	..	..	1	..	..	..	2	2
Abercromby	{ Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..	2	1	..	..	1	1	1	..	4	2	6
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	1	2	..	..	..	..	1	2	3
	{ Above 5 years ..	39	26	14	10	9	13	17	18	79	67	146
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	..	2	1	1	..	..	1	4	2	6
Everton	{ Below 5 years ..	3	1	2	..	3	..	1	1	9	2	11
	{ Above 5 years ..	3	5	5	1	6	5	3	3	17	14	31
Kirkdale	{ Below 5 years ..	3	1	1	2	..	..	1	..	5	3	8
	{ Above 5 years ..	5	3	1	4	1	1	2	1	9	9	18
West Derby	{ Below 5 years ..	1	2	..	..	..	..	..	..	1	2	3
	{ Above 5 years ..	1	5	1	2	4	5	3	6	9	18	27
North Toxteth	{ Below 5 years ..	..	..	..	..	..	1	..	1	..	2	2
	{ Above 5 years ..	..	..	2	2	..	3	2	1	4	6	10
South Toxteth	{ Below 5 years ..	1	1	1	..	1	..	..	1	3	2	5
	{ Above 5 years ..	..	1	2	1	..	2	1	..	3	4	7
Parish	{ Below 5 years ..	7	1	3	5	3	1	..	2	13	9	22
	{ Above 5 years ..	52	42	23	22	19	23	28	23	122	110	232
Out-Townships	{ Below 5 years ..	8	5	4	2	4	1	2	3	18	11	29
	{ Above 5 years ..	10	14	13	11	12	16	11	12	46	53	99
Borough	{ Below 5 years ..	15	6	7	7	7	2	2	5	31	20	51
	{ Above 5 years ..	62	56	36	33	31	39	39	35	168	163	331

List of Streets in the Borough wherein Three or more Deaths from Typhus and Infantile Fever occurred in 1877.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Back Queen Anne	2	3	5	Braemar	4	..	4
Bond	2	1	3	Doddridge	3	..	3
Chaucer	1	2	3	Douro	3	..	3
Chisenhale	3	2	5	Grafton	4	..	4
Christian	3	1	4	Holborn	4	..	4
Circus	2	2	4	Lancaster	3	..	3
Grosvenor	2	1	3	Llanrwst	..	3	3
Hornby	1	2	3	Mann	3	1	4
Limekiln Lane	1	2	3	Robsart	2	1	3
Marybone	2	1	3	Upper Dalton	2	7	9
Tatlock	3	..	3				
Vauxhall Road	3	..	3				
Wright	1	4	5				

Occupations of Persons who (either themselves or members of their family) have died from Typhus and Infantile Fever in the Workhouses or Hospitals of the Borough, tabulated into Wards from whence they came, during the Year 1877.

LIVERPOOL WORKHOUSE.

OCCUPATIONS.	WARDS.															Residences Outside the Borough.	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.	Everton.	Kirkdale.	West Derby.			
Labourers	29	5	4	5	13	1	..	1	..	1	2	2	13	5	10	5	1	97
Tradesmen	7	1	..	1	6	4	..	..	..	..	..	..	2	..	7	..	..	28
Servants	7	2	..	..	1	..	..	..	..	..	..	..	2	..	2	..	..	14
Seamen	1	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	3
Unknown	..	..	..	1	..	3	..	..	..	..	..	..	..	..	1	..	1	6
Males	29	4	3	5	9	3	..	..	..	1	1	..	10	1	8	5	1	80
Females	15	4	1	2	11	6	..	1	..	..	1	2	7	5	12	..	1	68
Total	44	8	4	7	20	9	..	1	..	1	2	2	17	6	20	5	2	148

ROYAL INFIRMARY.

One Female, a Servant, residence in South Toxteth Ward.

UNION WORKHOUSE, MILL ROAD.

One Female, widow of a Labourer, residence in West Derby Ward.

One Female, daughter of a Tradesman, residence in West Derby Ward.

EVERTON HOSPITAL (NETHERFIELD ROAD).

OCCUPATIONS.	WARDS.				TOTAL.
	Scotland.	Vauxhall.	Castle Street.	Everton.	
Labourers	..	..	1	1	2
Tradesmen.....	..	1	..	..	1
Seamen	1	..	..	..	1
Males	1	1	1	1	4
Females	..	..	..	..	..
Total	1	1	1	1	4

Occupations of Persons who (either themselves or members of their family) have died from Typhus and Infantile Fever in the different Wards of the Borough during the Year 1877. (Not included in the foregoing Tables of Deaths in Workhouses and Hospitals)

OCCUPATIONS.	WARDS.																	TOTAL.
	Scotland.	Vauxhall	St Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	
Labourers	25	4	..	3	8	..	..	..	..	1	1	..	17	8	10	3	5	85
Tradesmen	14	3	4	5	10	1	..	1	2	2	3	3	19	11	17	5	6	106
Servants	1	..	..	..	1	..	..	..	..	..	..	..	1	3	1	..	..	7
Seamen	4	1	..	..	1	..	..	..	1	..	..	..	..	2	..	3	1	13
Professions and Mercantile	..	..	..	..	1	1	..	..	..	..	..	2	5	1	2	1	..	13
Unknown	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	3
Males	23	2	3	6	9	1	..	1	2	2	1	5	26	14	10	4	6	115
Females	21	6	1	2	12	1	..	..	1	1	3	2	16	12	20	8	6	112
Total	44	8	4	8	21	2	..	1	3	3	4	7	42	26	30	12	12	227

TOXTETH WORKHOUSE.

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

OCCUPATIONS.	WARDS.			Total.
	North Toxteth.	South Toxteth.	Unknown.	
Labourers	4	3	..	7
Tradesmen	1	5	..	6
Seamen	3	..	2	5
Unknown	1	..	..	1
Males	4	4	2	10
Females	5	4	..	9
Total	9	8	2	19

SCARLATINA.

Scarlatina accounted during the year for 225 deaths, or for 114 in the Parish, and 111 in the Out-townships. (The average number of deaths for the preceding ten years was 716). The rate of its mortality was equal to 0.4 per 1,000 of the estimated population. Its rate relatively to deaths

from all causes was 1·4 per cent. in the first quarter, 0·6 in the second, 1·5 in the third, and 3·0 in the fourth quarter of the year; its annual rate relatively to all deaths was 1·6 per cent., and relatively to deaths from zymotic causes 7·7 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1877; the second is a record of the streets of the Borough wherein 2 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	4	1	2	..	8	6	10	10	24	17	41
	{ Above 5 years	..	2	1	..	3	..	4	4	8	6	14
Vauxhall	{ Below 5 years	..	..	..	..	1	2	4	3	5	5	10
	{ Above 5 years	1	..	..	..	1	1	1	1	3	2	5
St. Paul's	{ Below 5 years	..	..	..	..	..	..	..	3	..	3	3
	{ Above 5 years	..	..	..	..	..	..	..	1	..	1	1
Exchange	{ Below 5 years	..	..	..	..	1	..	..	1	1	1	2
	{ Above 5 years	..	..	..	..	..	..	1	1	1	1	2
St. Anne's	{ Below 5 years	1	1	..	..	..	..	4	1	5	2	7
	{ Above 5 years	..	..	..	..	2	2	1	2	3	3	5
Lime Street	{ Below 5 years	..	1	1	..	..	..	1	1	2	2	4
	{ Above 5 years	1	..	..	..	..	..	1	1	1	1	2
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	3
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years	1	1	1	..	..	1	..	..	2	2	4
	{ Above 5 years	1	..	1	..	..	..	..	..	2	..	2
Abercromby	{ Below 5 years	..	..	..	1	1	..	..	..	1	1	2
	{ Above 5 years	1	..	..	..	..	..	..	..	1	..	1
Parish Workhouse and Hospitals	{ Below 5 years	..	..	..	..	..	..	1	..	1	1	1
	{ Above 5 years	..	..	..	1	..	..	1	2	1	3	4
Out-Township Workhouse and Hospitals.	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years	3	3	..	4	4	3	6	3	13	13	26
	{ Above 5 years	1	2	..	1	..	1	..	1	2	5	7
Kirkdale	{ Below 5 years	..	..	1	2	..	2	7	8	9	12	21
	{ Above 5 years	..	..	..	..	2	1	5	1	7	7	8
West Derby	{ Below 5 years	3	6	4	..	2	1	1	1	10	8	18
	{ Above 5 years	2	..	..	..	..	..	1	1	3	1	4
North Toxteth	{ Below 5 years	2	5	..	2	..	2	3	2	5	11	16
	{ Above 5 years	2	1	..	..	..	..	..	..	2	1	3
South Toxteth	{ Below 5 years	1	1	..	..	3	1	1	..	5	2	7
	{ Above 5 years	1	..	..	..	..	..	..	..	1	..	1
Parish	{ Below 5 years	6	5	5	1	11	10	20	20	42	36	78
	{ Above 5 years	4	2	2	1	4	3	9	11	19	17	36
Out-Townships	{ Below 5 years	9	15	5	8	10	9	18	14	42	46	88
	{ Above 5 years	6	3	..	1	1	3	2	7	9	14	23
Borough	{ Below 5 years	15	20	10	9	21	19	38	34	84	82	166
	{ Above 5 years	10	5	2	2	5	6	11	18	28	31	59

List of Streets in the Borough wherein Two or more Deaths
from Scarlatina occurred in 1877.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front	Court.	
Addison	...	2	2	Beresford	1	1	2
Ashfield	...	2	2	Boaler	3	...	3
Back Queen Anne	1	2	3	Clarke	2	...	2
Bidder	2	...	2	Cornwall	2	...	2
Blandford	2	..	2	Forge	2	...	2
Carlton	...	4	4	Forth	2	...	2
Charters	1	1	2	Gordon	2	...	2
Chisenhale	4	7	11	Hill	1	1	2
Dublin	2	...	2	Hutchinson	2	...	2
Gascoyne	1	1	2	Liffey	3	...	3
Hedley	1	1	2	Morley	2	...	2
Hornby	...	3	3	Mornington	2	...	2
Leeds	1	1	2	Upper Beau	2	...	2
Lord Nelson	2	...	2				
Nash	2	...	2				
Porter	...	2	2				
Prince's Walk	3	1	4				
Regent	3	...	3				
Scotland Road	2	...	2				
Soho	2	...	2				
Warren	2	...	2				
Whitley	1	1	2				

MEASLES

Occasioned 197 deaths, of which 107 occurred in the Parish, and 90 in the Out-Townships. (The average number of deaths for the preceding ten years was 430.) Its percentage death-rate relatively to deaths from all causes was 0·2 in the first quarter of the year, 0·4 in the second, 1·3 in the third, and 3·8 in the fourth. Its annual percentage rate relatively to deaths from all causes was 1·4, and relatively to deaths from Zymotic causes 6·7.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	..	1	3	3	13	4	16	11	32	19	51
	{ Above 5 years ..	..	1	..	..	..	..	5	..	6	..	6
Vauxhall	{ Below 5 years ..	..	..	..	..	1	2	..	3	1	5	6
	{ 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 ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..	..	1	..	..	..	..	10	3	10	4	14
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Lime Street	{ Below 5 years ..	..	..	..	..	..	..	2	..	2	..	2
	{ 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	1	3	1	4	5
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..	..	..	..	..	..	..	3	1	3	1	4
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..	..	..	..	..	1	..	1	2	2	2	4
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..	1	..	..	..	..	1	1	..	2	1	3
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	1	6	1	6	7
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years ..	1	..	..	2	3	1	14	10	18	13	31
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Kirkdale	{ Below 5 years ..	..	..	2	..	..	5	12	5	14	10	24
	{ Above 5 years ..	..	..	..	..	1	..	2	1	2	..	3
West Derby	{ Below 5 years ..	..	1	..	..	1	..	4	4	5	5	10
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
North Toxteth	{ Below 5 years ..	..	1	1	..	2	3	..	1	3	5	8
	{ Above 5 years ..	1	..	..	..	..	..	..	1	..	..	1
South Toxteth	{ Below 5 years ..	..	..	3	1	3	2	3	..	9	3	12
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish	{ Below 5 years ..	1	3	3	3	15	8	37	29	56	43	99
	{ Above 5 years ..	..	1	..	..	..	..	1	6	1	7	8
Out-Townships	{ Below 5 years ..	1	2	6	3	9	11	33	20	49	36	85
	{ Above 5 years ..	1	..	..	..	1	..	3	2	3	..	5
Borough	{ Below 5 years ..	2	5	9	6	24	19	70	49	105	79	184
	{ Above 5 years ..	1	1	..	..	1	..	1	9	3	10	13

