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# REPORT

OF THE

# HEALTH OF LIVERPOOL,

# DURING THE YEAR 1888,

WITH MAP, SHOWING THE LOCALITIES OF THE FATAL PREVALENCE OF FEVER.

# BY J. STOPFORD TAYLOR, M.D.,

MEDICAL OFFICER OF HEALTH FOR THE CITY AND PORT.



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# HEALTH OF LIVERPOOL

DURING THE YEAR 1888

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LIVERPOOL comprises an area of 5,210 acres, and an estimated population of 599,738, or 115 people per acre, being the most densely populated city in Great Britain.

The density of a population is one of the chief factors in its death rate, but Liverpool affords a striking example of what can be effected by good sanitary work in overcoming, or at least mitigating, the evils and disadvantages of crowding a large number of people on a limited area.

The gradual reduction of the death rate has proceeded with the steady progress of sanitary measures, and has now reached the low rate of 20.3 per 1,000 of the population, only one-half it was forty years ago when the Health Committee was first constituted.

The number of deaths during the year was 12,159, of which 178 were of residents outside the city, being 1,847 less than in 1887, and 2,400 below the average of the last ten years, notwithstanding the increase of population. Had the death rate of forty years ago prevailed last year the number of deaths would have been 24,318; but allowing one-half of the benefit to have been derived from the improved condition of the working classes by regular employment and the alterations effected in the town to meet business requirements, there would have still been a death rate of 30 per 1,000 and 18,238 persons would have died. As this number was not reached by 6,079, we may at least take this as the number of lives saved by sanitary measures, and estimating the value of each life at £159 on Dr. Farr's scale, the money value saved during the year was £966,561. To this might be added the saving in the cost of sickness, funerals, loss of work, and increased pauperism.

The number of deaths and rate per 1,000 for the year were in-

First quarter 3,334, equal to 22.2 per 1,000.

Second ,. 2,703, ,, 18.0 ,, Third ,. 2,797 ,, 18.7 ,, Fourth ,, 3,325 ,, 22.2 ,,

The rate for the whole year was 20.3, being 3.3 per 1,000 lower than the previous year (1887), which was the lowest ever recorded up to that date, and 5.6 less than the average rate for the last ten years (1878 to 1887), and 8.7 less than the average rate of the previous ten years (1868 to 1877).

#### BIRTH RATE.

The number of births during the year was 17,777, being 637 less than in the previous year, and giving a birth rate of 29.6 per 1,000 of the population, being the lowest rate ever recorded since the establishment of registration.

The natural increase of the population by excess of births over deaths was 5,618, being 1,206 less than the estimated increase, calculated on the rate of increase between the census years 1871 and 1881. The difference, however, may be accounted for by the migration of country people into the city, and the settlement of foreigners for business purposes. In addition to the large floating population which frequents this port, 240,566 emigrants passed through the city, and generally spent one or more nights in the lodging-houses prior to embarking, and contributed to the rate of sickness and mortality.

### HOSPITAL ACCOMMODATION.

There is still a great want of hospital accommodation for infectious cases, and much difficulty has been experienced in consequence. The new hospital in Grafton Street has been opened with provision for 70 patients in two pavilions of four wards each, and an isolation block for doubtful cases. The alterations at Netherfield Road Hospital have now

been completed, and it is capable of receiving 80 patients. Parkhill Hospital is kept in reserve for Smallpox cases. To meet the requirements of a population of 600,000, there are only 150 beds for infectious cases, exclusive of Smallpox; and, to make matters still worse, the Select Vestry have decided to close their hospital with 160 beds, and not to admit any more patients sent by the Sanitary Authority.

If Liverpool is to be protected from recurring epidemics, proper and and sufficient accommodation must be provided for the reception of the earliest cases of Zymotic disease, and not wait for its dissemination before any action is taken, when the work will not be satisfactorily done, and much money will be wasted in the hurry and confusion of a panic.

#### ZYMOTIC DISEASE.

The deaths from Zymotic causes amounted to 1,796, being 876 fewer than in 1887, and 1,037 below the average of the last ten years.

The deaths from the seven principal Zymotic diseases were in every instance lower than in 1887, and also below the average of the preceding ten years.

Diseases.	Deaths during 1888.	Deaths during 1887.	Average for preceding ten years.
Smallpox	1	 1	 25
Measles	331	 661	 523
Scarlatina	187	 321	 433
Whooping Cough	313	 429	 408
Diarrhœa	431	 619	 669
Diphtheria	66	 95	 80
Fever	161	 194	 308

#### SMALLPOX.

There were not many cases of this disease, and fortunately the facilities afforded for isolating them at Parkhill Hospital prevented the disease from spreading in the city.

The great and fatal prevalence of the disease in Sheffield and Preston, and the frequent outbreaks in many Lancashire towns, necessitated much watchfulness on the part of the Sanitary Staff, owing to the constant and rapid intercourse between the different communities. This anxiety was much increased by the importation of cases by ships from Spain where the disease was very prevalent, and the passage being a short one the disease was not developed in some instances until after the arrival of the vessels in port.

During the year 46 cases of suspected Smallpox were reported, of which 33 were removed to hospital and 13 not removed. 27 of the cases turned out to be Smallpox, 14 Chicken Pox, one Measles, one Scarlatina, and three not infectious disease. Of the 27 cases, seven were traced to importation from Sheffield, one from Preston, four from tramps, eight from ships, and seven were supposed to have occurred from associating with seamen who came from infected ships.

#### MEASLES.

In the first seven months of the year comparatively few cases were notified, but in September the number reported was 174, in October 782, and in November 1,371, when the disease got beyond all control of the Sanitary Staff and became epidemic, gradually spreading from Kirkdale and Everton, where the first serious outbreak occurred, to other parts of the city. At the commencement of October nearly one-half of the infants attending Walton Lane Board Schools were absent from this disease, and the Management Committee, at the request of the Medical Officer of Health, closed the schools for a month. From the very contagious character of the disease there will always be a difficulty in dealing with it; yet in these days of compulsory attendance, when children from infected homes are being constantly sent to school without thought or care as to the possibility of conveying infection, it is quite time that notification of infectious diseases should be compulsory, and proper hospital accommodation provided to obviate the large amount of suffering inflicted upon children and the great waste of human life.

During the first three quarters of the year there were only 41 deaths,

but during the last quarter terminating in December, there were 290 deaths. The total number of cases coming under the notice of the Medical Officer was 3,818, and the rate of mortality 8.6 per cent.

#### SCARLATINA.

The number of cases reported was 1,316, of which 187 were deaths, being 134 fewer than in the preceding year, and 246 less than the average of the last ten years. The rate of mortality of reported cases was 14.2 per cent.

#### DIARRHŒA.

The number of deaths from this disease was 431, more than would have been expected from the low temperature, and heavy rainfall, which occurred during the months of July and August, the period when Infantile Diarrhæa is most prevalent. The mean average temperature of July was 4.0, and August 2.6 below the mean average of 20 years, and the amount of rain which fell during those months was 7,797 inches, nearly one-third of the total rainfall of the whole year.

#### FEVER.

Under the designation of Fever are included all deaths from Typhus, Typhoid, continued Fevers, and Febricula. The total number of deaths registered during the year was 161, the lowest number ever recorded, being 33 fewer than in the previous year, and 147 less than the average of the preceding ten years.

The decrease has taken principally in Typhus; the number of deaths from Typhoid, with slight variations, remaining about the same, though it is probable that, owing to more correct diagnosis, cases of Typhoid are not so frequently registered Typhus as formerly.

The supposition that the water-closet system had given rise to an increase in Typhoid is not borne out by the returns, commencing in the year 1871, when there were more than 30,000 privies within the City, and terminating in 1888, when all of them, excepting two or three hundred,

situated a considerable distance from dwelling-houses, have been converted into water-closets. Under the term Typhoid are included all deaths registered as occurring from Typhoid, Gastric, and Enteric Fevers, and under Typhus all deaths registered from Typhus, Fever, continued Fever and Febricula.

		1871.			
Deaths from	Typhoid				133
,, ,,	Typhus				568
	Total Fever	Deaths			701
		1876.			
Deaths from	Typhoid				104
,, ,,	Typhus	***			294
	Total Fever	Deaths	• • • •	•••	398
		1881.			
Deaths from	Typhoid				120
,, ,,	Typhus				172
					_
	Total Fever	Deaths			292
		1886.			
Deaths from	Typhoid				140
,, ,,	Typhus				58
					-
	Total Fever	Deaths			198
		1888.			
Deaths from	Typhoid	A 100			125
,, ,,	Typhus				36
	- Hearin	and the same of th			
	Total Fever	Deaths			161

The total number of fever cases coming under the notice of the Medical Officer was 679, of which 161 died, giving a mortality rate of 23.7 per cent.

The following table shows the death rate per 1,000 of the population, and the number of deaths from Fever and Diarrhœa during the last twenty-three years.

Year.	Death Rate per 1,000 of Population.	Deaths from Diarrhœa.	Deaths from Fever.	Deaths from Relapsing Fever
1866	41.7	1,145	1,523	
1867	29.4	796	656	
1868	29.1	1,108	841	
1869	28.9	1,001	783	
1870	31.1	1.151	572	355
1871	35.1	1,127	701	207
1872	27:0	998	451	25
1873	25.8	906	335	
1874	31.9	879	449	
1875	27.5	842	490	***
1876	27.5	694	398	***
1877	26.4	605	382	
1878	29.3	979	375	******
1879	26.9	402	248	
1880	27.2	1,028	256	***
1881	26.6	508	292	***
1882	26.4	587	593	***
1883	26.6	518	540	
1884	25.1	841	205	
1885	23.7	422	182	
	23.7			
1886	23.6	781	198	
1887		619	194	
1888	20.3	431	161	

#### CANCER.

The following table will illustrate the apparent increase of deaths from malignant disease, whether it may arise from more correct diagnosis, or increased prevalence, our present returns cannot satisfactorily determine; but, however produced, there is, no doubt, a larger number of deaths from this disease registered than formerly. It is very desirable that the part of the body affected by it should be always specified in the medical certificate of the cause of death, so that comparative tables might be prepared to assist in the elucidation of the question. The statement that the patient died from Cancer or malignant disease is not sufficient, it is requisite to state the part first affected, should it be the tongue, breast, stomach, or other organ:—

Year.	Male.	Female.	Total.	Per Centage of Deaths from Cancer to Total Deaths.	Death Rate per 1,000 of the Population from Cancer.
1869	42	124	166	1.1	0.34
1874	63	146	209	1.3	0.40
1879	86	175	261	1.8	0.48
1884	100	168	263	1.8	0.45
1888	111	206	317	2.6	0.52

During the fifty-two weeks of the year 1888 (terminating on Saturday, December 29th, 1888), the Returns of the Local Registrars recorded 17,777 births and 12,159 deaths within the City; the numbers for the corresponding period of the previous year, 1887, were 18,414 births and 14,006 deaths.

Of the births 9,000 were males and 8,777 were females, making the total Birth-rate of the City equal to 29.6 per 1,000; the average of the previous ten years being 35.8.

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

#### BIRTHS.

		1st Quarter.		2nd Quarter.		d ter.	4th Quarter.		An- nual.
DISTRICTS AND WARDS.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Births
Scotland	297	302	280	281	265	263	261	228	2177
Vauxhall	45	38	35	39	37	37	33	39	303
St. Paul's and Exchange	50	67	61	53	45	51	56	39	422
St. Anne's and Lime Street	107	113	105	105	98	111	81	76	796
Castle Street and St. Peter's	13	10	12	13	7	8	12	14	89
Pitt Street and Gt. George.	57	60	51	61	51	61	53	44	438
Rodney St. & Abercromby	141	159	153	157	137	143	150	165	1205
Everton	519	491	514	490	482	479	491	476	3942
Kirkdale	300	325	312	278	262	268	311	243	2299
West Derby	349	318	316	299	315	310	321	291	2519
The Toxteths	475	438	455	438	426	439	459	457	3587
City	2353	2321	2294	2214	2125	2170	2228	2072	17777

#### DEATHS.

Of the 12,159 deaths 6,190 were of males, and 5,969 of females.

The Death-rate of the City was equal to 20·3 per 1,000. The average of the previous ten years was 25·9 per 1,000.

The following table shows the actual number of deaths registered in the City previous to the transference to the districts from whence the patients were removed, of the deaths occurring in the Workhouses and Hospitals.

The deaths occurred in the following districts :--

na continue sea to	100000000000000000000000000000000000000	Quarter.		nd rter.	100000	rd rter.		th rter.	Annual
DISTRICTS.	Ma e.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Male.	Fe- male.	Deaths.
									MA
Scotland	185	186	154	116	164	175	202	194	1376
Vauxhall	21	23	19	25	34	33	36	32	223
St. Paul's and Exchange St. Anne's and Lime	40	55	30	35	43	42	36	51	332
Street	74	85	58	55	74	78	90	85	599
Castle Street and St.						-			
Peter's	10	6	11	9	9	8	9	14	76
Pitt Street and Great George	43	50	44	48	44	32	40	29	330
Rodney Street and Aber-		-				-	li ve		
eromby	61	95	81	81	58	74	58	63	571
Everton	239	270	215	223	258	238	328	321	2092
Kirkdale	144	159	140	142	150	152	180	147	1214
West Derby	170	165	128	142	123	149	190	182	1249
The Toxteths	305	322	226	233	214	214	265	247	2026
Workhouses and Hospi-							1000		100000
tals	355	271	299	189	249	182	284	242	2071
a la militaria		1005							
City	1647	1687	1405	1298	1420	1377	1718	1607	12159

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 1,810 of the deaths in these establishments under the Wards from whence the patients were removed, viz.:—358 under Scotland Ward, 81 under Vauxhall Ward, 56 under St. Paul's Ward, 75 under Exchange Ward, 252 under St. Anne's Ward, 58 under Lime Street Ward, 2 under Castle Street Ward, 16 under St. Peter's Ward, 73 under Pitt Street Ward, 87 under Great George's Ward, 57 under Rodney Street Ward, 79 under Abercromby Ward, 216 under Everton, 71 under Kirkdale, 136 under West Derby Ward, 96 under North Toxteth Ward, and 97 under South Toxteth Ward. This will leave unclassified 83 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 178 who were residents outside the city.

The results of the alterations occasioned by this re-arrangement of the deaths in the wards and districts will be shown in the following table, from which a calculated rate of mortality per 1,000 of the estimated inhabitants has been made. The rates are calculated upon a population increasing or decreasing in the same ratio as between 1871 and 1881, and may not be correct as regards the Wards, but will approximate the true rate of the whole City.

		W	RDS.					An	nual.
		W.A	KDS.					Deaths.	Rate per 1000
Scotland								1746	27:3
Vauxhall								306	24.0
St. Paul's								215	21.1
Exchange								251	35.1
St. Anne's								683	28.6
Lime Street				7.				233	24.6
Castle Street								12	12.4
St. Peter's								83	17.8
Pitt Street								194	28.5
Great George								299	33.5
Rodney Street								333	20.3
Abercromby								379	17.3
Everton	2.5							2324	19.3
Kirkdale		***	- * *		**	170		1294	15.6
West Derby		* 1	* * *	* '			1.1	1395	17:4
North Toxteth				1.1		-	-	1213	14.4
South Toxteth	1.1					**	20		
			City.	* 1				1021	22.8
Hospitals (Reside	ences (	outside	City)	* *	5.5	1.7		178	-
								12159	20.3

The following table shows the natural increase or decrease of population, and the number of births and deaths during the year 1888, in the several districts of the City:—

DISTRICTS AND WARDS	S.		Births.	Deaths.	Increase.	Decrease
Scotland			2177	1746	431	
Vauxhall		 	303	306		3
St. Paul's and Exchange		 	422	466		44
St. Anne's and Lime Street			796	916		120
Castle Street and St. Peter's		 	89	95		6
Pitt Street and Gt. George			438	493		55
Rodney Street and Abercromby		 	1205	712	493	
Everton			3942	2324	1618	
Kirkdale			2299	1294	1005	
West Dorby			2519	1395	1124	
The Toxteths			3587	2234	1353	
City			17777	11981	5796	
Hospitals (Residences outside City	)			178		
Total.			17777	12159	5618	

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

TOWNS	us od to	Estimated Popula- tion in th middle of the yea 1888.	52 Weeks, ending	Deaths in 52 Weeks, ending 29th Dec., 1888.	1.000 of P	Rate to opulation.	Population on Acre.
		1000.			Dirtins.	Deaths.	
dayland							
London		. 4282921	131080	78848	30.7	18.5	57:3
Brighton	2.7	119983	2790	1928	23.3	16:1	47.7
Portsmouth		. 139575	4976	2610	35.8	18.8	32:3
Norwich	3.7	93675	3233	1883	34.6	20.2	12.5
Plymouth	4.4	77674	2451	1729	31.7	22:3	52.9
Bristol		226510	6614	3816	29.3	16.9	48.9
Wolverhampton	* *	81691	2680	1684	32.9	20.7	24.1
Birmingham		447912		7954	30.8	17.8	53.3
Leicester		146790	4786	2680	32.7	18.3	45.9
Nottingham	120	230921	6879	3976	29.9	17:3	23.2
Derby		96241	2825	1561	29.5	16.3	27.9
Birkenhead	9.4	. 100093	3060	1776	30.7	17.8	26.0
Bolton		113506	3700	2444	32.7	21.6	47.2
Manchester		378164	13318	9834	35.3	26.1	63.8
Salford		226336	7136	4770	31.6	21.1	43.8
Oldham		138220	4183	2800	30.4	20.3	29.2
Blackburn	91.0	119039	4046	2837	34.1	23.9	17:1
Preston		103234	3861	2460	37.5	23.9	27.7
Huddersfield		91419	2243	1687	24.6	18.5	8.7
Halifax		80138	2282	1546	28.6	19.4	21.3
Bradford		229721	6267	3924	27.4	17:1	21.3
Leeds		351210	11407	7209	32.6	20.6	16.3
Sheffield		321711	9861	6586	30.8	20.5	16.4
Hull		202359	6284	3313	31.2	16.4	25.6
Sunderland	4.4	131919	4566	2376	34.7	18.1	43.5
Newcastle-on-Tyr	ne	159003	6010	3261	37.9	20.6	29.6
Cardiff		108570	4412	2214	40.8	20.5	14.7
Edinburgh	100	262733	7458	4709	28.5	18.0	44.5
Glasgow	100	526088	19213	11594	36.6	22.1	86.1
Dublin		352082	9884	8894	28.1	25.3	14:3
LIVERPOOL		599738	17777	12159	29.6	20.3	115-1

The deaths of Infants below five years of age amounted to 5,070, and thus comprised 41.7 per cent. of the whole deaths; the average number for the preceding ten years was 6,646, and the average percentage 45.6. The

deaths of Infants below one year of age amounted to 2,981, or 16.8 per cent. of all the children born within the city, died before attaining the age of twelve months.

