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REPORT
ON THE
HEALTH OF LIVERPOOL,
DURING THE YEAR 1891,

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

BY

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WITH TABLES SHOWING THE INFLUENCE OF THE
PREVALENCE OF DISEASE
J. STOKES, M.D.
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LIVERPOOL
J. H. LITTLE & CO. PRINTERS & BINDERS, LANC.

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THE CENSUS OF 1891,

AND THE

POPULATION OF LIVERPOOL.

The method adopted by the Registrar-General for estimating the population of a town is based on the assumption that the same rate of increase or decrease continues in the present decade as in the previous one.

From 1871 to 1881 the population increased from 493,405 to 552,508, and the estimated population between 1881 and 1891 was calculated on the same rate of increase; but at the Census of 1891 it was found to have fallen to 517,951, about 100,000 less than the estimated number.

It was well known that the population of the Parish was decreasing, and in forming an estimate of it, the supposition was that the same rate of decrease prevailed as between 1871 and 1881, when the population decreased from 238,411 to 210,164, which gave as a probable decrease a further reduction of 33,000, making the estimated population 177,000, whereas, the Census of 1891 shews the population to have fallen to 156,991, a decrease of 53,173, a greater decrease by 20,000 than estimated.

The decrease in the population of the Parish has been going on from 1861, when it was at its maximum, 269,742, and the loss had been more than met by the growing population of the Out-Townships up to 1881, when the decrease of the Parish was 59,578 in the twenty years, and the increase in the Out-Townships for the same period was 168,148.

From 1861 to 1881 a large portion of the vacant ground in the Out-Townships, Kirkdale, Everton, and the Toxteths, had been covered with dwelling houses, but the building operations greatly declined between 1881 and 1891, owing in a large measure to the number of empty houses, there being no less than 10,294 at the Census of 1881, and the limited space of land not built upon. Though it was known that the population in the Out-Townships was not increasing in anything like the same ratio as previously, it was not expected that the increase would have been so small as not to have covered the loss in the Parish.

The reasons for this opinion were, first, the increase of houses erected during the ten years, which was 4,937 above the number demolished, including 2,352 under the Sanitary Amendment Act, 1864, as insanitary. That these houses were occupied as well as some of the previously untenanted ones is evidenced by the increase in the number of assessments for water rent, 5,215 over the year 1881.

Secondly, the natural increase of the population by excess of births over deaths. From 1881 to 1891 there were 191,720 births and 140,195 deaths, giving an excess of 51,525 inhabitants. Now, if to this number is added the decrease of population, as shown by the late Census, 34,557, the actual decrease of the population of Liverpool, during the ten years, has been 86,082, provided the Census has been correctly taken.

The number of uninhabited houses at the Census of 1881 was 10,294, and if to these be added 4,937, built in excess of those demolished, and 823, the reduction in the number of inhabited houses at the Census of 1891, there should be 16,054 uninhabited houses in 1891.

By the return of the Census for 1891, the number of uninhabited houses, or as the Registrar-General puts it, houses in which no person slept on the Census night, was 14,618, giving a lower number by 1,436 than the previously calculated one.

The Head Constable, Captain Nott Bower, for Police purposes, had a Census taken on the 27th March, 1892, of unoccupied houses, and has kindly supplied me with the returns, which shew only 7,927 houses to be untenanted, and taking these figures as identical with those of 1891, there must have been on the Census night 6,691 inhabited houses without any persons sleeping in them.

That many people have taken up their residences outside the Municipal boundaries is patent to all who witness the large numbers of people pouring into the city by the morning trains and steam-boats, and departing by the evening ones; and for people who reside in the outskirts of the city, or just beyond the boundary there are the Tramcars and Omnibuses fully laden every hour of the day. That this is a desirable change, all Sanitarians must admit, and has been brought about as much by the policy of the City Council as by the improved condition of the inhabitants in material wealth.

The density of the population is even now greater than in any other town, being 99·3 per acre, and a further reduction is desirable, the only drawback being that the well-to-do classes migrate, and the poorest members of the community are left behind.

This migration has been into districts closely bordering upon the city, and though under separate governing bodies are still part of Liverpool, which is the heart and life of a population second only to London in number and importance.

Glasgow has claimed on the recent Census to be the second city in the empire, but that has been brought about by different acts for the extension of its boundaries, the most recent one of which came into operation on November 1st, 1891, and added an acreage of 5,750, with a population of 92,363, whilst Liverpool's Municipal boundaries are the same as settled in 1836, and comprise an area of only 5,210 acres.

The following table is taken from Dr. Russell's Report on the Census of 1891 :—

	Acreage.	Population.
Old Glasgow	6,111	565,710, or 93 persons per acre.
New Glasgow	5,750	92,363, or 16 „ „
<hr/>		
Greater Glasgow	11,861	658,073, or 56 „ „

Dr. Russell states that if they take the population massed within a radius of four miles of the Exchange, they have a population of 806,085.

Now if we compare this report with the condition of Liverpool, we find within the Municipal Boundaries on 5,210 acres a population of 517,951, but if we add the suburbs—

Walton (including Bootle) ...	92,779
Crosby ...	14,625
Litherland ...	17,242
West Derby ...	37,779
Wavertree ...	28,321
Toxteth Park ...	21,046
<hr/>	
	211,792

Greater Liverpool contains 729,743 people.

If we take the population massed within a radius of four miles of the Liverpool Exchange, we should have to include—

Birkenhead	...	...	99,184
Wallasey	...	...	33,227
<hr/>			
			132,411

which would give a population of 862,154 to compare with 806,085 in Glasgow.

For statistical purposes it is quite misleading to take an old and densely populated town whose area has not been extended for fifty-five years, and comparing it with other towns which have been absorbing rural districts, inhabited by well-to-do people, and by the low mortality in the new districts, giving an apparent decrease in the death rate of the whole, which does not in reality exist.

Old Liverpool appears as if it would share the fate of Old London, whilst decreasing in resident population, growing in wealth and importance, and spreading its people over larger areas which, though under the management of Local Boards, owe their existence and well-being to the Old Town.

Within the last few years nearly every large town has had its boundaries extended, but the application by Liverpool for similar purposes has been refused by Parliament.

TABLE I.
CITY OF LIVERPOOL—CENSUS OF 1881 AND 1891.

WARDS.		Population 1881, including Shipping.	Population 1891, including Shipping.	Decrease.	Increase.
Scotland	...	70,606	53,723	16,883	—
Vauxhall	...	15,382	7,115	8,267	—
St. Paul's and Exchange	...	19,937	12,948	6,989	—
St. Anne's and Lime Street	...	36,688	27,641	9,047	—
Castle Street and St. Peter's	...	6,644	5,113	1,531	—
Pitt Street and Great George	...	18,910	14,362	4,548	—
Rodney Street and Abercromby	...	41,997	36,089	5,908	—
Everton	...	109,812	110,517	—	705
Kirkdale	...	58,145	66,131	—	7,986
West Derby	...	67,727	76,971	—	9,244
The Toxteths	...	106,660	107,341	—	681
City		552,508	517,951	34,557	—

TABLE II.
CITY OF LIVERPOOL.
CENSUS RETURNS, 1831—1891.

YEAR.	Total Population.	Population of Parish.	Population of Out-Townships	Number of Houses.		Persons per House.
1831	205,964	165,175	40,789	33,684		6·1
1841	286,487	223,003	63,484	44,326		6·4
1851	374,401	255,309	119,092	Inhabited. 54,306	Uninhabited. 5,036	6·9
1861	443,938	269,742	174,196	65,781	5,197	6·7
1871	493,405	238,411	254,994	78,403	8,532	6·3
1881	552,508	210,164	342,344	92,307	10,294	5·98
1891	517,951	156,991	360,960	91,336	14,618	5·67

TABLE III.

CITY OF LIVERPOOL.

HOUSES ERECTED AND HOUSES PULLED DOWN DURING
THE 10 YEARS 1881—1890.

Year.	No. erected.	No. pulled down.
1881	1,696	222
1882	1,232	395
1883	1,136	916
1884	1,460	800
1885	1,180	766
1886	580	467
1887	866	464
1888	586	180
1889	601	284
1890	543	449
Total.....	9,880	4,943

TABLE IV.

CITY OF LIVERPOOL.

NATURAL INCREASE OF BIRTHS OVER DEATHS DURING
THE 10 YEARS 1881—1890.

Year.	No. of Births.	No. of Deaths.	Natural Increase.
1881	20,762	14,733	6,029
1882	20,498	14,818	5,680
1883	19,907	15,074	4,833
1884	20,071	14,382	5,689
1885	19,464	13,764	5,700
1886	19,559	13,919	5,640
1887	18,414	14,006	4,408
1888	17,777	12,159	5,618
1889	17,676	13,047	4,629
1890	17,592	14,293	3,299
Total.....	191,720	140,195	51,525

NOTE.—The birth rate for England and Wales for 1890 was 30·0 per 1,000 of the population, the average rate for the preceding eight years having been 33·2, whilst in London for 1890 the proportion was 29·1 per 1,000 of the population, the rate having continuously fallen year by year since 1879 when it was 35·5 per 1,000, and the natural increment of the population amounted for 1890 only to 39,447, whereas it had averaged 52,659 annually for the five next preceding years.

REPORT, 1891.



ASSUMING the Census of April, 1891, to be correct, and the population to be decreasing at the same rate as between 1881 and 1891, the estimated population at the middle of the year will be 517,116, and it is on this number the following statistics are calculated.

The area of the City and County of Liverpool contains 5,210 acres, with a density of population of 99·3, but deducting the space occupied by the docks and quays (733 acres) the density will be 115 per acre.

Notwithstanding the decrease of population during the past decade, Liverpool continues the most densely peopled city in Great Britain. The density of—

London is	56·5	per acre.
Manchester	39·6	„
Birmingham	51·2	„
Sheffield	16·6	„
Leeds	17·1	„
Edinburgh	44·4	„
Glasgow	92·8	„
Liverpool	99·3	„

The average of 28 large towns in England is 36·3 per acre. The natural increase of the population by the excess of births over deaths is 3,921, but according to the Registrar General's estimate this excess, with a large number of citizens, will migrate, and reduce the population of Liverpool at the middle of 1892 to 513,790, giving a loss of 7,247 people.

The total number of deaths was 13,911, being at the rate of 26·9 per 1,000 of the population, and slightly lower than in the previous year on the corrected population. There were 17,832 births, being 240 more than in the previous year, making the Birth rate of the city 34·5 per 1,000, the average of the previous ten years being 35·7.

The deaths occurred in the following periods of the year :—

Deaths.				
First	quarter	3,535,	equal to	27·3 per 1,000.
Second	„	4,101,	„	31·7 „
Third	„	2,892,	„	22·4 „
Fourth	„	3,383,	„	26·2 „
		<hr/>	<hr/>	
		13,911,	„	26·9 „

The second quarter is usually the most healthy, but owing to the prevalence of Influenza the very opposite was the case this year, the second quarter being the most fatal of the four. Liverpool did not suffer so much as other towns in 1890, the disease not appearing here until there was a general decline in its prevalence over the whole country.

The following table illustrates the effects on the mortality of the city by Influenza in 1890 :—

Week ending	Deaths from all causes.	Deaths from Lung Diseases.	Deaths from Phthisis.	Mean Temperature.
February 8th, 1890...	320	108	23	38·6
„ 15th „	365	114	44	34·7
„ 22nd „	355	149	29	39·7
March 1st, „	347	134	29	36·7
„ 8th „	355	139	36	39·1
„ 15th „	306	94	22	48·3
„ 22nd „	273	95	22	43·2

The disease did not manifest itself until later in the year, 1891, that is, towards the end of April, when it became more generally prevalent.

Week ending	Deaths from all causes.	Deaths from Lung Diseases.	Deaths from Phthisis.	Deaths from Influenza.	Mean Temperature.
May 2nd, 1891...	324	97	23	7	48·4
„ 9th „	369	134	25	21	51·2
„ 16th „	356	129	25	39	51·1
„ 23rd „	388	116	35	55	46·4
„ 30th „	384	119	24	40	49·1
June 6th, „	352	105	31	29	55·8
„ 13th „	311	69	32	15	53·5

The contagiousness of the disease was evidenced by the rapidity with which it spread through different households, though in some instances there would be only one or two cases, whilst in others every member would be affected. The immunity possessed by some individuals inspired the hope that it was not contagious, but its rapid diffusion and the alarm created was reflected by the almost general desire to have influenza placed on the list of infectious diseases requiring notification and isolation. The great tendency of all classes, whether educated or not, to rush into a panic at the presence of disease is something surprising in these enlightened days, the demand for isolation or quarantine of the sick was equally as absurd as the nostrums advertised for its prevention and cure. To carry out a system of isolation was impossible, for the following reasons :—

1st. The difficulty, if not impossibility, of differentiating in the early stages between influenza, a possible cold, or the premonitory symptoms of some acute diseases.

2nd. The rapidity with which it spreads over a large area would greatly exceed any preparations that could be made for its control, and before any public body could decide upon the plans to be adopted the disease would have run its course.

3rd. Owing to the difficulty of early correct diagnosis, many cases of Catarrh would be notified as Influenza, and if all are to be isolated, and members of the same family or household are not to attend business or school, as in Smallpox, Scarlatina, etc., the whole trade of the district, as well as education, would come to a standstill.

The best measures for adoption by the public are to avoid anything like a panic, or revelling as some people are fond of doing, in anticipating all kinds of evil ; to observe the usual hygienic laws, cleanliness of person and surroundings, free ventilation of rooms ; if the weather is cold keep up a good fire, it will ventilate as well as warm the room ; avoid exposure to cold and fatigue ; live regularly, but well ; be temperate in all things ; not to indulge too much in alcoholic liquors, nor run into the opposite extreme of total abstinence if accustomed to their use. Should any person feel the premonitory symptoms of the disease he should take to his bed, keep warm, and send for medical assistance.

ZYMOTIC DISEASE.

The deaths from Zymotic causes during the year were 1,876, being the lowest number yet recorded, the average for the last ten years being 2,559.

The decrease was in the following diseases :—

Diseases.	1890.	1891.	Decrease.
Scarlatina	577	119	458
Measles	535	320	215
Diphtheria	104	63	41
Croup... ..	107	56	51
Diarrhœa	468	330	138

There was an increased mortality in the following :—

Diseases.	1890.	1891.	Increase.
Fever	123	131	8
Whooping Cough ...	355	438	83

The increase of Fever deaths (8) arises from the larger number of Fever patients sent into our hospitals by the outside Local Authorities, who find it more economical than providing their own hospital accommodation, and at the same time removing from themselves the disadvantage of having Fever deaths recorded as occurring in their districts.

THE INFECTIOUS DISEASE (NOTIFICATION) ACT, 1889.

After twelve months working of this Act it is gratifying to record the smoothness with which it works, and the public advantage obtained by a considerable reduction in the mortality of the specified diseases. The small amount of friction that has arisen may be attributed to the personal supervision of the Medical Officer of Health, to whom all notices are sent, and who directs the removal to hospital of suitable cases, and refers others for further enquiries. Of the total number of patients, 1,113, taken to hospital by the Officers of the Health Committee during the year, 1,016 were removed on certificates of the Medical Practitioners who had notified the cases ; and the number of orders for the admission of patients into hospital, given by the Medical Officer, was 947. The difference between the number of cases and number of orders arises from the number of cases on each order, varying from one, two, or three, as they may be found in the same house. It frequently occurs that the medical attendant is not called in until a second or third child is affected

with Scarlatina, the first case being overlooked by the friends as of no consequence, and no alarm being felt until other children are affected. Whenever infectious disease occurs the house and clothing are disinfected by the Corporation, free of charge; the sanitary arrangements of the premises are carefully inspected, and notices are sent to the schools of children from infected homes, who are found attending them.

The number of notifications received by the Medical Officer during the year was 2,848, as follows :—

January	...	...	297
February	...	...	210
March ...	...	...	204
April ...	...	...	220
May ...	...	...	176
June ...	...	...	155
July ...	...	...	184
August...	...	...	191
September	...	...	263
October	...	...	322
November	...	...	371
December	...	...	255
Total	...	...	<u>2,848</u>

The diseases were specified as follows :—

1,125	Scarlet Fever.
604	Enteric Fever.
109	Typhus Fever.
40	Continued Fever.
52	Fever.
1	Relapsing Fever.
44	Puerperal Fever.
18	Smallpox.
188	Diphtheria.
44	Membranous Croup.
1	Choleraic Diarrhœa.
622	Erysipelas.

Total	...	<u>2,848</u>
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FEVER.

A change has been made in preparing the returns sent to the Registrar General of the deaths from what has been hitherto described under the one head Fever, by specifying in the space for remarks the kind of fever recorded. Under the head of Fever 839 cases came under the notice of the Medical Officer of Health. Of these 175 were Typhus, 588 Typhoid, 75 Febricula, and 1 Relapsing.

156 Typhus, 350 Typhoid, and 61 Febricula were taken to hospital.

The occasional outbreaks of Typhus is evidence of the insanitary and reckless condition under which a large part of our population exist. Much has been, and is being done, for the elevation of these people. Rookeries have been demolished, new dwellings provided, and yet their dirty and improvident habits generate a disease which ought long ago to have been abolished.

The following statements will illustrate some of the outbreaks of Typhus and its extension. Nearly all the cases occurred in the Toxteth district :—

26, Lamport Street. A woman named Robinson, a sub-tenant at this house, was removed to hospital on 4th August ; on the 31st of the same month a child of this woman was removed also ; on 16th September, the tenant of the house, named James Poole, and his step-son, William Jackson, were removed ; 22nd September, two of Poole's children were removed ; 26th September, two named Ridley, sub-tenants, removed ; 26th September, one named Donaldson, out of cellar, removed ; 29th September, two more of Poole's children removed ; 9th October, Poole's wife and child were removed. Thirteen cases in all occurred at this address.

In tracing out the progress of this disease it was found that the woman Robinson, who was removed from 26, Lamport Street on August 4th, was a friend of some people who lived at No. 6 in the same street,

from which a case had been removed on July 21st. Mrs. Robinson was supposed to have contracted the disease from these people, as their children mixed together and attended the same school. During the month of August six other cases were removed from No. 6, Lamport Street, making seven in all from that house. The children from No. 6 attended Park Lane Day Industrial School, to which reference will be hereafter made as one of the means of spreading Typhus.

The following also shows how Typhus can be carried into a workshop by a fellow-workman :—

William Jackson, who was removed to hospital on 16th September from 26, Lamport Street, worked at a large printing and stationery establishment in the city, and a man who worked near him was removed to hospital on September 18th. On 8th October, another workman, resident in Childwall Street, was notified, and the Registrar of Deaths reported a death from Pneumonia, after a week's illness, at Kinglake Street; both these men were employed by the same firm, and their residences were far from the fever district. On the 2nd of November another workman from the same shop was removed to hospital suffering from Typhus; he had visited his fellow-workman in Kinglake Street two or three times during his week's illness.

Four cases can thus be traced to William Jackson as the originator of the disease in a workshop. On 27th August, a girl, a hawker, was removed to hospital from 116, Eldon Street. This person had been calling at houses in the streets where the disease existed.

The following is a list of Typhus cases which came under the notice of the Medical Officer of Health between the 1st of June and the 31st August :—

TYPHUS CASES

Reported during June, July, and August, 1891.