DIARRHŒA

Accounted for 605 deaths, or for 324 in the Parish, and 281 in the Out-townships. (The average number of deaths for the preceding ten years was 950). Its percentage death-rate relatively to deaths from all causes was 0·9 in the first quarter of the year, 1·7 in the second, 13·0 in the third, and 2·4 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 4·4, and relatively to deaths from Zymotic causes 20·6.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	1	5	6	8	58	46	3	10	68	69	137
	{ Above 5 years ..	..	..	..	1	1	1	1	1	2	3	5
Vauxhall	{ Below 5 years ..	..	..	3	3	13	10	2	3	18	16	34
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years ..	1	1	1	1	5	7	2	..	9	9	18
	{ Above 5 years ..	..	..	..	..	2	..	..	..	2	..	2
Exchange	{ Below 5 years ..	1	..	1	..	4	4	..	..	6	4	10
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..	2	..	..	..	14	14	..	5	16	19	35
	{ Above 5 years ..	..	..	..	..	2	..	..	..	2	..	2
Lime Street	{ Below 5 years ..	..	..	2	..	2	3	1	..	5	3	8
	{ Above 5 years ..	..	..	..	1	1	..	..	..	1	1	2
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 ..	..	..	..	..	3	..	..	1	3	1	4
	{ Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
Great George	{ Below 5 years ..	..	1	2	1	4	3	..	..	6	5	11
	{ Above 5 years ..	..	..	..	..	..	..	1	1	1	1	2
Rodney Street	{ Below 5 years ..	1	1	1	..	4	7	1	2	7	10	17
	{ Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
Abercromby	{ Below 5 years ..	..	1	..	..	1	2	..	3	1	6	7
	{ Above 5 years ..	..	..	..	..	..	2	..	..	..	2	2
Parish Workhouse and Hospitals	{ Below 5 years ..	1	1	..	..	1	2	1	2	3	5	8
	{ Above 5 years ..	4	1	2	..	1	3	5	9	7	16	16
Out-Township Workhouse and Hospitals..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	2	1	1	..	3	1	4
Everton	{ Below 5 years ..	1	..	4	4	41	37	6	3	52	44	96
	{ Above 5 years ..	1	1	1	..	1	3	..	1	3	5	8
Kirkdale	{ Below 5 years ..	..	1	3	1	12	17	..	3	15	22	37
	{ Above 5 years ..	..	1	1	..	2	2	..	..	3	3	6
West Derby	{ Below 5 years ..	1	1	3	1	16	6	2	2	22	10	32
	{ Above 5 years ..	..	..	1	..	2	..	..	1	..	4	4
North Toxteth	{ Below 5 years ..	2	1	1	2	18	8	4	3	25	14	39
	{ Above 5 years ..	..	..	..	..	..	2	..	..	..	2	2
South Toxteth	{ Below 5 years ..	..	..	2	2	22	17	2	5	26	24	50
	{ Above 5 years ..	..	..	..	..	..	2	1	..	1	2	3
Parish	{ Below 5 years ..	7	10	17	13	110	98	10	26	144	147	291
	{ Above 5 years ..	4	1	3	2	6	5	5	7	18	15	33
Out-Townships	{ Below 5 years ..	4	3	13	10	109	85	14	16	140	114	254
	{ Above 5 years ..	1	2	2	1	5	12	2	2	10	17	27
Borough	{ Below 5 years ..	11	13	30	23	219	183	24	42	284	261	545
	{ Above 5 years ..	5	3	5	3	11	17	7	9	28	32	60

List of Streets in the Borough wherein Three or more Deaths from
Diarrhœa occurred during the Year 1877.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE PARISH.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Adlington	3	1	4	Sawneypope	3	1	4
Athol	3	..	3	Scotland Road	4	..	4
Benledi	4	..	4	Shadwell.....	2	1	3
Bevington	3	..	3	Stockdale	1	2	3
Bostock	7	1	8	STREETS IN THE OUT- TOWNSHIPS.			
Burlington	1	2	3				
Clare	2	1	3	Brassey	2	1	3
Collingwood	1	4	5	Buckingham	4	..	4
Fontenoy	2	1	3	Elias	4	..	4
Ford	..	4	4	Fletcher	3	..	3
Gascoyne	2	1	3	Great Homer.....	2	1	3
Hornby	4	2	6	Lamb	3	..	3
Kew.....	3	2	5	Mann	..	4	4
Latimer	2	1	3	Northumberland	2	1	3
Limekiln Lane	2	1	3	Park Road	3	..	3
Newsham	1	2	3	Portland Place	3	..	3
Paget	4	..	4	Robsart	4	1	5
Portland	4	..	4	Southwell	3	..	3
Raymond	2	1	3				

DIARRHŒA IN DATES OF DEATH, 1877.

DATE June.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	3	29.317	54.5	0.175	3.3	619	SSE & SW
2	..	29.610	55.9	..	..	576	SW
3	1	29.615	65.1	..	..	402	S & SW
4	1	29.628	62.3	0.006	0.2	227	ESE & Var.
5	1	29.736	55.7	0.022	1.3	625	SW & S
6	..	29.804	53.4	0.220	1.7	492	SE & S
7	..	30.017	54.4	..	..	623	SW & W
8	..	30.005	56.5	0.096	2.2	311	S & SW
9	2	30.003	59.8	..	..	400	SW
10	1	30.012	59.2	..	..	435	SW & S
11	1	30.062	58.7	0.073	3.7	231	NW & SW
12	1	29.966	54.2	0.014	0.7	175	NE & E
13	2	30.032	59.2	..	..	291	E & SE
14	..	30.116	58.1	..	..	408	E & SE
15	3	30.178	59.3	..	..	416	E & SE
16	2	30.172	61.6	..	..	304	E & SE
17	1	30.110	66.4	..	..	205	E & SE
18	3	30.094	69.6	..	..	218	E & SE
19	3	30.111	67.5	..	..	189	E & SE
20	1	30.044	67.8	..	..	231	SE & W
21	2	29.860	66.2	0.144	4.4	307	SE
22	1	29.524	55.9	0.162	4.0	463	ESE & W
23	..	29.789	52.6	0.018	1.3	620	W & NW
24	1	30.128	54.2	..	..	400	W & NW
25	1	30.094	57.9	0.080	3.6	458	W & SW
26	..	29.985	58.5	0.113	4.2	572	W & SW
27	..	30.156	57.5	..	..	474	W
28	1	30.200	60.6	..	..	344	W & SW
29	3	30.142	61.9	0.021	2.1	448	W & SW
30	..	30.195	59.4	..	..	222	NW & W

DIARRHŒA IN DATES OF DEATH, 1877.

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	..	30·035	58·6	..	..	246	W & NW
2	..	29·964	57·4	0·234	1·9	460	W & SW
3	2	29·923	55·5	0·306	1·5	490	W
4	1	29·951	51·8	0·010	0·4	367	W & NW
5	3	29·895	54·5	0·704	3·5	263	W & NW
6	2	29·913	54·2	0·500	3·9	337	W & NW
7	3	30·125	54·8	0·014	0·5	641	W & NW
8	..	30·219	56·7	..	..	573	W & NW
9	2	30·219	61·5	..	..	534	W & SW
10	1	30·089	60·4	..	..	620	W & SW
11	..	30·051	57·9	..	..	488	W
12	3	29·950	59·4	..	..	191	W & SW
13	..	29·706	60·7	0·130	2·2	255	S & SW
14	1	29·420	61·2	1·263	14·0	173	SE & W
15	1	29·031	56·2	0·893	11·2	647	SW & W
16	1	29·177	58·3	0·077	2·5	320	S & W
17	2	29·448	56·8	..	..	750	W
18	2	29·808	55·8	..	..	563	W & NW
19	6	29·772	58·2	0·067	1·0	326	W & Var.
20	3	29·878	58·1	..	..	599	W & SW
21	1	29·858	61·8	..	..	348	SW & S
22	2	29·640	61·4	0·171	5·0	337	S & SE
23	4	29·422	59·5	0·027	1·4	373	S & SW
24	3	29·489	58·5	0·026	0·9	372	S & SW
25	1	29·792	57·0	0·040	2·0	355	SW
26	2	29·902	60·6	..	..	345	W
27	1	30·108	58·1	0·020	0·8	478	W
28	2	30·103	61·7	0·050	2·2	428	W
29	3	30·197	63·7	..	..	556	W
30	7	30·220	63·8	..	..	176	W & NW
31	9	29·986	60·6	..	..	259	W & NW

DIARRHŒA IN DATES OF DEATH, 1877.

DATE. August.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	4	29.920	56.0	..	..	533	W & NW
2	2	29.959	56.6	..	..	636	W
3	2	29.971	54.8	0.125	6.3	675	W
4	6	30.037	57.8	0.020	1.0	116	W & NW
5	8	30.020	63.4	0.050	2.3	144	S & SE
6	3	29.847	63.4	..	..	386	SE
7	9	29.503	58.0	0.350	6.3	403	SE & S
8	4	29.297	61.9	0.099	2.8	475	SE
9	6	29.501	60.7	0.023	0.6	593	W & SW
10	10	29.798	56.7	0.027	0.3	462	W
11	2	30.023	57.1	..	..	221	W & NW
12	3	30.098	59.4	..	..	125	NE & Var.
13	11	30.000	64.1	..	..	362	NE & E
14	5	29.870	64.6	..	..	327	E
15	10	29.867	63.9	0.018	0.6	170	SE & Var.
16	8	29.853	62.3	0.094	1.6	151	S & SE
17	8	29.885	59.5	0.004	0.2	246	NW & SW
18	7	29.949	61.8	0.211	9.1	246	SE & S
19	9	29.742	63.7	0.175	5.4	201	SSW & Var.
20	6	29.658	62.6	1.461	7.5	274	SE & S
21	4	29.475	59.3	..	..	547	SW & W
22	9	29.618	55.1	0.944	7.4	243	N & Var.
23	10	29.966	54.4	..	..	514	W
24	9	30.095	57.0	0.003	0.2	231	SW & W
25	5	29.794	57.6	0.742	9.2	518	E
26	9	29.709	57.6	0.130	7.8	254	NW & Var.
27	11	29.748	60.3	0.205	3.0	312	ESE & Var.
28	14	29.557	59.7	..	..	620	SW & W
29	10	29.456	58.5	0.088	0.8	336	W
30	6	29.722	55.2	0.100	0.7	497	SW & W
31	11	29.770	53.1	0.052	1.3	717	SW & W

DIARRHŒA IN DATES OF DEATH, 1877.

DATE. Sept.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	9	30.016	53.0	0.093	2.3	512	W
2	4	29.902	50.6	1.318	17.9	161	S & Var.
3	7	29.980	49.6	0.263	5.9	413	N & NE
4	5	30.293	52.1	..	..	272	W & NW
5	8	30.242	54.6	..	..	421	W & SW
6	9	29.945	54.0	0.020	0.6	283	W & SW
7	7	29.909	50.2	..	..	370	E
8	10	30.043	52.7	..	..	389	E & NE
9	5	30.051	54.3	..	..	478	E
10	2	29.979	56.4	0.031	1.1	405	E & SE
11	9	29.665	58.1	0.005	0.8	530	SE
12	2	29.621	57.6	0.008	0.5	600	SW & S
13	8	29.738	60.1	0.264	5.5	507	SW & S
14	5	29.788	56.3	0.800	13.5	561	W & SW
15	5	29.954	56.1	..	..	478	NW & W
16	1	30.303	52.9	..	..	379	NW & W
17	5	30.395	52.3	..	..	203	NE & E
18	3	30.370	55.6	..	..	238	NW & W
19	8	30.091	54.9	0.020	0.3	442	W & NW
20	4	29.861	49.6	..	..	263	NE & NW
21	7	29.898	48.6	0.007	0.2	321	N & NE
22	..	29.990	51.4	0.134	1.7	389	NW & N
23	1	29.944	52.0	..	..	346	NW
24	1	30.098	50.3	..	..	147	NW & Var.
25	4	30.176	51.4	0.024	0.6	323	W & SW
26	4	30.280	53.5	..	..	183	NW & W
27	3	30.365	53.2	..	..	130	SW & Var.
28	2	30.318	54.4	..	..	186	SE & E
29	1	30.241	54.9	..	..	237	SE & E
30	2	30.207	53.1	..	..	265	E & SE

DIARRHOEA IN DATES OF DEATH, 1877.

DATE. October	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	3	30.188	51.5	..	..	166	SE & E
2	1	30.044	52.2	..	..	192	SE
3	4	29.996	52.7	..	..	278	SE
4	2	30.179	50.1	..	..	362	SE
5	..	30.461	51.1	..	..	320	SE
6	1	30.648	51.0	..	..	262	SE
7	2	30.507	54.1	..	..	472	W & NW
8	2	30.310	47.8	..	..	477	NW & NE
9	..	30.348	49.0	..	..	143	NNE & Var.
10	2	29.964	51.9	0.131	2.8	363	SW
11	1	29.803	48.8	0.365	3.9	966	W
12	1	29.860	51.7	0.436	5.9	699	W
13	1	29.634	57.7	..	..	721	SW
14	2	29.479	55.6	0.112	1.9	553	S & SW
15	4	29.420	44.1	0.191	3.8	1007	SW & W
16	2	30.075	44.5	0.158	1.9	592	NW & W
17	2	30.312	43.9	0.134	3.8	504	NW & W
18	..	30.305	46.2	0.020	0.4	214	SSE & SW
19	1	30.137	49.0	0.048	2.2	341	SW & S
20	1	30.020	53.5	0.372	7.3	271	SSE & SW
21	1	29.673	53.7	0.062	1.5	518	SE & SSW
22	2	29.589	49.5	0.276	2.3	474	SW & S
23	..	29.428	47.3	0.104	2.7	539	SE & Var.
24	4	29.377	48.2	0.076	2.4	498	W & SSW
25	..	29.305	50.4	0.116	0.7	191	SE & Var.
26	3	29.722	50.5	0.105	1.3	250	W & Var.
27	1	29.693	52.7	0.034	0.7	496	SW
28	..	29.956	50.4	0.082	4.3	522	W & SW
29	..	29.562	53.1	0.160	2.1	547	SE & Var.
30	1	29.543	55.8	0.064	0.7	674	SW
31	..	30.025	51.2	..	..	992	W

HOOPING COUGH

Occasioned 735 deaths, or 347 in the Parish and 388 in the Out-Townships. (The average number of deaths for the preceding ten years was 447). Its percentage death-rate relatively to deaths from all causes was 2·6 in the first quarter of the year, 6·4 in the second, 6·6 in the third, and 5·8 in the fourth; its percentage rate relatively to deaths from all causes was 5·3, and relatively to deaths from Zymotic causes 25·1.