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

WARD	10		Quar	ters.	Annual.	Per Cent- age of Deaths under 5	Per Centage of Deaths under 1	
WARL	75.	March.	June.	Sept.	Dec.	Annual.	years to Total Deaths.	year to Total Births.
	Total Deaths Below 5 years	371 157	270 127	339 186	396 226	1376 696	} 50.6	18.2
	Total Deaths Below 5 years	44 14	44 16	67 46	68 33	223 109	} 48.9	20.5
St. Paul's	Total Deaths Below 5 years	45 19	38 14	33 10	42 21	158 64	} 40.5	20.9
Exchange {	Total Deaths Below 5 years	50 17	27	52 25	45 22	174 72	} 41.4	)
St. Anne's	Total Deaths Below 5 years	117 39	73 32	113 73	123 74	426 217	} 50.9	22.1
Lime Street {	Total Deaths Below 5 years	42 17	40 10	39 20	52 27	173 74	} 42.2	)
Castle Street {	Total Deaths Below 5 years	2	5	2	1	10 3	30.0	18.0
St. Peters	Total Deaths Below 5 years	14	15 5	15 6	22 9	66 24	} 36.4	100
Pitt Street	Total Deaths Below 5 years	41 12	33 18	29 16	17 8	120 54	} 45.0	20.1
Great George {	Total Deaths Below 5 years	52 20	59 22	47 23	52 17	210 82	} 39.0	500
Rodney Street (	Total Deaths Below 5 years	73 15	77 28	60 21	64 21	274 85	} 31.0	10.7
Abercromby	Total Deaths Below 5 years	83 28	85 26	$\frac{72}{31}$	57 26	297 109	} 36.7	)
	Total Deaths Below 5 years	509 193	438 207	496 276	649 399	2092 1075	} 51.4	15:6
Kirkdale {	Total Deaths Below 5 years	303 136	282 127	302 170	327 178	611	} 50.3	16.6
West Derby {	Total Deaths Below 5 years	335 133	270 119	272 151	372 211	1249 614	} 49.2	14.1
North Toxteth	Total Deaths Below 5 years	329 117	260 102	242 119	278 118	1109 456	} 41.1	1,50
South Toxteth {	Total Deaths Below 5 years	298 163	199	186 98	234 138	917 501	} 54.6	15.6
Workhouses { and Hospitals. (	Total Deaths Below 5 years	626 57	488 41	431 51	526 72	2071 224	} 10.8	
	Total Deaths Below 5 years	3334 1142	2703 1004	2797 1323	3325 1601	12159 5070	} 41.7	16.8

			BIL 171	Quar	Annual.			
	AGES.		March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of popu lation.
Deaths	below 1 year of age	 	694	588	905	794	2981	5.0
,,	between 1 year and 5	 	448	416	418	807	2089	3.5
,,	,, 5 ,, 20	 	262	217	176	235	890	1.5
,,	,, 20 ,, 60	 	1242	1012	869	994	4117	6.8
,,	above 60 years	 	687	470	428	495	2080	3.5
,,	at ages unknown	 	1		1		2	
,,	at all ages	 	3334	2703	2797	3325	12159	20.3

The Registrars' Returns show that there were 13 deaths (9 of women and 4 of men) at the age of 90 and upwards, viz., 4 females and 1 male at 90, 1 male at 91, 3 females at 92, 1 female at 93, 1 female at 95, and 2 males at 97.

CLASSES.					QUAR	TERS.		YEAR
Chasars.				March.	June.	Sept.	Dec.	1888.
1. Zymotic Diseases				328	293	529	646	1796
0 Di / II C				89	97	98	118	402
3. Tubercular Diseases				453	438	348	374	1613
4. Diseases of Brain, &c				445	334	361	386	1526
E CITAL C.				210	189	177	180	756
6. ,, of Lungs, &c				984	629	396	786	2795
F CC1 1 0				160	159	220	145	684
8. ,, of Kidneys, &c.				74	72	51	81	278
9. Childbirth, Diseases of Uterus,	&c.			24	35	20	30	109
<ol><li>Rheumatism, Diseases of the J</li></ol>	oints	s, &c.		12	10	11	2	35
<ol> <li>Diseases of the Skin, Cellular '</li> </ol>	Tissu	ie, &c.		15	11	13	16	55
12. Malformations				12	8	9	8	37
13. Premature Birth				67	58	59	71	255
14. Atrophy and Debility				160	136	237	188	721
15. Old Age				119	79	93	98	389
					1			1
				164	143	168	186	661
Causes not specified			1.	18	11	7	10	46
All Causes				3334	2703	2797	3325	12159
Total Zymotics				328	293	529	646	1796
Smallpox				1				]
Maria				9	7	25	290	331
				53	32	26	76	187
				89	101	52	71	313
				17	34	306	74	431
				8	6	7	11	32
				30	22	39	34	125
Other on Deschaffel				2	1		1	4

#### ZYMOTICS.

This class of diseases occasioned 1,796 deaths during the year 1888, and accounted for 14.8 per cent. of the total mortality within the City during the same period. The average number of deaths from these diseases for the preceding ten years was 2,833, and the percentage death rate for 1888 was 4.6 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:—

The same of the							Z	YMOT	ICS.	
WA	RDS,	&c.			Deaths from all Causes.		Qua	rters.	9 10	Per Centage of Zymotic Deaths to
						March.	June.	Sept.	Dec.	Deaths from all Causes.
Scotland					1376	26	38	78	77	15.9
Vauxhall .					223	5	1	5	5	7.2
St. Paul's		* *			158	2	4	4	1	7.0
Exchange					174	6	3	10	4	13.2
St. Anne's					426	3	4	22	34	14.8
Lime Street	4.4		* * *		173	- 3	1	10	9	13:3
Castle Street					10					
St. Peter's	* *				66		3	4	4	16.7
Pitt Street		2.0			120	3	5	6	3	14.2
Great George					210	5	7	11	6	13.8
Rodney Street				0.0	274	4	7	8	10	10.6
Abercromby					297	6	6	14	8	11.4
Liverpool Workho	use H	lospita	١		1076	14	16	7	14	4.7
Royal Infirmary					110	2	1	1		3.6
Children's Infirma	ry				79	2	3	2	5	15-2
Infants' Hospital					1					
Lying-in Hospital			B. B.		4					
Hahnemann Hosp	ital				13					
Consumption Hos	pital				14					
North Hospital			1000		153	5		1	1	4.6
Hospital for Wor	nen				14					
Stanley Hospital					63	2				3.2
Royal South Hosp	ital				212	3	2	1	3	4.2
West Derby Unio		pital			247	1	1	2	2	2.4
City Hospital Nor			eld Ro	ad	23	6		1	14	91.3
City Hospital Sou					9				8	88.9
City Hospital, Pa					53	12	6	12	5	66.0
Everton					2092	49	54	91	171	17.4
Kirkdale					1214	34	26	86	62	17.1
West Derby					1249	37	37	60	92	18.1
North Toxteth					1109	38	34	55	58	16.7
South Toxteth					917	60	34	38	50	19.8
City	**				12159	328	293	529	646	14.8

#### FEVER.

Fever accounted for 161 deaths within the City of Liverpool, being a decrease of 33 on the previous year. (The average number of deaths for the preceding ten years was 308.) The rate of its mortality was equal to 0.3 per 1,000 of the estimated population. Its percentage rate relatively to deaths from all causes was 1.2 during the first, 1.1 during the second, 1.6 during the third, and 1.4 during the fourth quarter of the year. Its annual rate relatively to deaths from all causes was 1.3 per cent., and relatively to deaths from zymotic causes 9.0 per cent. Its deaths included 88 males and 73 females; 49 persons below the age of 15; 54 between the ages of 15 and 30; and 58 above the age of 30.

Under the term Fever every form of continued fever is included; but the registers of deaths attribute 3 cases to gastric fever, 88 to typhoid fever, 34 to enteric fever, 32 to typhus, 2 to fever, and under that of febricula 2 deaths.

The following tables are in themselves sufficiently explanatory. The first compares the averages of deaths from fever during the preceding ten years with those during 1888; 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.

				Exact Average of Fever	Deatl	as from F Year	ever durin 1888.	g the
W	ARI	os.		Deaths for Pre- ceding Ten Years.	Typhus.	Typhoid.	Other, or Doubtful.	Total.
Scotland				 25	1	13		14
Vauxhall				 6	1	1		2
St. Paul's				 5	1			1
Exchange				 4	1	4		5
St. Anne's				9		2	1	3
Lime Street				 2		1		1
Castle Street				 				
St. Peter's				 1				
Pitt Street				 1		2	**	2
Great George				 2	1	2		3
Rodney Street				 3		1		1
Abercromby				 4		2		2
Everton				 31	4	21	2	27
Kirkdale				 19		12	i	13
West Derby				 15	2	10		12
North Toxteth				 16		10		10
South Toxteth			.,	 17		4		4
Hospital Death	18			 148	21	40		61
	Tota	al		 308	32	125	4	161

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

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

## DEATHS FROM FEVER.

	-				Q	UAR	TER	s.						v	EAR	
WARDS.		Marc	h.	J	une.			Sept.			Dec.					
	Typhus.	Typhoid.	Other, or Doubtful.	Typhus.	Typhoid.	Other, or Doubtful.	Typhus.	Typhoid.	Doubtful.	Typhus.	Typhoid.	Other, or Doubtful.	Typhus.	Typhoid.	Other, or Doubtful.	TOTAL
Scotland {Below 5 years Above 5 years					1		· · · · · · · · · · · · · · · · · · ·	2 5			1		ì	5 8		5 9
Vauxhall {Below 5 years Above 5 years													i	1		2
St. Paul's {Below 5 years Above 5 years		1000		1				• •			::		i			ï
Exchange   Below 5 years   Above 5 years							1	3					1	4		1 4
St. Anne's {Below 5 years Above 5 years						1					2			2	1	3
Lime Street {Below 5 years Above 5 years											1			· i		i
Castle Street {Below 5 years Above 5 years																
St. Peter's {Below 5 years Above 5 years																
Pitt Street {Below 5 years Above 5 years			,.										:.	2		
Great George {Below 5 years Above 5 years								1			1		· · · · · · · · · · · · · · · · · · ·	2		2 3
Rodney Street {Below 5 years Above 5 years											1					
Abercromby {Below 5 years Above 5 years}																1
(Below 5 years			1		1			1				i		2		2 2
(Below 5 years				1	5			5		2	1		4	21		25
(Below 5 years					3			4			2			11	1	12
North Toytoth (Below 5 years		2			3			4			2		2	9		11
Below 5 years								2			5			10	::	10
Workhouses   Below 5 years					1			ii			1			1	::	1
and Hospitals (Above 5 years	-	4 12	-	4	6		5	11		8	10		21	39		60
City {Below 5 years Above 5 years		8 29		6	2 20	i	1 6	2 37		ii	31	1	1 31	8 117	2 2	11 150

List of Streets in the City wherein Deaths from Typhus occurred during the Year 1888.

C		Hot	SES.	Total.	t rednet ode sussen	009	Hot	SES.	al.
Streets.		Front.	Court.	Tot	STREETS.		Front.	Court.	Total.
Banastre		1	1	2	Luther		1		1
Bembridge				1	Maiden's Green, H	ligh-		1	1
Bent		2		2	Penton		1		1
Dryden			. 2	2	Prince Edwin		1		1
Duckinfield			1	1	Rhiwlas		1		1
Fitzroy		1		1	Richmond Fair		1		1
Freemason's Row	- 7	1		1	Richmond Row		1		1
Granton Road		1		1	Silvester			2	2
Great George		1		1	Smithdown Lane			2	2
Hopwood		1		1	Stonewall				1
Idris		1		1	Sumner				1
Jefferson		1		1	Trueman				1
Kew		1		1	Attenian		1		1
Lake		1		1					

List of Streets in the City wherein Two or more Deaths from Typhoid Fever occurred during the Year 1888.

		Hot	SES.	al.			Но	USES.	10
STREE	TS.	Front.	Court.	Total.	STREET	s.	Front	Court.	Total
Burnet		 1	1	2	Rosalind		. 2	0.44	2
Edinburgh		 2		2	Titchfield		. 2		2
Hornby		 	4	4	Upper Stanho	pe .	. 2		2
Newsham		 	2	2	Upper Warwi	ek .	. 2		2
Pugin		 2		2				- 1	

Occupations of Persons who (either themselves or members of their family) have died from Fever in the Workhouses or Hospitals of the City, tabulated into Wards from whence they came, during the Year 1888.

#### LIVERPOOL PARISH WORKHOUSE.

00	OITE	ATION			$W_A$	RDS.	Total.
00	COP	41102			Scotland.	Exchange.	TOTAL.
							- Alge
Labourers				**	4	1	5
Servants			A. Colon		1		1
Males					2		2
Females					3	1	4
Total					5	1	6

### CITY HOSPITAL, NORTH (NETHERFIELD ROAD).

			18		1	WARDS			
OCCUPATI	ONS.			Scotland.	St. Anne's.	Everton.	West Derby.	Residence Unknown.	TOTAL.
Labourers				2	·i	i	1		3 3
Servants Unknown		11		:::	i	*:		1	1
Males Females	::	::		3	1 1	ï	1	i	2 6
Total				3	2	1	1	1	8

## CITY HOSPITAL (PARK HILL).

									V	VA	RDS	š.					
	OCCU	PATI	ONS.		Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Pitt Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	TOTAL.
Labourers Tradesmer Servants Seamen				·:·	 1 1	2	1	1	1	1	1 1	4 5	2	3	1	3 1 1	22 8 2 2
	fales emales	::			 2 2	2	1	i	1	i	2	7 2	1 2	1 2	2	2 3	20
	7	Cotal			 4	2	1	1	1	1	2	9	3	3	2	5	34

## CITY HOSPITAL SOUTH (GRAFTON STREET).

				WA	RDS.	
CUI	PATIO	NS.		Scotland.	North Toxteth.	Тотаь.
			 	1		1
	**		 		1	1
			 	1		1
			 		1	1
			 	1	1	2
			 		Scotland.  Scotland.	Scotland. North Toxteth.

## \*OTHER INSTITUTIONS.

				WARD	s.		se .	
OCCUPATION	s.	Abercromby.	Everton.	Kirkdale,	West Derby.	North Toxteth.	Residences outside the City.	TOTAL.
Labourers Tradesmen		 	1	i	2		2	4 4
Mercantile		 1					1 1	1 1 1
Males Females		 i	i	i	2	1 1	4	7 4
Total		 1	1	1	2	2	4	11

*ROYAL INFIRMARY	 2
CHILDREN'S INFIRMARY	 3
NORTHERN HOSPITAL	 1
STANLEY HOSPITAL	 1
ROYAL SOUTHERN HOSPITAL	 3
WEST DERBY UNION HOSPITAL (MILL ROAD)	 1

Occupations of Persons who (either themselves or members of their family) have died from Fever in the different Wards of the City during the Year 1888. (Not included in the foregoing Tables of Deaths in Workhouses and Hospitals.)