Date.		No. of House.	Street.	No. of Cases.	Children Attended
June	11th	20	Cotter T	1	Park Lane Day Industrial School.
"	26	49	Wolfe T	1	
"	29	5, 2 court	Shaftesbury .. T	3	Park Lane Industrial School
July	3rd	7	Clive T	1	
"	"	8 cellar	Do. T	1	Park Lane Industrial School
"	8	275	Beaufort T	1	
"	11	5	St. Jude's Place ..	1	
"	13	2	Lemon	1	
"	"	1	Moseley T	1	
"	14		Tramway Stables (Pudsey Street) ..	1	
"	18	47	Harding	2	
"	20	1 cellar	Greig T	3	Park Lane Industrial School
"	"	152	Wolfe T	1	Do. Do.
"	21	16	Caryl T	1	
"	"	6	Lamport T	1	Park Lane Industrial School
"	23		City Hospital, Netherfield Rd. (a nurse)	1	
"	27	1 cellar	Greig T	1	Park Lane Industrial School
"	28	3, 11 court	Gascoyne	1	
August	3rd	152	Wolfe T	1	
"	4	26	Lamport T	1	
"	"	1	Moseley T	2	
"	8	3, 9 court	Combermere .. T	2	Park Lane Industrial School
"	"	6	Lamport T	2	Do. Do.
"	10	6	Do. T	2	Do. Do.
"	12	3, 5 court	Prophet T	2	
"	14		Brownlow Hill Hospital (from 34, Ainsworth Street) ..	1	
"	15	6	Lamport T	1	Park Lane Industrial School
"	17	43	Essex T	1	
"	18	2, 3 court	Bevin Lane .. T	4	Park Lane Industrial School
"	"	3, 1 court	Beaufort T	2	Do. Do.
"	19	8	Mount Vernon Green from	1	
"	"	3, 1 court	Beaufort T	2	Park Lane Industrial School
"	24	2, 79 court	Mann T	1	Do. Do.
"	26	2, 4 court	Dalton	2	Do. Do.
"	"	5, 13 court	Hyslop T	1	Do. Do.
"	27	116	Eldon	1	
"	"	6	Lamport T	1	Park Lane Industrial School
"	"	2, 4 court	Dalton	1	Do. Do.
"	29	96	St. John's Road ..	1	
"	31	2, 2 court	St. John's Place .. T	1	
"	"	26	Lamport T	1	

It will be noticed that the majority of cases belonged to the Toxteth district, and are marked by a capital T, and that many of them were children attending the Park Lane Day Industrial School, who either themselves suffered or came from infected homes. The head mistress of the school sent daily a list of children who were absent on account of illness, and these cases were inquired into.

There is strong evidence that the disease was spread by the attendance of infected children at the school from the following fact :—

The children from Lamport Street and the children from 2 house, 4 court in Dalton Street attended the same school. Dalton Street is situated a considerable distance from the fever district, and no other source of infection could be ascertained than the school. There was no fever in Dalton Street except at the house in 4 court, from which two cases were removed on 26th August, and one on the following day. The three children had attended the school. There were no other cases in the same house or the neighbourhood of Dalton Street prior to the outbreak.

The following statement illustrates the danger of mistaking the nature of infectious disease, and the painful results following it :—

John McCoy, a plasterer, died on 29th October at 1 house, 1 court, Brassey Street. The death certified to be from Bronchitis and exhaustion, after a week's illness. The body was taken to the man's sister's (Mrs. Mathews), 155, Beaufort Street, where a wake was held.

On 6th November a child was removed to hospital from 1 house, 1 court, Brassey Street, suffering from Typhus.

On the 17th November Mr. and Mrs. Mathews, sister and brother-in-law of John McCoy, and at whose house, 155, Beaufort Street, the wake was held, were removed to hospital suffering from Typhus.

On the 19th November Mrs. Williams, a sub-tenant of 155, Beaufort Street, was removed with the same disease.

On the 20th November Mrs. O'Hagan, sister to John McCoy and Mrs. Mathews, was removed, with her child, both suffering from Typhus, from 19, Glenny Street.

On 28th November Sarah Courtney was removed from 3 house, 14 court, Brassey Street.

On 30th November Susannah Mallon was removed from 6 house, 2 court, Gore Street.

On 4th December Mary Rooney was removed from 25, Gore Street. These three last women, all suffering from Typhus, were friends of John McCoy and his family in Beaufort Street, and visited at both the houses in Brassey and Beaufort Streets.

On December 9th a boy, aged 12 years, son of Mathews, 155, Beaufort Street, was removed to hospital.

On 17th December a woman named Hayes was removed from 240, Beaufort Street. This woman, her husband and family, lived at 155, Beaufort Street, where the wake was held on the body of John McCoy, and kept up the acquaintance with the Mathews family.

On 18th December a man named McCoy was removed from 155, Beaufort Street to hospital, suffering from Typhus. He was brother to the John McCoy in Brassey Street and Mrs. Matthews and Mrs. O'Hagan.

SMALLPOX.

There was an increase in the number of cases of Smallpox reported during the year, principally from ships.

On February 2nd the S.S. Sorata, from Valparaiso, arrived with one case on board, which was removed to hospital.

On March 19th a case from Selborne Street, and on the 21st another case from Bunyan Street, were removed to hospital. The source of contagion could not be learned.

On April 17th the S.S. Norman Prince, from Huelva, arrived with one case on board, which was removed to hospital.

On May 2nd a case was removed from Pulford Street, the man having been in contact with the crew of the Norman Prince.

On May 8th a case was removed from 63, Becket Street.

On the 18th three cases were removed, and on the 22nd two cases were removed from the same house, all having originated from the Norman Prince. The man removed on the 8th had worked on the same vessel soon after her arrival, and infected the others.

On October 10th a foreign sailor, who had come to Liverpool to join a ship, was taken to hospital, having developed the disease soon after his arrival.

On November 2nd the S.S. Gulf of Trinidad, from Valparaiso, arrived with two cases on board, which were taken to hospital. On the 10th one of the crew of the vessel, on the 11th another member of the crew, and on the 12th two other members of the same crew were removed to hospital. On the 15th one of the crew, who left the vessel quite well on her arrival in dock on the 2nd, was removed from Brisbane Street, where he lived, after leaving the ship; and on the 19th a man, who worked on the same vessel soon after her arrival, was removed from Tiber Street to hospital.

On November 11th the S.S. Majestic arrived from New York, having the body of a lady passenger on board, who had died from the disease during the voyage.

On December 14th a young woman was removed from Comus Street. How or where she had contracted the disease could not be ascertained, having led a wandering life.

In every instance the vessels were fumigated and thoroughly cleaned down. So anxious are the owners of the large passenger steamers to prevent the bare possibility of contagion remaining on their vessels, that they make a practice of pulling down the cabins in which smallpox patients have been housed, and burning not only the wood, but the beds and fittings. They adopt every precaution that sanitary science can suggest, regardless of expense.

SCARLATINA.

There was a great decline in the number of cases of this disease reported during the year, partly owing to the exhaustion of material by its epidemic prevalence in 1890, but in a great measure to the operation of the Notification Act, facilitating the early removal of patients to hospital, or enforcing their isolation at home.

The number of cases coming under the notice of the Medical Officer of Health was 1,176 against 3,520 in 1890, and the number of deaths 119, against 577 in the previous year. 448 patients were taken to hospital, being 38·1 per cent. of the total number of reported cases, while in 1890 26·6 per cent. only were removed.

MEASLES.

This is not one of the notifiable diseases, yet, the large number of 2,262 cases were reported, principally by the School Board visitors, when each house was visited by an Inspector to ascertain its sanitary condition, and endeavour to obtain permission for disinfection.

In lodging-houses, sub-let houses, milkshops, or where there was risk of spreading the disease, isolation and disinfection were insisted upon. The Corporation have no hospital accommodation for these cases, but the Select Vestry kindly take charge of them in their hospital and debit the cost to the Corporation.

DIPHTHERIA.

The number of deaths from this disease was much less than in the previous year, when out of 212 reported cases 104 died. During 1891, 193 cases were reported, and 63 died, being 18 below the average of the last ten years. The number of cases of Membranous Croup reported was 44, and the total number of deaths certified to be from Croup, including membranous, was 56, or 90 below the average of the preceding ten years.

CITY HOSPITALS.

CITY HOSPITAL NORTH, NETHERFIELD ROAD.

DISEASES.	Patients in Hospital on Dec. 31st, 1890.	Patients Admitted during 1891.	Patients Remaining Dec. 31st, 1891.	Total under Treatment during 1891.	Died	Sent to Parkhill.	Mortality per cent. of Admissions.
Scarlatina	41	227	26	268	22	63	9·69
Typhoid Fever	15	138	24	153	15	..	10·86
Typhus Fever	9	119	7	128	19	..	15·96
Diphtheria . . . . .	..	11	..	11	5	..	45·45
Measles . . . . .	..	10	..	10	1	..	10·
Febricula . . . . .	..	14	..	14	..	..	..
Pulmonary Diseases . . . . .	..	40	..	40	11	..	27·5
Other Diseases . . . . .	..	35	2	37	6	1	17·14
Totals 1891	65	594	59	659	79	64	13·3
Totals 1890	50	662	65	712	90	145	13·59

Visiting Physician, Dr. ROBERTSON.

Resident Physician, Dr. HOPKINS.

CITY HOSPITAL SOUTH, GRAFTON STREET.

DISEASES.	Remaining 31st Dec., 1890.	Admitted during 1891.	Total under treatment during 1891.	Discharged during 1891.		Died during 1891.	Mortality per cent.	Remaining on 31st Dec., 1891.
				To Homes.	Transferred to Parkhill.			
Scarlet Fever	27	228	255	142	70	10	4·38	33
Typhoid Fever	11	111	122	80	—	8	7·2	34
Typhus Fever	1	33	34	24	—	10	30·3	—
Diphtheria	—	10	10	—	—	10	100·	—
Measles	—	9	9	—	9	—	—	—
Other Diseases	—	54	54	51	—	3	5·5	—
Totals	39	445	484	297	79	41	9·21	67

Visiting Physician, Dr. IRVINE.

Resident Physician, Dr. KNOX BOND.

CITY HOSPITAL, PARKHILL.

DISEASES.	Patients in Hospital on 31st December, 1890.	Patients admitted during 1891.			Patients remaining in Hospital, 31st Dec., 1891.	Total number under treatment during 1891.	Deaths and Mortality per cent. of transferred cases during 1891.		Deaths and Mortality per cent. of Acute Cases, during 1891.	
		From City Hospital North	From City Hospital South	Acute Cases.						
Scarlatina	97	21	70	23	32	211	—	—	* 1	4·34
Small Pox	—	—	—	20	1	20	—	—	2	10
Measles	—	1	9	23	12	33	—	—	1	4·34
Typhoid Fever ..	—	—	—	8	1	8	—	—	† 3	37·5
Typhus Fever....	—	—	—	1	—	1	—	—	—	—
Diphtheria	—	—	—	1	—	1	—	—	—	—
Other Diseases ..	—	1	—	4	—	5	—	—	1	25
Total	97	23	79	80	46	279	—	—	8	10·

* This was an acute case admitted on December 24th, 1890.

† One of these cases was only in a few hours when it died, and the certificate was signed by the Doctor who sent it in.

Visiting Physician, Dr. IRVINE.

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-six 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	26·7	508	292	...
1882	*27·0	587	593	...
1883	*27·7	518	540	...
1884	*26·6	841	205	...
1885	*25·6	422	182	...
1886	*26·1	781	198	...
1887	*26·4	619	194	...
1888	*23·1	431	161	...
1889	*24·9	575	212	...
1890	*27·5	468	123	...
1891	26·9	330	131	...

* Calculated on corrected population as per Census Returns of 1891.

CANCER.

All deaths from malignant growths are entered under the one definition, "Cancer."

Year by year this disease claims more and more victims, and though increased knowledge and correct diagnosis may add somewhat to the number, yet the yearly increase in the deaths from this disease requires some other explanation than it is possible at present to give. The number of deaths (346) was the largest ever recorded.

(See Tables I. and II.)

TABLE I.

Year.	Males.	Females.	Total.	Percentage 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	163	263	1.8	0.49
1888	111	206	317	2.6	0.60
1889	121	170	291	2.2	0.56
1890	122	212	334	2.3	0.64
1891	135	211	346	2.5	0.67

TABLE II.

DEATHS FROM CANCER DURING THE YEAR 1891.

DISEASE.	WARDS, &c.																		Males.	Females.	Total.
	Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Gt. George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	Hospitals.			
Cancer of Stomach and Bowels	4	..	1	1	1	2	..	..	2	1	5	3	9	8	9	8	7	26	42	45	87
" Liver	5	..	2	..	..	1	..	..	..	..	1	..	4	5	3	4	..	12	14	24	38
" Urinary and Generative Organs	8	..	..	1	..	..	..	..	..	1	2	3	14	10	11	9	3	17	6	73	79
" Breast	2	..	..	..	..	..	..	..	..	..	1	2	6	..	6	10	3	7	..	37	37
" Head and Face	2	..	..	1	1	..	..	..	..	1	1	1	5	1	..	..	..	6	16	3	19
" Tongue, Neck, and Throat	1	..	..	..	2	..	..	..	..	..	3	1	7	5	2	4	2	16	34	9	43
" Other parts of the Body	1	..	..	..	..	1	..	..	..	..	..	..	2	1	6	3	..	7	14	7	21
" (parts not specified)	2	..	..	..	..	..	..	..	..	..	1	..	5	3	2	1	..	8	9	13	22
Total	25	..	3	3	4	4	..	1	2	3	14	10	52	33	39	39	15	99	135	211	346

During the fifty-two weeks of the year 1891 (terminating on Saturday, January 2nd, 1892), the Returns of the Local Registrars recorded 17,832 births and 13,911 deaths within the City; the numbers for the corresponding period of the previous year, 1890, were 17,592 births and 14,293 deaths.

Of the births 9,073 were males and 8,759 were females, making the total Birth-rate of the City equal to 34·5 per 1,000; the average of the previous ten years being 35·7.

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

BIRTHS.

DISTRICTS AND WARDS.	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual Births
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
Scotland	284	262	261	219	240	234	267	217	1984
Vauxhall	24	36	47	26	26	32	33	37	261
St. Paul's and Exchange....	42	56	48	40	47	49	44	53	379
St. Anne's and Lime Street..	108	97	89	89	101	84	82	95	745
Castle Street and St. Peter's..	13	13	11	14	19	7	16	11	104
Pitt Street and Gt. George..	60	52	52	50	54	46	54	57	425
Rodney St. & Abercromby..	153	147	137	118	151	162	96	134	1098
Everton	510	514	552	510	490	487	495	448	4006
Kirkdale.....	323	295	320	321	291	295	306	295	2446
West Derby	336	340	339	329	326	312	345	362	2689
The Toxteths.....	472	485	481	446	485	471	443	412	3695
City.....	2325	2297	2337	2162	2230	2179	2181	2121	17832

DEATHS.

Of the 13,911 deaths 6,999 were of males, and 6,912 of females.

The Death-rate of the City was equal to 26·9 per 1,000. The average of the previous ten years was 26·2 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 :—

DISTRICTS.	1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Deaths.
Scotland	186	210	241	228	171	190	186	175	1587
Vauxhall	30	32	36	25	27	23	18	21	212
St. Paul's and Exchange	41	53	59	43	28	35	34	36	329
St. Anne's and Lime Street	88	91	107	95	71	67	82	62	663
Castle Street and St. Peter's	15	9	17	8	14	10	11	8	92
Pitt Street and Great George	43	45	47	35	48	32	59	43	352
Rodney Street and Abercromby	50	89	89	102	55	62	67	91	605
Everton	322	344	380	393	262	266	303	307	2577
Kirkdale	156	177	230	212	135	142	178	180	1410
West Derby	190	203	224	203	151	150	188	234	1543
The Toxteths	259	311	291	354	236	232	270	301	2254
Workhouses and Hospitals	314	277	402	280	274	211	314	215	2287
City	1694	1841	2123	1978	1472	1420	1710	1673	13911

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 1,970 of the deaths in these establishments under the Wards from whence the patients were removed, viz. :—396 under Scotland Ward, 84 under Vauxhall Ward, 63 under St. Paul's Ward, 84 under Exchange Ward, 297 under St. Anne's Ward, 61 under Lime Street Ward, 1 under Castle Street Ward, 32 under St. Peter's Ward, 61 under Pitt Street Ward, 80 under Great George's Ward, 83 under Rodney Street Ward, 124 under Abercromby Ward, 179 under Everton, 119 under Kirkdale, 106 under West Derby Ward, 90 under North Toxteth Ward, and 110 under South Toxteth Ward. This will leave unclassified 71 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 246 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 inhabitants has been made.

DISTRICTS AND WARDS.	Annual.	
	Deaths.	Rate per 1000
Scotland	1993	37.0
Vauxhall	298	41.8
St. Paul's and Exchange ..	479	36.9
St. Anne's and Lime Street ..	1026	37.1
Castle Street and St. Peter's ..	126	24.6
Pitt Street and Great George ..	496	34.5
Rodney Street and Abercromby ..	816	22.6
Everton	2770	25.0
Kirkdale	1537	23.2
West Derby	1657	21.5
The Toxteths	2467	22.9
Hospitals (Residences outside City) ..	246	..
City	13911	26.9

The following table shows the natural increase or decrease of population, and the number of births and deaths during the year 1891, in the several districts of the City :—

DISTRICTS AND WARDS.	Births.	Deaths.	Increase.	Decrease
Scotland	1984	1993	..	9
Vauxhall	261	298	..	37
St. Paul's and Exchange ..	379	479	..	100
St. Anne's and Lime Street ..	745	1026	..	281
Castle Street and St. Peter's ..	104	126	..	22
Pitt Street and Gt. George ..	425	496	..	71
Rodney Street and Abercromby ..	1098	816	282	..
Everton	4006	2770	1236	..
Kirkdale	2446	1537	909	..
West Derby	2689	1657	1032	..
The Toxteths	3695	2467	1228	..
City	17832	13665	4167	..
Hospitals (Residences outside City) ..	..	246	..	..
Total	17832	13911	3921	..

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.	Estimated Population in the middle of the year 1891.	Births in 52 Weeks, ending 2nd Jan., 1892.	Deaths in 52 Weeks, ending 2nd Jan., 1892.	Annual Rate to 1,000 of Population.		Population on Acre.
				Births.	Deaths.	
London	4221452	134003	90216	31·8	21·4	56·5
Brighton	115606	3033	2102	26·3	18·2	46·0
Portsmouth	160128	4803	3029	30·1	19·0	37·1
Norwich	101316	3219	1950	31·9	19·3	13·6
Plymouth	84464	2506	1892	29·8	22·5	57·5
Bristol	222049	6731	4634	30·4	20·9	61·8
Wolverhampton	82799	2820	1997	34·2	24·2	24·4
Birmingham	429906	14653	9503	34·2	22·2	51·2
Leicester	142581	4789	3063	33·9	21·7	44·6
Nottingham	212662	6344	4216	29·9	19·9	21·4
Derby	94496	2886	1796	30·6	19·1	27·4
Birkenhead	99597	3274	2072	33·0	20·9	25·9
Bolton	115253	3921	2521	34·1	21·9	47·9
Manchester	506469	17208	13398	34·1	26·5	39·6
Salford	198717	7213	5156	36·4	26·0	38·4
Oldham	132010	4097	3379	31·1	25·7	27·9
Blackburn	120496	4075	3103	33·9	25·8	17·3
Preston	107864	3876	2940	36·0	27·3	26·8
Huddersfield	95656	2323	2196	24·4	23·0	81·1
Halifax	83109	2174	1891	26·2	22·8	22·1
Bradford	216938	6216	4800	28·7	22·2	20·1
Leeds	369099	12538	8428	34·1	22·9	17·1
Sheffield	325304	11878	7753	36·6	23·9	16·6
Hull	200934	6933	4205	34·6	21·0	25·4
Sunderland	131302	4944	3279	37·8	25·0	43·3
Newcastle-on-Tyne	187502	6692	4449	35·8	23·8	34·9
Cardiff	130283	4737	2871	36·5	22·1	17·7
Edinburgh	261970	7352	5632	28·1	21·6	44·4
Glasgow	567143	19799	14296	35·0	25·3	92·8
Dublin	347312	9850	9195	28·4	26·5	14·0
LIVERPOOL	517116	17832	13911	34·5	26·9	99·3

The deaths of Infants below five years of age amounted to 5,697, and thus comprised 41·0 per cent. of the whole deaths ; the average number for the preceding ten years was 6,267, and the average percentage 44·7. The deaths of Infants below one year of age amounted to 3,361, or 18·8 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.