DEATHS FROM HOOPING COUGH.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years	14	16	24	30	19	26	16	22	73	94	167
	{ Above 5 years	..	..	..	1	1	1	..	1	1	3	4
Vauxhall	{ Below 5 years	..	1	3	7	6	8	5	4	14	20	34
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years	1	..	..	3	7	8	..	..	8	11	19
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years	1	..	1	1	3	2	2	1	7	4	11
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years	3	2	6	7	4	5	1	7	14	21	35
	{ Above 5 years	..	1	..	..	..	..	..	1	..	2	2
Lime Street	{ Below 5 years	..	1	5	..	..	..	1	1	6	2	8
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years	..	..	1	..	..	1	..	..	1	1	2
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years	..	..	..	..	1	1	1	2	2	3	5
	{ Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Pitt Street	{ Below 5 years	..	..	..	1	1	3	2	1	3	5	8
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years	..	1	..	..	2	2	2	9	4	12	16
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years	1	1	1	..	..	..	2	6	4	7	11
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years	1	..	1	3	3	1	4	3	9	7	16
	{ Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Parish Workhouse and Hospitals	{ Below 5 years	..	..	..	..	..	1	3	3	3	4	7
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals	{ Below 5 years	..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years	13	11	23	25	14	14	9	7	59	57	116
	{ Above 5 years	..	..	..	..	..	1	2	..	2	1	3
Kirkdale	{ Below 5 years	2	2	6	12	11	10	11	17	30	41	71
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
West Derby	{ Below 5 years	..	7	16	16	8	13	8	7	32	43	75
	{ Above 5 years	..	..	..	2	..	..	..	..	..	2	2
North Toxteth	{ Below 5 years	2	4	5	5	7	11	11	11	25	31	56
	{ Above 5 years	..	..	..	1	..	..	..	1	..	2	2
South Toxteth	{ Below 5 years	3	5	9	10	11	11	7	6	30	32	62
	{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Parish	{ Below 5 years	21	22	42	52	46	58	39	59	148	191	339
	{ Above 5 years	..	1	..	1	1	3	..	2	1	7	8
Out-Townships	{ Below 5 years	20	29	60	68	51	59	46	48	177	204	381
	{ Above 5 years	..	..	..	3	..	1	2	1	2	5	7
Borough	{ Below 5 years	41	51	102	120	97	117	85	107	325	395	720
	{ Above 5 years	..	1	..	4	1	4	2	3	3	12	15

DEATHS FROM CROUP.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				Total.
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Scotland	{ Below 5 years ..	5	5	7	9	6	2	2	7	20	23	43
	{ Above 5 years ..	1	..	..	..	..	..	..	..	1	..	1
Vauxhall	{ Below 5 years ..	1	1	2	..	5	1	1	2	9	4	13
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years ..	1	..	1	..	1	..	..	1	3	1	4
	{ Above 5 years ..	1	..	..	..	..	..	..	..	1	..	1
Exchange	{ Below 5 years ..	1	1	..	..	1	..	..	..	2	1	3
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
St. Anne's	{ Below 5 years ..	1	4	3	3	1	2	1	..	6	9	15
	{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
Lime Street	{ Below 5 years ..	..	..	..	1	..	..	..	..	..	1	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	..	..	1	..	..	1	..	1	1	2
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	1	..	..	..	..	..	..	..	1	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	1	..	2	..	..	..	..	..	3	..	3
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..	..	1	1	1	..	..	1	..	2	2	4
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..	..	1	..	..	..	..	1	1	1	2	3
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..	..	1	..	..	..	..	1	..	1	1	2
	{ Above 5 years ..	..	..	..	..	1	..	..	..	1	..	1
Parish Workhouse and Hospitals	{ Below 5 years ..	2	1	3	..	..	..	..	..	5	1	6
	{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years ..	8	12	10	7	4	1	8	5	30	25	55
	{ Above 5 years ..	..	..	1	..	..	..	..	1	1	1	2
Kirkdale	{ Below 5 years ..	3	1	4	1	..	4	2	2	9	8	17
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
West Derby	{ Below 5 years ..	3	2	2	3	1	..	2	1	8	6	14
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
North Toxteth	{ Below 5 years ..	1	2	..	2	1	3	3	1	5	8	13
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
South Toxteth	{ Below 5 years ..	6	3	4	1	3	2	1	..	14	6	20
	{ Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
Parish	{ Below 5 years ..	12	16	19	15	14	5	8	11	53	47	100
	{ Above 5 years ..	2	..	..	1	1	..	1	1	4	2	6
Out-Townships	{ Below 5 years ..	21	20	20	14	9	10	17	9	67	53	120
	{ Above 5 years ..	..	..	1	..	..	1	..	1	1	2	3
Borough	{ Below 5 years ..	33	36	39	29	23	15	25	20	120	100	220
	{ Above 5 years ..	2	..	1	1	1	1	1	2	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	2	4	6
	{ Above 5 years ..	1	..	..	1	..	..	..	..	1	1	2
Vauxhall	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ 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 ..	..	1	1	..	..	..	..	..	1	1	2
	{ 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 ..	1	..	..	..	..	..	..	..	1	..	1
Pitt Street	{ Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	..	..	..	..	..	..	..	1	..	1
Rodney Street	{ Below 5 years ..	1	..	1	..	..	..	1	..	3	..	3
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..	1	..	..	..	..	1	..	..	1	1	2
	{ Above 5 years ..	..	..	..	..	1	..	1	..	2	..	2
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	1	..	..	..	..	..	..	..	1	1
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
Everton	{ Below 5 years ..	1	..	1	2	..	1	..	1	2	4	6
	{ Above 5 years ..	..	1	..	..	..	..	2	..	2	1	3
Kirkdale	{ Below 5 years ..	..	..	..	..	1	..	..	1	1	1	2
	{ Above 5 years ..	..	..	..	..	..	1	..	1	..	2	2
West Derby	{ Below 5 years ..	1	1	..	..	1	1	1	1	3	3	6
	{ Above 5 years ..	..	..	..	..	..	1	..	1	..	2	2
North Toxteth	{ Below 5 years ..	1	1	1	..	..	1	..	1	2	3	5
	{ Above 5 years ..	..	..	1	..	..	..	..	1	1	1	2
South Toxteth	{ Below 5 years ..	..	..	..	1	..	..	1	2	1	3	4
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish	{ Below 5 years ..	4	2	2	1	1	1	1	2	8	6	14
	{ Above 5 years ..	3	1	..	1	1	..	1	..	5	2	7
Out-Townships	{ Below 5 years ..	3	2	2	3	2	3	2	6	9	14	23
	{ Above 5 years ..	..	1	1	1	..	2	2	3	3	7	10
Borough	{ Below 5 years ..	7	4	4	4	3	4	3	8	17	20	37
	{ Above 5 years ..	3	2	1	2	1	2	3	3	8	9	17

SMALL-POX.

This disease occasioned 299 deaths in the Borough of Liverpool, or 37 in the Parish and 262 in the Out-Townships (not apportioning the deaths in Hospitals to the Wards from whence they came). Of these deaths 165 were males and 134 females, 102 were children below 5 years of age, 34 were persons between the ages of 5 and 15, 102 between the ages of 15 and 30, and 61 above the age of 30. The rate of its mortality was equal to 0.6 per 1,000

per annum of the estimated population. Its rate of mortality relatively to deaths from all causes was 4·8 per cent. in the first quarter, 2·1 per cent. in the second quarter, 1·2 in the third quarter, and 0·2 in the fourth quarter of the year. Its annual rate relatively to all deaths was 2·2 per cent. Its annual rate of mortality relatively to total deaths from Zymotic causes was 10·2 per cent.; or 27·6 per cent. during the first quarter, 12·2 during the second quarter, 4·2 during the third quarter, and 1·1 during the fourth quarter. Of the deaths, 62 were stated to be of persons who had been vaccinated, 112 not vaccinated, and there were no returns of 125.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	4	5	2	2	..	2	..	..	6	9	15
	{ Above 5 years ..	5	2	..	1	1	1	..	..	6	4	10
Vauxhall	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ 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 ..	..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years ..	..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	1	..	..	..	1	..	..	..	2	..	2
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..	..	2	..	..	..	..	..	..	..	2	2
	{ Above 5 years ..	1	1	..	1	..	..	..	..	1	2	3
Rodney Street	{ Below 5 years ..	..	1	..	..	..	..	..	..	..	1	1
	{ Above 5 years ..	..	..	1	1	..	..	..	..	1	1	2
Abercromby	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals	{ Below 5 years ..	7	7	5	5	5	7	..	..	17	19	36
	{ Above 5 years ..	44	27	19	11	15	4	2	3	80	45	125
Everton	{ Below 5 years ..	5	5	1	..	..	..	1	..	7	5	12
	{ Above 5 years ..	7	17	3	1	..	1	1	..	11	19	30
Kirkdale	{ Below 5 years ..	6	1	2	1	..	..	..	..	8	2	10
	{ Above 5 years ..	3	2	..	1	..	..	..	..	3	3	6
West Derby	{ Below 5 years ..	1	4	..	..	..	..	..	..	1	4	5
	{ Above 5 years ..	1	3	1	..	..	..	1	..	2	4	6
North Toxteth	{ Below 5 years ..	1	2	..	1	..	..	..	..	1	3	4
	{ Above 5 years ..	1	..	..	3	..	2	..	..	1	5	6
South Toxteth	{ Below 5 years ..	1	2	5	3	1	1	..	..	7	6	13
	{ Above 5 years ..	6	..	3	..	..	..	..	..	9	..	9
Parish	{ Below 5 years ..	5	8	4	2	1	2	..	..	10	12	22
	{ Above 5 years ..	6	3	1	3	1	1	..	..	8	7	15
Out-Townships	{ Below 5 years ..	21	21	13	10	6	8	1	..	41	39	80
	{ Above 5 years ..	62	49	26	16	15	7	3	4	106	76	182
Borough	{ Below 5 years ..	26	29	17	12	7	10	1	..	51	51	102
	{ Above 5 years ..	68	52	27	19	16	8	3	4	114	83	197

DEATHS FROM SMALL POX IN 1876.

REPORT FROM THE BOARD OF HEALTH FOR THE YEAR 1890.

WARDS.	January.				February.				March.				April.	Quarter.				April.				May.				June.				July.	Quarter.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	January.				February.				March.					Quarter.				April.				May.				June.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	8	15	22	29	5	12	19	26	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	6	13	20	27	3	10	17	24	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Scotland	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

TOXTETH WORKHOUSE HOSPITAL.

Being outside the Borough, the deaths are not included in the tables at pages 31 and 33. Of the 48 deaths from Small Pox which occurred there, 47 were of patients removed from the Borough.

WARDS.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	YEAR 1877.
North Toxteth	10	7	2	..	19
South Toxteth	8	17	3	..	28
Residence unknown	1	..	..	..	1
TOTAL	19	24	5	..	48

List of Streets in the Borough wherein Three or more Deaths from Small Pox occurred during the year 1877.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Great Howard	3	1	4	Grafton	4	1	5
Hopwood	1	2	3	Henderson	5	1	6
Hornby	3	9	12	Houlgrave St. North . .	8	..	8
Kent	..	3	3	Hughes	4	..	4
Kew	..	3	3	Hyslop	..	3	3
Lambert	1	3	4	Lowndes	4	..	4
Porter	..	4	4	Mann	3	2	5
Queen Anne	3	..	3	Maynard	..	3	3
Upper Frederick	3	2	5	Northumberland	1	2	3
STREETS IN THE OUT-TOWNSHIPS.				Queen's Road	3	..	3
Beaufort	4	..	4	Wolfe	5	..	5
Braemar	8	..	8				
China	3	..	3				
Darnley	2	2	4				

The following Table shows the number of cases of Small Pox admitted into the West Derby Union Hospital, Mill Road, from the end of May, 1876, to February, 1877, and the number of deaths, distinguishing the Vaccinated, from the Unvaccinated, and Doubtful, at three periods of life, viz., under 8 years of age, above 8 and under 16, and above 16.

ADMISSIONS.

Total Number of Cases Admitted.	Number of Cases below 8 Years.	Number of Cases below 8 Years who were			Number of Cases above 8 Years and under 16.	Number of Cases above 8 and under 16 Years who were			Number above 16 Years of Age.	Number above 16 Years who were	
		Vaccinated.	Unvaccinated.	Doubtful.		Vaccinated.	Unvaccinated.	Doubtful.		Vaccinated.	Doubtful.
1021	141	61	70	10	291	223	52	16	589	447	96
											46

DEATHS.