										W.	ARI	DS.								
OCCUPAT	IONS	5.	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.	TOTAL.
Labourers Tradesmen			 10	2	1	2 3	3	i			· i	1 2			5 15	7 3	5 7	4 2	1	36
Professions and Me	ereant	ile												1	1	1		1	1	1
Seamen			 1								1				3	2		2	2	11
Servants			 1																	1
Police Constables			 			٠.							.:	-	3			1		4
Unknown	2.5		 						1.53				1	1						2
Males			 7		1	5	2	1			1	2		1	14	6	7 5	7	2	56
Females			 7	2			1				1	1	1	1	13	7	5	3	2	44
Total			 14	2	1	5	3	1			2	3	1	2	27	13	12	10	4	100

#### SCARLATINA.

Scarlatina accounted during the year for 187 deaths. (The average number of deaths for the preceding ten years was 433). The rate of its mortality was equal to 0.3 per 1000 of the estimated population. Its rate relatively to deaths from all causes was 1.6 per cent. in the first quarter, 1.2 in the second, 0.9 in the third, and 2.3 in the fourth quarter of the year; its annual rate relatively to all deaths was 1.5 per cent., and relatively to deaths from zymotic causes 10.4 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1888; the second is a record of the streets of

the City wherein two or more deaths occurred from that disease.

and make le								Q	UAR	TER	s.				YEA	D
particle part	W	ARD	s.			Mai	rch.	Ju	ne.	Se	pt.	De	ec.		1. 15.0	к.
						M.	F.	M.	F.	M.	F.	М.	F.	M.	F.	Total.
Scotland			Below Above	5 ye	ears	1		i	2		1	1	2	3	6	6 3
Vauxhall			{Below Above	5 ye	ears		• • •		1					::	1	1
St. Paul's			{Below Above	5 ye	ears			1						1		1
Exchange			{Below Above	5 ye	ears	:						1		1		1
St. Anne's			{Below {Above	5 ye	ears							1	1	1	1	2
Lime Street			Below Above	5 ye	ears											
Castle Street			{Below (Above	5 ye	ears										::	::
St. Peter's			1 Below	5 ye	ears											
Pitt Street			Above Below	5 ye	ears					::			i		i	i
0 10			(Above	5 ye	ears		i		1						2	1 2 1
			(Above Below	5 ye	ears	::	i	i		:			1	i	1	2
Rodney Street	D		(Above	5 y	ears	1	::			i	1			1	1	1
Abercromby			(Above	5 ye	ears	i	1 2	6	1 2		i	5	3	12	2 8	2 2 20
Everton			Above Below	5 y	ears	3	3 2	i		1	1	1	2	6	6 3	6 9
Kirkdale		• •	Above	5 y	ears	1			1 2			1	i	2 7	1 5	3
West Derby			{Below Above	5 ye	ears	1	1	1	1	1	2 3	2 3	2 4	3	6	12 9
North Toxteth	1		Below Above	5 y	ears	1	1	2 3	1	1 2		4	4	10 10	8 5	18 15
South Toxteth	1		{Below Above	5 ye	ears	3	2		1	4	3 2	9	7 3	17 3	13	30
Workhouses a Hospitals	and		{Below (Above			2 6	2 5		1		·i	3	6	5	9	14 16
Trospicans						-		7.0								
City			{Below Above			17 12	12 12	13	11 4	8 2	10 6	24 10	26 16	62 28	59 38	121 66

List of Streets in the City wherein Two or more Deaths from Scarlatina occurred during the Year 1888.

	Ноц	ses.	al.		Hot	USES.	al
Streets.	Front	Court.	Total.	Streets.	Front.	Court.	Total
Back Grafton	 	2	2	Loxdale	 2		2
Beamish	 3		3	Nicholson	 2		2
Beaufort	 3		3	Northbrook	 2		2
Bedford	 2		2	Northumberland	 4	1	5
Binney	 2		2	Penrith	 2		2
Blair		3	3	Rectory	 2		2
Burlington	 	3	3	Roache	 2		2
Calder	 2		2	Seacome	 2		2
Cantsfield	 2		2	Tavistock	3		3
Cartwright Place	 	2	2	Tees	 2		2
Combermere	 1	2	3	Upper Frederick	 2		2
Copperfield	2		2	Walnut	 4		4
Cromwell	 2		2	Wolfe	 5		5
Gelling	 2		2			7	
Geraint :	 2		2				

#### MEASLES.

Measles occasioned 331 deaths. (The average number of deaths for the preceding ten years was 523.) Its percentage death-rate relatively to deaths from all causes was 0.3 in the first quarter of the year, 0.3 in the second, 0.9 in the third, and 8.7 in the fourth. Its annual percentage rate relatively to deaths from all causes was 2.7, and relatively to deaths from Zymotic causes 18.4.

				Q	UAR	TER	s.				YEA	n
w	ARDS.	Mai	reh.	Ju	ne.	Se	pt.	D	ec.		k EA	к.
		M.	F.	М.	F.	М.	F.	M.	F.	M.	F.	Tota
*	(Polom 5 weeks					0		07	90	90	20	40
Scotland	Below 5 years				**	2		27	20	29	20	49
Vauxhall .	(Below 5 years			1				1	1	î	î	3
vauxnan	Above 5 years						14					
St. Paul's	Below 5 years			11		* 4	100					
2-1	(Above 5 years ) Below 5 years											
Exchange	· Above 5 years											
t. Anne's	(Below 5 years							12	8	12	8	20
W IIIIIO 5	Above 5 years							1		1		
ime Street	Below 5 years Above 5 years						11	5	1	5	1	(
1 01	(Below 5 years											
lastle Street	Above 5 years					. ,	. ,					
t. Peter's	(Below 5 years							1	1	1	1	:
	Above 5 years		0.0				F 3					
Pitt Street	Below 5 years							* *			* *	
	(Below 5 years			2						2	::	
dreat George	Above 5 years											
Rodney Street	Below 5 years	. ·					1	1	1	1	2	:
	Above b years								2	1		
bercromby	Below 5 years			* *		**		1	2	1	2	3
Everton	Below 5 years			3		6	5	49	39	58	44	102
verton	. Above 5 years							8	7	8	7	18
Kirkdale	Below 5 years		2		1	3	3	21	11	24	17	41
	(Above 5 years Below 5 years	2	i					26	17	28	18	46
Vest Derby	Above 5 years	-	1		**	11		63		20	3	40
North Toxteth	(Below 5 years	2				2	1	3	2 2 1	7	3	10
oren Toxteen	Above 5 years			1					1	1	1	2
outh Toxteth	Below 5 years	1					1	4	2	5	2	2
	(1150ve o years					1	.1	1		1	1	-
Vorkhouses and	Below 5 years						1	2	4	2 2	5	7
Hospitals	. ( Above 5 years							2	_1	2	1	
	( D.1. *		-			20		1.50	100	100	101	00
ity	Below 5 years	5	3	5	1	13		153				300
	( Above b years		1	1			1	15	10	10	10	31

#### DIARRHŒA.

Diarrhœa accounted for 431 deaths. (The average number of deaths for the preceding ten years was 669). Its percentage death-rate relatively to deaths from all causes was 0.5 in the first quarter of the year, 1.3 in the second, 10.9 in the third, and 2.2 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 3.5, and relatively to deaths from Zymotic causes 24.0.

							Ç	CAI	RTEI	RS.				YEA	AR.
	W	ARDS			Ma	rch.	Ju	ne.	Se	ept.	D	ec.		2. 222	
					M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Tota
Scotland			Below 8	5 years	1	1	1	1	33		8	2	43	25	68
Scottand			Above	years		1				2				3	
Vauxhall			Below a	years					1	3			1	3	4
			(Relow !	years					i	1			i	1	2
St. Paul's			Above	years	1			::		1	::		1		
Exchange			(Below	years	1		1	2					5	2	7
Lixenange	* *		Above a	years		1				1				2	2
St. Anne's			Below a	years	1			2			3		13	10	23
			(Relow !	years years	i				3	3	i		5	3	8
Lime Street			Above	years	î	:.	::	::					1		1
Castle Street			Below &	years											
Castle Street			Above a	years											
St. Peter's			Below a	years				1	1	1		1	1	3	4
			(Relove 5	years					2	i			2	i	3
Pitt Street			Above	years							::	::			
Great George			Below 5	years	4.4				6	1	2		8	i	9
Great George			(Above a	years											
Rodney Street			Below 5	years				1.1	2	2	1	2	3	4	7
*			( Below 5	years	7.5				5		3		8	3	ii
Abercromby			Above	years		1				3				1	1
Everton			Below 5	years	2		5	2	28	22	13	4	48	28	76
Everton			Above 5	years			- 1	1	3		3	1	7	2	9
Kirkdale			Below 5	years			1		21	27	3	. 1	25	28	53
			(Below 5	years	1		2	3	15	10	3	3	21	24	2
West Derby			Above	years	-1			1		18		0	21	4	45
North Toxteth			Below 5	years	1	i	3	1	22	5	3	9	29	16	45
North Loxteth			Above 5	years					1	1			1	1	2
South Toxteth		1	Below 5	years		1			12	9	5	2		12	29
			(Above 5	years							1		1		1
Workhouses an	d		Below 5	years					1	1			1	1	2
YY '. '			Above 5	years	i	i	4	2		2			5	5	10
										-					
City			Below 5	years	-8	3				126	45				396
			Above 5	years	2	4	5	4	5	10	4	1	16	19	35

List of Streets in the City wherein Three or more Deaths from Diarrhœa occurred during the Year 1888.

		Hou	ISES.	ıl.		Hot	USES.	
STREETS	•	Front.	Court.	Total.	Streets.	Front.	Court.	Total.
Arkwright		 2	1	3	Mann	 1	3	4
Arlington		 4		4	Maynard	 	3	3
Beaufort		 4		4	Newsham	 	3	3
Beau		 1	3	4	Pakington	 3		3
Cemaes		 3		3	Robsart	 3		3
Flinders		 3		3	Smithdown Lane	2	1	3
Friar		 3		3	Snowdon	 3		3
Gerard		 4		4	Tulloch	 3		3
Great Homer		 1	3	4	Upper Parliament	 3		3
Hornby		 2	5	7		-10		
Kew		 1	2	3				N. YI

33 DIARRHŒA IN DATES OF DEATH, 1888.

-				RAI	N.		WIND.
DATE. June.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	Amount in Inches.	Hours.	Mean Daily Velocity in Miles	DIRECTION.
1		30.207	50.6	0.037	1.3	295	WNW
2		30.088	55.8	0.224	7.2	412	ESE
3		29.852	57 9	0.040	1.5	455	SW
4		30.048	50.8	0.018	1.8	302	WNW
. 5	2	30.139	19.6	0.087	3.1	481	E
6	'	29.926	52.2	0.048	2.5	399	E
7		29.757	57.9	0.096	4.5	255	SE
8		29.633	60.1	0.051	2.6	362	SE
9	1	29.621	54.7	0.040	1.2	421	W
10		30.005	54.1			579	W
11		29.991	60.9			237	SSE
12	1	29.638	53.3	0.060	2.3	499	SE & SW
13		29.758	52.6	0-106	3.0	220	SE & VAR
14		29.940	54.5	0.023	1.1	214	WNW & S
15		29.916	52.8	0.044	3.5	225	SSE & VAR
16	1	29.997	52.9			285	NNE
17		30.122	57-9			226	WNW & E
18	2	30.223	56.7			228	NE & NW
19	1	30.236	53.7			248	NW & E
20		30.090	56.3	0.020	1.7	293	NE & E
21		30.048	61.4	0.008	0.6	491	NE & E
22		30.128	55.3	0.187	1.6	407	E
23		30.235	61.5			341	ENE
24		30.076	63.8			385	E
25	1	30.014	70.8	0.129	1.7	265	Е
26	1	29.860	65.9			234	E&WNW
27	1	29.659	62.3	0.753	13.8	230	SE
28	1	29.535	55.1	0.032	3.8	522	wsw
29		29.543	53.2	0.028	3.1	403	wsw
30	/	29.768	53.9			319	WNW

DIARRHŒA IN DATES OF DEATH, 1888.

				RAI	N.		WIND.
July.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	1	30.001	57:5	0.233	6.2	169	WNW
2	2	29-658	56.0	0.756	10.1	505	SE
3	2	29:389	57:1	0.262	3.1	881	wsw
4	1	29.415	57.5			288	SW & W
5	3	29.454	58:2	0.149	1.3	243	ENE & VAR
6	2	29.738	51.1	0.074	2.6	325	ENE
7	3	29.991	59.3			197	ENE
8	1	30.059	57.4	0.006	0.5	223	WNW
9	1	29.908	54.5	0.067	1.4	552	SW & WNW
10	3	29.892	50.7	0.184	4.5	658	WNW
11		29.854	53.6			652	NW
12		30.061	54.1			524	NW & W
13	1	30.108	57.8			420	w
14	1	30.005	59.1	0.693	9.5	148	NW
15	1	29.795	54.1	0.107	6.1	289	ESE
16	2	29.482	57.6	0.025	1.6	338	E
17		29:455	58.5	0.532	12.2	188	ENE & NW
18	1,,	29.594	59.3			306	NE & E
19	2	29.853	60.7			123	NNE & VAR
20	1	29.841	61.2	0.065	1.9	204	SE
21	1	29.801	61.8	0.027	1.8	209	SW & S
22	3	29.701	61.7	0.066	2.1	350	SE & S
23	1	29.489	59.7	0.110	4.7	348	SW & SE
24	1	29.550	60.3	0.477	5.5	558	sw
25	3	29.523	61.5	0.061	1:7	423	SSE & SW
26	3	29.639	57.0	0.037	1.1	483	wsw
27	4	29.683	58.5	0.372	9.0	422	ESE
28	3	29.628	54.0	0.460	9.2	377	ENE
29	4	29.726	54.9	0.224	6.2	179	SE & E
30	4	29.587	52.6			416	ENE
31	2	29-848	54.3			117	NW & ENE

35 DIARRHŒA IN DATES OF DEATH, 1888.

		35		RAI	N.		WIND.	
DATE. August.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature,	Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	Direction.	and a
1	4	30.018	55.9		10.2.0	139	NW & VAR	
2	5	30:147	55.7	1.00		248	WNW	
3	2	30.175	59.1	0.005	0.5	337	sw	
4	2	29.968	55.7	0.437	8.3	393	wsw	
5	3	29-932	55.7	0.223	4.0	736	NW & W	
6	7	30-100	58.8	0.087	5.8	248	w	
7	3	30.041	63.6	0.087	2.9	489	SW & W	
8	3	30.060	60.8	-6		367	w	
9	4	30.054	63.5			178	SE & W	
10	8	30.000	67.0			212	WNW & SE	
11	1	30.033	62.6	0.006	0.7	170	E & VAR	
12	1	29.807	59.5	0:048	3:6	332	SE & SSW	**
13	2	29.753	55.7	0:060	1:7	877	wsw	
14	5	30.160	56.2	10.0		356	WNW	
15	5	30.153	54.9			199	S & VAR	
16	2	30.208	52.7	14.4	22	288	NE & E	
17	4	30.231	54.0			245	NE & N	
18	5	30.287	53.4	5.		128	NW & NE	
19	6	30.125	59.5	0:151	5.5	266	SE & S	
20	7	29.859	56.9	0.247	6.8	320	SE	
21	3	29.623	60.3	0.126	2:3	132	WSW & SE	
22	12	29.764	58.7	0.039	0.7	486	W	
23	6	29.723	60.8	0.160	6.4	372	SE & S	
24	5	29.532	57.9	0.164	4:1	316	SE & E	
25	4	29:669	59.7	0.059	1.7	230	SE & S	16
26	5	29.814	61.2	0.050	1.6	380	sw	
27	4	29.792	58-8	0.053	1.6	424	SW & W	72
28	4	29.667	53.7	0.716	12:3	345	S & VAR	8
29	1	29:760	53-2	0.084	3.5	603	wsw	9
30	7	29.929	55.4	0.008	0.8	437	wsw	or f
31	5	30.249	54.3			480	WNW	

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### DIARRHEA IN DATES OF DEATH, 1888.