WARDS.		Quarters.				Annual.	Per Cent- age of Deaths under 5 years to Total Deaths.	Per Cent- age of Deaths under 1 year to Total Births.
		March.	June.	Sept.	Dec.			
Scotland	{ Total Deaths..	396	469	361	361	1587	52·2	23·5
	{ Below 5 years..	186	243	215	185	829		
Vauxhall	{ Total Deaths..	62	61	50	39	212	50·0	26·4
	{ Below 5 years..	26	33	30	17	106		
St. Paul's	{ Total Deaths..	53	54	21	38	166	42·2	19·8
	{ Below 5 years..	22	17	11	20	70		
Exchange	{ Total Deaths..	41	48	42	32	163	38·0	19·9
	{ Below 5 years..	12	17	20	13	62		
St. Anne's	{ Total Deaths..	122	143	97	100	462	44·4	19·9
	{ Below 5 years..	52	64	44	45	205		
Lime Street	{ Total Deaths..	57	59	41	44	201	36·3	14·4
	{ Below 5 years..	18	16	24	15	73		
Castle Street	{ Total Deaths..	2	6	3	1	12	8·3	21·9
	{ Below 5 years..	..	1	..	..	1		
St. Peter's	{ Total Deaths..	22	19	21	18	80	30·0	11·9
	{ Below 5 years..	1	6	9	8	24		
Pitt Street	{ Total Deaths..	35	36	28	42	141	39·0	11·9
	{ Below 5 years..	10	14	11	20	55		
Great George	{ Total Deaths..	53	46	52	60	211	41·7	11·9
	{ Below 5 years..	18	13	25	32	88		
Rodney Street..	{ Total Deaths..	65	87	50	90	292	26·7	11·9
	{ Below 5 years..	8	29	17	24	78		
Abercromby....	{ Total Deaths..	74	104	67	68	313	33·2	19·1
	{ Below 5 years..	24	33	23	24	104		
Everton..	{ Total Deaths..	666	773	528	610	2577	52·3	17·4
	{ Below 5 years..	345	373	309	322	1349		
Kirkdale	{ Total Deaths..	333	442	277	358	1410	48·3	16·1
	{ Below 5 years..	157	211	141	172	681		
West Derby	{ Total Deaths..	393	427	301	422	1543	45·8	17·0
	{ Below 5 years..	173	161	163	209	706		
North Toxteth..	{ Total Deaths..	323	371	238	327	1259	40·1	17·0
	{ Below 5 years..	118	124	117	146	505		
South Toxteth..	{ Total Deaths..	247	274	230	244	995	48·1	..
	{ Below 5 years..	109	124	132	114	479		
Workhouses and Hospitals	{ Total Deaths..	591	682	485	529	2287	12·3	..
	{ Below 5 years..	71	83	52	76	282		
City	{ Total Deaths..	3535	4101	2892	3383	13911	41·0	18·8
	{ Below 5 years..	1350	1562	1343	1442	5697		

AGES.	Quarters.				Annual.	
	March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of population.
Deaths below 1 year of age.. ..	767	894	858	842	3361	6.5
„ between 1 year and 5	583	668	485	600	2336	4.5
„ „ 5 „ 20	241	258	189	204	892	1.7
„ „ 20 „ 60	1250	1482	955	1141	4828	9.4
„ above 60 years	693	798	404	594	2489	4.8
„ at ages unknown	1	1	1	2	5	..
„ at all ages	3535	4101	2892	3383	13911	26.9

The Registrars' Returns show that there were 21 deaths (12 of women and 9 of men) at the age of 90 and upwards, viz., 4 males and 3 females at 90, 4 females at 91, 1 male and 1 female at 92, 2 males and 1 female at 93, 1 male and 1 female at 95, 1 female at 96, 1 female at 98, and 1 male at 108.

CLASSES.	QUARTERS.				YEAR 1891.
	March.	June.	Sept.	Dec.	
1. Zymotic Diseases.. ..	321	695	463	397	1876
2. Diseases of Uncertain Seat	112	111	114	94	431
3. Tubercular Diseases	422	452	350	349	1573
4. Diseases of Brain, &c.	376	432	308	339	1455
5. „ of Heart, &c.	221	254	198	208	881
6. „ of Lungs, &c.	1205	1200	486	1058	3949
7. „ of Stomach, &c.	155	184	263	224	826
8. „ of Kidneys, &c.	68	89	79	71	307
9. Childbirth, Diseases of Uterus, &c.	31	26	32	26	115
10. Rheumatism, Diseases of the Joints, &c.	10	9	14	11	44
11. Diseases of the Skin, Cellular Tissue, &c.	7	6	13	10	36
12. Malformations	15	9	8	9	41
13. Premature Birth	87	108	75	69	339
14. Atrophy and Debility	171	191	201	190	753
15. Old Age	112	126	93	79	410
16. Privation, Cold, &c. .. ..	..	..	..	..	..
17. Inquests	199	192	185	239	815
Causes not specified	23	17	10	10	60
All Causes	3535	4101	2892	3383	13911
Total Zymotics	321	695	463	397	1876
Smallpox .. ..	..	1	..	1	2
Measles.. ..	35	110	52	123	320
Scarlatina	50	16	22	31	119
Whooping Cough	121	201	67	49	438
Diarrhœa	28	46	203	53	330
Fever { Typhus	5	7	14	11	37
{ Typhoid	11	11	31	39	92
{ Simple Continued.. ..	1	..	1	..	2

ZYMOTICS.

This class of diseases occasioned 1,876 deaths during the year 1891, and accounted for 13·5 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 2,559, and the percentage death rate for 1891 was 4·7 per cent. less than the proportional rate of zymotic deaths to deaths from all causes during the preceding decennial period. The following table shows the localities and the periods of their fatal prevalence :—

WARDS, &c.	Deaths from all Causes.	ZYMOTICS.					Per Centage of Zymotic Deaths to Deaths from all Causes.
		Quarters.					
		March.	June.	Sept.	Dec.		
Scotland	1587	32	108	78	31	15·7	
Vauxhall	212	2	8	7	1	8·5	
St. Paul's	166	5	6	5	5	12·7	
Exchange	163	4	10	4	6	14·7	
St. Anne's	462	12	31	14	7	13·9	
Lime Street	201	6	10	7	3	12·9	
Castle Street	12	..	..	..	..	..
St. Peter's	80	..	4	3	2	11·3	
Pitt Street	141	..	..	1	5	4·3
Great George	211	4	4	5	6	9·0	
Rodney Street	292	2	10	8	6	8·9	
Abercromby	313	1	16	7	5	19·3	
Everton	2577	96	167	118	81	17·9	
Kirkdale	1410	33	79	43	49	14·5	
West Derby	1543	37	67	37	67	13·5	
North Toxteth	1259	25	61	37	36	12·6	
South Toxteth	995	18	39	35	18	11·1	
Liverpool Workhouse Hospital	1167	14	42	13	18	7·5	
Royal Infirmary	303	1	4	3	1	3·0	
Children's Infirmary	88	2	..	..	3	5·7
Lying-in Hospital	10	..	..	..	..	..
Hahnemann Hospital	20	1	2	..	1	20·0	
Consumption Hospital	22	..	..	..	..	..
North Hospital	181	..	2	2	5	5·0	
Hospital for Women	14	..	..	..	..	..
Stanley Hospital	76	..	..	..	2	2·6
Royal South Hospital	218	1	7	2	4	6·4	
West Derby Union Hospital	53	1	..	..	..	1·9
City Hospital North, Netherfield Road	82	17	12	18	17	78·0	
City Hospital South, Grafton Street	45	6	5	16	13	88·9	
City Hospital, Park Hill	8	1	1	..	5	87·5	
City	13911	321	695	463	397	13·5	

FEVER.

Fever accounted for 131 deaths within the City of Liverpool, being an increase of 8 on the previous year. (The average number of deaths for the preceding ten years was 270.) 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 0·5 during the first, 0·4 during the second, 1·6 during the third, and 1·5 during the fourth quarter of the year. Its annual rate relatively to deaths from all causes was 0·9 per cent., and relatively to deaths from zymotic causes 7·0 per cent. Its deaths included 64 males and 67 females; 26 persons below the age of 15; 43 between the ages of 15 and 30; and 62 above the age of 30.

Under the term Fever every form of continued fever is included; but the registers of deaths attribute 1 case to gastric fever, 65 to typhoid fever, 26 to enteric fever, 37 to typhus, 1 to continued fever, and 1 to fever.

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 1891; the second and third tables show the districts of the town and the periods of the year in which all forms of continued fever were most fatally prevalent; the fourth marks in streets the habitats of the disease and the remaining tables the occupations and positions of its victims.

WARDS.	Exact Average of Fever Deaths for Pre- ceding Ten Years.	Deaths from Fever during the Year 1891.			
		Typhus.	Typhoid.	Simple con- tinued.	Total.
Scotland.. .. .	20	1	2	..	3
Vauxhall	4	..	..	..	..
St. Paul's	4	1	1	..	2
Exchange	4	..	..	..	..
St. Anne's	6	..	..	..	..
Lime Street	2	..	1	..	1
Castle Street .. . . .	..	..	..	..	..
St. Peter's .. . . .	..	..	..	..	..
Pitt Street	1	..	..	..	..
Great George	2	..	..	..	..
Rodney Street	2	..	..	..	..
Abercromby	3	..	2	..	2
Everton	26	3	10	..	13
Kirkdale	16	..	6	1	7
West Derby	14	..	13	..	13
North Toxteth	15	..	8	..	8
South Toxteth	14	1	5	1	7
Hospital Deaths	137	31	44	..	75
Total	270	37	92	2	131

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

DEATHS FROM FEVER.

WARDS.	QUARTERS.												YEAR.			
	March			June.			Sept.			Dec.			Typhus.	Typhoid.	Simple cont'd.	TOTAL
	Typhus.	Typhoid.	Simple cont'd.	Typhus.	Typhoid.	Simple cont'd.	Typhus.	Typhoid.	Simple cont'd.	Typhus.	Typhoid.	Simple cont'd.				
Scotland ..	{ Below 5 years ..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..	..	1	..	..	..	..	..	..	1	..	..	1	1	..	2
Vauxhall ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	..	..	..	..	..	..	..	1	..	..	1	1	..	2
Exchange ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lime Street ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	1
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abercromby..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	2	..	..	..	..	..	..	2	..	2
Everton ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1
	{ Above 5 years ..	..	..	2	2	..	6	..	1	1	..	3	9	..	12	12
Kirkdale ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	1	..	2	..	3	..	1	..	..	6	1	..	7	7
West Derby..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	4	..	..	1	..	2	..	..	6	..	13	..	13	..	13
North Toxteth	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	1	..	..	1	..	4	..	..	2	..	8	..	8	..	8
South Toxteth	{ Below 5 years ..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	1	1	..	4	..	1	5	..	6	6
Hospitals ..	{ Below 5 years ..	..	..	..	..	..	..	..	1	2	..	1	2	..	3	3
	{ Above 5 years ..	4	4	..	5	5	13	12	..	8	21	..	30	42	..	72
City ..	{ Below 5 years ..	..	..	..	..	..	1	1	1	3	..	1	4	1	..	6
	{ Above 5 years ..	5	11	1	7	11	14	30	..	10	36	..	36	88	1	125

List of Streets in the City wherein Deaths from TYPHUS occurred during the Year 1891.

STREETS.	HOUSES.		Total.	STREETS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Beau	1	..	1	Milford	1	..	1
Beaufort	3	..	3	Mitford	1	..	1
Bembridge	1	..	1	Netherfield Road, N...	1	..	1
Bevington Hill ..	1	..	1	Ogwen	1	..	1
Clive	1	..	1	Park Place .. ..	..	1	1
Combermere .. ..	..	2	2	Prince William .. ..	..	1	1
Conway	1	..	1	Queen Anne	1	..	1
Crump	1	..	1	Rankin .. ..	..	1	1
Curzon .. ..	..	1	1	Shaftesbury .. ..	..	1	1
Great Newton ..	1	..	1	St. John's Place .. ..	..	1	1
Lampport	6	..	6	St. Jude's Place ..	1	..	1
Lemon	1	..	1	Warwick	1	..	1
Mann .. ..	..	1	1	Wolfe	2	..	2
Marlborough ..	1	..	1	Woodruff	1	..	1

List of Streets in the City wherein Two or more Deaths from TYPHOID FEVER occurred during the Year 1891.

STREETS.	HOUSES.		Total.	STREETS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Beaufort	2	..	2	Saxony Road ..	2	..	2
Mill	2	..	2	Vine	2	..	2

In arranging the foregoing lists of streets all deaths occurring in Hospitals have been transferred to the streets from whence the patients were removed.

DEATHS FROM FEVER DURING THE YEAR 1891.

WARDS.	January.				February.				March.				April.		May.				June.				July.		Quarter.			
																									Typhus.		Typhoid.	
	10	17	24	31	7	14	21	28	7	14	21	28	11	18	25	2	9	16	23	30	6	13	20	27	4	1	Simple contd.	Total.
Scotland	1	..	..	1	..	..	..	..	..	..	1	..	..	1
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
Hospitals (Residences out of City)
Hospitals (Residences unknown)
Total ..	1	1	1	1	1	1	1	1	2	5	1	1	2	5	4	2	2	2	2	1	2	1	2	1	7	11	..	13

WARDS.	July.				August.				September.				October.		November.				December.				January.		Quarter.			
																									Typhus.		Typhoid.	
	11	18	25	..	1	8	15	22	29	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	19	26	3	10
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
Hospitals (Residences out of City)
Hospitals (Residences unknown)
Total ..	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Occupations of Persons who (either themselves or members of their family) have died from Fever in the Hospitals of the City, tabulated into Wards from whence they came, during the Year 1891.

CITY HOSPITAL NORTH (NETHERFIELD ROAD).

OCCUPATIONS.	WARDS.								Residence outside the City.	TOTAL.
	Scotland.	St. Paul's.	Great George.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	
Labourers	3	1	1	2	..	1	1	..	5	1
Tradesmen	2	..	..	..	..	..	2	1	9	14
Professions and Mercantile	1	..	..	..	..	..	..	..	..	1
Seamen .. .. .	..	..	..	..	2	1	..	..	..	3
Servants .. .. .	..	..	..	1	1	..	..	..	..	2
Nurse .. .. .	..	..	..	..	1	..	..	..	..	1
Males.. .. .	2	1	1	1	1	2	1	1	7	18
Females	4	..	..	2	3	..	2	..	7	18
Total.. .. .	6	1	1	3	4	2	3	1	14	36

CITY HOSPITAL SOUTH (GRAFTON STREET).

OCCUPATIONS.	WARDS.								Residence outside the City.	TOTAL.
	Scotland.	St. Paul's.	St. Anne's.	Gt. George.	Everton.	Kirkdale.	North Toxteth.	South Toxteth.		
Labourers	1	..	..	..	..	1	1	3	..	6
Tradesmen .. .. .	..	1	1	..	1	..	..	5	..	8
Seamen .. .. .	..	..	..	1	..	..	..	2	1	4
Police Constable .. .. .	..	..	..	..	1	..	..	..	..	1
Males	1	..	1	..	2	1	..	6	1	12
Females .. .. .	..	1	..	1	..	..	1	4	..	7
Total	1	1	1	1	2	1	1	10	1	19

PARK HILL HOSPITAL.

OCCUPATIONS.	WARDS.			TOTAL.
	Exchange.	Abercromby.	North Toxteth.	
Labourers	1	1	1	3
Tradesmen	1	..	..	1
Males	1	1	1	3
Females .. .. .	..	..	..	..
Total	1	1	1	3

* OTHER INSTITUTIONS.

OCCUPATIONS.	WARDS.					Residences outside the City.	TOTAL.
	Scotland.	Rodney Street.	Kirkdale.	West Derby.	North Toxteth.		
Labourers	2	1	1	1	..	2	7
Tradesmen	1	1	..	..	..	1	3
Professions and Mercantile .. .. .	..	..	..	..	1	4	5
Seamen .. .. .	..	..	..	..	..	1	1
Servants .. .. .	..	1	..	..	..	..	1
Males	1	1	..	..	..	3	5
Females	2	2	1	1	1	5	12
Total	3	3	1	1	1	8	17

* {	ROYAL INFIRMARY	2	} 17 deaths.
	CHILDREN'S INFIRMARY	3	
	NORTHERN HOSPITAL	2	
	ROYAL SOUTHERN HOSPITAL	3	
	STANLEY HOSPITAL	2	
	HAHNEMANN HOSPITAL	3	
	PARISH HOSPITAL (Brownlow Hill)	2	

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 1891. (Not included in the foregoing Tables of Deaths in Hospitals.)

OCCUPATIONS.	WARDS.																	TOTAL.
	Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	
Labourers	2	1	..	..	..	..	..	..	..	..	..	1	2	2	1	2	2	13
Tradesmen	1	..	..	..	..	1	..	..	..	..	..	1	8	3	7	2	4	27
Professions and Mercantile	..	..	1	..	..	..	..	..	..	..	..	..	..	..	5	3	..	9
Seamen .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	1	..	4
Servants .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Police Constables .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
Unknown .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Males .. .. .	..	..	2	..	..	1	..	..	..	..	..	2	5	3	4	5	4	26
Females	3	..	..	..	..	..	..	..	..	..	..	..	8	4	9	3	3	30
Total	3	2	..	..	..	1	..	..	..	..	..	2	13	7	13	8	7	56

SCARLATINA.