Total Number of Deaths.	Number below 8 Years of Age.	Number below 8 Years of Age who were			Number above 8 and under 16 Years of Age.	Number above 8 and under 16 Years who were			Number above 16 Years of Age.	Number above 16 Years of Age who were	
		Vaccinated.	Unvaccinated.	Doubtful.		Vaccinated.	Unvaccinated.	Doubtful.		Vaccinated.	Doubtful.
158 or 15.5%	34 or 24.1%	1 or 1.6%	31 or 44.3%	2 or 20.0%	21 or 7.2%	6 or 2.7%	13 or 25.0%	2 or 12.5%	103 or 17.5%	38 or 8.5%	56 or 58.3%
											9 or 19.6%

Total Cases.....	1021	Deaths....	158 or 15.5 per cent.
Vaccinated	731	Deaths....	45 or 6.2 per cent.
Unvaccinated	218	"	100 or 45.9 "
Vaccination Doubtful..	72	"	13 or 18.1 "

Cases of Small Pox reported to the Medical Officer of Health
during the year 1877

1877. WEEK ENDING		WARDS.															Parish	Out-Townships	Borough		
		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
Jan.	6..	3	..	3	2	3	2	..	2	..	1	2	17	6	12	9	13	18	57	75	
"	13..	4	..	1	..	5	..	1	1	..	2	6	5	5	12	11	18	24	70	94	
"	20..	15	3	3	1	3	..	1	1	..	2	4	6	14	23	6	16	39	85	124	
"	27..	7	4	1	1	7	1	1	1	1	3	2	32	5	26	4	15	29	82	111	
Feb.	3..	14	1	2	..	7	5	..	2	3	2	3	29	6	12	5	7	39	59	98	
"	10..	9	..	..	1	..	..	..	1	1	1	3	34	9	14	10	3	16	70	86	
"	17..	9	1	..	..	10	2	..	2	..	2	2	36	6	9	4	6	28	61	89	
"	24..	9	1	..	..	1	..	1	3	1	3	..	16	6	7	1	3	19	33	52	
March	3..	10	1	..	..	3	2	..	3	1	2	3	8	11	11	3	2	25	35	60	
"	10..	7	1	..	..	3	2	..	1	2	..	..	12	10	6	4	3	16	35	51	
"	17..	8	..	..	..	1	2	..	..	2	1	..	7	1	8	3	7	14	26	40	
"	24..	4	..	1	..	3	2	..	..	2	..	2	8	8	6	3	2	14	27	41	
"	31..	1	1	1	..	..	..	..	..	1	..	..	4	1	4	3	4	4	16	20	
April	7..	4	1	..	2	4	..	..	1	1	1	..	5	2	4	6	23	14	40	54	
"	14..	1	..	1	..	3	..	..	1	2	1	1	7	3	4	7	9	10	30	40	
"	21..	1	..	..	1	1	..	..	1	2	..	1	9	1	1	2	14	7	27	34	
"	28..	3	..	..	..	..	..	..	..	..	1	3	6	1	4	5	12	7	28	35	
May	5..	3	..	..	..	2	..	1	1	1	2	..	2	3	3	7	7	10	22	32	
"	12..	3	..	..	..	2	1	..	2	1	..	1	4	2	2	3	10	12	21	33	
"	19..	3	..	..	..	1	..	..	..	1	2	1	2	..	2	9	5	8	18	26	
"	26..	13	1	..	..	1	3	..	..	..	2	1	5	2	1	4	3	21	15	36	
June	2..	6	1	..	..	..	..	..	..	..	2	..	9	..	2	7	2	9	20	29	
"	9..	8	..	..	..	2	1	..	1	1	1	1	6	9	6	12	3	16	36	52	
"	16..	8	2	..	..	1	..	..	..	..	3	..	6	4	2	2	3	14	17	31	
"	23..	8	..	..	..	3	..	..	..	..	..	1	6	8	2	4	6	12	26	38	
"	30..	13	..	..	..	..	..	..	..	1	..	..	9	3	..	1	2	14	15	29	
July	7..	3	..	..	..	..	..	..	1	..	1	2	4	3	1	6	2	7	16	23	
"	14..	4	..	..	..	2	..	..	..	..	..	..	8	2	3	..	5	6	18	24	
"	21..	3	..	..	..	5	..	..	1	..	..	2	5	1	1	2	4	11	13	24	
"	28..	1	..	..	..	6	..	..	..	..	..	1	5	..	4	1	..	8	10	18	
Aug.	4..	3	..	..	..	..	..	..	..	..	..	..	3	1	2	..	3	3	9	12	
"	11..	2	..	..	1	1	2	..	1	..	..	..	2	1	1	2	5	7	11	18	
"	18..	2	..	..	..	1	..	..	..	..	..	1	3	1	2	4	1	4	11	15	
"	25..	4	..	..	..	2	..	..	1	..	..	1	1	1	1	1	4	8	8	16	
Sept.	1..	..	..	..	..	2	..	..	..	..	..	..	1	..	1	..	1	2	3	5	
"	8..	1	..	..	..	3	1	..	..	..	..	..	4	..	..	..	..	5	4	9	
"	15..	3	2	1	..	..	..	..	..	1	..	..	3	..	..	..	..	7	3	10	
"	22..	..	..	..	..	1	..	..	..	..	..	..	4	..	1	1	1	1	7	8	
"	29..	5	..	..	..	..	..	..	..	2	..	..	1	..	..	..	..	7	1	8	
Oct.	6..	..	..	..	..	2	..	..	..	..	1	..	1	..	3	..	..	3	4	7	
"	13..	1	..	..	..	..	..	..	..	..	..	..	4	..	1	1	..	1	6	7	
"	20..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	2	2	
"	27..	1	..	..	..	..	..	..	..	..	..	..	6	2	..	..	..	1	8	9	
Nov.	3..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	2	
"	10..	2	..	..	..	..	..	..	..	..	..	..	6	..	1	..	..	2	7	9	
"	17..	1	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..	1	3	4	
"	24..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Dec.	1..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	4	..	..	7	7	
"	8..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	
"	15..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	
"	22..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
"	29..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	
TOTAL		212	20	14	9	88	29	1	11	24	28	41	48	398	139	207	157	224	525	1125	1650

In addition to the above, 7 cases were admitted to Hospital from Ships, and 3 others having no fixed abode, making a total of 1660 cases.

OTHER ZYMOTICS.

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

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.		M.	F.	Total.
		M.	F.	M.	F.	M.	F.	M.	F.			
Scotland	{ Below 5 years ..	2	4	2	3	3	2	5	4	12	13	25
	{ Above 5 years ..	..	1	1	3	3	1	3	2	7	7	14
Vauxhall	{ Below 5 years ..	..	1	1	..	1	1	..	1	2	3	5
	{ Above 5 years ..	..	..	..	..	..	1	..	1	..	..	1
St. Paul's	{ Below 5 years ..	1	1	..	..	1	..	1	1	3	4	4
	{ Above 5 years ..	..	..	1	..	1	..	2	..	4	..	4
Exohange	{ Below 5 years ..	..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..	1	..	..	..	1	..	..	1	1	2	2
St. Anne's	{ Below 5 years ..	..	2	1	..	2	2	2	..	5	4	9
	{ Above 5 years ..	1	..	..	1	1	..	..	..	2	1	3
Lime Street	{ Below 5 years ..	..	1	..	1	1	..	1	..	2	2	4
	{ Above 5 years ..	..	..	..	..	..	1	..	..	1	1	1
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	1	..	..	..	..	..	..	1	..	..	1
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Pitt Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..	..	..	1	..	1	..	..	2	..	..	2
	{ Above 5 years ..	..	..	..	1	..	..	..	..	1	..	1
Rodney Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	1	..	..	..	1	..	..	1
Abercromby	{ Below 5 years ..	1	..	..	..	..	..	1	1	1	2	2
	{ Above 5 years ..	..	..	1	..	1	..	1	2	1	3	3
Parish Workhouse and Hospitals	{ Below 5 years ..	1	1	1	..	1	2	..	4	2	6	6
	{ Above 5 years ..	2	1	4	..	1	1	2	7	4	11	11
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	1	..	..	..	..	1	1	1	1
	{ Above 5 years ..	1	1	1	1	1	2	..	5	2	7	7
Everton	{ Below 5 years ..	3	1	4	4	2	1	2	11	7	18	18
	{ Above 5 years ..	3	2	2	..	1	3	2	6	7	13	13
Kirkdale	{ Below 5 years ..	1	..	1	2	2	2	3	2	7	6	13
	{ Above 5 years ..	..	..	2	1	..	3	..	2	4	6	6
West Derby	{ Below 5 years ..	1	2	..	..	3	3	3	7	5	12	12
	{ Above 5 years ..	2	1	..	1	..	3	1	3	5	8	8
North Toxteth	{ Below 5 years ..	1	..	1	..	..	..	1	1	2	3	3
	{ Above 5 years ..	1	2	..	1	1	..	1	2	4	6	6
South Toxteth	{ Below 5 years ..	3	..	1	3	2	..	2	6	5	11	11
	{ Above 5 years ..	1	1	2	2	..	1	..	4	3	7	7
Parish	{ Below 5 years ..	6	10	7	4	8	7	10	8	31	29	60
	{ Above 5 years ..	4	2	7	5	8	4	6	6	25	17	42
Out-Townships	{ Below 5 years ..	9	3	6	11	9	6	8	6	32	26	58
	{ Above 5 years ..	8	7	7	5	3	10	4	3	22	25	47
Borough	{ Below 5 years ..	15	13	13	15	17	13	18	14	63	55	118
	{ Above 5 years ..	12	9	14	10	11	14	10	9	47	42	89

TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 1,943 deaths in the Borough of Liverpool during the year 1877, of which 965 occurred in the Parish, and 978 in the Out-Townships. (The average number of deaths for the preceding ten years was 2,073). The death-rate was 3·7 per 1,000 of the estimated population; their per-centage death-rate relatively to deaths from all causes was 14·0.

DEATHS FROM PHTHISIS.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	1	..	..	..	2	1	..	2	3	3	6
	{ Above 5 years ..	13	24	17	19	10	22	16	22	56	87	143
Vauxhall	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	4	2	7	2	2	2	3	4	16	10	26
St. Paul's	{ Below 5 years ..	..	1	..	1	..	..	..	..	..	2	2
	{ Above 5 years ..	3	3	6	1	3	2	3	1	15	7	22
Exchange	{ Below 5 years ..	..	..	..	1	..	..	..	..	..	1	1
	{ Above 5 years ..	2	1	4	2	1	1	4	1	11	5	16
St. Anne's	{ Below 5 years ..	1	..	1	..	..	..	..	1	2	1	3
	{ Above 5 years ..	11	6	14	4	6	5	9	6	40	21	61
Lime Street	{ Below 5 years ..	..	..	1	1	..	..	..	..	1	1	2
	{ Above 5 years ..	4	2	3	5	1	3	5	2	13	12	25
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	..	1	..	1	..	..	1	3	1	4
St. Peter's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	2	1	3	..	1	2	1	1	7	4	11
Pitt Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	5	4	5	3	4	2	3	..	17	9	26
Great George	{ Below 5 years ..	..	1	..	1	..	..	..	..	..	2	2
	{ Above 5 years ..	4	2	3	2	4	1	4	2	15	7	22
Rodney Street	{ Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..	7	4	12	4	1	3	4	2	24	13	37
Abercromby	{ Below 5 years ..	1	1	..	..	..	..	..	..	1	1	2
	{ Above 5 years ..	9	6	7	7	2	4	4	5	22	22	44
Parish Workhouse and Hospitals	{ Below 5 years ..	1	..	1	2	..	..	1	..	3	2	5
	{ Above 5 years ..	57	31	50	25	39	16	50	22	196	94	290
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	10	4	13	3	12	4	10	2	45	13	58
Everton	{ Below 5 years ..	1	1	..	4	1	4	1	1	3	10	13
	{ Above 5 years ..	22	29	34	35	21	26	33	29	110	119	229
Kirkdale	{ Below 5 years ..	..	1	..	1	1	1	..	..	1	3	4
	{ Above 5 years ..	8	14	12	16	5	6	6	11	31	47	78
West Derby	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..	9	14	12	25	12	19	14	9	47	67	114
North Toxteth	{ Below 5 years ..	2	1	2	1	..	..	1	..	5	2	7
	{ Above 5 years ..	15	16	12	12	9	8	7	16	43	52	95
South Toxteth	{ Below 5 years ..	..	..	1	..	1	..	1	..	3	..	3
	{ Above 5 years ..	5	9	6	9	12	7	3	5	26	30	56
Parish	{ Below 5 years ..	5	3	3	6	2	1	1	3	11	13	24
	{ Above 5 years ..	122	86	132	74	75	63	106	69	435	292	727
Out-Townships	{ Below 5 years ..	3	3	3	6	4	5	3	1	13	15	28
	{ Above 5 years ..	69	86	89	100	71	70	73	72	302	328	630
Borough	{ Below 5 years ..	8	6	6	12	6	6	4	4	24	28	52
	{ Above 5 years ..	191	172	221	174	146	133	179	141	737	620	1357

DEATHS FROM 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 ..	11	8	11	5	6	8	11	12	39	33	72
	{ Above 5 years ..	1	..	..	1	3	1	..	1	4	3	7
Vauxhall	{ Below 5 years ..	..	..	..	1	1	1	..	..	1	2	3
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years ..	..	..	1	1	1	..	..	..	2	1	3
	{ Above 5 years ..	..	..	1	..	1	..	..	..	2	..	2
Exchange	{ Below 5 years ..	2	..	1	..	..	..	..	..	3	..	3
	{ Above 5 years ..	1	..	..	1	..	..	..	..	1	1	2
St. Anne's	{ Below 5 years ..	1	5	3	3	3	4	3	..	10	12	22
	{ Above 5 years ..	..	1	..	..	2	1	..	..	2	2	4
Lime Street	{ Below 5 years ..	..	..	1	1	..	..	2	1	3	2	5
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	1	..	..	2	1	..	3	2	5	4	9
	{ Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
Pitt Street	{ Below 5 years ..	1	..	4	2	1	2	1	1	7	5	12
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Great George	{ Below 5 years ..	2	..	5	4	2	3	..	..	9	7	16
	{ Above 5 years ..	..	..	..	1	1	..	..	..	1	1	2
Rodney Street	{ Below 5 years ..	2	..	4	2	4	2	2	2	12	6	18
	{ Above 5 years ..	1	..	1	..	..	..	..	..	2	..	2
Abercromby	{ Below 5 years ..	4	2	2	2	1	1	..	1	7	6	13
	{ Above 5 years ..	2	..	1	..	1	1	..	..	4	1	5
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	1	1	1	..	2	1	3
	{ Above 5 years ..	..	..	..	1	2	2	3	1	5	4	9
Out-Township Workhouse and Hospitals.	{ Below 5 years ..	..	..	..	..	1	..	1	1	2	1	3
	{ Above 5 years ..	..	..	1	1	..	..	2	..	3	1	4
Everton	{ Below 5 years ..	13	9	16	15	15	13	10	13	54	50	104
	{ Above 5 years ..	3	..	3	2	3	1	2	3	11	6	17
Kirkdale	{ Below 5 years ..	10	6	11	6	4	4	9	7	34	23	57
	{ Above 5 years ..	..	1	3	1	1	..	2	1	6	3	9
West Derby	{ Below 5 years ..	9	8	11	6	4	5	6	3	30	22	52
	{ Above 5 years ..	1	..	2	1	1	2	2	2	6	5	11
North Toxteth	{ Below 5 years ..	5	2	11	2	4	4	5	1	25	9	34
	{ Above 5 years ..	..	..	1	..	1	1	1	..	3	1	4
South Toxteth	{ Below 5 years ..	4	1	6	1	2	3	3	1	15	6	21
	{ Above 5 years ..	..	..	1	1	..	1	1	..	2	2	4
Parish	{ Below 5 years ..	24	15	32	23	21	22	23	19	100	79	179
	{ Above 5 years ..	5	1	4	4	10	5	4	2	23	12	35
Out-Townships	{ Below 5 years ..	41	26	55	30	30	29	34	26	160	111	271
	{ Above 5 years ..	4	1	11	6	6	5	10	6	31	18	49
Borough	{ Below 5 years ..	65	41	87	53	51	51	57	45	260	190	450
	{ Above 5 years ..	9	2	15	10	16	10	14	8	54	30	84

I have received from Mr. Hartnup the following Meteorological Table for the year 1877 :—

LIVERPOOL OBSERVATORY.