		10W		RAI	N.		WIND.
DATE. Sept.	No. of Deaths.	Mean Reading of Barometer	Mean Tempe- rature.	Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	Direction.
1	2	30.213	58.6	0 144	5.9	382	sw
2	3	29 947	56.9	0 007	0.5	336	w
3	9	29.939	57.4	0.032	1.0	170	wsw
4	7	29.878	59.6	0.034	1.9	254	wsw
5	5	29.960	56.0	0.107	6.5	253	wsw
6	7	29.948	56.9	0.106	2.4	595	wsw
7	7	30.078	55.6	0.128	2.0	523	NW & W
8	2	30.433	52.4			209	ENE
9	4	30:358	50.6			282	NE & N
10	1	30.187	55.1			313	WNW & NE
11	4	30.281	54.4			452	w
12	4	30.445	55.8			194	wsw
13	2	30.444	58.6			325	SE & E
14		30.269	58.6			355	SE & E
15	1	30.124	57.6	0.018	1.7	363	SE
16	1	30.241	52.7			303	NW
17	4	30.290	55.1	1.0		145	WNW
18	7	30.315	55.0			126	WNW
19	4	30.327	56.7			300	Е
20	5	30.300	58.1			248	Е
21	4	30.274	54.6			156	SE & E
22	6	30.248	52.7			259	SE
23	4	30.171	54.2			252	SE
24	5	30.013	52.9			174	SE & NE
25	3	30.163	48.4		1	487	Е
26	4	30.294	52.3			305	ESE
27	7	30.190	55.8	0.041	1.0	383	SE & E
28	4	29.973	54.4	0.017	1.5	402	SE
29	4	29.733	51.2	0.021	1.5	454	W
30	2	29.788	45.7	0.029	1.5	494	NW

DIARRHŒA IN DATES OF DEATH, 1888.

		Dinititi	G) 11	A Read of the			.111, 1000.
DATE.	No	Mean	Macu	RAI	N.		WIND.
	No. of Deaths.	Reading of Barometer.	Mean Tempera- ture.	Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	6	29.636	41.7	0.230	2.1	323	NNE
2	2	29:334	41.2	0.178	3.4	275	SW & W
3	2	29.443	44.5	0.031	0.9	253	N & SE
4	1	29.558	43.6	0.200	2.8	627	WNW
5	1	29.634	44.5	0.187	5.0	861	NW & W
6	4	29.928	42.6	0.036	1.3	254	NNE
7	2	30.158	46.9	0.033	1.1	236	NW & N
8	1	30-198	49.3	.7		111	SSE & WNW
9	2	30.142	50.1			155	W & SE
10	4	30.105	49.4	0.023	0.5	219	W
11	2	30.111	50.1			357	W
12	2	29.948	50.5	0.021	0.5	823	W
13	1	29.964	44.6			477	NW & N
14	3	30.202	46.9			222	NE & WNW
15	1	30.323	48.0			402	WNW
16		30.342	47.9			133	SE & S
17	1	30.283	48.9		**	194	SE
18		30.203	49.5			347	SE
19	2	30.239	46.4			415	SE
20		30.342	45.7			402	SE & S
21	1	30.446	46.1			270	SE & E
22	3	30.442	41.4			337	SE
23	1	30.262	46.0			131	SE & SW
24	1	30.043	48.9	0.007	0.7	245	SSE & SSW
25	2	29.840	55.6	0.006	0.9	331	SSE
26	2	29.876	62.1	0.032	2.0	441	SSW
27		30.010	62:0	0.154	2.5	573	SSW
28	2	29-949	55.8	0.113	3.1	558	SSW
29		30.083	51.4	0.078	1.6	325	sw
30	1	29 906	50.1	0.263	4.8	334	SW & SSE
31		29 795	149.0	0.071	1.9	396	SW & W

### WHOOPING COUGH.

Whooping Cough occasioned 313 deaths. (The average number of deaths for the preceding ten years was 408). Its percentage death-rate relatively to deaths from all causes was 2.7 in the first quarter of the year, 3.7 in the second, 1.9 in the third, and 2.1 in the fourth; its percentage rate relatively to deaths from all causes was 2.6, and relatively to deaths from Zymotic causes 17.4.

DEATHS FROM WHOOPING COUGH.

172 A. A.	-80	80	181		Qu	JAR	FERS				-	YEA	R.
WARDS.		202	Mar	ch.	Jui	ne.	Se	pt.	De	ec.			
3816		E-L	М.	F.	М.	F.	М.	F.	М.	F.	М.	F.	Total.
C. U. A. C.	Below 5 ye	0.70	4	4	10	4	3	3	1	3	18	14	32
	bove 5 ye												
Vauxhall JE	selow 5 ye	ars							1	1	1	1	2
A A A A A A A A A A A A A A A A A A A	bove 5 ye	ars				.:			.:		i	1	2
St. Paul's \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	elow 5 ye	ars				1	* .	* *	1			7	
	bove 5 ye.		1	i			1		1	1	3	2	5
	boye 5 ye				93				200				
	elow 5 yes						1	2	2	2	3	4	7
1A	bove 5 yes						1				1		1
	elow 5 yes							* *					
	bove 5 yes				**		::						
	bove 5 yes		::										
	elow 5 yes												
	bove 5 yes												100
	elow 5 yes				2	1		**	1		3	1	4
	bove 5 ye			i		2		:;			1	4	5
	bove 5 ye				1			1				2	
	selow 5 ye		1		2	2	2		i	i	6	3	9
	bove 5 ye												
Abereromby SI	selow 5 ye	ars	1		1	1	1	1	2		5	2	7
\ A	bove 5 ye	ars				:		. 3	-:		::		12
	selow 5 ye		3	5	4	10	3	5	1	8	17	28	45
	bove 5 ye		5	2 5	3	7	5	5	4	4	17	21	38
	selow 5 ye bove 5 ye			1					1		1	1	2
TIT I D 1	Below 5 ye		2	5	4	6	4	6	4	12	14	29	43
	bove 5 ye			1	1			1			1	2	3
North Toxteth (I	Below 5 ye	ars	5	5	7	. 3	2	3	3	2	17	13	30
1	bove 5 ye		::	:	::	10	.:		-		33	20	62
South Toxteth [1	Below 5 ye	ars	16	19	12	3	1		4		1	29	5
12	Above 5 ye	ars	1	1		0					^	-	
Workhouses and	Below 5 ye	ars .			4			1	1	1	5	2	7
Hospitals	Above 5 ye	ears .											
	11111	Die 1	1	TT									
(1	Below 5 ye	ears	38	45	50	47	23	27	33		144		298
City {2	Above 5 ye	ears	1	5	1	3	1	1	2	1	Đ.	10	15
					-				1				

### CROUP.

The deaths (108) from this disease were 56 below the average of the preceding ten years (1878 to 1887) and 60 lower than the average for the ten years 1868 to 1877.

### DEATHS FROM CROUP.

	essent -			Qt	JAR	TERS	š.			,	YEA	
	VARDS.	Mai	reh.	Jur	ne.	Se	pt.	De	с.		LEA	к.
		M.	F.	М.	F.	M.	F.	М.	F.	M.	F.	Total
Scotland	Below 5 years Above 5 years	2	2	1	3			2		5	5	10
Vauxhall	Below 5 years Above 5 years								i		1	1
St. Paul's	Below 5 years	1			::		1			1	1	2
Exchange	Below 5 years											
St. Anne's	(Above b years	1					1			1	1	2
Lime Street .	Below 5 years			::	1		1			::	2	2
Castle Street .	Above 5 years (Below 5 years					1		· · ·		2		2
St. Peter's . Pitt Street .	(Above 5 years ) Below 5 years		1								i	i
Great George .	(Above 5 years ) Below 5 years										::	
Rodney Street.	(Below 5 years			i			::	::	::	i	::	i
Abercromby .	(Below 5 years			i	::				::	i	::	i
Everton .	(Below 5 years	5	3	6	2	4	1	1	1	16	7 2	23
Kirkdale .	Below 5 years	3	3	1	4	1	3	2	3	7	13	20
West Derby .	Below 5 years	5	3	1	2			1	4 2	7	9 2	16
North Toxteth.	(Above a years			2	1	1	1	2	1		3	
South Toxteth.	Below 5 years	i	1		i			3	1	6	1	8 2
Workhouses and Hospitals .				1	.:					1		
City	$ \begin{array}{l} \cdot \cdot  \left\{ \begin{array}{l} \text{Below 5 years} \\ \text{Above 5 years} \end{array} \right. \end{array} $		13		13 1		8 2	12	11 3	54 2	45 7	99

### DIPHTHERIA.

The number of deaths (66) from this disease was 14 below the average of the preceding ten years (1878 to 1887), and 16 above the average for the ten years 1868 to 1877.

### DEATHS FROM DIPHTHERIA.

						RTEI					YE	AR.
W	ARDS.	Mai	reh.	Ju	ne.	Se	pt.	De	BC.			
		M.	F.	М.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	Below 5 years Above 5 years			1						1		1
Vauxhall	Below 5 years											
St. Paul's	Below 5 years											
Exchange	Below 5 years (Above 5 years		1								1	i
St. Anne's	Below 5 years											
Lime Street	Below 5 years			::			1				1	1
Castle Street	Below 5 years											
St. Peter's	Below 5 years (Above 5 years			::	i						·i	i
Pitt Street	Below 5 years		i				::				· i	i
Great George	Below 5 years	1			1					1	1	2
Rodney Street	Below 5 years					::	::		::			::
Abercromby	Below 5 years Above 5 years		.:		::		::					
Everton	Below 5 years (Above 5 years	1	1	::				2	4	2	5	3 6
Kirkdale	Below 5 years (Above 5 years		1		1	1	::			1	1	2
West Derby	Below 5 years { Above 5 years { Below 5 years		2	2	1	1	::	1	2	3 2	6	9 3
North Toxteth	· Above 5 years	1 2 1	3 2	2	2			1		3 3	5	12
South Toxteth	· Above 5 years	1	1					2		1	1	4 2
Workhouses and Hospitals	Below 5 years	1	1	* 1	2	1	2		1	2	6 2	8
File College	Below 5 years		10					-				2
City	Above 5 years	4	10	5	6	1	4	7 2	3 4	20 7	23 16	43 23

### OTHER ZYMOTICS.

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

					Q	UAR	TERS	3.			,	YEA	P
,	WARDS.		Mar	ch.	Ju	ne.	Sej	pt.	De	c.		LBA	Iv.
			м	F.	М.	F.	М.	F.	м.	F.	М.	F.	Tota
Scotland .		Below 5 years	2	3	5 4	2	1 2		2 2	2	10	7	17
Vauxhall		Above 5 years ∫Below 5 years	 		4		2	1	2	1	9	4	13
Ct Danlin		Above 5 years ∫Below 5 years	 3			i		1			3	1 2 1	4
Fuchana		Above 5 years Below 5 years	 	1				i		::	.:	1	
St Annala		Above 5 years ∫Below 5 years	 	.:		i	::	::	1	:	1	i	
T: 04 1		Above 5 years Below 5 years				::		i	1		1	1 1	
Castle Street		Above 5 years Below 5 years	 							1			
St. Peter's		Above 5 years Below 5 years	 ::	::								2	
Pitt Street		Above 5 years Below 5 years	 			1		1			-2	1	
Great George		\ Above 5 years \ Below 5 years \ Above 5 years	 i 1				2 2		1		4		
Rodney Street		Below 5 years Above 5 years	 i		1		::	i		1		2	
Abercromby		Below 5 years Above 5 years	 1	2		··· i	i				2 2	2 1, 2 1	
Everton		Below 5 years Above 5 years	 1 3	3	1	3	1	2 2 3	1 2	i	4 8	9	1:
Kirkdale		Below 5 years Above 5 years	 2	1		1 1	3 3	3	2 1 2	2 2	100	5	1
West Derby		Below 5 years Above 5 years	 1 2	2	2	1	1	.:	2	2	7 4 5	5 2	
North Toxteth		Below 5 years Above 5 years	 1 2 1		1 2	2	1	3	3 4	1	5	5	1
South Toxteth		Below 5 years Above 5 years		3 3 2		1 2 1	1	3 2 2 1		3	9 2 1	10	1
Workhouses ar Hospitals		Below 5 years Above 5 years	1 4	1 5	3	·i	1		1 4		3 11	1 9	2
City		Below 5 years			9	12	11	15 10					9

### TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 1,613 deaths in the City of Liverpool during the year 1888. (The average number of deaths for the preceding ten years was 1,895). The death-rate was 2.7 per 1,000 of the estimated population; their percentage death-rate relatively to deaths from all causes was 13.3.

### PHTHISIS.

The deaths from Phthisis amounted to 1,145, the average number for the preceding ten years being 1,334.

							Qt	UAR	TERS	š.				YEA	P
	W	ARDS			Mar	ch.	Jui	ne.	Sep	t.	De	c.		LEA	D.
		A (3)			M.	F.	М.	F.	M.	F.	М.	F.	М.	F.	Total
Scotland			(Below Above	5 years 5 years	 	8	12	1 9	1 5	12	2	ii	3 37	1 40	4 77
Vauxhall			Below	5 years 5 years	 2	i	1	2	2	·i	2	1	7	1 5	1 12
St. Paul's			(Below Above	5 years 5 years	 2	2	i	4	4	4	3		i0	10	20
Exchange			(Below Above	5 years	1	2	2		2	4		2	6	8	14
St. Anne's			Below Above	5 years	 6	6	9	1	i	3	3	i	19	11	30
Lime Street			Above	5 years 5 years 5 years	 2	1	i	5			2	2	5	8	13
Castle Stree	t		Above	5 years	 				i			2	1	2	1 2
St. Peter's Pitt Street			Above	5 years 5 years	 1		1			1	1	2 2	3	3	6
Great Georg	,,		Above	5 years	 ì	2	1	1	1	::		1	2	4	6
Rodney Str			Above	5 years 5 years	 3	3	2	3	1	2	2	2	8	10	18
Abercromby			Above	5 years	 2	4	2	4	3	5		5 3	11	12	23  29
Everton			Below Above	5 years	 1 23	26	18	19	19	17	16	1 24	3 76	3 86	6 162
Kirkdale			Below	5 years	 2 9	17	1 15	9	1 6	ii	1 12	9	5 42	46	5 88
West Derby			Below Above	5 years	 1 22	13	2 18	16	2 8	13	14	1 15	5 62	1 57	6 119
North Toxt	eth		Below	5 years 5 years	 3 13	22		18	ii	10	9	6		1 56	100
South Toxte	eth		Below Above	5 years 5 years	 11	15	6	9	10	7	3	2	30	33	63
Workhouses Hospital			${f Below} {f Above}$	5 years 5 years	 1 49	42	58	21	39	24	53	- 1 41	1 194	128	322
City			$\{ egin{aligned}  ext{Below} \  ext{Above} \end{aligned}$		11 159	1 165	8 161	3 124		4 116	$\frac{4}{137}$		27 572		41 1104

### DEATHS FROM THE OTHER TUBERCULAR DISEASES.

					Qt	ART	FERS					YEA	P
	WA	RDS.	Mar	ch.	Jun	ie.	Sep	t.	Dec	в.		LEA	JK.
		Last A Control	М.	F.	М.	F.	M.	F.	М.	F.	M.	F.	Total
Scotland		Below 5 years Above 5 years	10	8	7 4	5	1 3	6 2	9	4	27 13	23 5	50 18
Vauxhall		Below 5 years	1	1	1 2		1			::	3 2 3		4 2
St. Paul's		· · Above 5 years	2	1		1			1	1	3	3	6
Exchange		Below 5 years					1				1		1
St. Anne's		Below 5 years	1	2	3		1		2	1	7	3	10
Lime Street		Above 5 years	3			1			1	1	5	2	7
Castle Street		Below 5 years Above 5 years											
St. Peter's		Below 5 years			1						1		1
Pitt Street		Below 5 years		1		1 1	1 2	1			1	3 2 3	2
Great George	• •	Below 5 years	2	2	1 2		1	1	1		6 2 5	2 3	9 4 8
Rodney Stree	t	Below 5 years		3	1 4		i	· · · · · · · · · · · · · · · · · · ·	··· i	1	1 7	3	4
Abercromby		Above 5 years	10	6	1					7	1 53		1
Everton	**	Above 5 years	2 6	3 2	3	4		1	2 4	3 4	7	11	18
Kirkdale	• •	· (Above 5 years	4	2 7	1	3	2	2 7	9	3		10 27	
West Derby		Above 5 years Below 5 years	1 4		1	2	2	1			4	3	7
North Toxtetl		Above 5 years Selow 5 years	3	1 4	1 5	- 1	3 5	1 3	4	2	4	3	7
South Toxtetl	1	· Above 5 years		1	1				1		2		3
Workhouses a Hospitals	nd 	$ \begin{cases}{ll} \textbf{Below 5 years} \\ \textbf{Above 5 years} \\ \end{cases}$	3 4	1	2 4	1	3	2	1 5	3	6 16	20	11 22
City		Below 5 years Above 5 years	51 13				45 14		100		209 56	0-000	

Mr. Hartnup has kindly supplied the following Meteorological Table.