Scarlatina accounted during the year for 119 deaths. (The average number of deaths for the preceding ten years was 330). The rate of its mortality was equal to 0·2 per 1000 of the estimated population. Its rate relatively to deaths from all causes was 1·4 per cent. in the first quarter, 0·4 in the second, 0·8 in the third, and 0·9 in the fourth quarter of the year; its annual rate relatively to all deaths was 0·9 per cent., and relatively to deaths from zymotic causes 6·3 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1891; the second is a record of the streets of the City wherein two or more deaths occurred from that disease.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	..	{ Below 5 years	3	..	..	1	2	..	1	1	6	2	8
		{ Above 5 years	..	..	..	..	..	1	..	1	..	2	2
Vauxhall	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Lime Street	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Castle Street	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Abercromby	..	{ Below 5 years	1	..	..	..	..	..	..	1	..	1	1
		{ Above 5 years	..	..	..	..	..	1	..	1	..	1	1
Everton..	..	{ Below 5 years	7	1	1	1	4	3	5	1	17	6	23
		{ Above 5 years	5	4	..	3	1	..	..	6	7	13	13
Kirkdale	..	{ Below 5 years	1	2	2	1	1	..	2	1	6	4	10
		{ Above 5 years	1	2	..	..	..	..	4	1	6	7	7
West Derby	..	{ Below 5 years	2	2	..	2	..	..	1	2	3	6	9
		{ Above 5 years	..	..	..	..	..	2	1	2	1	3	3
North Toxteth..	..	{ Below 5 years	..	1	..	..	..	..	..	..	1	1	1
		{ Above 5 years	..	1	..	..	..	..	..	..	1	1	1
South Toxteth..	..	{ Below 5 years	2	1	..	..	..	..	..	2	1	3	3
		{ Above 5 years	..	1	1	..	1	..	..	2	1	3	3
Hospitals	..	{ Below 5 years	7	2	2	1	4	3	2	3	15	9	24
		{ Above 5 years	2	2	1	..	..	2	1	2	4	6	10
City	..	{ Below 5 years	23	9	5	6	11	6	11	8	50	29	79
		{ Above 5 years	8	10	2	3	2	3	4	8	16	24	40

List of Streets in the City wherein Two or more Deaths from
Scarlatina occurred during the Year 1891.

STREETS.	HOUSES.		Total.		STREETS.	HOUSES.		Total.
	Front.	Court.				Front.	Court.	
Athol	2	..	2		Paley	3	..	3
Aubrey	2	..	2		Priam	2	..	2
Bismarck	3	..	3		Sackville.. ..	2	..	2
Chelmsford	2	..	2		St. John's Road ..	2	..	2
Devonshire Place .. ..	..	2	2		Selwyn	2	..	2
Edinburgh	2	..	2		Shallcross	2	..	2
Fordham.. .. .	2	..	2		Vauxhall Road	2	..	2
Gordon	4	..	4		.. .. .	..	..	..

MEASLES.

Measles occasioned 320 deaths. (The average number of deaths for the preceding ten years was 540.) Its percentage death-rate relatively to deaths from all causes was 1·0 in the first quarter of the year, 2·7 in the second, 1·8 in the third, and 3·6 in the fourth. Its annual percentage rate relatively to deaths from all causes was 2·3, and relatively to deaths from Zymotic causes 17·1.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	..	{ Below 5 years ..	3	1	13	16	4	6	5	..	25	23	48
		{ Above 5 years ..	..	..	1	1	..	1	..	..	1	2	3
Vauxhall	..	{ Below 5 years ..	..	1	..	1	..	..	..	..	..	2	2
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{ Below 5 years ..	..	..	1	1	1	..	1	1	3	2	5
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	{ Below 5 years ..	1	..	..	1	..	..	2	3	3	4	7
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	..	{ Below 5 years ..	..	1	5	3	2	2	..	2	7	8	15
		{ Above 5 years ..	..	..	1	..	..	..	1	..	2	..	2
Lime Street	..	{ Below 5 years ..	1	..	1	..	1	..	..	1	3	1	4
		{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
Castle Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{ Below 5 years ..	..	..	..	..	..	..	2	1	2	1	3
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{ Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	..	{ Below 5 years ..	..	..	..	1	..	1	..	2	..	..	2
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	..	{ Below 5 years ..	6	4	22	18	10	13	13	18	51	53	104
		{ Above 5 years ..	1	..	..	1	..	..	3	..	4	1	5
Kirkdale	..	{ Below 5 years ..	2	2	6	5	3	3	9	9	20	19	39
		{ Above 5 years ..	..	..	..	1	..	1	2	2	2	4	6
West Derby	..	{ Below 5 years ..	2	1	..	..	..	1	9	19	11	21	32
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
North Toxteth	..	{ Below 5 years ..	..	..	..	..	..	..	6	4	6	4	10
		{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
South Toxteth..	..	{ Below 5 years ..	4	3	5	3	..	..	1	9	7	16	16
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Workhouses and Hospitals	..	{ Below 5 years ..	..	2	2	1	1	1	1	4	4	8	12
		{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
City	..	{ Below 5 years ..	19	15	55	49	23	27	50	63	147	154	301
		{ Above 5 years ..	1	..	2	4	..	2	6	4	9	10	19

DIARRHŒA.

Diarrhœa accounted for 330 deaths. (The average number of deaths for the preceding ten years was 575). Its percentage death-rate relatively to deaths from all causes was 0·8 in the first quarter of the year, 1·1 in the second, 7·0 in the third, and 1·6 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 2·4, and relatively to deaths from Zymotic causes 17·6.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	..	{ Below 5 years ..	..	1	..	2	19	24	3	4	22	31	53
		{ Above 5 years ..	..	..	..	..	1	..	..	..	1	..	1
Vauxhall	..	{ Below 5 years ..	..	..	1	1	2	5	..	1	3	7	10
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{ Below 5 years ..	..	..	..	..	3	..	..	..	3	..	3
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	{ Below 5 years ..	..	1	..	..	1	3	..	..	1	4	5
		{ Above 5 years ..	..	..	..	1	..	..	..	..	1	1	1
St. Anne's	..	{ Below 5 years ..	..	1	..	..	2	2	..	..	2	3	5
		{ Above 5 years ..	..	..	..	..	1	..	..	..	1	1	1
Lime Street	..	{ Below 5 years ..	..	..	..	..	1	2	..	..	1	2	3
		{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Castle Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years ..	..	..	..	..	1	1	..	..	1	1	2
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
		{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Great George	..	{ Below 5 years ..	1	1	..	..	1	1	..	2	2	4	4
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{ Below 5 years ..	1	..	1	1	2	2	..	2	4	5	9
		{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Abercromby	..	{ Below 5 years ..	..	..	..	..	1	..	..	1	1	1	2
		{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Everton	..	{ Below 5 years ..	1	5	3	4	28	21	5	4	37	34	71
		{ Above 5 years ..	1	..	2	1	..	3	..	1	3	5	8
Kirkdale	..	{ Below 5 years ..	..	2	5	4	11	7	1	..	17	13	30
		{ Above 5 years ..	1	..	..	..	..	2	..	1	1	3	4
West Derby	..	{ Below 5 years ..	1	3	1	1	8	4	4	3	14	11	25
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
North Toxteth	..	{ Below 5 years ..	1	1	1	2	11	7	3	2	16	12	28
		{ Above 5 years ..	..	..	..	2	1	3	1	..	2	5	7
South Toxteth	..	{ Below 5 years ..	..	..	..	2	7	10	3	4	10	16	26
		{ Above 5 years ..	..	1	..	..	..	2	..	1	..	4	4
Workhouses and Hospitals	..	{ Below 5 years..	..	..	2	1	..	1	2	..	4	2	6
		{ Above 5 years..	..	5	..	8	..	2	1	1	1	16	17
City	..	{ Below 5 years..	5	15	14	18	98	90	22	21	139	144	283
		{ Above 5 years..	2	6	2	12	2	13	3	7	9	38	47

List of Streets in the City wherein Three or more Deaths from
Diarrhoea occurred during the Year 1891.

STREETS.	HOUSES.		Total.		STREETS.	HOUSES.		Total.
	Front.	Court.				Front.	Court.	
Athol	4	..	4		Great Homer .. .. .	..	3	3
Beau .. ...	..	3	3		Laxey	1	2	3
Bond	2	1	3		Salisbury	3	..	3
Buckingham	4	..	4		Vauxhall Road.. .. .	3	..	3
Burlington	3	..	3		Woodstock	2	1	3
Gordon	3	..	3					

WHOOPIING COUGH.

Whooping Cough occasioned 438 deaths. (The average number of deaths for the preceding ten years was 377.) Its percentage death-rate relatively to deaths from all causes was 3·4 in the first quarter of the year, 4·9 in the second, 2·3 in the third, and 1·4 in the fourth ; its percentage rate relatively to deaths from all causes was 3·1, and relatively to deaths from Zymotic causes 23·3.

DEATHS FROM WHOOPING COUGH.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	..	{ Below 5 years ..	6	12	21	19	8	5	3	5	38	41	79
		{ Above 5 years ..	2	..	1	2	..	1	..	..	3	3	6
Vauxhall	..	{ Below 5 years ..	1	..	..	3	..	..	..	..	1	3	4
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{ Below 5 years ..	..	3	..	..	..	..	..	1	..	4	4
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	{ Below 5 years ..	..	1	2	2	..	..	..	..	2	3	5
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	..	{ Below 5 years ..	2	5	5	6	..	1	..	1	7	13	20
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Lime Street	..	{ Below 5 years ..	..	2	2	2	..	..	..	..	2	4	6
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years ..	..	..	..	2	..	..	1	..	1	2	3
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{ Below 5 years ..	..	..	..	..	..	..	1	1	1	1	2
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{ Below 5 years ..	1	..	..	..	1	1	1	..	3	1	4
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{ Below 5 years ..	..	..	..	1	1	..	..	1	1	2	3
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	..	{ Below 5 years ..	..	..	..	1	..	2	1	..	1	3	4
		{ Above 5 years ..	..	..	1	..	..	..	..	1	..	1	1
Everton..	..	{ Below 5 years ..	18	25	17	28	6	8	2	10	43	71	114
		{ Above 5 years ..	3	1	1	2	1	1	..	..	5	4	9
Kirkdale	..	{ Below 5 years ..	3	6	9	19	2	3	4	5	18	33	51
		{ Above 5 years ..	..	..	..	1	..	1	..	..	..	2	2
West Derby	..	{ Below 5 years ..	2	10	9	12	3	8	3	2	17	32	49
		{ Above 5 years ..	..	1	1	..	..	..	..	..	1	1	2
North Toxteth	..	{ Below 5 years ..	6	6	5	9	2	3	..	4	13	22	35
		{ Above 5 years ..	..	1	..	1	..	..	..	..	..	2	2
South Toxteth..	..	{ Below 5 years ..	2	..	4	5	4	3	3	..	13	8	21
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Workhouses and Hospitals	..	{ Below 5 years ..	..	2	1	6	1	1	..	..	2	9	11
		{ Above 5 years ..	..	..	1	..	..	..	..	..	1	..	1
City	..	{ Below 5 years ..	41	72	75	115	28	35	19	30	163	252	415
		{ Above 5 years ..	5	3	5	6	1	3	..	..	11	12	23

CROUP.

The deaths (56) from this disease were 90 below the average of the preceding ten years (1881 to 1890) and 122 lower than the average for the ten years 1871 to 1880.

DEATHS FROM CROUP.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.		M.	F.	Total
			M.	F.	M.	F.	M.	F.	M.	F.			
Scotland	..	{ Below 5 years ..	..	1	..	2	1	..	1	3	2	6	8
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Vauxhall	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	..	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	1	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Lime Street	..	{ Below 5 years ..	1	..	..	..	1	..	1	1	2	3	3
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	..	{ Below 5 years ..	..	..	1	..	..	..	..	..	1	1	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	..	{ Below 5 years ..	2	..	1	4	2	1	2	..	7	5	12
		{ Above 5 years ..	..	..	1	..	..	1	1	..	2	1	3
Kirkdale	..	{ Below 5 years ..	1	3	..	1	1	..	2	1	4	5	9
		{ Above 5 years ..	..	..	1	1	..	..	..	1	1	2	2
West Derby	..	{ Below 5 years ..	1	1	..	..	..	3	1	3	2	7	9
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
North Toxteth..	..	{ Below 5 years ..	..	1	1	1	..	..	1	..	2	2	4
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
South Toxteth..	..	{ Below 5 years ..	..	..	1	2	..	..	..	1	2	3	3
		{ Above 5 years ..	..	..	..	..	1	..	..	..	1	1	1
Workhouses and Hospitals	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
City	..	{ Below 5 years ..	5	6	3	11	4	5	7	9	19	31	50
		{ Above 5 years ..	..	..	1	1	1	2	1	..	3	3	6

DIPHTHERIA.

The number of deaths (63) from this disease was 18 below the average of the preceding ten years (1881 to 1890), and 14 above the average for the ten years 1871 to 1880.

DEATHS FROM DIPHTHERIA.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	..	{ Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Vauxhall	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	..	{ Below 5 years ..	1	..	..	..	..	..	..	..	1	..	1
		{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Exchange	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	..	{ Below 5 years ..	1	1	..	..	..	..	1	..	2	1	3
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Lime Street	..	{ Below 5 years ..	..	..	..	1	1	..	..	..	1	1	2
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	..	{ Below 5 years ..	1	3	..	1	..	1	2	1	3	6	9
		{ Above 5 years ..	2	..	..	..	1	..	1	..	4	..	4
Kirkdale	..	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
		{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
West Derby	..	{ Below 5 years ..	1	..	..	..	2	1	1	1	4	2	6
		{ Above 5 years ..	..	..	..	..	..	1	1	1	1	2	3
North Toxteth..	..	{ Below 5 years ..	1	1	..	..	1	..	1	1	3	2	5
		{ Above 5 years ..	..	1	1	1	..	..	..	..	1	2	3
South Toxteth..	..	{ Below 5 years ..	..	..	..	1	..	..	..	..	..	1	1
		{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Hospitals	..	{ Below 5 years ..	1	1	2	..	1	3	2	2	6	6	12
		{ Above 5 years ..	1	3	..	3	1	..	..	1	2	7	9
City	..	{ Below 5 years ..	6	6	2	3	7	6	7	5	22	20	42
		{ Above 5 years ..	3	4	1	5	2	1	3	2	9	12	21

OTHER ZYMOTICS.

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

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	..	{ Below 5 years	..	1	1	..	..	1	1	2	2	4	6
		{ Above 5 years	..	1	13	15	..	2	..	..	13	18	31
Vauxhall	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	2	..	..	..	..	..	2	2
St. Paul's	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	2	2	..	1	..	..	2	3	5
Exchange	..	{ Below 5 years	1	..	1	..	..	..	..	..	2	..	2
		{ Above 5 years	..	..	2	1	..	..	1	..	3	1	4
St. Anne's	..	{ Below 5 years	..	..	..	..	1	..	1	..	..	2	2
		{ Above 5 years	..	1	5	6	2	1	..	..	7	8	15
Lime Street	..	{ Below 5 years	..	..	..	..	..	1	..	..	..	1	1
		{ Above 5 years	1	..	1	2	..	..	..	..	2	2	4
Castle Street	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	2	..	..	..	1	..	3	..	3
Pitt Street	..	{ Below 5 years	..	..	..	..	..	..	1	..	1	..	1
		{ Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	..	{ Below 5 years	1	..	2	..	1	..	..	1	4	1	5
		{ Above 5 years	..	..	2	..	1	..	..	..	3	..	3
Rodney Street..	..	{ Below 5 years	..	..	..	..	..	1	..	1	..	2	2
		{ Above 5 years	1	..	5	2	..	1	1	..	7	3	10
Abercromby	..	{ Below 5 years	..	..	..	..	..	..	..	..	..	..	..
		{ Above 5 years	..	..	9	4	1	..	..	..	10	4	14
Everton	..	{ Below 5 years	1	..	3	9	..	1	1	2	5	12	17
		{ Above 5 years	3	2	18	22	5	1	3	3	29	28	57
Kirkdale	..	{ Below 5 years	..	..	6	1	..	1	2	..	8	2	10
		{ Above 5 years	..	6	5	9	2	..	1	2	8	17	25
West Derby	..	{ Below 5 years	4	1	2	1	3	..	1	1	10	3	13
		{ Above 5 years	..	1	24	13	1	..	4	1	29	15	44
North Toxteth	..	{ Below 5 years	..	..	3	1	..	2	3	2	6	5	11
		{ Above 5 years	1	2	16	16	1	2	5	..	23	20	43
South Toxteth	..	{ Below 5 years	1	..	..	2	1	..	..	..	2	2	4
		{ Above 5 years	1	2	7	6	1	2	1	1	10	11	21
Workhouses and Hospitals	..	{ Below 5 years	1	1	1	3	3	..	2	6	7	10	17
		{ Above 5 years	4	2	14	16	1	4	5	1	24	23	47
City	..	{ Below 5 years	9	3	19	17	8	8	11	16	47	44	91
		{ Above 5 years	11	17	125	116	15	14	22	8	173	155	328

TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 1,573 deaths in the City of Liverpool during the year 1891. (The average number of deaths for the preceding ten years was 1,787.) The death-rate was 3·0 per 1,000 of the estimated population; their percentage death-rate relatively to deaths from all causes was 11·3.

PHTHISIS.

The deaths from Phthisis amounted to 1,116, the average number for the preceding ten years being 1,260.

WARDS.			QUARTERS.								YEAR.			
			March		June.		Sept.		Dec.					
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.	
Scotland	..	{	Below 5 years	..	1	3	1	..	..	..	..	3	2	5
	..	{	Above 5 years	12	11	13	16	7	12	9	8	41	47	88
Vauxhall	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	..	{	Above 5 years	3	1	4	1	1	2	2	1	10	5	15
St. Paul's	..	{	Below 5 years	..	..	..	..	..	1	..	..	..	1	1
	..	{	Above 5 years	..	2	2	1	2	..	3	..	7	3	10
Exchange	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	..	{	Above 5 years	1	4	4	..	1	1	..	..	6	5	11
St. Anne's	..	{	Below 5 years	3	..	..	..	..	..	..	..	3	..	3
	..	{	Above 5 years	8	5	5	4	3	5	3	..	19	14	33
Lime Street	..	{	Below 5 years	1	1	..	..	..	..	1	1	2	3	
	..	{	Above 5 years	5	1	5	2	3	2	3	2	16	7	23
Castle Street	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	..	{	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
St. Peter's	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	..	{	Above 5 years	2	1	..	..	..	1	..	..	2	2	4
Pitt Street	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	..	{	Above 5 years	..	1	..	1	..	..	2	1	2	3	5
Great George	..	{	Below 5 years	..	..	..	..	1	..	1	..	2	..	2
	..	{	Above 5 years	4	2	4	1	1	..	..	..	9	3	12
Rodney Street..	..	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	..	{	Above 5 years	1	4	1	3	3	1	1	2	6	10	16
Abercromby	..	{	Below 5 years	..	1	..	..	..	..	..	..	..	1	1
	..	{	Above 5 years	2	3	2	5	8	1	4	..	16	9	25
Everton..	..	{	Below 5 years	2	1	..	1	2	1	1	..	5	3	8
	..	{	Above 5 years	24	13	30	25	18	20	20	19	92	77	169
Kirkdale	..	{	Below 5 years	..	2	2	..	..	..	..	..	2	2	4
	..	{	Above 5 years	12	14	9	18	6	13	12	8	39	50	89
West Derby	..	{	Below 5 years	..	1	1	1	..	1	2	..	3	3	6
	..	{	Above 5 years	24	17	21	17	7	8	19	14	71	56	127
North Toxteth..	..	{	Below 5 years	..	..	..	..	..	..	1	..	..	1	1
	..	{	Above 5 years	12	19	9	17	11	6	11	18	43	60	103
South Toxteth..	..	{	Below 5 years	..	1	..	3	1	..	..	..	1	4	5
	..	{	Above 5 years	5	7	6	8	7	10	8	4	26	29	55
Workhouses and Hospitals	..	{	Below 5 years	1	..	2	2	..	..	..	..	3	2	5
	..	{	Above 5 years	53	23	55	29	31	28	47	20	186	100	286
City	..	{	Below 5 years	7	8	8	8	4	3	4	2	23	21	44
	..	{	Above 5 years	168	128	170	148	109	108	144	97	591	481	1072

DEATHS FROM THE OTHER TUBERCULAR DISEASES.