DATE—1877.	Mean Barometer.	Mean Temperature.	Rainfall on Ground.
	Inches.	o	Inches.
January	29.717	42.1	4.607
February	29.853	43.8	3.147
March	29.721	41.5	2.337
April	29.747	44.9	2.236
May ..	29.858	49.1	1.978
June	29.957	59.4	1.144
July	29.848	58.6	4.532
August	29.797	59.2	4.921
September	30.055	53.5	2.987
October	29.921	50.6	3.046
November	29.541	45.8	5.053
December	29.962	42.3	3.242

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, or two or more of Small Pox have occurred during the year :—

STREETS.	Zymotic Diseases, including Fever, Scarlatina, and Small Pox.	Fever.	Scarlatina.	Small Pox.	Tubercular Diseases, including Phthisis.	Phthisis	Other Diseases.
Addison	18	17	..	..	13	13	128
Adlington	15	14	..	..	12	12	162
Athol	7	..	..	4	6	6	39
Atkinson	5	5	..	..	..	..	24
Back Portland	9	8	..	..	2	2	117
Back Queen Anne	16	15	..	..	1	1	7
Banastre	4	3	..	..	..	..	14
Beacon	3	..	..	2	3	3	10
Bent	9	7	..	2	1	1	62
Bevington	12	5	..	7	1	1	67
Birkett	11	10	..	..	..	..	54
Bispham	4	..	..	2	3	3	181
Blackstone	8	4	..	3	..	..	6
Blake	12	..	..	8	1	1	62
Blandford	14	6	..	8	11	8	156
Blenheim	8	5	..	2	2	2	162
Bolton	6	..	..	2	5	5	68
Bond	10	10	..	..	3	3	50
Bostock	13	4	..	8	9	9	53
Brick	9	3	..	..	4	4	174
Brown	3	3	..	..	..	..	1
Brownlow	6	5	..	..	..	..	15
Brownlow Hill (Vagrant sheds included)	53	24	..	7	33	23	420
Burlington	11	7	..	2	4	4	153
Byrom (Sheltering Home included)	26	19	..	7	1	1	9
Carlton	4	4	..	..	1	1	65
Cavendish	9	8	..	..	3	3	45
Cemeas	13	10	..	..	9	9	27
Charters	12	4	..	4	4	4	62
Chaucer	5	5	..	..	..	..	29
Chisenhale	12	11	..	..	15	15	129
Christian	12	7	..	5	4	4	57

STREETS.	Zymotic Diseases, including Fever, Scarlatina, and Small Pox.	Fever.	Scarlatina.	Small Pox.	Tubercular Diseases, including Phthisis.	Phthisis	Other Diseases
Circus	4	..	..	2	5	5	43
Clare.....	6	4	..	2	2	1	26
Clement	4	4	..	..	..	..	16
Collingwood	7	..	..	2	10	10	126
Copperas Hill	3	..	..	3	1	1	3
Crump	2	..	..	2	..	..	35
Daulby	7	7	..	..	..	..	..
Denison	5	4	..	..	..	..	20
Devon	3	3	..	..	4	4	23
Dover	5	3	..	2	..	..	3
Dryden.....	17	7	..	3	1	1	107
Duckinfield.....	5	3	..	..	..	..	91
Duke.....	4	..	..	2	1	1	20
Eldon	14	9	..	4	3	3	81
Falkland	6	6	..	..	..	..	7
Falkner.....	4	..	..	4	8	8	5
Fontenoy	4	3	..	..	3	3	57
Ford	5	5	..	..	5	3	71
Frederick.....	4	..	..	3	4	4	29
Furlong	3	3	..	..	..	..	1
Gascoyne	4	..	..	4	3	2	97
Gay	7	5	..	2	..	..	22
Gerard	12	4	..	6	11	11	77
Gilbert	5	4	..	..	2	2	41
Great Crosshall	3	..	..	2	8	8	32
Great Howard	13	5	..	8	..	..	19
Greenland	3	3	..	..	1	..	38
Grosvenor.....	14	12	..	..	..	..	70
Hare Place	7	7	..	..	..	..	16
Hedley.....	5	4	..	..	3	3	24
Henry Edward	8	7	..	..	4	4	75
Hodson.....	6	5	..	..	9	9	70
Hope	3	3	..	..	..	..	..
Hopwood	9	5	..	3	3	3	69
Hornby.....	23	12	..	10	7	7	231
Hunter	2	..	..	2	4	3	25
Idris	3	..	..	2	1	1	27
Kew	14	4	..	10	5	3	81
Kitchen.....	4	..	..	2	7	7	134
Lambert	9	..	..	8	2	2	21
Latimer.....	4	..	..	2	2	2	26
Limekiln Lane	14	13	..	..	2	2	82
Lionel	8	7	..	..	5	5	38
Llewellyn.....	4	..	..	4	1	1	7
Love Lane	3	3	..	..	..	..	3
Mansfield	5	3	..	2	4	4	41
Marlborough	4	..	..	3	2	2	51
Menai	4	..	..	2	..	..	6
Milton	10	10	..	..	3	3	100
Mount Pleasant	4	4	..	..	..	..	1

STREETS.	Zymotic Diseases, including Fever, Scarlatina, and Small Pox.	Fever.	Scarlatina.	Small Pox.	Tubercular Diseases, including Phthisis.	Phthisis	Other Diseases.
Mulberry	3	..	..	3	..	..	12
Nash Grove.....	4	3	..	..	..	..	12
Naylor	12	10	..	..	3	3	26
Norfolk	9	5	2	..	2	2	97
Norman	6	4	..	..	5	5	42
Oriel	9	..	..	2	12	12	140
Page	3	..	..	3	..	..	..
Paget	6	4	..	..	9	9	22
Pall Mall	4	..	..	3	..	..	24
Paradise	2	..	..	2	..	..	3
Paul	13	4	..	3	6	3	80
Pepper	4	4	..	..	..	..	3
Pitt	5	..	..	3	6	6	57
Porter	6	3	..	3	..	..	27
Portland	6	4	..	..	3	3	94
Primrose Hill	4	..	..	2	1	1	30
Prudhoe	8	8	..	..	..	..	5
Queen Anne	9	..	..	7	7	7	58
Rathbone.....	9	..	..	3	1	..	65
Raymond.....	10	8	..	..	..	..	127
Regent.....	6	5	..	..	..	..	23
Richmond Row	17	5	..	9	14	13	98
Richmond	5	5	..	..	..	..	1
Roderick	6	6	..	..	..	..	7
Saint Andrew	14	6	..	8	3	2	142
Saint Anne	4	..	..	2	9	8	74
Saint Martin	4	..	..	2	1	1	102
Saltney.....	2	..	..	2	..	..	32
Sawneypope	9	7	..	..	20	20	169
Scotland Place	4	..	..	2	2	2	..
Seel	2	..	..	2	..	..	9
Silvester	3	..	..	3	1	1	60
Slade.....	4	..	..	2	3	3	29
Sparling	4	..	..	2	3	3	28
Springfield Street	3	..	..	2	5	5	20
Steel	10	8	..	2	1	1	18
Tatlock	13	10	..	2	1	1	55
Torbock	5	5	..	..	1	1	23
Townsend	4	..	..	2	..	..	6
Trueman	10	9	..	..	6	6	36
Upper Frederick.....	7	3	..	2	44	40	136
Upper Pitt	4	..	..	3	3	3	9
Vauxhall Road	3	3	..	..	1	1	34
Vescock	7	..	..	7	..	..	44
Wakefield	5	..	..	4	1	1	20
Whitley	13	5	..	2	1	1	34
Woodstock	6	6	..	..	1	1	90
Wright.....	44	39	..	5	..	..	93

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

PARISH OF LIVERPOOL.

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

1877. 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. 6....	82	18	15	6	79	28	6	12	..	22	..	..	..	..	..
13....	79	19	21	2	75	22	28	11	1	38	..	..	..	..	..
20....	75	12	23	7	57	38	5	7	1	35	..	..	..	..	..
27....	57	20	12	2	63	35	18	4	1	48	..	..	..	..	..
Feb. 3....	63	27	24	8	58	48	15	42	1	20	..	..	..	..	..
10....	58	42	21	5	74	20	6	10	..	16	..	3	..	..	3
17....	74	15	23	4	62	16	8	10	1	13	3	1	2	..	2
24....	62	19	10	5	66	13	11	13	..	11	2	..	..	..	2
March 3....	66	24	8	2	80	11	4	5	..	10	2	2	2	..	2
10....	80	20	21	8	71	10	7	4	..	13	2	..	2	..	2
17....	71	19	17	3	70	13	10	13	2	8	2	..	2	..	..
24....	70	18	20	5	63	8	8	4	..	12	..	..	..	..	..
31....	63	15	6	4	68	12	5	6	3	8	..	..	..	..	..
April 7....	68	10	18	..	60	8	5	4	..	9	..	..	..	..	..
14....	60	12	26	1	45	9	12	11	..	10	..	..	..	..	..
21....	45	19	14	3	47	10	6	8	..	8	..	..	..	..	..
28....	47	25	15	..	57	8	8	8	..	8	..	1	..	..	1
May 5....	57	16	12	..	61	8	2	4	..	6	1	..	..	..	1
12....	61	7	16	1	51	6	6	3	..	9	1	..	1	..	..
19....	51	13	13	4	47	9	9	9	1	8	..	..	..	..	..
26....	47	10	16	3	38	8	4	2	..	10	..	..	..	..	..
June 2....	38	17	19	4	32	10	6	6	2	8	..	..	..	..	..
9....	32	13	6	2	37	8	4	7	..	5	..	1	..	..	1
16....	37	9	13	2	31	5	5	3	..	7	1	..	..	..	1
23....	31	11	10	4	28	7	8	6	1	8	1	..	1	..	..
30....	28	7	11	1	23	8	3	4	1	6	..	..	..	..	..
July 7....	23	11	5	..	29	6	1	6	..	1	..	..	..	..	..
14....	29	16	4	..	41	1	3	1	..	3	..	..	..	..	..
21....	41	11	15	1	36	3	..	..	..	3	..	..	..	..	..
28....	36	10	4	1	41	3	3	2	1	3	..	..	..	..	..
Aug. 4....	41	10	17	1	33	3	1	1	..	3	..	..	..	..	..
11....	33	11	9	2	33	3	7	3	..	7	..	..	..	..	..
18....	33	10	10	1	32	7	1	3	..	5	..	..	..	..	..
25....	32	7	14	2	23	5	5	4	..	6	..	..	..	..	..
Sept 1....	23	10	9	2	22	6	7	3	..	10	..	..	..	..	..
8....	22	10	9	1	22	10	3	2	..	11	..	..	..	..	..
15....	22	17	5	5	29	11	2	7	..	6	..	..	..	..	..
22....	29	21	5	1	44	6	6	6	..	6	..	..	..	..	..
29....	44	14	12	4	42	6	12	4	..	14	..	1	..	..	1
Oct. 6....	42	21	6	4	53	14	6	12	..	8	1	..	..	..	1
13....	53	9	17	3	42	8	8	6	..	10	1	..	..	..	1
20....	42	15	10	3	44	10	4	5	1	8	1	..	..	..	1
27....	44	13	11	2	44	8	12	9	..	11	1	..	1	..	..
Nov. 3....	44	20	11	1	52	11	5	5	1	10	..	1	..	..	1
10....	52	25	18	2	57	10	12	4	2	16	1	4	..	..	5
17....	57	13	19	5	46	16	9	8	..	17	5	..	1	..	4
24....	46	23	10	6	53	17	5	4	1	17	4	1	..	..	5
Dec. 1....	53	9	11	1	50	17	4	7	..	14	5	..	..	..	5
8....	50	12	15	3	44	14	7	11	..	10	5	11	5	..	11
15....	44	13	18	3	36	10	4	4	..	10	11	5	2	2	12
22....	36	5	6	2	33	10	3	5	..	8	12	8	5	2	13
29....	33	6	4	1	34	8	5	7	..	6	13	8	2	3	16

PARISH OF LIVERPOOL.