### LIVERPOOL OBSERVATORY.

1	DATE-	-1888.		Mean Barometer.	Mean Temperature.	Rainfall on Ground
January				Inches. 30·194	o 39·3	Inches. 1.264
February			 	 30.044	36.2	1.081
March -			 	 29.618	38.4	2:057
April			 	 29.897	44.2	1.104
May			 	 30-003	52.3	0.547
June			 	 29-935	56.6	2.031
July			 	 29.733	57:0	4.987
August			 	 29.956	57.9	2.810
September			 	 30.161	54.8	0.682
October			 	 30.023	48.4	1.663
November			 	 29.718	46.6	4.481
December			 	 29.890	42.0	1.383
YEAR 18	88		 	 29.931	47.8	24.090
., 18	87		 	 29-996	48.0	20.821

The following tables have been kindly supplied by Mr. Hagger, the Vestry Clerk, as showing the amount of infectious disease treated in the Brownlow Hill Hospital, and not to be taken as a statement of the pauperism in the Parish, for the two following reasons:—

The Industrial Schools receive children from West Derby, Toxteth Park, and Prescot: the average number of such children for the year was 421.

The fever cases in hospital include patients sent in by the Medical Officer of Health from every part of the City, and from ships, and are paid for by the Hospital Committee and Port Sanitary Authority: the average number for the year was 27.

### PARISH OF LIVERPOOL.

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

	ME	ASLES.	SCAR	LATINA.	түрного.
DATE, 1888. WEEK ENDING	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 commencement of Week.  Admitted.  Discharged.  Died.  Remaining at end of Week.
", 10 ", 17 ", 24 ", 31 ". April 7 ", 14 ", 21 ", 28 ". May 5 ", 12 ", 19 ", 26 ", 19 ", 26 ", 30 ", 30 ", 14 ", 21 ", 28 ". Aug. 4 ", 11 ", 18 ", 25 ". Sept. 1 ", 18 ", 25 ". Sept. 1 ", 15 ", 22 ", 29 ", 29 ", 20 ", 27 ", Nov. 3 ", 10 ", 17 ", 24 ", Dec. 1 ", 17 ", 24 ", 21 ", 24 ", 27 ", 29 ", 29 ", 27 ", Nov. 3 ", 10 ", 17 ", 24 ", 21 ", 22 ", 29 ", 29 ", 27 ", Nov. 3 ", 10 ", 17 ", 24 ", 24 ", 25 ", 22 ", 29 ", 29 ", 27 ", Nov. 3 ", 10 ", 17 ", 24 ", 24 ", 22 ", 29 ", 29 ", 27 ", Nov. 3 ", 10 ", 17 ", 24 ", 24 ", 22 ", 29 ", 29 ", 27 ", Nov. 3 ", 10 ", 17 ", 24 ", 22 ", 29 ", 29 ", 29 ", 29 ", 29 ", 20 ", 27 ", Nov. 3 ", N	1 2 3 2 2 2 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	4 22 9 18 6 17 2 26 8 2 30 2 2 33 7 34 15 30	40    5	20        25         7        18         6        15         1        17           22         5       1       23         5       2       25         2       1       22         2       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         1       2       2         2       4       2         2       3       4         2       3       3         3       4       3         2       4       3         3       3       4         3       3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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### PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital-(Continued)

		т	YPHUS	3.		SIN	IPLE CO	ONTINU	ED FE	VER.
DATE, 1888. WEEK ENDING	No. at commence- ment of Weck.	Admitted.	Discharged.	Died.	Remaining at end of Week,	No. at commence- ment of Week.	Admitted.	Discharged.	Died.	Remaining at end of Week,
Jan. 7 ,, 14 ,, 21 ,, 28 Feb. 4 ,, 11 ,, 18 ,, 25 March 3 ,, 10 ,, 17 ,, 24 ,, 31 April 7 ,, 14 ,, 21 ,, 28 May 5 ,, 12 ,, 19 ,, 26 June 2 ,, 19 ,, 16 ,, 23 ,, 30 July 7 ,, 14 ,, 21 ,, 28 Aug. 4 ,, 11 ,, 18 ,, 25 Sept. 1 ,, 8 ,, 15 ,, 22 ,, 29 Oct. 6 ,, 13 ,, 20 ,, 27 Nov. 3 ,, 10 ,, 17 ,, 24 Dec. 1 ,, 8 ,, 15 ,, 22 ,, 29 ., 29		i		i		7 4 8 6 10 5 7 5 6 5 1 8 8 6 7 8 8 8 8 10 11 9 5 4 5 9 7 6 6 5 9 13 7 8 11 4 2 2 2 2 2 5 9 9 5 3 3 5 5		3 2 2 2 5 1 2 1 · · · · · · · · · · · · · · · · ·		4 8 6 10 5 7 6 5 8 8 8 6 7 8 8 8 8 8 8 8 10 11 12 13 14 15 16 16 16 16 16 16 16 16 16 16

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 1888 was 9, and their percentage Death-rate was 8·1. The average number of cases of Scarlatina at one time in Hospital during the year was 15, and the percentage Death-rate was 11·2. The average number of cases of Measles at one time in Hospital during the year was 9, and the percentage Death-rate was 7·1. All Small Pox cases belonging to the Parish were treated in the City Hospital, Park Hill.

PARISH OF LIVERPOOL.

RETURN OF PERSONS IN RECEIPT OF RELIEF DURING THE YEAR 1888.

Week ending.	Work- house.	Industrial Schools.	Out- Relief.	Week ending.	Work- house.	Industrial Schools.	Out- Relief.
January 7	3452 3414	1023 1051	2564 2565	July 7	2889 2927	815 831	2323 2294
,, 14 ,, 21	3470	1026	2575	,, 21	2943	820	2305
,, 28 February 4	3474 3531	1033 1030	2545 2508	,, 28 August 4	2902 2914	818 802	2298 2307
,, 11	3469	1048	2521	August 4	2909	847	2269
,, 18	3510	1024	2507	,, 18	2956	825	2299
,, 25 March 3	3525 3567	1048 1018	2494 2470	September 1	2985 3015	835 811	2314 2334
March 3	3459	1033	2445	September 1	3023	856	2324
,, 17	3445	997	2514	. 15	3038	837	2332
,, 24 ,, 31	3426 3394	1044 1012	2534 2525	,, 22 ,, 29	3040 3025	844 816	2310 2285
April 7	3277	1012	2458	October 6	3044	799	2244
,, 14	3295	962	2435	,, 13	3060	856	2264
,, 21 28	3214 3207	951 924	2395 2351	,, 20	3124 3197	842 879	2211 2186
May 5	3114	930	2306	November 3	3227	865	2186
12	3108	868	2322	,, 10	3277	908	2234
,, 19 26	3043 2963	872 845	2322 2299	, 17 , 24	3383 3372	902 942	2211 2182
June 2	2940	858	2289	December 1	3432	932	2209
,, 9	2930	836	2274	,, 8	3442	957	2185
,, 16 23	2868 2895	870 825	2286 2270	,, 15	3473 3385	928 945	2188 2142
,, 30	2861	844	2275	,, 29	3400	932	2142

The number of persons in receipt of Parochial Relief on Saturday, 30th of June, 1888, was 5,980, or 516 less than at the corresponding period of 1887; and the number on Saturday, the 29th December, 1888, was 6,474, or 529 less than at the same period of 1887.

### SANITARY WORK.

Privies Certified for Conversion into Water Closets during the year 1888.

	WARDS.								No. of Privies Certified.	
Scotland										3
Vauxhall										3
St. Anne's										4
Lime Street										1
Rodney Street										7
Modney Street	* *	* *	110					1.7		1
Abercromby		1.1			**	* *	* * *			1
Everton										6
Kirkdale										1
West Derby										14
North Toxteth										9
South Toxteth										6
South Toxteth			* * *	* *			1.1			4
m										
Тот	AL									59
										-

### OFFENSIVE TRADES.

Applications for permission to carry on the following offensive trades were made during the year, and a report by the Medical Officer of Health on each application was submitted to the Health Committee.

Premises.	Business.	Granted.	Refused.	Date.	
19, St. Andrew Street	Bladder Dressing	 	_	1	21st April
Corner of Jamaica and New Bird Streets	Tripe Boiling	 	-	1	8th Nov.
Corner of Vauxhall Road and Charters Street.	Tripe Boiling	 	-	1	22nd Nov.
12, Yard, Pumpfields	Tripe Boiling	 	1	-	20th Dec.

Transfer of the business of Tallow Melting, Gut Scraping and Albumen manufacture from Carruthers Street to Fletcher's Yard, granted 5th January.

### SLAUGHTERHOUSE TRANSFERS.

Premises.		Granted.	Date.
Back Commutation Row	 	 1	23rd June
41, Upper Milk Street	 	 1	23rd June
Norfolk Street	 	 1	23rd June

### LIVERPOOL SANITARY AMENDMENT ACT, 1864.

The following premises were reported by the Medical Officer to be insanitary and that they ought to be demolished. The City Council, on the report being laid before them by the Town Clerk in compliance with the Act, referred them to the Insanitary Property Committee to be dealt with.

Darnley Street.—The house No. 12 in the said street, and the houses Nos. 1, 3, and 5, in No. 2 Court, in the said street, ought to be demolished.

Darnley Street.—The houses Nos. 14, 16 and 18 in the said street, and the houses Nos. 1, 2, 3, 4, 5 and 6, in No. 4 Court, in the said street, ought to be demolished.

Darnley Street.—The houses Nos. 34 and 36 in the said street, and the houses Nos. 1, 3 and 5, in No. 12 Court, and Nos. 2, 4, and 6, in No. 14 Court, in the said street, ought to be demolished.

Darnley Street.—The houses Nos. 54 and 56 in the said street, and the houses Nos. 1, 3 and 5, in No. 22 Court, and the houses No. 2, 4 and 6, in No. 24 Court, in the said street ought to be demolished.

Midghall Street.—The house No. 14 in the said street, and the house No. 2, in No. 6 Court, in the said street, ought to be demolished.

Midghall Street.—The house No. 16 in the said street, and the house No. 1, in No. 6 Court, in the said street, ought to be demolished.

Midghall Street.—The houses Nos. 26 and 28 in the said street, and the houses Nos. 1, 2 and 4, in No. 12 Court, in the said street, ought to be demolished.

Midghall Lane.—The houses Nos. 4 and 5 in the said street, ought to be demolished.

Stockdale Street. - The house No. 2 in the said street, ought to be demolished.

### The City Engineer has kindly supplied the following tables :-

### INSANITARY PROPERTY.

Insanita	ry Property	purchased	1888.	Insanitary Property demolished 1888.				
included in seventh	No. of houses included in eighth presentment.	Committee included in	Total.	included in seventh	No. of houses included in eighth presentment.	Committee included in	Total.	
ed ed all	no desti	52	52	4	18	36	58	

### Number of Houses Erected and Number of Houses Taken Down during the Year 1888.

		WA	ARDS.					Houses Erected.	Houses taken down
Everton and	Kirkda	ile			100	100		112	3
Scotland								59	21
Vauxhall									21
St. Paul's								3	
Exchange									9 8
Castle Stree							1000		5
St. Peter's				*	0000				
	* *				**		100	1	1111
Pitt Street		4.1	* *					****	
Great Georg	е		100	2.2				1	21
Rodney				4.4					1.000
Abercromby									
Lime Street									3
St. Anne's									23
West Derby							100	393	15
		* *					2.5		
South Toxte				4.4		* *		8	26
North Toxte	eth	-1.1	11.5					9	25
	T	OTALS						586	180

### SEWER VENTILATION TO END OF 1888.

No. of 6-inch Iron Pipe Ventilating Shafts			8.7		933
No. of Street Ventilating Gratings .		1			4,411
The length of Old Sewers Ventilated ,	-	11		12	180 miles

Note. - All New Sewers are ventilated as constructed.

### 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 885 lodging-houses at the end of 1887, and 854 at the end of 1888. This difference was occasioned by the removal of 293 old licences, and the addition of 262 new ones. The visits to lodging-houses are both by day and night. The lodging-houses of the better class, and especially those provided with only 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 37,483, and the night visits 5,836. The number of lodging-houses found overcrowded on the night visits was 25, the number of informations laid for breaches of the bye-laws was 120, with the results of fines in 118 cases to the extent of £22 18s. 6d., in sums varying from 1s. to 20s. and costs. The number of lodging-houses found dirty was 188; 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 1,387 such visits paid during the day, and in 53 of the cases where suspicion was confirmed they were followed up by night visits. A tenant harbouring lodgers is not taken before the Justices for the first offence, but is noticed to apply to have his rooms measured and licensed. There were 171 such notices issued during the year, but in only 18 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. 15 cases of fever and 1 case of small-pox occurred in lodging-houses; in 15 of the cases the patients were at once sent to hospital, the remaining case, being a member of the keepers' family, was not removed; this latter case died. In all cases of fever or infectious disease the bedding was removed to the disinfecting apparatus, and the rooms purified and cleansed; in the cases where the patients remained, the licenses to receive lodgers were suspended by the Medical

Officer. No lodger died from fever or small-pox in a registered lodging-house; but not including the case of fever, there were 78 deaths from non-contagious diseases in lodging-houses, of which 48 belonged to the keepers' families and 30 were lodgers.

### SEAMEN'S LICENSED LODGING HOUSES.

The Corporation have made bye-laws, with the sanction of the President of the Board of Trade, for the licensing of Seamen's Lodging Houses, under the Merchant Shipping (Fishing Boats) Act, 1883, section 48, which enacts that "The Sanitary Authority within whose district any seaport town is situate may, " with the sanction of the President of the Board of Trade, from time to time, "make, revoke, alter, and amend bye-laws and regulations relating to Seamen's "Lodging Houses in such town, which shall be binding upon all persons and "bodies keeping houses in which seamen are lodged, and the owners thereof, "and persons employed therein. Such bye-laws and regulations shall, amongst "other things, provide for the licensing of Seamen's Lodging Houses, the "inspection of the same, the sanitary conditions of the same, the publication of "the fact of a house being licensed, the due execution of the bye-laws and "regulations, and the non-obstruction of persons engaged in securing such "execution, the preventing of persons not duly licensed holding themselves out "as keeping or purporting to keep licensed houses, and the exclusion from "licensed houses of persons of improper character, and sufficient penalties for "the breach of such bye-laws and regulations not exceeding in any case the sum "of fifty pounds. All offences under such bye-laws and regulations shall be "deemed to be offences within the Merchant Shipping Acts, 1854 to 1883, and "be punishable accordingly."-And on the written application of the keeper of any registered common lodging house or registered lodging house, made in such form and stating such particulars as the Council require, the Council will, if they see fit, grant to such keeper a license authorizing him to designate his registered house a Seamen's Licensed Lodging House.

During the year 7 applications were received, all of which were granted; 5 of the licenses granted during 1887 were renewed, making the number on the Register 12.

### SUB-LET HOUSES.

The number registered during 1888 was 765, making the total on the Register on the 31st December, 18,967. The number of visits paid during the night was 17,250, and during the day 106,676, with the result of finding 1,731 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 764 rooms thus indecently occupied by 1,096 males and 1,325 females, besides having also in these rooms 523 children between the ages of 3 and 12 years. The character of the indecent occupation may be judged of from the following facts:-In 421 instances one man and two women were found in the same bedroom; in 240 instances two men and one woman: in forty instances two men and two women; in thirty instances one man and three women; in sixteen instances three men and one woman; in four instances two men and three women; in three instances one man and four women; in one instance one man and six women; in six instances three men and two women; in two instances two men and six women; and in one instance three men and three women.

Informations were laid against 2,108 chief tenants for breach of the byelaws, with the following results:—1,992 fined 1s. and 1s. costs; 1 fined 1s. 6d. and 1s. 6d. costs; 3 fined 2s. and 2s. costs; 64 fined 2s. 6d. and 2s. 6d. costs; 7 fined 5s. and 4s. 6d. costs; 2 fined 20s. and 4s. 6d. costs; making a total of fines levied during the year of £221 14s. 6d. Of the remaining 39 cases, 14 informations were withdrawn and 25 acquitted, the tenants having complied with the bye-laws.

### BAKEHOUSES.

7,300 visits have been made to Bakehouses during the year. 609 Bakehouses were found dirty, and notices were served to limewash and cleanse them. 1 notice was served to remove stagnant water, and 9 to remedy defective drains. All notices were complied with.

### CANAL BOATS.

The following Report on the execution of the Canal Boats Acts, 1877 and 1884, by the Liverpool Sanitary Authority during the year 1888, was sent to the Local Government Board.

The Leeds and Liverpool Canal Company are proprietors of the only Canal having direct communication with Liverpool, and the length of the waterway within the City, exclusive of the locks which lead to the Docks, is about three miles.

The duties of measuring and inspecting the boats are discharged by Mr. Wilson, Chief Lodging-house Inspector, and Mr. Thornthwaite, Lodging-house Inspector. No salary is paid them beyond that of Lodging-house Inspectors.

The number of visits and inspections of Canal Boats during the year was 4,500.

- 50 Boats were found to be used as dwellings, and not registered.
- 16 Notices were sent to the owners
  - 3 Informations were laid
- 30 were found without Certificates on board by the Inspectors and 1 notice not expired.
- 22 were found not having the registered number painted on both sides of the boat; 7 Notices were sent, 18 abated, 3 not seen since by the Inspectors, and 1 notice not expired.
  - 2 not having the distinctive mark "The Liver" painted on the outside of the cabins.