WARDS.			QUARTERS.								YEAR.			
			March.		June.		Sept.		Dec.					
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.	
Scotland	{ Below 5 years ..	5	6	7	3	5	3	1	1	18	13	31
			{ Above 5 years ..	1	1	2	..	..	2	1	..	4	3	7
Vauxhall	{ Below 5 years ..	1	..	2	1	1	1	..	..	4	2	6
			{ Above 5 years ..	2	..	..	..	..	..	1	2	1	3	3
St. Paul's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
			{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years ..	1	1	..	..	..	1	..	..	1	2	3
			{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..	1	1	1	..	4	1	2	..	8	2	10
			{ Above 5 years ..	1	1	2	..	..	..	..	..	3	1	4
Lime Street	{ Below 5 years ..	..	..	..	1	1	1	..	..	1	2	3
			{ Above 5 years ..	..	1	..	..	..	..	..	..	1	1	1
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
			{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	..	1	..	1	..	2	..	4	..	4
			{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	..	1	1	..	..	..	..	..	1	1	2
			{ Above 5 years ..	1	..	..	..	..	..	..	..	1	..	1
Great George	{ Below 5 years ..	..	2	..	..	2	1	5	2	7	5	12
			{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street..	{ Below 5 years ..	..	..	2	..	1	..	1	3	4	3	7
			{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..	..	..	2	..	1	2	1	2	4	4	8
			{ Above 5 years ..	1	..	..	2	..	..	1	..	2	2	4
Everton	{ Below 5 years ..	9	9	8	4	14	11	10	5	41	29	70
			{ Above 5 years ..	6	4	1	7	..	2	2	2	9	15	24
Kirkdale	{ Below 5 years ..	4	6	5	5	7	5	6	5	22	21	43
			{ Above 5 years ..	1	1	1	1	2	1	..	3	4	6	10
West Derby	{ Below 5 years ..	7	1	9	1	3	11	3	8	22	21	43
			{ Above 5 years ..	1	..	2	1	3	1	2	1	8	3	11
North Toxteth	{ Below 5 years ..	5	5	3	4	7	4	4	4	19	17	36
			{ Above 5 years ..	2	..	2	3	2	1	1	1	7	5	12
South Toxteth	{ Below 5 years ..	6	1	4	7	5	2	3	6	18	16	34
			{ Above 5 years ..	1	..	3	1	2	..	..	1	6	2	8
Workhouses and Hospitals	{ Below 5 years ..	1	2	5	1	4	4	3	2	13	9	22
			{ Above 5 years ..	10	1	10	3	5	2	2	5	27	11	38
City	{ Below 5 years ..	40	35	50	27	56	47	41	38	187	147	334
			{ Above 5 years ..	27	9	23	18	14	9	9	14	73	50	123

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

LIVERPOOL OBSERVATORY.

DATE—1891.					Mean Barometer.	Mean Temperature.	Rainfall on Ground.
					Inches.	°	Inches.
January	..	..	..	..	30·093	37·2	1·145
February	..	..	..	..	30·425	42·2	0·110
March	..	..	..	..	29·811	40·3	0·784
April	..	..	..	..	29·984	43·7	1·897
May	..	..	..	..	29·784	49·7	1·849
June	..	..	..	..	30·028	58·4	4·318
July	..	..	..	..	29·907	58·8	3·102
August	..	..	..	..	29·737	58·1	4·616
September	..	..	..	..	29·919	58·4	4·151
October	..	..	..	..	29·684	49·1	2·585
November	..	..	..	..	29·811	42·9	3·324
December	..	..	..	..	29·854	40·4	3·762
Year 1891	..	..	..	..	29·920	48·3	31·643
„ 1890	..	..	..	..	29·929	48·8	26·820

SANITARY WORK.

Privies Certified by the Medical Officer of Health to be nuisances and injurious to health, and ordered by the Corporation to be converted into Water Closets during the year 1891.

WARDS.										No. of Privies Certified.
Great George	..	..	..	..	..	..	..	..	..	1
Rodney Street	..	..	..	..	..	..	..	..	..	2
Everton	..	..	..	..	..	..	..	..	..	1
West Derby	..	..	..	..	..	..	..	..	..	5
North Toxteth	..	..	..	..	..	..	..	..	..	1
TOTAL..	..	..	..	..	..	..	..	..	..	10

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 1891.
Nos. 66 to 72, Grafton Street	Soap Manufacture	—	1	12th March.
No. 141, Vauxhall Rd.	Dressing and Blowing Bladders	1	—	19th „
No. 245, Vauxhall Rd.	Tallow Melting	1	—	19th „
Nos. 79 & 81, Naylor Street	Soap Manufacture	1	—	21st May.
Nos. 79 to 83, Great Howard Street ..	Oil Refining and Soap Manufacture	1	—	31st Dec.

LIVERPOOL SANITARY AMENDMENT ACT, 1864.

ELEVENTH PRESENTMENT.

On the 26th March the Medical Officer of Health delivered a Report to the Town Clerk in accordance with the above Act, specifying a number of houses which, in his opinion, ought to be demolished, as being unfit for human habitation. This Report was laid before the Council on the 1st April, and it was resolved that a copy should be sent to the Clerk of the Peace, to be placed before the Grand Jury at the next Quarter Sessions.

On the 14th April the Grand Jury considered the Report, and having taken evidence for and against it, a deputation of their body visited the different properties, and then made a presentment that the various houses should be demolished in accordance with the Medical Officer's Report.

The houses were situated back to back, either in courts from seven to eleven feet wide, or immediately abutting on such courts, and could not be ventilated—sunlight never entered them—and for years they had been notorious for a high death rate.

ELEVENTH PRESENTMENT.

The court known as No. 1 court in ADDISON STREET, in the City of Liverpool.

The dwelling-house numbered 1 in the said No. 1 court.

The court known as No. 15 court in ADDISON STREET aforesaid.

The dwelling-houses numbered 1, 2, and 3 in the said No. 15 court.

The dwelling-house numbered 43 in ADDISON STREET aforesaid, contiguous to No. 15 court in the said street.

The court known as No. 17 court in ADDISON STREET aforesaid.

The dwelling-houses numbered 1, 2, and 4 in the said No. 17 court.

The dwelling-houses numbered 45 and 47 in ADDISON STREET aforesaid, contiguous to No. 17 court in the said street.

The court known as No. 19 court in ADDISON STREET aforesaid.

The dwelling-houses numbered 1, 2, and 3 in the said No. 19 court.

The dwelling-houses numbered 49 and 51 in ADDISON STREET aforesaid, contiguous to No. 19 court in the said street.

The court known as No. 23 court in ADDISON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, and 6 in the said No. 23 court.

The dwelling-houses numbered 59 and 61 in ADDISON STREET aforesaid, contiguous to No. 23 court in the said street.

The court known as No. 4 court in SAWNEY POPE STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 4, 5, 6, 7, 8, 9, and 10 in the said No. 4 court.

The dwelling-houses numbered 52, 54, and 56 in SAWNEY POPE STREET aforesaid, contiguous to No. 4 court in the said street.

The court known as No. 6 court in SAWNEY POPE STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, and 6 in the said No. 6 court.

The dwelling-houses numbered 64 and 66 in SAWNEY POPE STREET aforesaid, contiguous to No. 6 court in the said street.

The dwelling-house numbered 1 in MILTON STREET in the City of Liverpool.

The court known as No. 2 court in MILTON STREET aforesaid.

The dwelling-houses numbered 1, 2, and 3 in the said No. 2 court.

The dwelling-house numbered 12 in MILTON STREET aforesaid, contiguous to No. 2 court in the said street.

The court known as No. 3 court in MILTON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, and 5 in the said No. 3 court.

The dwelling-houses numbered 3 and 5 in MILTON STREET aforesaid, contiguous to No. 3 court in the said street.

The court known as No. 4 court in MILTON STREET aforesaid.

The dwelling-houses numbered 2, 2a, 4, and 6 in the said No. 4 court.

The dwelling-house numbered 14 in MILTON STREET aforesaid, contiguous to No. 4 court in the said street.

The court known as No. 9 court in MILTON STREET aforesaid.

The dwelling-houses numbered 1, 3 and 5 in the said No. 9 court.

The dwelling-house numbered 15 in MILTON STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 10 court in MILTON STREET aforesaid.

The dwelling-houses numbered 2, 4 and 6 in the said No. 10 court.

The dwelling-house numbered 26 in MILTON STREET aforesaid, contiguous to No. 10 court in the said street.

The court known as No. 11 court in MILTON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 11 court.

The dwelling-houses numbered 19 and 21 in MILTON STREET aforesaid, contiguous to No. 11 court in the said street.

The court known as No. 13 court in MILTON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 13 court.

The dwelling-houses numbered 23 and 25 in MILTON STREET aforesaid, contiguous to No. 13 court in the said street.

The court known as No. 18 court in MILTON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 18 court.

The dwelling-houses numbered 48 and 50 in MILTON STREET aforesaid, contiguous to No. 18 court in the said street.

The court known as No. 9 court in CAVENDISH STREET, in the City of Liverpool.

The dwelling-house numbered 1 in the said No. 9 court.

The dwelling-house numbered 19 in CAVENDISH STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 20 court in CAVENDISH STREET aforesaid.

The dwelling-houses numbered 1 and 2 in the said No. 20 court.

The dwelling-houses numbered 48 and 52 in CAVENDISH STREET aforesaid, contiguous to No. 20 court in the said street.

The dwelling-houses numbered 1, 3, 11, 13, 16, 18, and 20 in Bow STREET, in the City of Liverpool.

The court known as No. 1 court in STOCKDALE STREET, in the City of Liverpool.

The dwelling-houses numbered 2, 4 and 6 in the said No. 1 court.

The dwelling-house numbered 5 in STOCKDALE STREET aforesaid, contiguous to No. 1 court in the said street.

The court known as No. 9 court in STOCKDALE STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 9 court.

The dwelling-houses numbered 25 and 27 in STOCKDALE STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 11 court in STOCKDALE STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 11 court.

The dwelling-houses numbered 29 and 31 in STOCKDALE STREET aforesaid, contiguous to No. 11 court in the said street.

The court known as No 13 court in STOCKDALE STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 13 court.

The dwelling-houses numbered 33, 35 and 37 in STOCKDALE STREET aforesaid, contiguous to No. 13 court in the said street.

The court known as No. 15 court in STOCKDALE STREET aforesaid.

The dwelling-houses numbered 1, 2, 3 and 4 in the said No. 15 court.

The dwelling-houses numbered 39 and 41 in STOCKDALE STREET aforesaid, contiguous to No. 15 court in the said street.

The court known as No. 1 court in ROSE PLACE, in the City of Liverpool.

The dwelling-house numbered 6a in the said No. 1 court.

The court known as No. 6 court in CHAUCER STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3 and 4 in the said No. 6 court.

The court known as No. 10 court in CHAUCER STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 10 court.

The dwelling-houses numbered 22 and 24 in CHAUCER STREET aforesaid, contiguous to No. 10 court in the said street.

The court known as No. 2 court in GROSVENOR STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 in the said No. 2 court.

The dwelling-houses numbered 10 and 12 in GROSVENOR STREET aforesaid, contiguous to No. 2 court in the said street.

The dwelling-house numbered 17 in THURLOW STREET, in the City of Liverpool.

The court known as No. 5 court in THURLOW STREET aforesaid.

The dwelling-houses numbered 1, 2, 3 and 4 in the said No. 5 court.

The dwelling-houses numbered 19 and 21 in THURLOW STREET aforesaid, contiguous to No. 5 court in the said street.

The dwelling-houses numbered 19 and 21 in DOWNE STREET, in the City aforesaid, contiguous to No. 5 court in THURLOW STREET.

The court known as No. 7 court in THURLOW STREET aforesaid.

The dwelling-houses numbered 1 and 3 in the said No. 7 court.

The dwelling-houses numbered 23 and 25 in THURLOW STREET aforesaid, contiguous to No. 7 court in the said street.

The court known as No. 9 court in THURLOW STREET aforesaid.

The dwelling-houses numbered 1, 3 and 5 in the said No. 9 court.

The dwelling-houses numbered 27, 29, 31 and 33 in THURLOW STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 1 court in JENKINSON STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 1 court.

The dwelling-houses numbered 7 and 9 in JENKINSON STREET aforesaid, contiguous to No. 1 court in the said street.

The court known as No. 3 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 3 court.

The dwelling-houses numbered 11 and 13 in JENKINSON STREET aforesaid, contiguous to No. 3 court in the said street.

The court known as No. 5 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6 and 8 in the said No. 5 court.

The dwelling-houses numbered 15 and 17 in JENKINSON STREET aforesaid, contiguous to No. 5 court in the said street.

The court known as No. 7 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7 and 8 in the said No. 7 court.

The dwelling-houses numbered 19 and 21 in JENKINSON STREET aforesaid, contiguous to No. 7 court in the said street.

The court known as No. 9 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7 and 8 in the said No. 9 court.

The dwelling-houses numbered 23 and 25 in JENKINSON STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 11 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8 and 10 in the said No. 11 court.

The dwelling-houses numbered 27 and 29 in JENKINSON STREET aforesaid, contiguous to No. 11 court in the said street.

The court known as No. 13 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 in the said No. 13 court.

The dwelling-houses numbered 31 and 33 in JENKINSON STREET aforesaid, contiguous to No. 13 court in the said street.

The court known as No. 15 court in JENKINSON STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4 and 5 in the said No. 15 court.

The dwelling-house numbered 35 in JENKINSON STREET aforesaid, contiguous to No. 15 court in the said street.

The court known as No. 10 court in FALKNER STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6 and 8 in the said No. 10 court.

The court known as No. 1 court in HARDING STREET, in the City of Liverpool.

The dwelling-houses numbered 1 and 2 in the said No. 1 court.

The dwelling-house numbered 5 in HARDING STREET aforesaid, contiguous to No. 1 court in the said street.

The court known as No. 3 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 in the said No. 3 court.

The dwelling-houses numbered 7 and 9 in HARDING STREET aforesaid, contiguous to No. 3 court in the said street.

The court known as No. 5 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7 and 8 in the said No. 5 court.

The dwelling-houses numbered 11 and 13 in HARDING STREET aforesaid, contiguous to No. 5 court in the said street.

The dwelling-houses numbered 1, 3, 5 and 7 in MALT STREET in the City aforesaid, contiguous to No. 5 court in HARDING STREET.

The dwelling-house numbered 15 in HARDING STREET aforesaid.

The court known as No. 8 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1 and 2 in the said No. 8 court.

The dwelling-houses numbered 30 and 32 in HARDING STREET aforesaid, contiguous to No. 8 court in the said street.

The court known as No. 10 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1 and 2 in the said No. 10 court.

The dwelling-houses numbered 34 and 36 in HARDING STREET aforesaid, contiguous to No. 10 court in the said street.

The court known as No. 14 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8 and 9 in the said No. 14 court.

The dwelling-houses numbered 42, 44, 46, 48, 50 and 52 in HARDING STREET aforesaid, contiguous to No. 14 court in the said street.

The court known as No. 16 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6 and 7 in the said No. 16 court.

The dwelling-houses numbered 54 and 56 in HARDING STREET aforesaid, contiguous to No. 16 court in the said street.

The court known as No. 18 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 18 court.

The dwelling-houses numbered 58 and 60 in HARDING STREET aforesaid, contiguous to No. 18 court in the said street.

The court known as No. 20 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 20 court.

The dwelling-houses numbered 62 and 64 in HARDING STREET aforesaid, contiguous to No. 20 court in the said street.

The court known as No. 22 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 22 court.

The dwelling-houses numbered 66 and 68 in HARDING STREET aforesaid, contiguous to No. 22 court in the said street.

The court known as No. 24 court in HARDING STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 24 court.

The dwelling-houses numbered 70, 72 and 74 in HARDING STREET aforesaid, contiguous to No. 24 court in the said street.

The court known as No. 2 court in MANN STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3 and 4 in the said No. 2 court.

The dwelling-houses numbered 2 and 4 in MANN STREET aforesaid, contiguous to No. 2 court in the said street.

The court known as No. 4 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7 and 8 in the said No. 4 court.

The dwelling-houses numbered 6, 8 and 10 in MANN STREET aforesaid, contiguous to No. 4 court in the said street.

The court known as No. 10 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 in the said No. 10 court.

The dwelling-houses numbered 24 and 26 in MANN STREET aforesaid, contiguous to No. 10 court in the said street.

The court known as No. 12 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 14 in the said No. 12 court.

The dwelling-houses numbered 28 and 30 in MANN STREET aforesaid, contiguous to No. 12 court in the said street.

The court known as No. 14 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 3, 4, 5, 6, 7, 8, 9, 10, and 12 in the said No. 14 court.

The court known as No. 7 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, and 12 in the said No. 7 court.

The court known as No. 9 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, and 8 in the said No. 9 court.

The dwelling-houses numbered 31 and 33 in MANN STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 11 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, and 7 in the said No. 11 court.

The dwelling-house numbered 35 in MANN STREET aforesaid, contiguous to No. 11 court in the said street.

The court known as No. 13 court in MANN STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, and 7 in the said No. 13 court.

The dwelling-houses numbered 37 and 39 in MANN STREET aforesaid, contiguous to No. 13 court in the said street.

The court known as No. 2 court in BEAUFORT STREET in the City of Liverpool.

The dwelling-houses numbered 1 and 2 in the said No. 2 court.

The court known as No. 4 court in BEAUFORT STREET aforesaid.

The dwelling-houses numbered 2 and 3 in the said No. 4 court.

The court known as No. 6 court in BEAUFORT STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, and 8 in the said No. 6 court.

The court known as No. 8 court in BEAUFORT STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, and 4 in the said No. 8 court.

The court known as No. 1 court in FISHER STREET, in the City of Liverpool.

The dwelling-houses numbered 1 and 2 in the said No. 1 court.

The court known as No. 2 court in BRINDLEY STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, and 4 in the said No. 2 court.

The dwelling-houses numbered 6 and 8 in BRINDLEY STREET aforesaid, contiguous to No. 2 court in the said street.

The court known as No. 8 court in BRINDLEY STREET aforesaid.

The dwelling-houses numbered 1 and 3 in the said No. 8 court.

The dwelling-house numbered 20 in BRINDLEY STREET aforesaid, contiguous to No. 8 court in the said street.

The court known as No. 10 court in BRINDLEY STREET aforesaid.

The dwelling-houses numbered 1, 2, 3 and 4 in the said No. 10 court.

The dwelling-houses numbered 22 and 24 in BRINDLEY STREET aforesaid, contiguous to No. 10 court in the said street.

The court known as No. 12 court in BRINDLEY STREET aforesaid.

The dwelling-houses numbered 1, 2, 3 and 4 in the said No. 12 court.

The dwelling-houses numbered 26 and 28 in BRINDLEY STREET aforesaid, contiguous to No 12 court in the said street.

The court known as No. 14 court in BRINDLEY STREET aforesaid.

The dwelling-house numbered 2 in the said No. 14 court.

The dwelling-house numbered 30 in BRINDLEY STREET aforesaid, contiguous to No. 14 court in the said street.

The dwelling-house numbered 4 in DUCKINFIELD STREET, in the City of Liverpool.