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

1877. 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.	6.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
"	13.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
"	20.	..	..	..	..	..	4	4	..	..	..	..	..	..	..	..
"	27.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Feb.	3.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
"	10.	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..
"	17.	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..
"	24.	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
March	3.	1	1	..	2	..	..	..	..	..	..	..	..	..	..	..
"	10.	2	1	..	3	..	1	1	..	..	..	1	..	..	1	1
"	17.	3	..	1	2	..	..	..	..	..	1	..	..	..	1	1
"	24.	2	..	1	1	..	..	..	..	..	1	..	..	..	1	1
"	31.	1	1	1	1	..	..	..	..	..	1	..	..	..	1	1
April	7.	1	..	..	1	..	..	..	..	..	1	..	1	..	..	..
"	14.	1	..	..	1	..	1	1	..	..	..	..	..	..	..	..
"	21.	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
"	28.	1	1	..	2	..	..	..	..	..	..	..	..	..	..	..
May	5.	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..
"	12.	2	..	1	1	..	..	..	..	..	..	..	..	..	..	..
"	19.	1	1	..	2	..	..	..	..	..	..	1	..	..	1	1
"	26.	2	..	..	2	..	1	1	..	..	1	..	..	..	1	1
June	2.	2	..	2	..	..	..	..	..	..	1	..	..	..	1	1
"	9.	..	..	..	..	..	1	1	..	..	1	..	..	..	..	..
"	16.	..	..	..	..	..	1	1	..	..	1	..	1	..	..	..
"	23.	..	3	..	1	2	..	..	..	..	..	3	..	1	2	2
"	30.	2	..	..	2	..	1	1	..	..	2	..	..	..	2	2
July	7.	2	..	..	2	..	..	..	..	..	2	..	1	..	1	1
"	14.	2	..	..	2	..	..	..	..	..	1	..	1	..	..	..
"	21.	2	2	..	4	..	..	..	..	..	..	..	..	..	..	..
"	28.	4	1	1	4	..	..	..	..	..	..	..	..	..	..	..
Aug.	4.	4	..	..	4	..	..	..	..	..	..	..	..	..	..	..
"	11.	4	1	..	5	..	..	..	..	..	..	..	..	..	..	..
"	18.	5	..	..	5	..	..	..	..	..	..	2	..	..	2	2
"	25.	5	3	1	7	..	..	..	..	..	2	2	1	..	3	3
Sept.	1.	7	..	1	6	..	..	..	..	..	3	..	..	..	3	3
"	8.	6	1	..	7	..	..	..	..	..	3	1	1	..	3	3
"	15.	7	..	3	4	..	..	..	..	..	3	1	..	1	3	3
"	22.	4	1	2	3	..	..	..	..	..	3	..	..	..	3	3
"	29.	3	2	..	5	..	..	..	..	..	3	1	1	..	3	3
Oct.	6.	5	3	1	6	..	..	..	..	..	3	1	..	..	4	4
"	13.	6	7	1	12	..	..	..	..	..	4	..	3	..	1	1
"	20.	12	8	2	17	..	..	..	..	..	1	..	..	..	1	1
"	27.	17	4	..	21	..	1	1	..	..	1	1	..	..	2	2
Nov.	3.	21	1	8	13	..	..	..	..	..	2	1	..	..	3	3
"	10.	13	1	2	12	..	..	..	..	..	3	..	1	..	2	2
"	17.	12	..	1	10	..	..	..	..	..	2	..	1	..	1	1
"	24.	10	2	1	11	..	..	..	..	..	1	1	1	..	1	1
Dec.	1.	11	..	4	7	..	..	..	..	..	1	..	..	..	1	1
"	8.	7	..	..	7	..	..	..	..	..	1	1	1	..	1	1
"	15.	7	5	3	9	..	..	..	..	..	1	2	2	..	1	1
"	22.	9	..	..	9	..	..	..	..	..	1	3	3	..	1	1
"	29.	9	1	..	9	..	..	..	..	..	1	1	1	..	1	1

PARISH OF LIVERPOOL.

RETURN OF PERSONS IN RECEIPT OF RELIEF IN THE YEAR 1877.

Week ending.	Work-house.	Industrial Schools.	Out Relief.	Week ending.	Work-house.	Industrial Schools.	Out Relief.
1877.				1877.			
January 6..	2625	737	2211	July 7..	2363	676	2315
„ 13..	2624	742	2276	„ 14..	2373	671	2318
„ 20..	2658	735	2246	„ 21..	2386	679	2338
„ 27..	2705	721	2255	„ 28..	2415	664	2311
February 3..	2685	719	2273	August 4..	2377	667	2325
„ 10..	2702	722	2265	„ 11..	2380	669	2295
„ 17..	2682	728	2310	„ 18..	2377	668	2287
„ 24..	2661	720	2322	„ 25..	2358	679	2303
March 3..	2707	718	2344	September 1..	2385	679	2322
„ 10..	2702	720	2325	„ 8..	2397	676	2324
„ 17..	2679	727	2320	„ 15..	2405	724	2333
„ 24..	2648	719	2287	„ 22..	2436	720	2334
„ 31..	2562	714	2259	„ 29..	2453	702	2326
April 7..	2546	708	2244	October 6..	2477	705	2349
„ 14..	2569	707	2288	„ 13..	2501	698	2377
„ 21..	2554	710	2274	„ 20..	2596	697	2360
„ 28..	2535	706	2324	„ 27..	2611	692	2368
May 5..	2484	711	2291	November 3..	2639	730	2363
„ 12..	2484	707	2260	„ 10..	2701	735	2359
„ 19..	2486	702	2284	„ 17..	2654	758	2386
„ 26..	2422	701	2253	„ 24..	2659	762	2392
June 2..	2425	686	2288	December 1..	2694	770	2418
„ 9..	2390	687	2269	„ 8..	2717	774	2424
„ 16..	2367	680	2277	„ 15..	2725	804	2491
„ 23..	2384	673	2333	„ 22..	2692	810	2449
„ 30..	2398	682	2297	„ 29..	2685	805	2414

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 1877 was 60, and their percentage death-rate was 13·2. The average number of cases of Measles at one time in Hospital during the year was 2, and the percentage death-rate was 14·9; the average number of cases of Scarlatina at one time in Hospital during the year was 4, and the percentage death-rate was 11·5. Only 14 cases of Small-pox were admitted during the year, the remaining Parish cases being sent to Mill Road Hospital.

The number of persons in receipt of Parochial Relief on Saturday, 30th of June, 1877, was 5,377, or 174 more than at the corresponding period of 1876, and the number on Saturday, the 29th December, 1877, was 5,904, or 415 more than at the same period of 1876.

SANITARY WORK.

Privies Certified for Conversion into Water Closets during the year 1877.

WARDS.	No. of Privies Certified.
Scotland	638
Vauxhall	42
St. Paul's	59
Exchange	10
St. Anne's	11
Lime Street	4
St. Peter's	9
Pitt Street	32
Great George	18
Rodney Street	74
Abercromby	112
Everton	532
Kirkdale	60
West Derby	389
North Toxteth	173
South Toxteth	1
TOTAL.....	2164

The Borough and Water Engineer has kindly supplied the following tables:—

The number of Houses Built in the Borough of Liverpool during the year 1877; also the number of Houses Pulled Down during the same period:—

WARDS.	No. of Houses Built.	No. Pulled Down.
Everton and Kirkdale.....	586	13
Scotland	2	181
Vauxhall	1	
St. Paul's		
Castle Street		
Exchange		
St. Peter's	1	
Pitt Street	5	2
Great George.....		26
Rodney Street	3	
Abercromby		
Lime Street		2
St. Anne's	1	
West Derby	660	
North Toxteth	633	
South Toxteth	242	4
	2134	228

SEWER VENTILATION.

Number of Iron Pipe Ventilating Shafts, fitted with Archimedian Extractors. . .	1,022
The length of Sewers Ventilated under present system	64 Miles
Number of Street Ventilating Gratings fixed	1,377

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 1,046 lodging houses at the end of 1876, and 1,130 at the end of 1877. This difference was occasioned by the removal of 279 old licenses, and the addition of 363 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 47,338, and the night visits 6,155. The number of lodging-houses found overcrowded on the night visits was 29, the number of informations laid for breaches of the bye-laws was 124, with the results of fines in 115 cases to the extent of £17 8s. 6d., in sums varying from 1s. to 10s. and costs. The number of lodging houses found dirty was 245; notices were served to lime-wash and cleanse.

It is necessary frequently to visit houses which are not licensed either as lodging or sub-let houses, especially when emigration is brisk, or at race times. There were 2,113 such visits paid during the day, and in 61 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 have his rooms measured and licensed. There were 270 such notices issued during the year, but in only 9 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. 44 cases of Fever and 26 cases of Small Pox occurred in lodging-houses; 63 of the patients were at once sent to Hospital, the bedding to the disinfecting apparatus, and the rooms purified and cleansed. The remaining 7 cases, being members of the keepers' families, were not removed, but the lodging-house licenses were at once suspended. No lodger died from Fever or Small Pox in a registered lodging-house, but there were 135 deaths from non-contagious diseases in lodging-houses, of which 89 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 1876 was 11,278; the number registered during 1877 was 763, making the total on the Register on the 31st December, 12,041. The number of visits paid during the night was 11,924, and during the day, 64,546, with the result of finding 1,740 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 1,056 rooms thus indecently occupied by 1,535 males and 1,942 females, besides having also in these rooms 863 children between the ages of 5 and 13 years. The character of the indecent occupation may be judged of from the following facts:—In 536 instances one man and two women were found in the same bedroom; in 279 instances two men and one woman; in ninety-three instances two men and two women; in eighty instances one man and three women; in twenty-two instances three men and one woman; in twelve instances two men and three women; in ten instances one man and four women; in five instances four men and one woman; in four instances one man and five women; in four instances three men and two women; in three instances two men and four women; in two instances four men and three women; in one instance three men and three women; in one instance three men and four women; in one instance four men and two women; in one instance five men and one woman; in one instance six men and two women; and in one instance four men and four women.

Informations were laid against 1,382 chief tenants for permitting overcrowding in rooms, with the following results:—5 were fined 1s.; 1,151 fined 1s. and 1s. costs; 3 fined 2s. and 2s. costs; 180 fined 2s. 6d. and 2s. 6d. costs; 20 fined 5s. and 4s. 6d. costs; 9 fined 10s. and 4s. 6d. costs; and 1 fined 20s. and 4s. 6d. costs; making a total of fines levied during the year of £178 4s. Of the remaining 13 cases, 12 informations were withdrawn and 1 acquitted, the tenants having abated the overcrowding.

BAKEHOUSES.

1,136 day visits and 1,559 night visits have been made to Bakehouses during the year. 22 informations were laid for working young people, below the age of 18 years, between the hours of 9 p.m. and 5 a.m. Penalties were inflicted in each case, varying from 2s. 6d. and costs to 20s. and costs, and making a total of £8 10s. 6d. 154 Bakehouses were found dirty, and notices were served to limewash and cleanse them.

LICENSES FOR CATTLE.

During the year 1877, 13 applications for licenses to keep 95 cows were made to, and granted by the Health Committee; 23 shippons licensed to keep 151 cows, have been given up during the year. There are at present 426 shippons licensed to keep 4,562 cows. 52 of the shippons previously licensed have been transferred to fresh tenants. In 60 of the shippons pigs are also allowed to be kept; in 55 of them only 2 pigs each; in 3, 4 pigs; and in 2, 5 pigs.

47 applications were made during the year to keep pigs in styes separate from, and unconnected with shippons; 11 of the applications for keeping 38 pigs were granted. 8 piggeries, licensed to keep 16 pigs, have been given up during the year. 11 piggeries previously licensed have been transferred to fresh tenants. The total number of premises or styes now licensed in the Borough (excluding shippons) is 209, for keeping 619 pigs.

MORTUARIES.

During the year 103 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.

REMOVAL OF THE SICK TO HOSPITAL.

During the year there were removed to Hospital 569 persons, 255 of whom were suffering from Fever, and 314 from Small Pox. 198 were taken to Netherfield Road Hospital, 223 to the Parish Workhouse Hospital, 17 to Toxteth Workhouse Hospital, and 131 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 5,717 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 3,180.

THE DISINFECTING APPARATUS.

The number of articles sent to the Disinfecting Apparatus during the year amounted to 58,365.

DATE 1877.	NUMBER OF ARTICLES DISINFECTED IN THE APPARATUS.		DATE 1877.	NUMBER OF ARTICLES DISINFECTED IN THE APPARATUS.	
	Ford Street.	New Bird Street.		Ford Street.	New Bird Street.
Week ending			Week ending		
January 6.....	829	766	July 8.....	484	515
13.....	884	714	15.....	862	255
20.....	1341	1043	22.....	787	251
27.....	1367	1084	29.....	249	678
February 3.....	1368	1222	August 4.....	1179	222
10.....	1243	1314	11.....	375	227
17.....	986	967	18.....	208	135
24.....	1061	717	25.....	309	606
March 3.....	829	1022	September 1.....	105	468
10.....	902	894	8.....	151	200
17.....	1232	1256	15.....	231	411
24.....	629	422	22.....	86	335
31.....	517	685	29.....	110	381
Total for.... }	13188	12106	Total for.... }	5136	4684
Quarter.... }			Quarter.... }		
April 7.....	603	619	October 6.....	126	396
14.....	469	425	13.....	244	529
21.....	794	533	20.....	432	650
28.....	1048	425	27.....	392	149
May 5.....	890	..	November 3.....	417	203
12.....	1124	..	10.....	324	292
19.....	590	578	17.....	351	966
26.....	775	365	24.....	598	1012
June 2.....	..	1174	December 1.....	..	503
9.....	504	727	8.....	..	367
16.....	421	313	15.....	..	353
23.....	473	582	22.....	..	455
30.....	259	470	29.....	..	331
Total for.... }	7950	6211	Total for.... }	2884	6206
Quarter.... }			Quarter.... }		

PORT SANITARY AUTHORITY.