    2 Notices sent to the owners.
- 12 cabins, used as dwellings, were found in a dilapidated and insanitary condition, caused by leaky decks, broken floors, and bilge water not removed from beneath cabin floors; 12 Notices sent to the owners—all abated.
- 20 were found without proper accommodation provided for the separation of the sexes; 7 Notices sent to owners, but only four were altered,

and proper accommodation made; several were found to have discontinued the practice of carrying both sexes. In 11 cases the Inspectors, on visiting the boats between 6 and 8 a.m., found the sexes mixed, and summoned the masters.

- 8 boats had defective ventilation of cabins; 8 Notices were sent—all abated.
  - 5 had defective ventilation between the bulkheads; 5 Notices were sent all abated.
- 26 had defective second bulkheads; 21 Notices were sent—all abated.
- 5 found carrying offensive cargoes, and not having a second bulkhead—3 were summoned, and 2 have not been seen since by the Inspectors.
- 35 required the cabins painting; 35 Notices were sent to owners—32 abated, 2 notices not expired, and 1 discontinued as a dwelling.
- 14 had cabins dirty and required cleaning; verbal Notices given to masters—all abated.
  - 2 found overcrowded-masters summoned.

Informations were laid in 23 cases, and in 22 instance fines were inflicted varying from 1s. and 1s. costs to 5s. and 4s. 6d. costs, and 1 was acquitted.

There was no infectious sickness on the boats during the year.

Forty-nine Notices were sent to the School Board of children living on Canal Boats and not attending school.

The number of boats on the register is 440, of which 131 have been reregistered, viz.:—5 in 1884, 60 in 1885, 21 in 1886, 25 in 1887, and 20 in 1888.

During the year twenty-one new boats were registered, and twenty were re-registered on account of change of owner.

There were eighty changes of masters on the boats, and the necessary records made on the register.

CASES OF INFECTIOUS DISEASE COMING UNDER THE NOTICE OF THE MEDICAL OFFICER OF HEALTH DURING 1888.

Yea	r—1888.		Small Pox.	Fever.	Scarlatina.	Measles.	Diphtheria	TOTAL
January			 3 8	52	133	28	11	227
February			 8	27	112	16	22	185
March			 1	60	120	26	9	216
April			 10	40	102	52	9	213
May			 	32	78	137	13	260
June			 3	30	77	153	10	273
July			 0	57	73	86	8	226
August			 	76	86	124	18	304
September			 1	78	100	174	7	359
October	1.		 1	107	135	782	14	1038
November			 	64	162	1371	7	1604
December			 	56	138	869	19	1082
TOTAL ST		Latin.			L Jun 1			
Тот	AL		 27	679	1,316	3,818	147	5,987
Removed to	Hospit	al	 19	469	380	108	27	1,003

Of the patients removed to Hospital the following were conveyed by the Sanitary Officers:—400 cases of Fever, 337 cases of Scarlatina, 19 cases of Small Pox, 51 cases of Measles, 19 cases of Diphtheria, 9 cases of Chicken Pox, and 3 cases of Non-infectious disease, making a total of 838 persons. 302 were taken to Netherfield Road Hospital, 150 to the Parish Workhouse Hospital, 320 to the City Hospital, Park Hill, and 66 to the City Hospital, Grafton Street.

In accordance with the arrangements made with the School Board, 2,474 post cards were sent to the Head Masters of the various schools, informing them that children from infected houses attended their schools. Similar information was sent to the School Board.

### THE DISINFECTING APPARATUS.

The number of articles disinfected at the Apparatus during the year amounted to 25,454.

DAT 1880		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Number of Articles.
Week en	ding				-	13.71
January	7	45	80	343	351	819
The state of the s	14	73	74	487	106	740
53	01	42	39	237	107	425
,,	00	31	35	194	242	502
Fohmour			68	251		
February	4	39			78	436
"	11	35	49	257	186	527
,,	18	44	58	220	84	406
3.5 37	25	42	63	382	235	722
March	3	28	57	238	192	515
,,	10	31	50	243	107	431
,,	17	41	58	229	215	543
,,	24	36	42	211	259	548
,,	31	33	51	226	178	488
April	7	50	69	311	532	962
,,	14	71	61	545	184	861
	21	31	41	190	134	396
"	28	70	63	320	71	524
May	5	27	50	225	146	448
	10	21	30	155	94	300
,,	10	20	38	173	362	593
,,	00	39	74	319	231	683
June	0		44	163		
June		26			72	305
,,	9	21	43	167	74	305
"	16	34	58	214	111	417
"	23	43	59	286	214	602
-21.	30	28	46	175	66	315
July	7	20	24	125	129	298
,,	14	31	35	153	255	474
,,	21	33	45	186	217	481
,,	28	37	50	205	98	390
August	4	33	43	187	99	362
9.9	11	22	15	130	11	178
,,	18	17	47	135	69	268
,,	25	33	48	188	82	351
September	1	44	47	189	234	504
,,	8	31	47	175	152	405
,,	15	43	38	205	95	381
. ,,	22	42	51	283	50	426
	29	34	42	201	114	391
October "	6	33	46	157	94	330
	13	43	46	217	. 97	403
"	20	37	44	189	68	338
,,	27	39	46	277	48	410
November	9	65	73	342	229	709
	10	59	76	328	123	586
"	177	41	46	228	37	332
"	04	55	68	320	273	716
Dogombon	1		79	354	258	752
December		61		294		497
,,	8	50	64	281	89	
,,	15	53	54		135	523
,,	22	49	85	385	182	701
,,	29	32	39	198	156	425
			-			10.70
Totals		2,038	2,698	12,693	8,025	25,454

The number of articles destroyed at the Apparatus during the year amounted to 1131.

Day 188	8.		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c	Total Number of Articles.
Week en	ding-					- Landilla	
January	7		3	7	5	20	35
,,	14			6			6
,,	21		2	4	2		8
,,	28		1	4	5	14	24
February	4		2				2
	11						
,,	18			2	1		3
"	25		3	5		17	25
March	3		1	4	4	4	13
	10		2	6	3	26	37
,,	17		4	12	2	10	28
,,	24	***	2	2	4	2	10
,,	31			12			
Anvil	7		3	12		5	17
April	14			0		109	124
,,	21	***		2 2 3			2
"			29	2	47	::	2
3.5"	28		29	3	47	1	80
May	5						::
1)	12		3	2	13	9	27
1)	19			* 1			*2
,,	26		2	4	1		7
June	2						
,,	9			2 2 8			2 2 25
,,	16			2			2
,,	23		4	8	9	4	25
,,	30			3			3 .
July	7						
,,	14		2		4		6
,,	21		10	8	38	149	205
,,	28		4	4	11	17	36
August	4		3	4	2 3	6	15
,,	11		3	2	3	4	12
,,	18		1	2 2 7			3
	25		2	7	5		14
September	1		1		2	i <sup>†</sup>	26
,,	8		1	5			6
,,	8 15		1	2			6 3
,,	22		2	2	2		6
	22 29		1	6	2 2 6		6 9
October	6		4	12	6	i	23
	13		3	6 5 2 2 6 12 1 4	1	17	22 4
"	20		63	4			4
"	27		9	16	11	37	73
November	3		1	16 2	**	0,	3
	10						
"	17			2 8 4			2 56
"	24		i	8	3	44	56
December	1			4	4	43	56
	8		9	4		49	6
",,	15		5 2 3	4 15	9		27
,,	15		5	19	9	11	27
,,	22		2000	9	8	14	36
,,	29						
Totals			125	229	207	570	1131

### DISINFECTION OF HOUSES.

In all cases of infectious disease the houses were disinfected, free of cost, with sulphurous gas, by Officers appointed by the Health Committee; but whenever there was sickness in any room of the house, so as to endanger health by the use of sulphurous gas, carbolic acid powder was freely sprinkled in the rooms and passages of the house until the sulphurous gas could be used safely. No house is considered properly disinfected until sulphurous gas has been used. The existence of sickness, and the consequent employment of carbolic acid powder, necessitate many visits by the persons in charge of disinfection. There were in all 4,109 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 1,713.

### MORTUARIES.

During the year 20 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.

### LICENSES FOR CATTLE.

During the year 1888, 10 applications were made to the Health Committee for licenses to keep cows; 6 of the applications for keeping 21 cows were granted. There are at present 410 shippons licensed to keep 5,293 cows. 64 of the shippons previously licensed have been transferred to fresh tenants.

9 applications were made during the year to keep pigs in styes separate from and unconnected with shippons; 2 of the applications for keeping 4 pigs were granted. The total number of premises or styes now licensed in the City is 48 for keeping 161 pigs.

### CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

This Act and the Orders issued under it by the Privy Council were referred to the Medical Officer to carry out, in conjunction with the Veterinary Inspector, the Inspector of Nuisances, and the Meat Inspectors.

### CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.—Continued.

### PLEURO PNEUMONIA.

The Meat Inspectors found in the slaughter-houses the carcases of 5 cows which the Veterinary Inspector certified, on examination of the lungs, to have suffered from pleuro pneumonia. These cows were brought to the slaughter-houses from places outside the City. The Privy Council was immediately informed of the circumstances. No case of pleuro pneumonia occurred within the City.

### SWINE TYPHOID.

Swine typhoid was detected in 8 pigs in the slaughter-houses, the diseased animals having been imported from Ireland.

### RABIES.

25 cases of suspected Rabies were reported and post-mortem examinations made by the Veterinary Superintendent, who certified that 1 was rabies, 3 were suspicious, and 20 not affected. One live dog was submitted for examination and certified not to be rabid.

### GLANDERS.

On the 31st of May a horse suffering from this disease was found in the streets, and taken to the green yard, Marble Street. The owner was prosecuted and fined, and the animal destroyed.

### DAIRIES, COWSHEDS, AND MILKSHOPS ORDER.

Number of app	lications for	registratio	n duri	ng the year	380	
Of which trans	fers were				205	
Number of app	lications gra	nted			321	
"	" ref	used			59	
Number on the	e register at	the end of	1887			2043
,,	٠,	,,	1888			2157
						-
		An incre	ease of			114

SUMMARY of Veterinary Inspections, under the Contagious Diseases (Animals) Act, for year 1888, by Richard S. Reynolds, M.R.C.V.S., Veterinary Inspector for the Corporation of Liverpool.

### TABLE No. 1.

# PLEURO.PNEUMONIA.

pection	nsed and nfected.	
od Insp	clean disin	
Animals examine	infected places cleansed and after disinfection. disinfected.	
Subsequent Examinations of Animals in infected places for Slaughter.	Discased.	1
Subsequent Exami in infected place	Healthy.	
PRIMARY INSPECTIONS.	No. found Affected.	1
PRIMARY I	No. of Animals Examined.	1
	Infected Places.	1
Post.Mortem	Examinations of Lungs or Carcases.	9

TABLE No. 2.

## SWINE TYPHOID.

Inspection of infected places cleansed and disinfected.	-
Examination of Animals for removal for Slaughter.	STATE OF THE STATE
No. of Carcases examined.	Sec. 1 7200
No. of Pigs examined.	

SUMMARY of Veterinary Inspections under the Contagious Diseases (Animals) Act-Continued.

TABLE No. 3. FOOT AND MOUTH DISEASE.

	3551			Number of Animal	Number of Animals in infected places	Inspection of Animals in infected	mals in infected			
		Dark Martin		mo mo	outcom.	places for Staughter.	Slauguter.	Inspection of	Inspection of	
		Fost-Mortem Examinations.	n amber of Infected Places.	Healthy.	Diseased.	Healthy Animals removed for Slaughter.	Healthy Animals Diseased Animals removed for Killed on Slaughter. Premises.	Animals after convalescence.	infected place s cleansed and disinfected.	
Cattle	:	1	1	1		1	1	1	1	
Swine	:	1	-		1	1	1	1	1	
Other Animals	:	1	1		1	-		1	1	
Total	:	1				1				

TABLE No. 4. GENERAL.

FOR EXAMINATION  FOR EXPORT.  Healthy.  Disease	EXAMINATION OF ANIMALS IN TRANSIT.	LANDED COASTWISE.	d. Healthy. Diseased.		1	
	EXAMINATION	FOR EXPORT.	hy. Diseased.			
			Healt	125		

Cattle

Sheep

Swine

Summary of Veterinary Inspections under the Contagious Diseases (Animals)

Act.—Continued.

### TABLE No. 5.

### GLANDERS AND FARCY.

Post-Mortem Examinations.	Animals Examined.	Affected.	Not Affected.	Inspection of infected places cleansed and disinfected.
	6	1	5	1

### TABLE No. 6.

### RABIES.

Animals; Examined.	Affected.	Not Affected.	Post-Mortem Examinations.	Affected.	Not Affected.
1		1	25	1	*24

<sup>\* 3</sup> of this number were suspicious cases.

### TABLE No. 7.

### ANTHRAX.

Animals Examined.	Affected.	Not Affected.	Post-Mortem Examinations.	Affected.	Not Affected.
_		_	-		Sam id.

### PROCEEDINGS UNDER THE CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

Number of	f Visits to Railway Stations			3,902
,,	Inspections of pens		1	25,323
,,	found clean		1	02,040
,,	,, dirty and cleansed before being used			23,277
,,	Informations for dirty pens used before being cleansed		à.	6
,,	Inspections of Trucks			29,467
,,	found clean			25,760
,,	,, dirty and cleansed before being used, or leaving the C	ity dirty	٠	3,707
,, -	Informations for dirty trucks used before being cleansed			_
,,,	Inspections of Horse Boxes			408
,,	found clean			162
,,	,, dirty and cleansed before being used, or leaving the Ci	ity dirty		246
- ,,	Informations for dirty horse boxes used before being cleans	ed		_
Number of	f Inspections of Vessels			9,703
,,	found clean			5,967
,,	,, dirty and cleansed before being used, or going to S	ea with	out	
	cattle or cargo			3,726
,,	Informations for dirty vessels used before being cleansed			10
,,	Inspections of Gangways			8,118
,,	found clean			6,810
,,	,, dirty and cleansed before being used			1,308
,,	Informations for dirty gangways used before being cleansed			
,,	Informations for not disinfecting scrapings and sweepings			3
Number o	f Inspections of Lairage and Sale Yards			3,395
,,	found clean			2,561
,,	,, dirty and cleansed before being used			834
,,	Informations for dirty Lairages used before being cleansed		, ,	-
,,	" ,, landing dung of Foreign animals without	consent	in	Taxas
	writing of the Local Authority		.,	3
Total Nun	nber of Informations			22
	Fined		***	20
	Withdrawn			2
	Amount of Fines and Costs	£24 11	6	

Owing to ill health Mr. Fitzpatrick, who for many years had satisfactorily discharged the duties of Chief Inspector of Nuisances, was obliged to resign his position, and the staff has been placed under the management of the Assistant Medical Officer, Dr. Hope, who has supplied the following tables:—

### RETURNS OF CATTLE KILLED IN THE CITY SLAUGHTER-HOUSES, AND OF IMPORTED DEAD MEAT.

Fo	Abattoir	29841	Sheep. 191902	Lambs.	Calves.	Pigs.	Beasts.	Sheep.	Pigs.	Calves.
Fo	reign Animals' Wharf— Huskisson Dock )	29841			15000					
(1	Huskisson Dock		20		17096	21732	10483	141523		
()			20							
(1							-			
13	Byles Street	15 397	1025 376	301 209	69		10			
1 1	Back Butler Street Back Castle Street	1279	184	45	201	3				
	Back Mount Vernon Green	399	3891	843	58			STREET !		
	Cotter Street	260	625	457	- 96	3867				1
	Corlett Street	436	1701	554	21	6	7.5	110	**	
	Crown Street	402	1960	467	27	19 2914				
EW	Darnley Street	85	383	160		2014	11			1
-	Embledon Street	859	3379	1323	70	57				1
1	Foley Street		* *			7710				
1	Gelling Street	396	234	282	89	* : .				
(.	Peel Street	212	1284	325	9	41				
(	Bevington Hill	2728	1631		1198	2				
	Benledi Street		1.0		4.2	1606				
	Byrom Street	940	3423	1070	376	2667	2.2			
	Bolton Street Back Commutation Row(1)	346 179	1472	1978 260	9	80			**	
1	(9)	639	2568	364						11
FARTS.	Copperas Hill					11646				
4	Finch Place	766	2083	669	34					
	Frederick Street	22 184	1675 1907	175 283	19	24	13			
	Hodson Street Lydia Ann Street	465	4417	509	19	**	1.1		21.8	
	Norman Street			000	1	3733	11		- ::	
	Norfolk Street	29	1046	367		6				
1	Scotland Road	43	10	13	702					
	Soho Street	101	427		7.4	1784				
(	Upper Milk Street	401	421			12481			- **	
				-		-	-			
	tal in Private Slaughter- housestal in the City	10542 40383	35701 227623	9584 9584	2980 20076	48646 70378	10483	141523		

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

	DATE.—1888.	Beef.	Veal.	Mutton.	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell- fish	Oysters.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head		Lbs.	Bags.	
1	Abattoir	77555	7200	7838		9620					
	Back Castle Street	6255	44	98							
	Bevington Hill	30878	3919	106	4.0	240					
	Bolton Street		35	85	1.3		1.0			1	1.5
oč.	Copperas Hill .					1812		1.1			3:
HOUSER.	Cotter Street			. 53		550		* *			
00	Darnley Street Embledon Street	520				340		1.1	* *	**	1
100000	Wales Stunet					165	1000				**
S. H	Calling Change								***		
E	Leeds Street										
SLAUGHTER	Peel Street										
AU	Soho Street					333					
Si	Upper Milk Street					455	4.				
1	Scotland Road	1387	310			42					
	Finch Place				-						
	Norman Street				22	803					
1	Hodson Street	2250	92		62						
MARKETS.	St. James' St. John's St. Martin's Shell Fish Market	73 20 150	150	693			1061	572	74361	141½ 72	
18	-D 1 1 01					200					
	Benledi Street			**	**	302	**				
	Byrom Street Dale Street					160					
	Frederick Street	60	70	* *			1.1	+ .		* *	* * *
	Gt. Charlotte Street.							***	11163	in	11
30	Great Homer Street.								70		
RI	Gill Street					650					
PARTS.	Kensington								5		
1000	Mill Street					400			200		
HE	Norfolk Street	460									
OTHER	Park Road								10		
	Pitt Street	25				55					**
	Rose Street						494	492	26994		444
1	Rose Vale		50					27			
	Roe Street		1.0			10				4.5	100
1	Warwick Street Wm. Henry Street				**	13		100	50 25		
	(Will. Henry Street										
	Total	119633	11870	8873	62	15940	1555	1091	112878	2241	

In two instances unwholesome horses flesh was seized amounting to 97 lbs., and both cases were dealt with by the Magistrate.