Under the provisions of the above Act, the Medical Officer of Health delivered to the Town Clerk various reports during the year, certifying that the following premises were unfit for human habitation, and ought to be demolished. These reports were laid before the Council, and referred to the Insanitary Property Committee to be dealt with. In nearly all the cases the property has been bought and will be, if it has not already been, demolished.

The court known as No. 5 court in BLACKSTOCK STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7 and 8 in the said No. 5 court.

The court known as No. 4 court in CHAUCER STREET, in the City of Liverpool.

The dwelling-house numbered 1 in the said No. 4 court.

The dwelling-houses numbered 14 and 16 in CHAUCER STREET aforesaid.

The court known as No. 22 court in CHARTERS STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 in the said No. 22 court.

The dwelling-houses numbered 44 and 46 in CHARTERS STREET aforesaid, contiguous to No. 22 court in the said street.

The court known as No. 24 court in CHARTERS STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 in the said No. 24 court.

The dwelling-houses numbered 48 and 50 in CHARTERS STREET aforesaid, contiguous to No. 24 court in the said street.

The court known as No. 26 court in CHARTERS STREET aforesaid.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10 in the said No. 26 court.

The dwelling-houses numbered 52 and 54 in CHARTERS STREET aforesaid, contiguous to No. 26 court in the said street.

The court known as No. 13 court in ADDISON STREET, in the City of Liverpool.

The dwelling-house numbered 1 in the said No. 13 court.

The dwelling-house numbered 39 in ADDISON STREET aforesaid, contiguous to No. 13 court in the said street.

The dwelling-house numbered 41 in ADDISON STREET aforesaid.

The dwelling-house numbered 20 in MIDGHALL STREET, in the City of Liverpool.

The court known as No. 22 court in ST. ANDREW STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7 and 8 in the said No. 22 court.

The dwelling-houses numbered 72 and 76 in ST. ANDREW STREET aforesaid, contiguous to No. 22 court in the said street.

The court known as No. 9 court in DUCKINFIELD STREET, in the City of Liverpool.

The dwelling-house (not numbered) at the rear of No. 25 DUCKINFIELD STREET aforesaid, and in the said No. 9 court.

The dwelling-house numbered 25 in DUCKINFIELD STREET aforesaid, contiguous to No. 9 court in the said street.

The court known as No. 24 court in RATHBONE STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 18 in the said No. 24 court.

The dwelling-houses numbered 132 and 136 in RATHBONE STREET aforesaid, contiguous to No. 24 court in the said street.

The dwelling-house numbered 32 in MANN STREET, in the City of Liverpool.

The dwelling-houses numbered 1 and 3 in PROVIDENCE STREET, in the City of Liverpool.

The dwelling-house numbered 113 in HENDERSON STREET, in the City of Liverpool.

The dwelling-house numbered 31 in NORTHUMBERLAND STREET, in the City of Liverpool.

The court known as No. 14 court in BRASSEY STREET, in the City of Liverpool.

The dwelling-houses numbered 1, 3 and 5 in the said No. 14 court.

The dwelling-house numbered 26 in BRASSEY STREET aforesaid, contiguous to No. 14 court in the said street.

The court known as No. 16 court in BRASSEY STREET aforesaid.

The dwelling-houses numbered 2, 4 and 6 in the said No. 16 court.

The dwelling-house numbered 28 in BRASSEY STREET aforesaid, contiguous to No. 16 court in the said street.

The total number of insanitary houses dealt with in 1891 was 594, comprising 499 in the 11th Presentment and 95 in various other reports.

The City Engineer has kindly supplied the following tables :—

INSANITARY PROPERTY.

Insanitary Property purchased 1891.					Insanitary Property demolished 1891.				
No. of houses included in ninth presentment.	No. of houses included in tenth presentment.	No. of houses included in eleventh presentment.	No. of houses purchased by Insanitary Property Committee included in presentments referred by Council to Committee.	Total.	No. of houses included in ninth presentment.	No. of houses included in tenth presentment.	No. of houses included in eleventh presentment.	No. of houses demolished by Insanitary Property Committee included in presentments referred by Council to Committee.	Total.
2	117	60	59	238	6	133	15	67	221

NUMBER OF HOUSES ERECTED AND NUMBER OF HOUSES TAKEN DOWN IN EACH OF THE SIXTEEN WARDS OF THE CITY DURING THE YEAR 1891.

WARDS.								Houses Erected.	Houses taken down.
1	Everton and Kirkdale..	..	..	..	..	..	..	63	1
2	Scotland ..	..	..	..	..	..	..	19	137
3	Vauxhall ..	..	..	..	..	..	..	32	30
4	St. Paul's ..	..	..	..	..	..	..	....	20
5	Exchange ..	..	..	..	..	..	..	2	4
6	Castle Street ..	..	..	..	..	..	..	....	....
7	St. Peter's ..	..	..	..	..	..	..	....	....
8	Pitt Street ..	..	..	..	..	..	..	....	1
9	Great George ..	..	..	..	..	..	..	10	12
10	Rodney ..	..	..	..	..	..	..	....	....
11	Abercromby ..	..	..	..	..	..	..	....	41
12	Lime Street ..	..	..	..	..	..	..	....	....
13	St. Anne's ..	..	..	..	..	..	..	10	22
14	West Derby ..	..	..	..	..	..	..	152	6
15	South Toxteth ..	..	..	..	..	..	..	45	153
16	North Toxteth ..	..	..	..	..	..	..	38	10
Total number of houses erected and houses taken down during year 1891								371	437

For the first time in the History of Liverpool more houses have been taken down than erected.

SEWER VENTILATION TO END OF 1891.

No. of 6-inch Iron Pipe Ventilating Shafts	883
No. of Street Ventilating Gratings	4,461
The length of Old Sewers Ventilated	180 miles

NOTE.—All New Sewers are ventilated as constructed.

THE STAFF OF INSPECTORS UNDER THE MEDICAL OFFICER OF HEALTH.

The inspection and registering of lodging houses, sub-let houses, canal boats, and bakehouses are carried out under the special directions of the Medical Officer, as well as the disinfection of infected houses, the granting of licenses for keeping cattle, and the registration of dairies, cowsheds and milk shops. For these purposes the Medical Officer has a staff consisting of one Chief Inspector, ten Inspectors for lodging houses, one for canal boats, one for bakehouses, two for disinfection, and one for milk shops.

The constant supervision of lodging houses is equally as necessary to secure cleanliness as to prevent overcrowding, and for this purpose an additional clause in the bye-laws has been obtained to secure the cleansing of the floors of houses, which were found to be sadly neglected and often in a filthy condition. The enforcement of this bye-law has had a beneficial effect upon the inhabitants in rousing them from that dirty lethargic condition into which they are too apt to fall.

The following informations were laid, and small fines inflicted by the Magistrates, against the Keepers of Lodging Houses :—

Not sweeping floors...	35
Not washing floors	21

Sub-let Houses :—

Not sweeping floors	423
Not washing floors	416

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 813 lodging-houses at the end of 1890, and 856 at the end of 1891. This difference was occasioned by the removal of 251 old licences, and the addition of 294 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 36,260, and the night visits 5,632. The number of lodging-houses found overcrowded on the night visits was 24, the number of informations laid for breaches of the bye-laws was 94, with the results of fines in 94 cases to the extent of £13 18s. 0d., in sums varying from 1s. to 10s. and costs. The number of lodging-houses found dirty was 120; 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 1,303 such visits paid during the day, and in 29 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 229 such notices issued during the year, but in only 3 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. 5 cases of fever occurred in lodging-houses; 3 of the patients were at once sent to hospital, the remaining 2, being members of the keepers' families, were not removed; both of these latter died. In all cases of fever or infectious disease, the bedding was removed to the disinfecting apparatus and the rooms purified and cleansed. No lodger died from fever or small pox in a registered lodging-house; but, not including the cases of fever, there were 109 deaths from non-contagious diseases in lodging-houses, of which 73 belonged to the keepers' families and 36 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 no applications were made for registration, but 16 of the licenses previously granted were renewed, leaving the number on the Register 16.

SUB-LET HOUSES.

The number registered during 1891 was 845, making the total on the Register on the 31st December, 20,244. The number of visits paid during the night was 16,543, and during the day 99,814, with the result of finding 1,436 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 633 rooms thus indecently occupied by 924 males and 1,089 females, besides having also in these rooms 428 children between the ages of 3 and 12 years. The character of the indecent occupation may be judged of from the following facts:—In 324 instances one man and two women were found in the same bedroom; in 212 instances two men and one woman; in 32 instances two men and two women; in 35 instances one man and three women; in 15 instances three men and one woman; in 6 instances two men and three women; in 3 instances three men and two women; in 3 instances one man and four women; in 2 instances two men and four women; and in 1 instance four men and one woman.

Informations were laid against 2,006 chief tenants for breaches of the bye-laws, with the following results:—59 fined 1s.; 1,822 fined 1s. and 1s. costs; 1 fined 1s. 6d. and 1s. costs; 10 fined 1s. 6d. and 1s. 6d. costs; 15 fined 2s. and 2s. costs; 31 fined 2s. 6d. and 2s. 6d. costs; 10 fined 5s. and 4s. 6d. costs; 2 fined 10s. and 4s. 6d. costs; and 1 fined 20s. and 4s. 6d. costs; making a total of fines levied during the year of £204 19s. Of the remaining 55 cases, 29 informations were withdrawn and 26 acquitted, the tenants having complied with the bye-laws.

BAKEHOUSES.

7,288 visits have been made to Bakehouses during the year. 579 Bakehouses were found dirty, and notices were served to limewash and cleanse them. 12 notices were served 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 1891, 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 water-way 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. There is no additional salary paid them beyond that of Lodging-house Inspectors.

The number of visits and inspections of Canal Boats during the year was 4,370.

48 Boats were found to be used as dwellings, and not registered.	} 47 abated, and 1 not seen since by Inspector.
10 Notices were sent to the owners.	
1 Information laid, and a summons issued.	

51 were found without Certificates on board.	} 48 abated, and 3 not seen since by the Inspectors.
51 Notices were sent to the owners.	

41 were found not having the registered number painted on both sides of the boat.	} 37 abated, 1 notice not expired, and 3 not seen by In- spectors.
41 Notices were sent to the owners.	

172 Cabins, used as dwellings, were found in a dilapidated and insanitary state, caused by leaky decks (111), general leaky condition of boats (13), no doors to lockers (5), broken scuttle covers (3), defective ventilation (26), defective stoves (2), and broken floors (12).

172 Notices were sent to the owners—166 abated, and 6 not seen since by the Inspectors.

21 had defective second bulkheads ; 21 Notices were sent—abated.

5 were found not having sufficient sleeping accommodation for the number of persons allowed on board, according to the Certificate of registration.

5 Notices were sent—abated.

46 required the cabins painting ; 46 notices were sent to owners—40 abated, 2 notices not expired, and 4 not seen since by the Inspectors.

18 had dirty cabins and required cleaning ; 9 verbal notices given to masters—abated, and 9 notices sent to owners—abated.

4 found carrying offensive cargoes and not having a second bulkhead ; 4 informations were laid against the masters and summonses issued.

In 1 case the Inspectors on visiting the boats between 6 and 8 a.m. found the sexes mixed, and summoned the master.

Informations were laid in 9 cases for infringements of the Acts and Regulations—viz., causing an unregistered boat to be used, 1 ; carrying offensive cargoes and not having second bulkheads, 4 ; mixing sexes, 1 ; not producing certificate of registration, 3. In 7 of the cases fines were inflicted, varying from 2s. 6d. and 2s. 6d. costs to 10s. and 4s. 6d. costs, and 2 were withdrawn against the owners, the magistrate finding that the masters were alone at fault.

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

53 notices were sent to the School Board of children living on Canal Boats and not attending any school.

The number of boats on the register is 517, of which 201 have been re-registered, viz. :—5 in 1884, 60 in 1885, 21 in 1886, 25 in 1887, 20 in 1888, 24 in 1889, 23 in 1890, and 23 in 1891.

During the year 23 new boats were registered and 23 re-registered on account of changes of owners.

New certificates were issued to six boats, owing to structural alterations, and new certificates were issued to one boat by another authority on a notice sent by the local Inspectors.

There were 64 changes of masters reported and the necessary records made on the register.

CASES OF INFECTIOUS DISEASE COMING UNDER THE NOTICE
OF THE MEDICAL OFFICER OF HEALTH DURING 1891.

Year—1891.	Fever.			Small Pox.	Scarlatina.	Measles.	Diphtheria	Membranous Croup.	Puerperal Fever.	Erysipelas.	Choleraic Diarrhoea.	TOTAL.
	Typhus.	Typhoid.	Simple.									
January	6	32	3	..	195	60	13	3	5	58	..	375
February	17	19	3	1	112	55	23	5	2	47	..	284
March ..	21	25	6	2	90	121	18	5	3	49	..	340
April ..	11	29	2	1	112	228	16	4	8	44	..	455
May ..	3	26	6	7	65	225	8	5	3	55	..	403
June ..	5	28	4	..	72	278	9	..	1	44	1	442
July ..	18	44	6	..	66	105	14	5	6	36	..	300
August ..	34	48	7	..	56	95	19	3	..	39	..	301
September	22	89	10	..	69	152	22	5	2	52	..	423
October ..	13	81	11	1	119	138	16	6	6	62	..	453
November	17	97	10	8	120	346	17	1	5	78	..	699
December	8	70	8	1	100	459	18	2	2	45	..	713
TOTAL ..	175	588	76	21	1,176	2,262	193	44	43	609	1	5,188
Removed to Hospital	156	350	61	21	448	160	49	..	9	148	..	1,402

The number of patients removed to hospital includes those taken to General Hospitals as well as those taken to Isolation Hospitals.

Of the patients removed to Hospital the following were conveyed by the Sanitary Officers:—492 cases of Fever, 448 cases of Scarlatina, 21 cases of Small Pox, 107 cases of Measles, 42 cases of Diphtheria, and 3 cases of Erysipelas, making a total of 1,113 persons. 540 were taken to Netherfield Road Hospital, 79 to the Parish Workhouse Hospital, Brownlow Hill, 65 to the City Hospital, Parkhill, and 429 to the City Hospital, Grafton Street.

In accordance with the arrangements made with the School Board, 2,524 postcards 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.

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, disinfectants were given to the tenants for use in the sick room until the sulphurous gas could be used safely. No house is considered properly disinfected until sulphurous gas has been used. The existence of sickness, and the consequent employment of carbolic acid powder, necessitate many visits by the persons in charge of disinfection. There were in all 5,495 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 2,074.

MORTUARIES.

During the year 24 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.

THE DISINFECTING APPARATUS.

The number of articles disinfected at the Apparatus during the year amounted to 29,206.

DATE. 1891.		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending--						
January	10	73	98	472	112	755
"	17	70	100	389	74	633
"	24	60	86	353	126	625
"	31	63	109	521	227	920
February	7	52	86	450	344	932
"	14	47	88	361	201	697
"	21	44	71	337	162	614
"	28	42	65	259	110	476
March	7	43	63	261	92	459
"	14	54	74	337	129	594
"	21	35	60	278	111	484
"	28	32	38	169	64	303
April	4	46	46	266	60	418
"	11	22	32	167	31	252
"	18	41	58	248	44	391
"	25	34	47	232	111	424
May	2	37	46	278	77	438
"	9	42	66	299	132	539
"	16	40	65	292	135	532
"	23	29	39	341	184	593
"	30	33	47	216	61	357
June	6	26	48	197	97	368
"	13	36	45	257	98	436
"	20	21	29	152	78	280
"	27	23	43	220	79	365
July	4	25	47	209	78	359
"	11	18	13	108	39	178
"	18	36	54	278	92	460
"	25	34	52	252	114	452
August	1	29	40	189	102	360
"	8	31	57	353	169	610
"	15	44	55	419	178	696
"	22	50	56	251	180	537
"	29	39	56	271	65	431
September	5	26	38	165	60	289
"	12	39	54	235	75	403
"	19	55	68	324	108	555
"	26	42	39	235	84	400
October	3	50	38	282	169	539
"	10	45	67	310	215	637
"	17	54	77	396	125	652
"	24	42	51	322	228	643
"	31	63	87	357	199	706
November	7	55	65	446	209	775
"	14	70	40	368	611	1,089
"	21	72	76	490	380	1,018
"	28	65	60	475	92	692
December	5	60	87	472	109	728
"	12	63	71	654	165	953
"	19	71	139	472	358	1,040
(1892)	26	31	42	263	128	464
January	2	45	80	296	234	655
Totals . . .		2,299	3,158	16,244	7,505	29,206

The number of articles destroyed at the Apparatus during the year amounted to 1,100.

DATE. 1891.	Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c	Total Number of Articles.
Week ending—					
January 10 ..	..	2	..	..	2
" 17 ..	1	7	..	1	9
" 24 ..	1	2	1	7	11
" 31 ..	..	2	..	..	2
February 7 ..	..	2	..	29	31
" 14 ..	..	..	..	..	..
" 21 ..	..	8	..	..	8
" 28 ..	3	11	5	10	29
March 7 ..	4	14	13	8	39
" 14 ..	4	5	5	30	44
" 21 ..	..	2	..	..	2
" 28 ..	3	2	3	31	39
April 4 ..	2	6	..	..	8
" 11 ..	..	4	4	1	9
" 18 ..	1	5	1	13	20
" 25 ..	4	6	2	1	13
May 2 ..	..	8	9	..	17
" 9 ..	4	6	..	..	10
" 16 ..	..	4	3	..	7
" 23 ..	4	6	..	..	10
" 30 ..	1	..	5	..	6
June 6 ..	3	2	5	..	10
" 13 ..	3	4	1	..	8
" 20 ..	2	4	1	2	9
" 27 ..	2	2	9	14	27
July 4 ..	1	1	2	3	7
" 11 ..	2	2	5	4	13
" 18 ..	2	2	11	..	15
" 25 ..	3	8	7	..	18
August 1 ..	1	4	9	60	74
" 8 ..	4	2	6	24	36
" 15 ..	5	12	9	36	62
" 22 ..	..	6	3	21	30
" 29 ..	..	8	40	7	55
September 5 ..	1	4	5	..	10
" 12 ..	5	4	10	..	19
" 19 ..	5	13	15	18	51
" 26 ..	2	1	5	13	21
October 3 ..	..	8	4	1	13
" 10 ..	2	8	8	14	32
" 17 ..	2	10	3	1	16
" 24 ..	1	4	11	..	16
" 31 ..	..	6	6	36	48
November 7 ..	3	6	..	..	9
" 14 ..	3	10	5	4	22
" 21 ..	2	6	..	..	8
" 28 ..	2	2	5	..	9
December 5 ..	2	14	2	27	45
" 12 ..	3	6	3	4	16
" 19 ..	9	6	..	40	55
" 26 ..	1	6	5	1	13
1892.					
January 2 ..	4	10	3	..	17
Totals ..	107	283	249	461	1,100

CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

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

PLEURO-PNEUMONIA.

Under the Pleuro-Pneumonia Order of 1890 the Board of Agriculture takes charge of all cattle suffering from the disease, or having been in contact with cattle so suffering, directs their slaughter, and pays such compensation to the owner as may be deemed necessary. The Order came into operation on the 1st of September, 1890.

This disease was found in two cow-sheds—40, Hornby Street, one animal affected, and eleven others in the same shed; and 53, Annerley Street, one animal affected, and eighteen others in the same shed.

One animal was found at the abattoir, having been brought from Fairfield, suffering from the disease, and notice was sent to the County Authorities.