THE following summary explains the duties performed during the past year. It may be stated that the Corporation of Liverpool have delegated their powers to the Authority of Birkenhead, to treat cases of infectious disease, occurring on board vessels in the Docks at Birkenhead.

Date. 1877.	Name of Vessel.	Where from.	Nature of Sickness.	Hospital to which Patient was removed.	REMARKS.
Jan. 23..	Anne R. Rich ..	..	Fever	Brownlow Hill.	The vessel was disinfected by the Port Sanitary Authority.
Jan. 24..	City of Richmond	New York	Small Pox	Mill Road	The vessel was disinfected by the Doctor of the vessel, and the bedding disinfected by the Port Sanitary Authority.
Feb. 1..	The Queen.....	New York	Small Pox	..	The patient died and was buried at sea, and the vessel was disinfected and the bedding destroyed by the crew.
Feb. 25..	Statesman	New Orleans..	Small Pox	..	The patient died and was buried at sea, and the vessel was disinfected and the bedding thrown overboard by the crew.
March 5..	Helvetia.....	..	..	..	The vessel was disinfected at request of owners, by the Port Sanitary Authority.
April 5..	Pennsylvania ..	Philadelphia ..	Small Pox	Mill Road	The vessel was disinfected by the Doctor of the vessel, and the bedding disinfected by the Port Sanitary Authority.
April 13..	City of Baltimore	Bombay	Small Pox	Mill Road	The vessel and bedding were disinfected by the Port Sanitary Authority.
April 20..	Nevada	..	Measles	Netherfield Rd.	The vessel was disinfected by the crew.
April 23..	Indiana	..	Typhoid Fever.	Netherfield Rd.	The vessel and bedding were disinfected by the Port Sanitary Authority.
April 25..	City of Richmond	New York	Measles	Mill Road	The vessel was disinfected by the Doctor of the vessel, and the bedding destroyed.
May 8..	City of Berlin ..	New York	Fever	Netherfield Rd.	The vessel and bedding were disinfected by the Port Sanitary Authority.
May 8..	Baltic	New York	Measles	..	The patient landed at Queenstown in a convalescent state, and the vessel was disinfected by the crew.

Date. 1877.	Name of Vessel.	Where from.	Nature of Sickness.	Hospital to which Patient was removed.	REMARKS.
May 15..	Vanora	New York	Liver and Lung Disease	..	The patient died ten days before the arrival of the vessel in the River, when the body was at once removed to St. Martin's Mortuary, and the vessel and bedding were disinfected by the Port Sanitary Authority.
May 16..	Parthia	Boston	Measles	..	The patient had recovered, and the vessel and bedding were disinfected by the Port Sanitary Authority.
May 18..	Agia Sophia	..	Fever	Brownlow Hill.	The vessel was disinfected by the crew.
May 24..	Volmer	..	Fever	Brownlow Hill.	The vessel and bedding were disinfected by the Port Sanitary Authority.
May 28..	Nevada	New York	Measles	..	The patients were convalescent, and the vessel was disinfected by the Port Sanitary Authority.
June 3..	Algeria	New York	Measles	Netherfield Rd.	The vessel and bedding were disinfected by the Doctor of the vessel.
June 15..	City of Berlin ..	New York	Measles	..	The patient was convalescent, and the vessel docked at Birkenhead.
June 18..	Atlantic	..	Small Pox	..	The patient landed at Birkenhead, and the vessel was disinfected by the crew.
June 19..	Aurrea	..	Small Pox	Mill Road	The vessel and bedding were disinfected by the Port Sanitary Authority.
June 25..	Maria Stoneman.	..	Typhoid Fever.	..	The patient was removed to No. 250, Derby Road, Bootle, and the vessel and bedding were disinfected by the Port Sanitary Authority.
July 14..	Bothnia	New York	Small Pox	Mill Road	The vessel and bedding were disinfected by the Port Sanitary Authority.
July 18..	Cameroon	W. C. Africa ..	Intermit. Fever (3 cases)	..	The Patients had recovered, and the vessel and bedding were disinfected by the Port Sanitary Authority.
July 31..	Caspian	Moville	Scarlatina	Netherfield Rd.	The vessel was disinfected by the crew, and the bedding disinfected by the Port Sanitary Authority.
Aug. 18..	H. S. Edward ..	Huelva	Typhoid Fever.	..	The patient died and was buried at sea, and the vessel was disinfected and the bedding destroyed by the crew.
Aug. 20..	City of Berlin ..	New York	Typhoid Fever.	Netherfield Rd.	The vessel and bedding were disinfected by the Port Sanitary Authority.
Aug. 24..	Britannia	New York	Scarlatina	Brownlow Hill.	The vessel and bedding were disinfected by the Port Sanitary Authority.

Date. 1877.	Name of Vessel.	Where from.	Nature of Sickness.	Hospital to which Patient was removed.	REMARKS.
Sept 6..	Beltiste	Charlestown ..	Small Pox (2 cases)	..	The patients died and were buried at sea, and the vessel was disinfected and the bedding destroyed by the crew.
Sept. 26..	Sardinian	Quebec	Typhoid Fever.	Brownlow Hill.	The vessel and bedding were disinfected by the Port Sanitary Authority.
Oct. 8..	Drummersen ..	Quebec	Typhoid Fever.	Brownlow Hill.	The vessel and bedding were disinfected by the Port Sanitary Authority.
Oct. 9..	Britannic	New York	Small Pox	Mill Road	The vessel was disinfected by the Doctor of the vessel, and the bedding disinfected by the Port Sanitary Authority.
Oct. 20..	Bjorn	..	Fever	..	The patients died and were buried at sea, the vessel was disinfected by the crew, and the bedding disinfected by the Port Sanitary Authority.
Oct. 22..	Victoria Cross ..	Bombay	Cholera	..	This vessel was detained off Egremont by the Customs Authorities, as three deaths from Cholera had occurred on board in June, during the homeward voyage. Notice of the detention of the vessel was received by the Port Sanitary Authority at 2 p.m. on the 22nd October, when the Port Medical Officer at once made his inspection and released the vessel at 4 p.m. The bodies were buried at sea, and the vessel was disinfected and the bedding thrown overboard by the crew.
Oct. 26..	BerthaMargueret	..	Typhoid Fever.	Brownlow Hill.	The patient was removed to the Hospital in a public car, which was caused to be thoroughly disinfected. The vessel had proceeded to sea before any disinfecting could be done.
Nov. 14..	Montreal	New York	Remittent Fever.	..	The patient had recovered, and no disinfecting was required to be done.
Nov. 14..	Jane and Mary ..	..	Small Pox	Mill Road	The patient was removed by the Parish Authorities, and the vessel immediately afterwards proceeded to sea before any disinfecting could be done.
Nov. 16..	Spain	New York	Small Pox	..	The patient had recovered, and the vessel was disinfected by the crew, and the bedding disinfected by the Port Sanitary Authority.
Nov. 20..	Cordillora	Buenos Ayres..	Measles	..	The vessel docked at Birkenhead.
Nov. 20..	Celtic	New York	Malarial Fever	..	There was no disinfecting required to be done.
Nov. 23..	Edgar	W. C. Africa ..	15 cases of Coast Fever, including 2 Deaths.	..	The two men who died were buried at sea, and the vessel was disinfected, and the bedding thrown overboard by the crew.

The following Report has been kindly prepared by J. Campbell Brown,
D. Sc. Analyst for the Borough :—

REPORT ON THE WORK DONE IN THE BOROUGH OF LIVERPOOL DURING
THE YEAR 1877, UNDER THE PROVISIONS OF "THE SALE OF FOOD
AND DRUGS ACT, 1875."

During the year 1877 the Public Analyst for the Borough of Liverpool has analysed 261 samples, of which 243 were submitted by the Inspector of Nuisances for the Borough, 4 by other public officers, and 14 by private persons.

These samples are classified as follows :—

No. of Samples.	Description of Samples.	RESULT OF ANALYSES.
174	Milk	55 were offences, and a few doubtful cases.
9	Cream	2 " " and 1 doubtful.
8	Butter	2 " "
1	Ham	Coated with chromate of lead packing.
26	Coffee	12 were offences.
12	Sweetmeats	6 contained poisonous pigments.
11	Preserved Peas....	5 " " drugs.
1	Vegetable	Rotten.
1	Cheese	Bad.
7	Drugs and Paper ..	Genuine.
3	Lard	Do.
1	Sugar	Do.
3	Honey	Do.
4	Bread	Free from alum.
261		83 were offences.

The number of prosecutions instituted was 63, the results being that 7 cases were dismissed, cautioned, or withdrawn on the understanding that the sale of the objectionable article would be stopped; and in 56 cases fines were inflicted, varying from 1s. to 60s., besides costs in each case.

The total amount of fines was £44 12s., and £27 17s. 6d. costs, including those inflicted in private prosecutions.

The average amount of penalty was only about 15s. 11d.; the average amount of penalty inflicted in the County of Lancaster for similar offences having been £2 17s. 4d., or three and a-half times as great.

LIVERPOOL WATER SUPPLY.

By permission of the Water Committee, the following Summary of the Analyses of the Water supplied to Liverpool, during the year 1877, has been kindly supplied by Dr. J. Campbell Brown :—

During the year 1877, periodical analyses of eighty-four samples of water have been made on behalf of the Water Committee, besides occasional analyses of special samples.

There has been very little variation in the composition of the water from the several sources of public supply, except in the case of the Green Lane Well.

The average composition of the water is shown very nearly in the accompanying table.

Bootle Well yields wholesome water for drinking purposes, but very hard, and therefore wasteful for washing, and unsuitable for manufacturing purposes.

Dudlow Lane Well has now recovered a fair degree of purity, and yields soft wholesome water.

Windsor Well yields hard but wholesome water : its hardness is gradually increasing, but when the pumping is partly stopped, the hardness falls as the water rises to a higher level in the well.

Green Lane Well yields sufficiently pure water, but its hardness is gradually increasing. By the stoppage or limitation of the pumping a marked change is produced in the composition of the water ; with only a trifling increase in the organic impurities there is a great reduction in the amount of nitrates. These nitrates are produced by the oxidation of sewage matter during the percolation of surface water through the rock. The water also becomes comparatively soft, and similar to Dudlow Lane Well water.

Kensington Reservoir has generally been filled with a mixture of Green Lane and Rivington water ; but lately its composition has shown that it has contained almost exclusively Rivington water.

TABLE SHOWING THE AVERAGE COMPOSITION OF THE LIVERPOOL WATER SUPPLY DURING THE YEAR 1877,
EXPRESSED IN PARTS PER 100,000.

DESCRIPTION.	Total Solid Matter in Solution.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen as Nitrites and Nitrates.	Total Combined Nitrogen.	Chlorine.	Hardness.	REMARKS.
Bootle Well.....	36.0	.172	.047	.003	.376	.425	3.73	24.0°	Clear
Dudlow Lane Well.....	17.1	.118	.043	.002	.424	.469	2.81	7.87°	
Windsor Well.....	32.8	.096	.03	.002	.307	.312	2.77	22.65°	Clear
Windsor Well, when not pumped	25.0	..	..	..	..	..	..	17.7°	
Green Lane Well	28.0	.126	.035	.003	.341	.379	2.93	20.0°	Clear
Green Lane Well, when not fully pumped	17.0	.19	.04	.002	.042	.084	2.7	8.0°	Clear
Rivington Water, from Mains at Old Swan ..	8.6	.246	.038	.002	.000	.04	1.17	3.25°	Very slightly tinged with [peat
Kensington	11.0	.188	.038	.003	.059	.099	1.32	6.0°	
Kensington, when Green Lane pumps were stopped	8.5	.246	.038	.002	.000	.04	1.1	3.25°	

INSPECTOR OF NUISANCES' REPORT FOR THE YEAR 1877.
SLAUGHTER-HOUSE RETURNS OF CATTLE KILLED IN
THE BOROUGH, 1877.

STREET.		Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Goats.
Abattoir		32006	*157696	...	13245	30804	...
NEW PARTS.	Arch No. 30	227	201	124	..	..	..
	Arch No. 42	241	518	58	3	..	..
	Back Butler Street	247	787	174	..	..	..
	Back Castle Street	963	1112	800	13	..	..
	Back Mount Vernon Green	616	5963	1448	..	..	..
	Browside	657	1040	288	..	..	..
	Byles Street	53	2108	573	..	..	..
	Corlett Street	406	1836	310	..	8	..
	Cotter Street	29	192	22	..	2593	..
	Crown Street	345	1140	242	8	1	..
	Darnley Street	..	..	..	..	2029	..
	Edgeware Street	469	1128	448	1	..	..
	Embleton Street	759	3964	918	25	185	..
	Foley Street	880	1588	257	2	..	..
	Gelling Street	491	143	195	74	52	..
	Grinfield Street	21	14	16	1	..	..
	Head Street	50	519	..	..	..	..
OLD PARTS.	Knight Street	238	961	239	..	..	..
	Parliament Street	414	1776	502	272	103	..
	Peel Street	146	992	143	12	3	..
	Bachelor Street	165	1062	206	22	2	..
	Back Commutation Row (1)	685	2764	457	..	..	..
	" " (2)	482	2774	346	1	..	..
	Benledi Street	622	813	214	15	..	..
	Bevington Hill	1860	798	65	800	..	..
	Bolton Street	887	1404	1078	88	..	..
	Byrom Street	..	..	..	..	769	..
	Finch Place	647	2246	499	131	..	..
	Frederick Street	865	2458	424	3	16	..
	Hodson Street	820	2336	627	44	46	..
	Hood Street	1591	2599	698	9	..	..
	Leeds Street	1120	853	234	..	841	..
	Lower Milk Street	..	..	..	..	1972	..
	Lydia Ann Street	311	443	427	1	18	..
	Norfolk Street	1283	1805	361	..	12	..
	Norman Street	..	..	..	..	1190	..
	Plumbe Street	..	..	..	..	2719	..
	Price Street	484	2751	180	9	14	..
	Scotland Road	156	438	94	170	6	..
	Soho Street	..	..	..	..	2469	..
	Stanley Road	531	652	154	79	860	..
	St. James' Street	341	1265	179	..	2	..
	Upper Milk Street	2370	519	..	..	13584	..
Total in Private Slaughter-houses		22472	53962	13000	1783	29494	..
Total in the Borough		54478	211658	13000	15028	60298	..