		Tons.	cwts.	qrs.	lbs.
Meat-Equal to	 	 69	16	0	26
Fish ,,	 	 50	7	3	10

Number	of Visits	s to Slav	ught	erhouses	made	by l	Meat In	spectors	 		13,854
,,	Inform	nations	for	Diseased	Meat	and	Fish		 		31
,,	Fined								 		24
,,											
Amount	of Fines	and Co	sts						 £41 1	7 6	

### SMOTHERED AND INJURED CATTLE.

Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
21	41	123	161	24	5,135

### KNACKERS' YARDS RETURNS.

Horses Destroyed.	Asses Destroyed.	Other Animals Destroyed.
1,784	30	16

### SHIPPON AND PIGGERY INSPECTION.

Number	of Inspections of Ship	opons an	d Pigg	eries						1,021
,,	Informations				***					4
,,	Fined	***					***	1000		4
Amount	of Fines and Costs	4						£1	13 6	
Adiodite	or rines und costs						Talk		10 0	Sea and the sea
	DA	IRIES	AND	MIL	K SH	OPS.				
Number	of Inspections of Dai	ries and	Mills 9	Shope						1,844
	found Incorrect	ries and	Dill K	-			*1.50	***		0.01
	of Informations			100				***	***	01
	Fined									
- 27	Acquitted and With									10
				2000						
Amount	of Fines and Costs	***	1,00		***			£7	0 (	)
	NUISANCES ANI	COND	TTION	ZZ PR	ETITO	TOTA	T. TO	H IF A	TTH	
	NOISANCES ANI	COND	11101	10 11	E0 0 D	TOTA	L 10	111725	LIII	-
Nuisance	es inspected, complain									4835
,,	Reported by Distr									57931
,,	Notices issued						1000			
Number	of Informations			1.1				1.2	*	
,,	Fined					* *				
,,	Magistrates' Orders									
	Withduaren and ago	and the form of the	DO TITO	rlz hoin	or done	e				. 1807
,,	Withdrawn and acq	uittea, i	me wo	ik bein	8					
	of Fines and Costs	uittea, i							14	
	of Fines and Costs		,.			(4.0		£73	14	
			,.			(4.0		£73	14	
Amount	of Fines and Costs	NCES ?	,.			(4.0		£73	14	
Amount	of Fines and Costs  REFERE  I to the Medical Offic	NCES ?	,.			(4.0		£73		0
Amount	of Fines and Costs  REFERE  I to the Medical Offic City Engine	NCES	 го от	HER	DEPA	ARTA	IENTS	£73		. *7771
Amount Referred	of Fines and Costs  REFERE  I to the Medical Offic  City Engine  Building Sur	NCES	 	THER	DEPA	ARTM	MENTS	£73		. *7771
Amount Referred	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin	ences corrections are supported to the correction of the correctio	  	THER	DEPA	ARTM	IENTS	£73		. *7771 . 1029 1091 . 5731
Amount Referred	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin	er er eveyor eer nt of Sc	TO OT	THER	DEPA	ARTM	MENTS	£73		. *7771 . 1029 1091 . 5731
Amount Referred	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin	er er eveyor eer nt of Sc	TO OT	THER	DEPA	ARTM	MENTS	£73		. *7771 . 1029 1091 . 5731
Amount Referred	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly	er er eveyor eer nt of Sc	ro ol	THER	DEPA	ARTM	MENTS	£73		. *7771 . 1029 1091 . 5731
Amount Referred	of Fines and Costs  REFERE I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly	ences oveyor neer of Scannon ouse ouse	TO OT	THER  THER	DEPA	ARTM	MENTS  houses.	£73		0 *7771 . 1029 1091 . 5731 . 1716
Amount Referred ,, ,, ,, ,, Number	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St	er e	ro on	CHER  OUSE	DEPA	ARTM	HENTS houses.	£73		0 *7771 . 1029 1091 . 5731 . 1716
Amount Referred ,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	REFERE I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  r of Inspections of St Street Houses for	encer er eveyor neer nt of Sc. school OUSE	ro ol	THER  THER	DEPA	ARTM	MENTS houses.	£73		. *7771 . 1029 1091 . 5731 . 1716
Amount Referred ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for	er er er eveyor neer school  OUSE Treet Hound Clean, Dirt	ro on	CHER  CHER  CHER  COUSE  COUSE	DEPA	ARTM	houses.	£73		. *7771 . 1029 . 1091 . 5731 . 1716 24883 25226 657
Amount  Referred  ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for	er er eveyor neer nt of Sc. school OUSE reet Hou and Cles	TO OT	CHER OUSE	DEPA	ARTM	houses.	£73		. *7771 . 1029 1091 . 5731 . 1716 . 24883 . 25226 . 657 . 83609
Amount Referred ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	REFERE I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for ",",", Apartments in S Inspections of Co	er e	ro on avenge childres	CHER  OUSE  Examine	DEPA	ARTM	houses.	£73		. *7771 . 1029 . 1091 . 5731 . 1716 . 24883 . 25226 . 657 . 83609 . 7460
Amount  Referred  ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	REFERE I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for ",",", Apartments in S Inspections of Co	er er eveyor eer nt of Sc. school  OUSE reet Hou and Cles treet Ho ourt Hou und Cles	TO OT  avenge childr  TO HO  ases  an  ty  suses an	CHER  OUSE  Examine	DEPA	ARTM	houses.	£73		. *7771 . 1029 1091 . 5731 . 1716 . 24883 . 25226 . 657 . 83609 . 7460 . 6751
Amount Referred ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	REFERE I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for ",",", Apartments in S Inspections of Co Court Houses for ",",","	er e	ro on avenge childred for Houses ty ty ty ty ty ty	CHER  OUSE  Examine	DEPA	ARTM	houses.	£73		. *7771 . 1029 . 1091 . 5731 . 1716 . 24883 . 25226 . 657 . 83609 . 7460 . 6751 . 709
Amount  Referred  ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	of Fines and Costs  REFERE  I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for "", ", ", Apartments in St Inspections of Co	er er eveyor eer nt of Sc. school  OUSE reet Hou and Cles treet Hou ourt Hou und Cles , Dirt	TO OT  avenge childr  ro Ho  ases  ty  ty  ty  uses E	CHER  CHER	DEPA	ARTM	houses.	£73		. *7771 . 1029 . 1091 . 5731 . 1716 . 24883 . 25226 . 657 . 83609 . 7460 . 6751 . 709 . 20805
Amount Referred ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	REFERE I to the Medical Offic City Engine Building Sur Water Engin Superintende * Chiefly  H  r of Inspections of St Street Houses for ",",", Apartments in S Inspections of Co Court Houses for ",",","	er e	TO OT  avenge childr  TO HO  ases  an  buses H  uses E.  House	CHER  OUSE  Examine  xamine  s	DEPA	ARTM	houses.	£73		. *7771 . 1029 . 1091 . 5731 . 1716 . 24883 . 25226 . 657 . 83609 . 7460 . 6751 . 709

### COURT AND PRIVY EXAMINATIONS.

Number	of Visits	to Cou	rts and	Alle	ys							106,817
,,	Closet	ts found	Dirty,	but	Cleansed	l by	Officer's	Instr	uction			79,444
2.5	Inform	nations				110			***	***	1/4	128
,,	Fined	***		11.1		-				***		106
Amount	of Fines	and Co	sts							£18 17	0	

Certain changes in the method of dealing with the courts and alleys were adopted during the year, and have been attended with very satisfactory results, both in ensuring constant cleanliness in the courts and alleys, and also economising the time of the inspector by employing it in the most efficient manner. The aim has been to keep the courts and alleys uniformly clean throughout the week, and with this view the district inspectors are instructed that every tenant in each court is in turn to be held responsible for the cleanliness of the court for a period of one week; the inspector records in his visiting book whose turn it is, and duly informs that tenant. Failing compliance with his requirements, an information is laid under a bye-law of the Local Sanitary Act.

The magistrate has rendered great help to the department by imposing a small fine in each case in which this action has become necessary. As a consequence there is a marked improvement in the condition of the courts, and also in the apparent willingness of the people to cleanse them.

### CELLAR EXAMINATIONS.

			CELLA	D EAL	TRITIA	MITT()	NO.				
Numbe	r of Inspectio	ns of St	reet Cella	rs				60	4.4		8216
1,	Cellars us	sed for	Lumber, (	Coals, &	kc						3196
"	,, F	ound E	mpty						1.		366
,,	,, I	llegally	Occupied				1.5				141
- ,,	,, L	egally .				1.0					4513
,,	Inspect	ions of (	Court Cella	ars							2026
19	Court C	Cellars u	sed for L	amber,	Coals.	, dec.		4.4	100		1175
,,	,,	,, F	ound Em	pty	1000	157					145
,,	,,	,, I	llegally O	ccupied	1	- 60					77
",	,,	,, L	egally								629
,,	Cellars	found I	Dirty	111			4.4		-		43
,,	Cellar 1	Notices	Issued		7.						184
,,	,,	Informa	tions	14.4				4.4			51
,,	Fined .					4.7				-	43
,,	Withdrawn										8
	0.731 3	G							£4 4	0	
Amount	of Fines and	Costs	- 31		* *				T4 4	U	
		WA	TER CL	OSET	CON	VERS	IONS.				
Number	of Notices										47
11	Certified										59
	Constructed										78
2.7	under Notice										24
19	of Information										13
13	withdrawn,										13
,,	withdiawn,	WOLK DO	ing done						-		

### INFECTED AND DIRTY HOUSES.

1290 Infec	ted Street	Houses	Inspected	, contai	ning					1761	cases.
214 ,,	Court	,,	,,	.,					1	257	,,
19 ,,	Cellar	s	,,	,,						22	,,
Number of	f Notices t	o Owner	s to Clean								
,,	71	,,	12 21	Dirt	у Но	ises				1518	
,,	,,	Occupie	ers to Whi	itewash	Dirty	Hou	ses			484	
,,	,,	Owners	to White	wash E	cterio	r of C	ourts			1994	
,,	Informat	ions agai	nst Infect	ed and	Dirty	House	es			309	
,, Fi	ned							9		34	
,, Ac	equitted ar	nd Withd	rawn							275	
Amount of	f Fines and	l Costs					£	11 18	6		

### REMOVALS TO MORTUARIES.

Bodies Re	moved to Mo	ortuarie
Smithdown Road.	St. Martin's.	Fazak- erley.
1	19	

### PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Town Notices										234
,, River ,,		1111	***							213
,, Informations agains	st Mar	nufacto	ries		***	**	***			228
,, ,,	Ste	amers								195
., Fined	. he					***				407
,, Acquitted or Withdra	wn				200					16
Amount of Fines and Costs				***	***		£349	15	6	
	MA	RGAI	RINE	ACT	7.					
Number of Visits to Shops					***					2,521
,, Samples obtained					2.5					127
,, ,, Analysed										48
,, Informations							500			103
,, Fined										83
									-	

Amount of Fines and Costs

£67 9 6

### PROCEEDINGS UNDER THE SALE OF FOOD AND DRUGS ACT.

No. of Samples.	Description of Samples.				Results of Analysis.	
389	New Milk	29	were	foun	d adulterated.	
125	Skimmed Milk	14	,,	,,	,,	
62	Lard	19	,,	,,	,,	
29	Yeast	14	,,	,,	,,	
17	Mustard	3	,,	,,	**	
13	Butter	3	"			
6	Whiskey	1	was	"	,,	
1	Dutton Mills	i		,,	,,	
î	Dank Wine	i	,,	22	,,	
48	Donnon	*	17	,,	Genuine.	
11	Drogorgan			11		
7	Coffee			"	**	
7				,,	2.9	
6	Ground Ginger Cheese			,,	**	
				,,,	**	
4	Arrowroot			"	,,	
4	Cayenne Pepper			,,	**	
3 3 3 3	Rum			,,	**	
3	Preserved Peas			,,	,,	
3	Chewing Gum			,,	**	
3	Flour			,,	"	
3	Corn Flour			,,	**	
3	Olive Oil			,,	***	
3	Medicine by Pre-					
	scription			,,	,,	
3	Honey			,,	,,	
2	Condensed Milk			,,	,,	
2	Bread			,,	,,	
2	Marmalade			,,	,,	
1	Cream			,,,	,,	
1	Gin			,,	,,	
1	Ale			,,	,,	
1	Nitrous Ether			,,	,,	
1	Ground Lump					
	Sugar			,,	,,	
1	Preserved Beans			,,	,,	
1	Capers			.,	,,	
1	Vinegar			,,	,,	
1	Trisnitrate of			7.7		
	Bismuth			,,	1)	
4	Tea			,,	the control of the track	
otal 773						

The number of prosecutions was 77, the result being that 3 cases were dismissed with a caution or withdrawn, and in 74 cases penalties were inflicted, varying from 5s. and costs to £10 and costs, amounting in all to £177 17s. 6d. Five informations were laid for refusing to sell samples of milk; a fine of 10s. and costs was inflicted in three instances; 20s. and costs in one case; and the other case was dismissed. One information was laid for refusing to sell a sample of butter, and a fine of 20s. and costs was inflicted.

### SCAVENGING OPERATIONS.

Mr. Richard S. Reynolds, M.R.C.V.S., the Veterinary Superintendent, has charge of the Scavenging Staff, and has kindly supplied the following tables.

The necessity for the quick removal of all refuse from the proximity of dwelling-houses is universally conceded, but the difficulty lies not so much in the way it could be effected, but in the increased cost. To cart away the material from a house once a week, instead of once in three or four months, would require a larger staff, and consequently an increased expenditure.

It is the old question, which is the most valuable, money or health. When a man and his family are enjoying good health the necessity for an increased outlay cannot be understood, but when sickness comes, and perhaps death, what then is the value of his money?

Well as the work is now done, it ought to be done better, and it is essential that further facilities should be provided for the Scavenging Department to remove more frequently the contents of the ashpits, and not permit offensive matters to accumulate for three or four months, poisoning the atmosphere and all who breathe it. If it was not for filth, our death roll would be slight. Many thanks are due to Mr. Reynolds and his staff for making the most of their means, for without the energy and perseverance they devote to their work, it would not be possible to continue the improvement in the health and comfort of the people.

Year 1888,

TABLE No. 1.

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

Average	of each Midden.	Cart Loads.	1.3									
of Work.		Cart per Night.	.4									
Analysis of Work.		Carts. Horses. Man per Loads per Night. Night.	5.6									
Staff.		Horses.	60									
Working		Carts.	60									
average		harf Ien.	1.8									
Nightly average Working Staff.		Midden W	4-9									
		River Craft Dock.	477									
Where Deposited.	Sandhills.	:										
oil and Ash	Loads of Nightsoil and Ashes.  kemoved. Where D	Wb	W	Chisen- hale Street	3,798							
s of Nights	ved.	Total.	4,275 4,275									
Load	aber Remo	Number Removed.	mber Remo	mber Remo	nber Remo	ber Remov	ber Remov	aber Remo	nber Remo	nber Remo	Ashes.	4,275
	Nun	Manure.	: 2									
	Middens,	ec., Emptied.	3,289									
	Notices	Received. Emptied.	647									

TABLE No. 2.