SWINE FEVER.

19 pigs suffering from the disease were found in the slaughter-houses. 18 were from Ireland and 1 from Scotland.

RABIES.

Five dogs were suspected to have Rabies. The Veterinary Superintendent examined one live animal, and held *post mortem* examinations on four, but none were found to have been affected with the disease.

LICENSES FOR CATTLE.

During the year 1 application was made to the Health Committee for a license to keep 1 cow, which was granted. There are at present 380 shippens licensed to keep 4,950 cows. 55 of the shippens previously licensed have been transferred to fresh tenants.

4 applications were made during the year to keep pigs in styers separate from and unconnected with shippens; all of the applications were refused. The total number of premises or styers now licensed in the City is 25 for keeping 92 pigs.

In addition to the above, 10 applications were made to keep 28 cows beyond the number for which licenses had been granted. 7 of the applications to keep 16 cows were granted.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDER.

Number of applications for registration during the year	257
Of which transfers were	182
Number of applications granted	230
" " refused	27
Number on the register at the end of 1890	2322
" " " 1891	1797

TABLE No. 1.

SUMMARY of Examinations by direction of the Board of Agriculture, by Richard S. Reynolds, M.R.C.V.S.,
Veterinary Superintendent for the Corporation of Liverpool.

PLEURO - PNEUMONIA.

Cattle.	ANIMALS EXAMINED.		POST MORTEM EXAMINATIONS.		
	Healthy.	Affected.	Total.	Healthy.	Total.
In Liverpool.....	10	..	10	11	11
From other Places	16	3	19	38	47
Total	26	3	29	49	58

Mr. Reynolds was appointed to act as Veterinary Inspector for Liverpool under the Board of Agriculture.

SUMMARY of Veterinary Inspection under the Contagious Diseases (Animals)
Act.—*Continued.*

TABLE No. 2.
RABIES.

Animals Examined.	Affected.	Not Affected.	Post-Mortem Examinations.	Affected.	Not Affected.
1	—	1	4	—	4

TABLE No. 3.
GENERAL.

EXAMINATION OF ANIMALS IN TRANSIT.						
			FOR EXPORT.		LANDED COASTWISE.	
			Healthy.	Diseased.	Healthy.	Diseased.
Cattle	—	—	—	—
Sheep	—	—	—	—
Swine	—	—	—	—

SANITARY DEPARTMENT.

The Staff of the Sanitary Department has been placed under the management of the Assistant Medical Officer, Dr. Hope, who has supplied the following tables of work done by that department during the Year.

The Staff comprises 23 Sanitary Inspectors, 4 Meat and 3 Fish Inspectors, 2 inspectors under the Contagious Diseases (Animals) Act, 1 Inspector under the Food and Drugs Act, 2 Smoke Inspectors, 8 Disinfecting Inspectors, and 1 Disinfecting Apparatus Superintendent.

PROCEEDINGS UNDER THE CONTAGIOUS DISEASES (ANIMALS) ACT, 1878

Number of Visits to Railway Stations, including inspections made on Sundays..	3,457
„ Inspections of pens	104,448
„ found clean	81,861
„ „ dirty and cleansed before being used	22,587
„ Informations for dirty pens used before being cleansed	—
„ Inspections of Trucks.. .. .	27,650
„ found clean	24,141
„ „ dirty and cleansed before being used, or leaving the City dirty	3,509
„ Informations for dirty trucks used before being cleansed	—
„ Inspections of Horse Boxes	460
„ found clean	207
„ „ dirty and cleansed before being used, or leaving the City dirty	253
„ Informations for dirty horse boxes used before being cleansed	—
Number of Inspections of Vessels	9,226
„ found clean	4,666
„ „ dirty and cleansed before being used, or going to Sea without cattle or cargo	4,550
„ Informations for dirty vessels used before being cleansed	10
„ Inspections of Gangways	7,104
„ found clean	5,630
„ „ dirty and cleansed before being used	1,474
„ Informations for insufficient ventilation to vessel	—
„ Informations for not disinfecting scrapings and sweeping	1
Number of Inspections of Lairage and Sale Yards	3,749
„ found clean	2,869
„ „ dirty and cleansed before being used	880
„ Informations for dirty Lairages used before being cleansed	1
„ Informations for landing dung of Foreign animals without consent in writing of the Local Authority	2
„ „ „ landing broken fodder	—
„ Informations for having carried sheep on main deck without being penned	1
Total Number of Informations	15
„ Fined	14
„ Withdrawn	1
Amount of Fines and Costs.. .. .	£26 2 0

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

	STREET.	Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Dead Meat Imported for Sale.			
							Beasts.	Sheep.	Pigs.	Calves.
	Abattoir.	9632	214247	..	14592	37587	31731	217213	..	622
NEW PARTS.	Byles Street .....	..	..	..	..	..	..	..	..	..
	Back Butler Street	195	586	322	51	1	..	..	..	..
	Back Castle Street	1196	1574	22	420	7	155	..	..	..
	Back Mount Vernon Green	3137	3941	1037	50	..	..	..	..	..
	Cotter Street	135	111	148	57	3601	..	..	..	..
	Corlett Street	74	1285	384	42	31	..	..	..	..
	Crown Street	101	1289	334	2	..	..	..	..	..
	Darnley Street .....	..	..	..	..	3145	..	..	..	..
	Edgeware Street	8	646	172	..	..	..	..	..	..
	Embleton Street	314	4109	1650	11	..	..	..	..	..
OLD PARTS.	Foley Street .....	..	..	..	..	7297	..	..	..	..
	Gelling Street	371	400	262	43	..	..	..	..	..
	Peel Street	127	1084	314	23	25	..	..	..	..
	Bevington Hill	997	367	..	861	..	2744	..	..	..
	Benledi Street .....	..	..	..	..	1590	..	..	..	..
	Byrom Street .....	..	..	..	..	3454	..	..	..	..
	Bolton Street	214	3378	1222	10	..	..	..	..	..
	Back Commutation Row(1)	13	4	1	20	..	..	..	..	..
	" " (2)	369	1876	420	..	..	..	..	..	..
	Copperas Hill .....	..	..	..	..	12806	..	..	..	..
	Finch Place	557	2034	884	8	..	..	..	..	..
	Frederick Street	10	295	296	10	13	..	..	..	..
	Hodson Street	63	1002	4	1	..	..	..	..	..
	Lydia Ann Street	304	3492	396	..	..	..	..	..	..
	Norman Street .....	..	..	..	..	2537	..	..	..	..
	Norfolk Street	10	3008	929	..	2	..	..	..	..
	Scotland Road .....	..	..	..	..	..	..	..	..	..
	Soho Street .....	..	..	..	..	1866	..	..	..	..
	Upper Milk Street	1	..	..	..	8640	..	..	..	..
Total in Private Slaughter-houses		8196	30481	8797	1609	45015	2899	..	..	..
Total in the City		17828	244728	8797	16201	82602	34630	217213	..	622

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

DATE.—1891.		Beef.	Veal.	Mutton.	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Oysters.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head		Lbs.	Bags.	
SLAUGHTER HOUSES.	Abattoir ..	95979	7079	16126	..	9397	..	..	..	..	..
	Back Castle Street ..	12012	578	1076	..	..	..	..	..	..	..
	Back Butler Street ..	580	..	..	..	..	..	..	..	..	..
	Bevington Hill ..	35493	1767	60	..	..	..	..	..	..	..
	Benledi Stret ..	..	..	..	120	..	..	..	..	..	..
	Byrom Street..	220	..	910	..	200	384	..	..	..	..
	Copperas Hill ..	..	..	..	..	3260	..	..	..	..	..
	Corlett Street ..	..	..	92	..	..	..	..	..	..	..
	Cotter Street ..	..	..	56	..	900	..	..	..	..	..
	Foley Street ..	..	..	..	..	418	..	..	..	..	..
	Gelling Street ..	600	..	..	..	..	..	..	..	..	..
	Norman Street ..	..	..	..	..	530	..	..	..	..	..
	Upper Milk Street ..	..	..	..	..	580	..	..	..	..	..
MARKETS.	St. James' ..	30	..	..	..	..	..	..	..	..	..
	St. John's ..	2135	200	496	..	40	330	906	139839	94	900
	St. Martin's ..	1022	..	..	..	1680	..	..	..	..	..
OTHER PARTS.	Bramley Moore Dock.	..	..	..	..	..	436	..	..	..	..
	Breckfield Road ..	271	..	..	..	..	..	..	..	..	..
	Brownlow Hill ..	580	..	..	..	..	..	..	..	..	..
	Christian Street ..	9	..	..	..	..	..	..	..	..	..
	Congreve Street ..	..	..	..	..	55	..	..	..	..	..
	Deane Street ..	..	..	..	..	..	..	..	1200	..	..
	Exchange Station ..	1172	..	..	..	..	..	..	650	..	..
	Fairclough Lane ..	..	..	..	..	96	..	..	..	..	..
	Fox Street ..	336	..	..	..	..	..	..	..	..	..
	Gt. Charlotte Street..	..	..	50	..	..	..	71	24204	..	..
	Great Homer Street..	522	..	300	..	..	..	..	..	..	..
	Hood Street ..	..	..	..	..	..	..	..	..	..	1000
	Kensington ..	185	..	..	..	..	..	..	..	..	..
	Kew Street ..	..	..	..	..	12	..	..	..	..	..
	Lime Street ..	..	..	..	..	280	..	35	900	..	..
	London Road..	169	..	..	..	..	..	..	..	..	..
	Mill End ..	800	..	..	..	..	..	..	..	..	..
	Mill Street ..	..	..	748	..	..	..	..	..	..	..
	Rose Street ..	..	..	..	..	..	..	104	13008	10	3500
	Scotland Place ..	430	..	3071	..	..	..	..	..	..	..
	Scotland Road ..	730	..	1100	..	140	..	..	..	..	..
	Stanley Road ..	123	..	..	..	..	..	..	..	..	..
	Vauxhall Road ..	3	..	..	..	..	..	..	..	..	..
	Walton Road..	13	..	..	..	..	..	..	..	..	..
	Wavertree Road ..	180	..	..	..	..	..	..	..	..	..
	Wm. Henry Street ..	2	..	115	..	..	..	..	..	..	..
Total		153596	9624	24200	120	17588	1150	1116	179801	104	5400

Total quantity of Meat and Fish found to be unfit for human food :—

	Tons	cwts.	qrs.	lbs.
Meat	91	11	2	0
Fish	80	5	1	13

Number of Visits to Slaughterhouses made by Meat Inspectors	12,955
„ „ Butchers' Shops * „ „	57,019
„ „ Fish Shops „ Fish Inspectors	40,027
„ „ Poultry Depots	344
„ Informations in respect to Diseased Meat and Fish	30
„ Fined	27
„ sent to Gaol	—
Amount of Fines and Costs	£33 15 6

SMOTHERED AND INJURED CATTLE.

Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
41	96	90	177	50	11,320

KNACKERS' YARDS RETURNS.

	Horses Destroyed.	Asses Destroyed.	Other Animals Destroyed.
Holme Street	1,311	18	21
Grafton Street	580	8	14
Total	1,891	26	35

OFFENSIVE TRADES.

Number of visits	249
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MANURE YARDS AND WHARVES.

Number of visits	426
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GRAVES.

Number examined and measured	64
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* The Sunday inspection, which is systematically carried out, is not included in these figures.

SHIPPON AND PIGGERY INSPECTION.

Number of Inspections of Shippons and Piggeries	1,257
„ Informations	8
„ Fined	5
Amount of Fines and Costs	£1 13s. 6d.

DAIRIES AND MILK SHOPS.

Number of Inspections of Dairies and Milk Shops	2,448
„ found Incorrect.. .. .	404
„ of Informations.. .. .	11
„ Fined	8
„ Acquitted and Withdrawn	3
„ Special visits made for the purpose of correcting the Milk Shops' Register... .. .	1,149
Amount of Fines and Costs	£1 12 0

NUISANCES AND CONDITIONS PREJUDICIAL TO HEALTH.

Nuisances inspected, complained of by Inhabitants	5,977
„ Reported by District Officers	45,203
„ Notices issued.. .. .	32,989
Number of notes to complainants	2,250
„ „ comply with notices	4,272
„ Informations	1,720
„ Fined	318
„ Magistrates' Orders to abate	624
„ Withdrawn and acquitted, the work being done	778
Amount of Fines and Costs	£142 9 0

REFERENCES TO OTHER DEPARTMENTS.

Referred to the Medical Officer.. .. .	*6,351
„ City Engineer	2,099
„ Building Surveyor	1,232
„ Water Engineer	5,804
„ Superintendent of Scavengers	2,111

* Chiefly school children from infected houses.

REFERENCES FROM OTHER DEPARTMENTS.

Received from the City Engineer	11,605
„ Veterinary Superintendent	2,849
„ Water Engineer	2,290
„ Medical Officer of Health	1,425

HOUSE TO HOUSE VISITATION.

Number of	Inspections of Street Houses	..	..	..	..	..	9,132
"	Street Houses found Clean	..	..	..	..	..	7,926
"	" " " Dirty	..	..	..	..	..	1,206
"	Apartments in Street Houses Examined	..	..	..	..	..	36,043
"	Inspections of Court Houses	..	..	..	..	..	3,091
"	Court Houses found Clean..	..	..	..	..	..	2,003
"	" " " Dirty..	..	..	..	..	..	1,088
"	Apartments in Court Houses Examined..	..	..	..	..	..	9,048
"	Re-inspections of Dirty Houses..	..	..	..	..	..	3,993
"	Total Number of Houses Examined	..	..	..	..	..	16,216

COURT AND ALLEY EXAMINATIONS.

Number of	Visits to Courts and Alleys	..	..	..	..	..	110,363
"	Closets found Dirty, but Cleansed by Officer's Instruction	..	..	..	..	..	93,584
"	Informations..	..	..	..	..	..	122
"	Fined ..	..	..	..	..	..	107
Amount of Fines and Costs ..							£13 16 0

The changes made in the method of dealing with the courts and alleys have been attended with 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 a prosecution was 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.

EXAMINATION OF CELLAR DWELLINGS.

Number of	Inspections of Street Cellars	..	..	..	..	..	4,403
"	Cellars used for Lumber, Coals, &c.	..	..	..	..	..	2,100
"	" Found empty	..	..	..	..	..	239
"	" Illegally Occupied	..	..	..	..	..	164
"	" Legally..	..	..	..	..	..	1,900
"	Inspections of Court Cellars..	..	..	..	..	..	710
"	Court Cellars used for Lumber, Coals, &c.	..	..	..	..	..	520
"	" Found Empty	..	..	..	..	..	79
"	" Illegally Occupied	..	..	..	..	..	20
"	" Legally..	..	..	..	..	..	91
"	Cellars found Dirty	..	..	..	..	..	424
"	Cellar Notices Issued to cease occupying	..	..	..	..	..	160
"	" Informations	..	..	..	..	..	18
"	Fined ..	..	..	..	..	..	13
"	Withdrawn ..	..	..	..	..	..	5
Amount of Fines and Costs ..							£2 6 6

During the year 4,667 Cellars have been re-measured, and when found to conform to the requirements of the Public Health Act, have been placed upon an Amended Register, making a total of 9,723 cellar dwellings at present upon the Register.

WATER CLOSET CONVERSIONS.

Number of Notices ..	..	..	..	..	..	..	..	..	7
„ Certified ..	..	..	..	..	..	..	..	..	10
„ Constructed ..	..	..	..	..	..	..	..	..	7

INFECTED AND DIRTY HOUSES.

Number of Infected Street Houses Inspected ..	..	..	..	..	..	1601
„ „ Court „ „ ..	..	..	..	..	..	155
„ „ Cellars „ ..	..	..	..	..	..	45
Number of Notices to Owners to Cleanse Infected Houses ..	..	..	..	..	..	1799
„ „ „ „ „ Dirty Houses ..	..	..	..	..	..	2272
„ „ Occupiers to Whitewash Dirty Houses ..	..	..	..	..	..	360
„ „ Owners to Whitewash Exterior of Courts ..	..	..	..	..	..	2135
„ Informations against Owners..	..	..	..	..	..	139
„ „ „ Occupiers ..	..	..	..	..	..	46
„ Fined ..	..	..	..	..	..	79
„ Acquitted and Withdrawn ..	..	..	..	..	..	94
Amount of Fines and Costs ..	..	..	..	..	£26 0 6	

PATIENTS REMOVED TO HOSPITALS.

Netherfield Road.	Grafton Street.	Park Hill.	Brownlow Hill.
540	429	65	79

REMOVALS TO MORTUARIES ON MEDICAL CERTIFICATES OR ON
MAGISTRATES' ORDERS.

Bodies Removed to Mortuaries.			
Smithdown Road.	St. Martin's.	Mill Road.	Anfield.
2	20	1	1

PRINCE'S DOCK MORTUARY.

A new Mortuary has been erected by the Corporation and the Mersey Docks and Harbour Board on a site near the old Mortuary at the Prince's Dock, which had become dilapidated from age and unfit for use. This Mortuary is not for the reception of bodies dead from infectious disease, but for the bodies of persons who have been drowned, killed, &c., and over which the Coroner has to hold inquests. Bodies are taken there by the police, and where it may be necessary to make post-mortem examinations, any medical gentleman may have the assistance of an Inspector on sending a communication to No. 63, Eldon Place, Vauxhall Road.

PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Town Notices	...	...	...	...	...	...	...	...	355
„ River „	...	...	...	...	...	...	...	...	284
„ Informations against Manufactories	...	...	...	...	...	...	...	...	344
„ „ Steamers	...	...	...	...	...	...	...	...	275
„ Fined	...	...	...	...	...	...	...	...	595
„ Acquitted or Withdrawn	...	...	...	...	...	...	...	...	24
Amount of Fines and Costs	...	...	...	...	...	...	£720	3 6	

MARGARINE ACT.

Number of Visits to Shops	...	...	...	...	...	...	2716
„ Samples obtained	...	...	...	...	...	...	36
„ „ Analysed*	...	...	...	...	...	...	—
„ Informations	...	...	...	...	...	...	35
„ Fined	...	...	...	...	...	...	35
Amount of Fines and Costs	...	...	...	...	...	£35	19 0

* Samples not left for analysis when the offence is admitted by the vendor.

PROCEEDINGS UNDER THE SALE OF FOOD AND DRUGS ACT.