* The carcasses of 31,837 Sheep were hung up for sale at the Abattoir, exclusive of the number 157,696.

UNWHOLESOME MEAT AND FISH SEIZED AND DESTROYED.

DATE.—1878.		Beef.	Veal.	Mutton.	Lamb.	Pork.	Poultry.	Rabbits.	Fish.	Shell-fish.	
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	
SLAUGHTER HOUSES.	Abattoir	113229	6079	12259	..	20518	..	..	..	..	Queen's Square.... 60 boxes French Fruit.
	Bevington Hill	25521	9772	1317	..	7049	..	..	..	..	
	Bolton Street	1556	250	..	..	..	..	..	..	..	
	Corlett Street	..	76	..	..	..	..	..	..	..	
	Crown Street	..	86	..	..	..	..	..	..	..	
	Cotter Street	122	..	..	..	4894	..	..	..	..	
	Browside	152	..	..	..	..	..	..	..	..	
	Foley Street	480	41	126	..	..	..	..	..	..	
	Frederick Street	..	184	..	..	..	..	..	..	..	
	Finch Place	1160	56	235	..	..	..	..	..	..	
	Gelling Street	1666	828	232	..	..	..	..	..	..	
	Grinfield Street	55	..	..	..	..	..	..	..	..	
	Hood Street	..	175	40	..	..	..	..	..	..	
	Lower Milk Street ..	..	..	..	..	715	..	..	..	..	
	Leeds Street	2481	78	446	..	..	..	..	..	..	
	Norfolk Street	..	..	263	..	..	..	..	..	..	
	Parliament Street ..	580	932	98	..	..	..	..	..	..	
	Price Street	..	..	68	..	..	..	..	..	..	
	Stanley Road	6750	981	728	..	214	..	..	..	..	
	Soho Street	..	..	..	..	1309	..	..	..	..	
	Upper Milk Street ..	2358	446	176	..	4117	..	..	..	..	
MARKETS.	St. John's	558	351	196	..	442	192	1161	204532	91	
	St. James'	1637	..	705	..	1300	..	..	..	..	
	St. Martin's	695	30	..	..	7932	..	..	..	..	
OTHER PARTS.	Athol Street	466	..	..	..	3	..	..	..	..	St. John's Market.... 161,000 Oysters. Hood Street 10,000 "
	Byrom Street	160	..	..	..	29	..	..	..	..	
	Brunswick Road	..	..	..	..	..	..	..	67	..	
	Beacon Lane	..	..	..	..	..	..	..	20	..	
	Brownlow Hill	..	..	..	..	300	..	..	30	..	
	Canada Dock	..	..	300	..	720	..	..	..	..	
	Crooked Lane	..	..	..	..	..	..	..	2916	..	
	Deane Street	..	..	..	..	..	..	41	..	..	
	Dryden Street	72	..	..	..	..	..	..	..	..	
	Duke Street	80	..	..	..	5524	..	..	..	..	
	Foster Street	..	..	..	..	29904	..	..	..	..	
	Great Charlotte Street	..	..	..	..	..	..	..	11308	..	
	Great Homer Street ..	41	..	..	..	..	..	..	241	..	
	Gill Street	..	..	..	..	86	..	..	..	..	
	George's Dock	..	..	..	..	..	..	..	224	..	
	Great George Place ..	246	..	68	..	..	..	..	..	..	
	Houghton Street	..	..	..	..	100	..	..	..	..	
	Islington	..	..	..	..	..	..	..	232	..	
	London Road	..	..	..	..	..	..	..	247	..	
	Low Hill	..	..	..	..	..	..	..	56	..	
	L. & Y. Railway Co. .	..	..	..	..	..	..	..	3558	..	
	L. & N. W. Raily. Co.	..	..	..	..	..	..	..	1016	..	
	Mill Street	..	..	273	..	259	..	..	..	..	
	Mathew Street	..	..	..	..	1728	..	..	..	..	
	Manesty Lane	..	..	..	..	..	..	..	7400	..	
	Midghall Street	..	..	..	..	..	..	..	63	..	
	Marybone	..	..	..	..	100	..	..	..	..	
	Mount Vernon Road..	90	..	..	..	..	..	..	..	..	
Carried forward . . .		160155	20365	17530	..	87243	192	1202	231910	91	..

UNWHOLESOME MEAT AND FISH SEIZED AND DESTROYED.

Continued.

DATE.—1878.		Beef.	Veal.	Mutton	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Waterloo Dock..195000 Oysters.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	
OTHER PARTS.	Brought forward ..	160155	20365	17530	..	87243	192	1202	231910	91	
	Park Road	..	..	..	..	..	..	..	90	..	
	Plumbe Street	..	..	..	..	254	..	..	..	..	
	Rose Place	75	..	..	..	..	..	..	..	..	
	Rose Street	..	..	..	..	..	..	..	22020	..	
	Scotland Road	1168	74	..	..	3886	..	..	49	..	
	Soho Street	30	..	..	..	..	..	..	..	..	
	Stanhope Street	..	..	50	..	..	..	..	..	..	
	Sawney Pope Street..	..	..	..	..	..	..	..	109	..	
	Tithebarn Street	150	..	..	..	..	..	..	..	..	
Vernon Street	..	..	..	..	750	..	..	..	..		
Victoria Street	..	..	..	..	336	..	..	..	..		
TOTAL		161578	20439	17580	..	92469	192	1202	254178	91	..

Number of Informations for Exposing Diseased Meat and Fish for Sale	60
„ Fined	50
Amount of Fines	£158 5s.
Also two informations laid for removing Cows affected with Pleuro-Pneumonia and Fines inflicted	£7 14s.

NUISANCES.

Nuisances inspected, complained of by the Inhabitants	2,613
" Reported by District Officers	72,246
" Notices issued	29,690
" Referred to the Medical Officer	2,907
" " " " Borough Engineer	3,182
" " " " Building Surveyor	804
" " " " Water Engineer	7,017
" " " " Superintendent of Scavengers	9,076
Number of Nuisance Informations	2,478
" fined	366
" Magistrates Orders to abate	731
" acquitted and withdrawn	1,381
Amount of Fines	£133 10 0

HOUSE TO HOUSE VISITATION.

Number of Streets examined	3,450
" " " houses examined	61,655
" " " " found clean	55,761
" " " " " dirty	5,404
" " Apartments in Street houses examined	219,417
" " Courts examined	4,848
" " " houses examined	24,384
" " " " found clean	20,298
" " " " " dirty	4,086
" " Apartments in Court houses examined	74,048
" " re-inspection of dirty houses	20,627
Total number of houses examined	106,666

CELLAR EXAMINATION.

Number of Streets in which Cellars were inspected	2,528
„ „ Cellars inspected	25,405
„ „ „ „ exempt from the operation of the Act	1,866
„ „ „ „ found empty	11,200
„ „ „ „ illegally occupied	1,079
„ „ „ „ legally „	11,260
„ „ Courts in which Cellars were inspected	2,419
„ „ Cellars inspected	12,410
„ „ „ found empty	9,447
„ „ „ illegally occupied	159
„ „ „ legally „	2,804
„ „ Cellar notices issued	1,354
„ „ „ informations	277
„ fined	249
„ acquitted and withdrawn	28
„ of Cellars ordered to be closed after second conviction	7
Amount of Fines	£29 2 0

INFECTED AND DIRTY HOUSES.

1,948 Infected Street Houses inspected, containing	2,298 cases.
616 „ Court „ „ „	781 „
101 „ Cellars „ „ „	113 „
Number of Notices to Owners to cleanse Infected Houses	2,964
„ „ „ to Occupiers to Whitewash Dirty Houses	10,754
„ „ „ to Owners to Whitewash the exteriors of Courts	2,764
„ „ Renewed Notices to Whitewash	5,219
„ „ Informations against Infected and Dirty Houses	845
„ Fined	84
„ Acquitted and Withdrawn	761
Amount of Fines.. .. .	£43 15 0

WATER CLOSET CONVERSIONS.

Number of Notices	681
„ Certified	2,164
„ Constructed	1,181
„ in progress of Construction	138
„ under Notices not expired	598
„ granted extension of time by Health Committee and Magistrates	247
„ of informations	58
„ fined	2
Amount of fines.. .. .	£2 6s. 6d.

SHIPPON AND PIGGERY INSPECTION.

Number of Shippon and Piggeries inspected	..	..	..	..	..	1,071
„ „ informations	..	..	..	..	..	46
„ fined	..	..	..	..	..	44
Amount of fines..	..	..	..	..	..	£18 6s. 0d.

COURT AND PRIVY EXAMINATIONS.

Number of Visits to Courts and Alleys	..	..	..	..	..	128,103
„ „ Closets found dirty but cleansed during the Officer's Inspection	..	..	..	..	..	78,609
„ „ Informations	..	..	..	..	..	7
„ Fines	..	..	..	..	..	5
Amount of fines..	..	..	..	..	..	£0 16s. 0d.

PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Informations against Manufactories	..	..	..	..	..	259
„ „ „ Steamers	..	..	..	..	..	80
„ Fined	..	..	..	..	..	325
„ Acquitted or Withdrawn	..	..	..	..	..	14
Amount of fines..	..	..	..	..	..	£322 6s. 6d.

PROCEEDINGS UNDER THE ADULTERATION ACT.

Number of Articles purchased for Analysis	..	..	..	..	..	243
„ „ Informations	..	..	..	..	..	63
„ „ Fined	..	..	..	..	..	56
„ „ Acquitted and Withdrawn	..	..	..	..	..	7
Amount of fines and costs	..	..	..	..	..	£72 19s. 6d.

SMOTHERED CATTLE.

Calves.	Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
1	214	140	46	193	208	63764

REMOVALS TO MORTUARIES AND HOSPITALS.

Bodies Removed to Mortuaries.			Persons Removed to Hospitals.			
Smithdown Rd.	St. Martin's.	Anfield.	Brownlow Hill.	Mill Road.	Toxteth Park.	Netherfield Rd.
3	96	4	223	131	17	198

SECTION AND EXAMINATIONS

Number of Examinations held during the year 1900
Total number of Examinations held during the year 1900
Total number of Examinations held during the year 1900

Number of Examinations held during the year 1900
Total number of Examinations held during the year 1900
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SECTION AND EXAMINATIONS

Number of Examinations held during the year 1900
Total number of Examinations held during the year 1900
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SECTION AND EXAMINATIONS

Number of Examinations held during the year 1900
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SECTION AND EXAMINATIONS

Number of Examinations held during the year 1900
Total number of Examinations held during the year 1900
Total number of Examinations held during the year 1900

Number of Examinations held during the year 1900
Total number of Examinations held during the year 1900
Total number of Examinations held during the year 1900

SECTION AND EXAMINATIONS

Section	Examinations	Examinations	Examinations	Examinations	Examinations
1st	2nd	3rd	4th	5th	6th
100	100	100	100	100	100

SECTION AND EXAMINATIONS

Number of Examinations held during the year 1900
Total number of Examinations held during the year 1900
Total number of Examinations held during the year 1900

100	100	100	100	100	100
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DEATHS REGISTERED IN THE BOROUGH OF LIVERPOOL,
DURING THE YEAR ENDING SATURDAY, 29TH DECEMBER, 1877.

DISCUSSION

DEATHS

1	2	3	4	5
1880	1881	1882	1883	1884
101	102	103	104	105
106	107	108	109	110
111	112	113	114	115
116	117	118	119	120
121	122	123	124	125
126	127	128	129	130
131	132	133	134	135
136	137	138	139	140
141	142	143	144	145
146	147	148	149	150
151	152	153	154	155
156	157	158	159	160
161	162	163	164	165
166	167	168	169	170
171	172	173	174	175
176	177	178	179	180
181	182	183	184	185
186	187	188	189	190
191	192	193	194	195
196	197	198	199	200

1	2	3	4	5
201	202	203	204	205
206	207	208	209	210
211	212	213	214	215
216	217	218	219	220
221	222	223	224	225
226	227	228	229	230
231	232	233	234	235
236	237	238	239	240
241	242	243	244	245
246	247	248	249	250
251	252	253	254	255
256	257	258	259	260
261	262	263	264	265
266	267	268	269	270
271	272	273	274	275
276	277	278	279	280
281	282	283	284	285
286	287	288	289	290
291	292	293	294	295
296	297	298	299	300

1	2	3	4	5
301	302	303	304	305
306	307	308	309	310
311	312	313	314	315
316	317	318	319	320
321	322	323	324	325
326	327	328	329	330
331	332	333	334	335
336	337	338	339	340
341	342	343	344	345
346	347	348	349	350
351	352	353	354	355
356	357	358	359	360
361	362	363	364	365
366	367	368	369	370
371	372	373	374	375
376	377	378	379	380
381	382	383	384	385
386	387	388	389	390
391	392	393	394	395
396	397	398	399	400