SERVICE FOR THE COLLECTION AND REMOVAL OF DRY ASHPIT ASHES.

Average	of each		11.
of Work.		Man per Cart per Day.	80.60
Analysis		Man per Day.	89.61
ing Staff.		Horses.	62.8
Average Daily Working Staff. Analysis of Work.		Ashpit Carts and Men. Wagons.	.65
Average 1		Ashpit Men.	85.7
Loads of Dry Ashes.		Rubbish Tips, &c.	5,164
	ed.	Waver- tree.	882
	Where Deposited	River Craft Dock.	28,592
	Wh	Sandhills.	21,113
		Chisen- hale Street	19,918 21,113
		Number Removed.	75,669
	Ashpits	Emptied.	1,808 426,370
		Received	1,808

TABLE No. 3. SER

WATER	uff.	Urinal Men.	ni-
котан	orking Sta	Urin	,
TABLE No. 4. SERVICE FOR FLUSHING AND CLEANSING TROUGH WATER CLOSETS.	Average Working Staff.	Trough W. C. Men.	43.2
TABLE		Number of Trough Water Closets.	3,031
ERVICE FOR FI		Number of Urinals. Number of Trough Water Closets.	235—618 Stalls.
OF BELL		Carts Employed.	15-3
REMOVAL	Where Deposited.	River Craft Rubbish Tips	
No. 3. IN AND ISHES.		River Craft Dock.	5,774
TABLE No. 3. SOLLECTION AND CART ASHES.		Sandhills.	2,272
OR THE C		Chisenhale Street.	8,732
SERVICE FOR THE COLLECTION AND REMOVAL CART ASHES.		Loads Kemoved	16,778

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

	Average	Loads Removed Daily per Cart.	4.5		
		Horses.	.49		
Average Daily Staff.		Carts.	64.		
		Sweeping Machines.	15.		
		Scavengers.	246		
Loads of Street Sweepings Removed.		Refuse on Tips and New Macadam.	134		
	Where Deposited.	River Graft Dock.	17,070		
		here Deposite	here Deposite	here Deposite	Wavertree.
	W	Sandhills.	12,796		
		Chisenhale Street.	49,563		
		Total Number Removed.	84,274		

TABLE No. 6.

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

	Average Daily Staff.		Horses.	53.5
	Average I		Men.	141.
		oft Dock.	Refuse.	678
		River Craft Dock.	Manure.	190
	Where Deposited.	Chisenhale St. Sandhills.	Manure. Refuse. Manure. Refuse. Manure. Refuse.	411
Loads of Street Sweepings.			Manure.	219
			Refuse.	136
ads of Stre			Manure.	1,677
Los		Total.		3,811
	red.	Dafman	realiza.	1,225
	Removed.	Manne	ASHUB.	:
		Manne	Manual	2,086

TABLE No. 7.

# SERVICE FOR STREET WATERING.

SALT WATER.

### FRESH WATER.

Numbe Days	which C		66
Average No. of Loads Distributed	Cart.	Large.	6-8
lly Staff em- g the Season.		Horses,	39.5
Total Number of Loads Average Dally Staff em- ployed during the Season.	Watermen.		5.5
Loads	Small.	Day.	
imber of stributed.	.e.	Day. Night.	3,888
Total Ni	Large.	Day.	:
Number of Days on	which Carts were out.		79

Average No. of Loads Distributed	Daily per Cart.	Large.	10.8
		Horses.	34.5
Average Daily Staff em- ployed during the Season.	Wednesday	watermen.	20.
	Small.	Day.	4,485
nber of tributed.	.e.	Night.	20,57
Total Number of Loads Distributed.	Large.	Day.	35,087 20,57 4,485
Number of Days on	which Carts were out.		66

TABLE No. 8.

DESPATCHES OF MANURE AND REFUSE.

Chisenhale St., by Flats.  Chisenhale St., by Flats.  Sandhills, by Rail  Chisenhale St. by Flats.  Chisenhale St. by Flats.  Vavertree  do.  Chisenhale St. by Flats.  Vavertree  Chisenhale Street and  Sandhills, vid Stanley D'k  Per "Alpha"  Do., per "Alpha"  Do., per "Beta"  13,118 14,406 27,524  Chisenhale St. by Flats.  Total.  Contractors. Farmers. Depôts. Sea Total.  11,336 51,408 3,168 51,564  11,304 17,664  11,304			Saleable	Saleable Manure.			Unsalea	Unsaleable Refuse.				Average I	Average Daily Staff.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Night Soil.	Sweepings.	Mixture.	Total.	Contractors.	Farmers.	Depôts.	Sea	Total.	Grand Total in Tons.	Inspectors and Foremen.	Labourers.
$\left. \begin{array}{cccccccccccccccccccccccccccccccccccc$	enhale St., by Flats	:	2,888	8,448	11,336	:	51,408	3,168	-	54,576	65,912	_	
$\begin{cases} \text{do.} \\ \text{and} \\ \text{ey D'k} \\  \\ \text{1,910} \\  \\ \text{13,118} \\ \text{14,406} \\ \text{27,524} \\  \\ \text{12,192} \\  \\ \text{12,192} \\  \end{cases}$	hills, do	:	000 %	:	. 090	:	8,640	9,024	:	17,664	17,664	-	53.8
ey D'k  ey D'k	ertree do	: :	2,400	: :	2,400	: :	1,304	: :	: :	1,304	3,704	.:	Ċ1
1,910 5,958 7,868 3,664 3,664 13,118 14,406 27,524 74,987 12,192	hills, vid Stanlev D'k												
1,910 5,958 7,868 3,664 3,664 13,118 14,406 27,524 74,987 12,192	er "Alpha"	:	:	:		:	:	:	1,950	1,950	1,950		10.
13,118 14,406 27,524 5,604	r Beta		0100			:	,000		60,110	60,110	60,110		
13,118 14,406 27,524 74,987 12,192	Crart Dock	:	1,910	9,898	7,868	:	3,664			3,664	11,532		_
13,118 14,406 27,524 74,987 12,192	per Alpha	:	:			:		:	03,280	53,280	53,280	1	748.
27,524 74,987 12,192	per "beta"	:	:	:		:	:	:	8,650	8,650	8,650		
			13.118	14 406	97 594		74 987	19 199	193 900	091 116	609 560	9.	0.50
				Con free		:	10044	701107	000,000	201,110	660,000	1	000

TABLE No. 9.

## HORSES.—DAILY AVERAGE NUMBER.

	η	Not Ordered	9.9
	'str	Disinfecting Va	7.7
		Sundry Places.	60 60
	er.	Watering before Steam Holler.	64 64
	Brownlow E		÷
	Cit	Sewers Cleansing.	10.3
		Paving.	15.1
Supplied for various Works.		Abattoir.	1.6
		Wharf.	çi
	dessenger.		Ġι
		Carr Hall.	.0
	Scavenging.	Watering before Street Machines.	5.6
		.guiretaW	Ξ
		Superintendent	61
		Market.	Ξ
		Yards, Stables, Stores, &c.	6,1
		Street Scavenging.	79.
		Bell Ash Removal.	15.3
		Dry Ash Removal	8.59
		Might Soil Removal	60
00	Ĺλ	At Work eve	ç. 23 67
on Horse		Percentage e	4.4
Corporation Horses.	ork.	Effective for W	234
		Number.	543.
Hired.		Number	2.0

	Sold.	26
Number Disposed of	Destroyed.	:
	Died.	6
New Horses.	Bred.	C4
New ]	Purchased.	35

TABLE No. 10.

AVERAGE DAILY STAFF OF MEN EMPLOYED.

	10		
	т	Grand Tota	925.4
		Total.	27
-	Stanley Dock.	sternoda.	-
· &cc		Foreman.	
pôts	Various Town Deposit Places.	.stormoda,l	
De	Ford.	Foreman.	-
rves	Corsey Lane, Aintree, and	Foreman. Labourers.	
Wharves, Depôts, &c	Dock.	Labourers.	8
	River Craft	Foreman.	-
	Sandbills,	Labourers.	1 22
	Chisenhale St.	Foreman.	( -
,		Total.	200
Workshops.		Painters.	00
orks	s and Strikers.		60.00
A	softio.	Shoeing Sm	i-
	.8	Cartwright	i i
Yards, res.		Total.	234.1
Stol	ardmen, Stable- l Storekeepers.	Carters, Y	226-1
Stables	chmen.	Might Wat	7
δñ.	,819,	Horsekeep	+
		Total.	9-275
	*8.50	Orderly Bo	15.7
		00	
	pper Barges.	19.7	
		Boat Men.	9-8
		Ash Men.	t- 61 80
	-30	Disinfectin	:
Day Service.		M IsairU	=
Ser	oset Men.		65
Day		Gally Mei	
		Passage M	29 18
		Cart Follo	79 2
		Sweepers.	
		DT HOTHUS	76-3 123-6
		M worsest	
		Waterme	*
	s and Foremen.		8.5
-	dottoxog pue s		30
vice.		.Iato'T	. 00
Ser		Wharf M	90
Night Service.	den.	Midden A	10
-	'8.	Inspector	01
-		.lstoT	6.
Seneral.	· A	Clerks Office Bo	4 1
Ge	per, Checker, &c.	Timekeel	9
	.81	Inspector	-
		*****	

TABLE No. 11.

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

. Weekly Cost of each Horse's Keep-				Gross weekly cost11s. 53d.	Credit value of	Manure 111gd.	10s. 6‡d.				
Daily Average Consump- tion per Horse.	Lbs. 11-30	3.60	.45	2.75	.35	9.70	010	9-47	0.9	1.76	110-
Total Consumption of Food.	10,254 centals.	eas 3,264 ,,	397 ,,	2,497 ,,	nseed 292 ,,	9 011 cumbs		7,679 ,,,	4,844 ,,	1,433 ,, \	1,520 Sacks \
Total Co	Corn	Beans and Peas	Oats	Bran	Meal and Linseed	Roots	Grass	Hay	Straw	Peat Moss	Sawdust
Days Keep.			D 700 U	Health	Committee.						

TABI

### DURING THE YEAR 1888, IN THE URBAN SANITARY DISTRICT OF LIVERPOLATION OF SUCH LOCALITY

(I.) NAMES OF LOCALITIES adopted for the	POPUL AT ALL		irths		Mor	FALITY F	ROM AL	L CAUSE	S, AT	
purpose of these Statistics; public insti- tutions being shown as separate localities. WARDS.	Census 1881.	Estimated to middle of 1888.	Registered Births	At all Ages.	Under 1 Year.	and under 5.	5 and under 15.	15 and under 25.	25 and under 60.	an 11 Was
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11
Scotland	70606	64049	2177	1376	396	300	73	36	406	11
Vauxhall	15382	12773	303	223	62	47	8	11	63	
St. Paul's and Exchange	19937	17033	422	332	88	48	10	7	119	
St. Anne's and Lime Street	36688	33340	796	599	176	115	25	22	184	
Castle Street and St. Peter's	6644	5627	89	76	16	11	3	2	28	
Pitt Street and Great George	18910	15755	438	330	88	48	18	12	106	
Rodney Street and Abercromby	41997	38266	1205	571	129	65	25	21	177	1
Everton	109812	120619	3942	2092	616	459	127	73	496	23
Kirkdale	58145	83075	2299	1214	382	229	69	37	312	11
West Derby	67727	80057	2519	1249	356	258	69	39	332	11
The Toxteths	106660	129144	3587	2026	559	398	119	85	488	33
Workhouses & Hospitals				2071	113	111	128	188	1091	44
Totals	552508	599738	17777	12159	2981	2089	674	533	3802	200
Deaths occurring outside the division persons belonging thereto	or dis	trict ar	nong	194	13	2	3	6	92	77
Deaths occurring within the division persons not belonging thereto	or dis	trict ar	nong	178	5	7	15	25	101	53

### OF DEATHS

CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES, AND SHOWING AND THE BIRTHS THEREIN DURING THE YEAR.

12.   13.   14.   15.   16.   17.   18.   19.   20.   21.   22.   23.   24.   25.   26.   27.   28.   29.   30.   31.   32.	
12.   13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 32, 33, 34, 35, 36, 36, 37, 37, 38, 38, 38, 38, 38, 38, 38, 38, 38, 38	
Under 5         49         6         1         10         32         .         5         .         68         .         .         .         1         .         4         128         .         <	S Other Diseases.
5 upwards       2       3       1        1       8        4        8       3	-
5 upwards	355 255
5 upwards	69 43
5 upwards       1        1       1        3       1       1        3         43       69       35       9         Lunder 5	84
5 upwards	146 141
5 upwards        2       1        1       4         3          24       44       19       6         Under 5        6       4        2       16         18        1       1 <td< td=""><td>11 21</td></td<>	11 21
5 upwards      3      1      2     2       52     67     33     6       Under 5      102     20     3     23     45      2     76     2        6     233      42       5 upwards      15     6     6     2     4     4     21      9      4     4     1     2      162     218     101     28       Under 5      41     9     2     20     38      1      54     2        5     100      27       5 upwards      1     3     1      2      1      5     1      2     2     88     143     66     21       Under 5      46     12     9     16     43      1      46     1       6     114     1     13       5 upwards      5     9     3     3     3     2     9	63 90
Under 5        102       20       3       23       45         2       76       2           6       233        42         5       upwards        15       6       6       2       4       4       21        9        4       4       1       2        162       218       101       28         Under 5        41       9       2       20       38        1        54       2          5       100        27         5       upwards        1       3       1        2        1        54       2           5       100        27         5       upwards        1       3       1         1 </td <td>115 207</td>	115 207
Under 5 41 9 2 20 38 1 54 2	521 430
Under 5 46 12 9 16 43 1 46 1 6 114 1 13 15 upwards 5 9 3 3 3 2 9 4 5 2 119 129 65 13 Under 5 17 48 16 17 92 74 3 12 170 1 25	312
Under 5 17 48 16 17 92 74 3 12 170 1 25	306 264
	482 435
Under 5 7 14 8 1 7 1 2 2 2 37 1 20 5 upwards 1 3 16 2 21 39 12 4 4 6 3 322 469 137 158	124 650
Under 5 300 121 43 99 298 1 8 2 398 5 6 2 41 957 5 196 5 upwards 1 31 66 23 9 15 31 117 2 41 48 21 9 6 7 1104 1688 700 318	
Under 5	8 65
Under 5 1	9 86

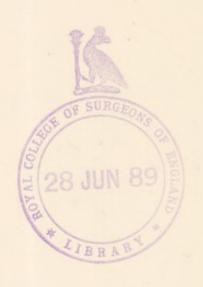
### TABLE OF NEW CASES OF SICKNESS,

Coming to the knowledge of the Medical Officer of Health during the year 1888, in the Urban Sanitary District of Liverpool, classified according to

### LOCALITIES and DISEASES.

Names of Localities.	New Casi		NESS IN PE	ERSONS BELONGING TO									
Wards.	Small Pox.	Measles.	Scarlatina.	Diphtheria,	Continued Fevers.								
Scotland		386	37	1	113								
Vauxhall		54	5	2	29								
St. Paul's and Exchange		63	8	. 2	27								
St. Anne's and Lime Street		170	25	4	46								
Castle Street and St. Peter's		13	4	3	3								
Pitt Street and Great George		46	31	4	12								
Rodney Street and Abercromby	2	135	113	4	30								
Everton		1256	236	25	137								
Kirkdale	3	767	145	8	98								
West Derby	7	656	264	34	62								
The Toxteths	7	229	429	60	109								
Emigrants, Seamen, and others admitted to Hospital whose residences were unknown	8	43	19		13								
Totals	27	3818	1316	147	679								

### MORTALITY MAP OF FEVER IN 1888. The REID Data Marks the Musclear of Deaths from Explands, and that IEEE Data the Number from Explands. The flatter controlled in the State of Controlled to the State of Controlle PHILIP'S PLAN OF LIVERPOOL M E R R E R



### DEATHS REGISTERED IN THE CITY OF LIVERPOOL,

			DI	URING THE YEAR ENDING SATURDAY, 31ST DECEMBER. 1888.																																
58X.				3	AGE-31	DOW.							lat Earth 1	A. Bowell not Bastin	Date Stand	Int.	legten stock	M. George District.		Throw's .	Moved Plose District.	- 11	41	Free Party December	State of Land	-		Mose Pleased I	4	Hosper	TALK.	1 2	rocker lates.	Total Park	-	Harris
CAUSE OF DEATH.	2	10	10	20 2	25 30	41	20	60	79	10	90	50 7	113	111	Park Su	Parket Name	Steel Steel	100 E	100	Creat Country of Ward	States At-	-	400	y at least	-	m \$5	12			1 25	Parts.	Total In				
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