No. of Samples.	Description of Samples	Results of Analysis.
458	New Milk	80 were found to be adulterated.
163	Skimmed Milk ..	43 " " " "
17	Condensed Milk ..	2 " " " "
5	Cream	Found to be genuine.
1	Butter Milk ..	" " adulterated.
78	Butter	36 were found to be adulterated.
17	Lard	4 " " " "
3	Olive Oil	Found to be genuine.
20	Medicine per Prescription ..	3 were found to be adulterated.
4	Cream of Tartar ..	Found to be genuine.
4	Carbonate of Soda	" " "
3	Seidlitz Powders ..	" " "
3	Tartaric Acid ..	" " "
2	Chloroform ..	" " "
1	Paregoric	" " "
1	Turpentine	" " "
1	Tincture of Iodine	" " "
37	Coffee	33 were found to be adulterated.
33	Pepper	4 " " "
19	Jams	Found to be genuine.
15	Mustard	5 were found to be adulterated.
10	Yeast	Found to be genuine.
8	Preserved Peas ..	3 were found to be adulterated.
7	Pickles	Found to be genuine.
7	Cheese	2 were found to be adulterated
7	Flour	Found to be genuine.
6	Cocoa	" " "
6	Vermicelli	" " "
5	Isinglass	" " "
4	Honey	" " "
4	Tea	" " "
4	Vinegar	" " "
3	Arrowroot	" " "
3	Roast Mutton (tinned) ..	" " "
3	Irish Whiskey ..	1 was found to be adulterated.
3	Beer	Found to be genuine.
2	Preserved Ginger	" " "
2	Olives	" " "
2	Bread	" " "
2	Chewing Gum ..	1 was found to be adulterated.
2	Rum	Found to be genuine.
2	Scotch Whiskey ..	" " "
2	Gin	" " "
2	Sugar	" " "
1	Bread and Butter	" " "
1	Capers	" " "
1	Ground Cassia ..	" " adulterated.
1	Apricots	" " "
1	Sweet Crab Apples	" " genuine.
1	Preserved Tomatoes ..	" " "
1	Lime Juice	" " "
1	Sweet Peas	" " "
1	Oatmeal	" " "
1	Maccaroni	" " "
1	Ground Mace ..	" " "
1	" Cinnamon ..	" " "
1	" Ginger	" " "
1	Preserved Pine Apple ..	" " "
Total 995		217 Adulterated.

Number of Informations	145
„ Fined	134
Acquitted or Withdrawn	11
Amount of Fines and Costs ..	£173 9 9

REFUSING TO SELL SAMPLES FOR ANALYSIS.

No. of Informations	7
„ Fined	2
Acquitted or Withdrawn	5
Amount of Fines and Costs ..	.. £1 14 0

Several of the articles submitted to analysis are deserving of special mention :—

MILK :—A total of 627 samples of milk were taken during the year.

The simple and remunerative fraud of adulteration with water is practised most frequently on Sundays ; out of 243 samples purchased on Sundays, 48 or 19 per cent. were adulterated, while out of 384 purchased on week days, 45 or 11 per cent. were adulterated. Twenty-three samples were taken from the milk cans on their arrival from the country at railway stations, and seven of these were found to be adulterated.

CONDENSED MILK :—The public should be on their guard in the purchase of this article ; several brands consist of genuine condensed milk, and the addition of water will reduce it to the strength of ordinary new milk, but other brands are made from milk from which all the cream has been abstracted, and the use of such preparations as the sole food for infants would be seriously prejudicial to their health.

MEDICINES are, on the whole, genuine, and prescriptions carefully prepared.

The material sold as French Coffee contains chicory in proportions varying between 25 and 70 per cent., and what is coffee is not French. As the price of chicory is very much less than that of coffee, and as the amounts paid for the mixture are practically the same, whatever proportion of chicory there may be, the profits attending the sale of chicory in this manner must be very large. Chicory has also been found in samples purchased and paid for as pure coffee.

BUTTER :—Of 78 samples purchased and paid for as butter, 36 were largely adulterated with various animal fats, and were in fact margarine.

MARGARINE :—A few samples of margarine were obtained under the Sale of Food and Drugs Act, and were found to consist of clean and wholesome material.

Visits have been frequently paid under the Margarine Act to places where margarine is sold, and the requirements of the Act are, on the whole, satisfactorily observed.

Samples obtained under the Margarine Act are not analysed, when the vendor admits having exposed or sold margarine as butter.

A practice exists among many grocers of wrapping every article which they sell, in a wrapper marked in small type "This is sold as a mixture." Those who desire genuine and unadulterated articles would do well to decline to accept articles wrapped in the manner indicated, since it is doubtful whether under the Sale of Food and Drugs Act the purchaser would have any redress even though a pure and unadulterated article were demanded and paid for.

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.

This large and important work has been satisfactorily conducted during the year, and its magnitude is exemplified by the great amount of material disposed of. No less than 226,412 tons were collected and sent away, except a small amount of about 7,000 loads which was burnt by the destructor, and about 36,000 tons deposited on tips. The destructor has been in work since August 25th, and from that date to the end of the year it has destroyed only the lightest, driest, and most combustible refuse collected by bell carts and from offices; it has yet to be tested with ashpit refuse, which is much heavier and generally wet. One of the strongest objections brought against the tipping of refuse into the sea has been the floating of the lighter matters and their possible ultimate deposit on the shores. If this material only is destroyed, it will lessen very considerably the cause of complaint, but it is to be hoped that a large amount of the less combustible refuse can also be disposed of by the destructor, a question which a further trial will have to settle.

Year 1891.

TABLE No. 1.

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

Notices Received.	Middens, &c., Emptied.	Loads of Nightsoil and Ashes.					Nightly average Working Staff.				Analysis of Work.		Average contents of each Midden.
		Number Removed.			Where Deposited.		Midden Men.	Wharf Men.	Carts.	Horses.	Loads per Man per Night.	Loads per Cart per Night.	
		Manure.	* Ashes.	Total.	Chisen- hale Street.	Sandhills.								River Craft Dock.
767	4,445	..	5,822	5,822	5,278	7	537	1.	4.	4.	3.1	4.6	1.3

TABLE No. 2.

SERVICE FOR THE COLLECTION AND REMOVAL OF DRY ASHPIT ASHES.

Notices Received.	Ashpits Emptied.	Loads of Dry Ashes.					Average Daily Working Staff.				Analysis of Work.		Average contents of each Ashpit. Cart loads.
		Number Removed.	Where Deposited.				Ashpit Men.	Carts and Wagons.	Horses.	Loads per Man per Day.	Loads per Cart per Day.		
			Chisen- hale Street.	Sandhills.	River Craft Dock.	Waver- tree.						Rubbish Tips, &c.	
3,625	349,118	75,042	13,650	17,330	21,284	..	22,778	86.9	64.4	68.7	2.7	3.7	.21

TABLE No. 3.

SERVICE FOR THE COLLECTION AND REMOVAL OF BELL
CART ASHES.

Loads Removed	Where Deposited.				Carts Employed.
	Chisenhale Street.	Sandhills.	River Craft Dock.	Rubbish Tips	
16,879	8,717	2,141	6,018	3	15.

TABLE No. 4.

SERVICE FOR FLUSHING AND CLEANSING TROUGH WATER
CLOSETS.

Number of Urinals.	Number of Trough Water Closets.	Average Working Staff.	
		Trough W. C. Men.	Urinal Men.
235—622 Stalls.	3,000	42.	10.8

TABLE No. 5.

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

Loads of Street Sweepings Removed.						Average Daily Staff.				Average Number of Loads Removed Daily per Cart.	
Total Number Removed.	Where Deposited.					Scavengers.	Sweeping Machines.		Carts.		Horses.
	Chisenhale Street.	Sandhills.	Wavertree.	River Craft Dock.	Refuse on Tips and New Macadam.		Day.	Night.			
86,433	46,866	13,769	3,616	20,875	1,307	253.4	3.9	14.9	65.5	65.5	4.2

TABLE No. 8.
REMOVAL OF GARBAGE FROM ABATTOIR.

Loads Removed.	Where Deposited.			Carts employed.
	Chisenhale Street.	Sand- hills.	River Craft Dock.	
1,690	1,031	229	430	14

TABLE No. 10.
HORSES.—DAILY AVERAGE NUMBER.

Hired.	Corporation Horses.				Supplied for various Works.																					
	Number.	Effective for Work.	Percentage of Ineffectives.	At Work every Sunday.	Scavenging.												City Engineer.				Sundry Places.	Disinfecting Vans, &c.	Not Ordered.			
					Night Soil Removal.	Dry Ash Removal.	Sundry Ash Tips.	Bell Ash Removal.	Street Scavenging.	Sweeping Machines, Day.	Sweeping Machines, Night.	Yard, Stables, Stores, Wharf, &c.	Market.	Superintendent.	Watering.	Watering before Street Machines.	Carr Hall.	Messenger.	Abattoir.	Paving.	Sewers Cleansing.	Brownlow Street.	Watering before Steam Roller.			
86	250·6	242	3·8	28·2	4	64·4	4·3	15	65·5	4	15	4·3	1·3	2	9·6	2	5·2	2	1·4	23·3	7·8	1	2	3·5	8·7	43

New Horses.		Number Disposed of			
Purchased.	Bred.	Died.	Destroyed.	Percentage of Mortality.	Sold.
49	2	8	1	3·6	32

TABLE No. 11.
AVERAGE DAILY STAFF OF MEN EMPLOYED.

General.				Night Service.		Day Service.																	Stables, Yards, and Stores.		Workshops.					Wharves, Depôts, &c.										Grand Total.																																																							
Inspectors.	32	Timekeeper, Checker, &c.	4	Clerks	4	Office Boy.	1	Total.	4	Inspectors	5	Midden Men.	1	Wharf Men.	8	Total.	20	Inspectors and Foremen.	8	District Storekeepers.	6	Watermen.	75	Barrow Men.	137	Sweepers.	65	Cart Followers.	30	Passage Men.	20	Gully Men.	42	Trough Closet Men.	10	Urinal Men.	1	Casual.	86	Ash Men.	9	Boat Men.	21	Crews Hopper Barges.	6	Carr Hall.	15	Orderly Boys.	557	Total.	4	Horsekeepers.	4	Night Watchmen.	933	Carters, Yardmen, Stable-men, and Storekeepers.	242	Total.	9	Cartwrights.	7	Shoeing Smiths.	9	Blacksmiths and Strikers.	3	Painters.	29	Total.	1	Inspector.	21	Labourers.	51	Inspector.	1	Labourers.	51	Foreman.	1	Labourers.	2	Foreman.	1	Labourers.	8	Foreman.	..	Labourers.	4	Foreman.	..	Labourers.	33	Total.	941
Inspector.	32	Timekeeper, Checker, &c.	4	Clerks	4	Office Boy.	1	Total.	4	Inspectors	5	Midden Men.	1	Wharf Men.	8	Total.	20	Inspectors and Foremen.	8	District Storekeepers.	6	Watermen.	75	Barrow Men.	137	Sweepers.	65	Cart Followers.	30	Passage Men.	20	Gully Men.	42	Trough Closet Men.	10	Urinal Men.	1	Casual.	86	Ash Men.	9	Boat Men.	21	Crews Hopper Barges.	6	Carr Hall.	15	Orderly Boys.	557	Total.	4	Horsekeepers.	4	Night Watchmen.	933	Carters, Yardmen, Stable-men, and Storekeepers.	242	Total.	9	Cartwrights.	7	Shoeing Smiths.	9	Blacksmiths and Strikers.	3	Painters.	29	Total.	1	Inspector.	21	Labourers.	51	Inspector.	1	Labourers.	51	Foreman.	1	Labourers.	2	Foreman.	1	Labourers.	8	Foreman.	..	Labourers.	4	Foreman.	..	Labourers.	33	Total.	941

TABLE No. 12.
Daily Consumption of Provender and Weekly Cost per Horse per Week.
Food and Litter.

Days Keep.	Total Consumption of Food.		Daily Average Consump- tion per Horse.	Weekly Cost of each Horse's Keep.
92,785	Corn	10,807 centals.	Lbs. 11·64	
	Beans and Peas ..	3,465 "	3·73	
	Oats	252 "	·27	
	Bran	1,553 "	1·67	Gross weekly cost 11s. 7d.
	Meal	535 "	·58	Credit value of
	Linseed			Manure 7d.
	Roots	297 cwts.	} 1·87	
	Grass	1,257 "		
	Hay	9,644 "	11·80	
	Straw	5,895 "	7·11	
	Peat Moss	436 "	·56	
	Sawdust	1,186 Sacks	·013	Net. 11s. 0d.

TABLE OF DEATHS

DURING THE YEAR 1891, IN THE URBAN SANITARY DISTRICT OF LIVERPOOL, CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES.

DURING THE YEAR 1891, IN THE URBAN SANITARY DISTRICT OF LIVERPOOL, CLASSIFIED ACCORDING TO LOCALITIES.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
(L) NAMES OF LOCALITIES adopted for the purpose of these Statistics: public institutions being shown as separate localities.								MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES.							MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								At all Ages.	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 60.	60 and upwards.	(i.)	Smallpox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Euteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Dysentery.	Rheumatic Fever.	Ague.	Phthisis.	Bronchitis, Pneumonia, Pleurisy.	Heart Disease.	Injuries.	All Other Diseases.	Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
WARDS.								(a.)	(b.)	(c.)	(d.)	(e.)	(f.)	(g.)	(h.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Scotland								1587	467	362	70	50	448	190	Under 5	..	8	1	8	..	1



TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS
coming to the knowledge of the Medical Officer of Health, during the year 1891, in the Urban Sanitary District of Liverpool; classified according to DISEASES and LOCALITIES.

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	POPULATION AT ALL AGES.		NEW CASES OF SICKNESS IN EACH LOCALITY, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH.											NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITALS.										
	Census, 1891.	Registered Births.	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11
			Smallpox.	Scarlatina.	Diphtheria.	Membranous Group.	FEVERS.					Cholera.	Erysipelas.	Smallpox.	Scarlatina.	Diphtheria.	Membranous Group.	FEVERS.					Cholera.	Erysipelas.
							Typhus.	Enteric Typhoid.	Continued.	Relapsing.	Puerperal.							Typhus.	Enteric Typhoid.	Continued.	Relapsing.	Puerperal.		
WARDS.	(b.)	(c.)																						
(a.)																								
Scotland	53723	1984	..	84	8	3	10	51	9	..	3	..	69	..	39	3	..	7	27	8	..	..	..	..
Vauxhall	7115	261	..	1	3	..	1	2	2	..	..	..	19	..	1	..	..	1	1	2	..	..	..	..
St. Paul's and Exchange	12948	379	..	12	5	..	1	13	6	..	..	..	19	..	10	..	..	7	6	..	..	..	..	..
St. Anne's and Lime Street	27641	745	1	27	13	1	3	24	4	..	4	..	59	1	13	5	..	3	12	3	..	..	..	..
Castle Street and St. Peter's	5113	104	..	10	4	..	..	7	2	..	1	..	6	..	5	1	..	..	3	2	..	..	..	..
Pitt Street and Great George	14362	425	..	15	4	..	6	15	1	..	..	..	29	..	7	3	..	6	10	1	..	..	..	..
Rodney Street and Abercromby	36089	1098	..	67	10	..	4	29	4	..	4	1	23	..	26	4	..	4	8	3	..	..	..	..
Everton (H)	110517	4006	1	308	48	7	14	147	11	1	4	..	88	1	115	7	..	6	81	7	..	..	..	..
Kirkdale	66131	2446	6	177	12	11	3	67	11	..	9	..	46	6	57	7	..	1	34	8	..	..	..	..
West Derby	76971	2689	1	270	44	8	15	78	4	..	6	..	80	1	87	5	..	12	29	4	..	..	..	..
The Toxteths (H H)	107341	3695	2	168	41	14	114	132	19	..	7	..	128	2	52	4	..	109	60	14	..	..	..	..
Public Institutions. } Workhouses and Hospitals .. .. .	..	..	..	27	1	..	3	10	1	..	5	..	40	..	26	1	..	3	2	1	..	..	..	..
Emigrants, Seamen, &c., passing through the City .. .. .	..	..	10	10	..	..	1	13	1	..	..	..	3	10	10	..	..	1	11	1	..	..	..	..
TOTALS	517951	17832	21	1176	193	44	175	588	75	1	43	1	609	21	448	40	..	153	285	60	..	..	..	..

Notification of Infectious Disease compulsory in the District since 1st September, 1890.

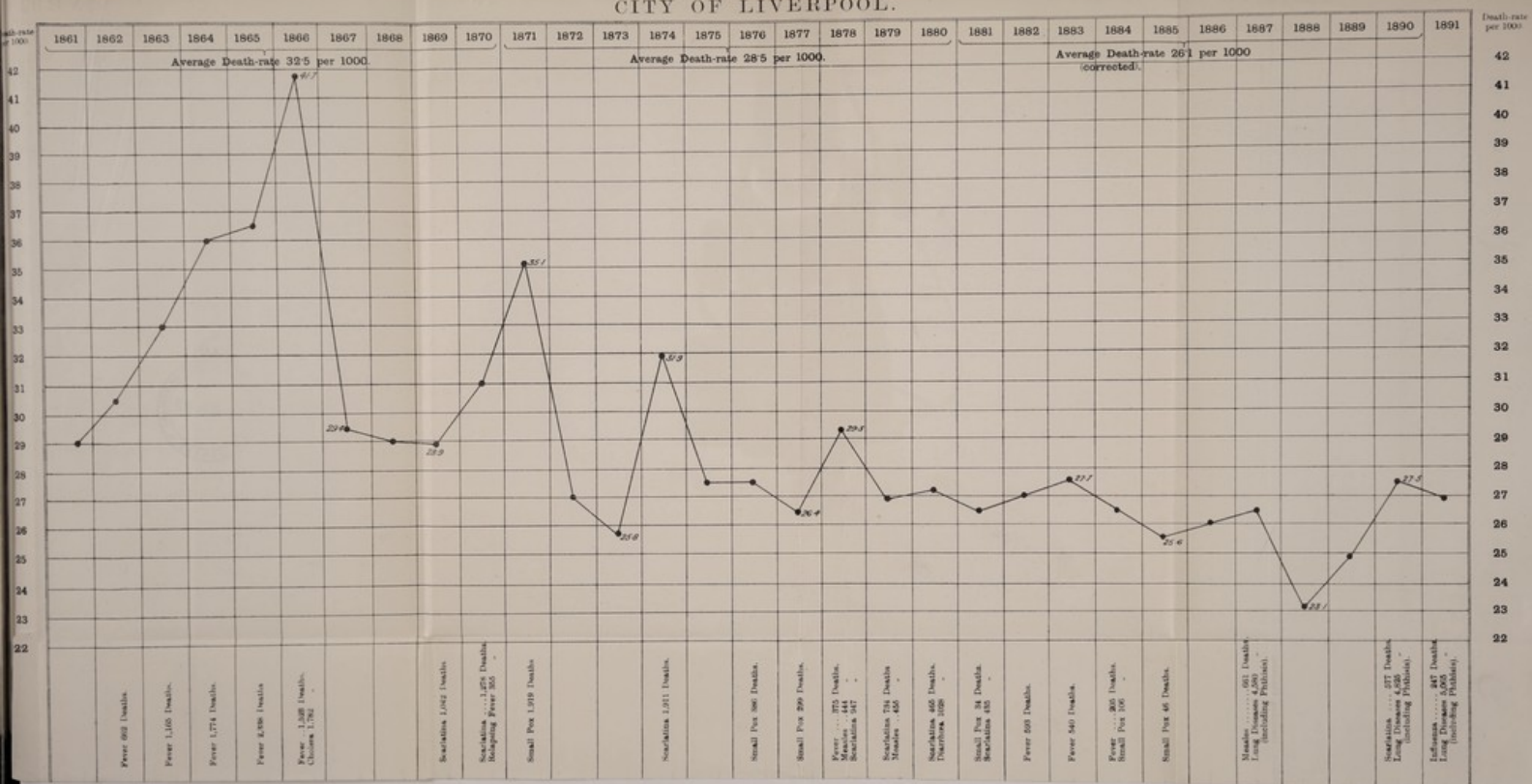
(H) The localities in which the Isolation Hospitals are situated.

TABLE OF POPULATION, BIRTHS, DEATHS, AND MARRIAGES IN THE DISTRICT OF THE BOROUGH OF BIRMINGHAM, 1891

Wards	Population	Males	Females	Births	Deaths	Marriages	Notes
1	1,234	612	622	15	12	8	
2	1,567	783	784	22	18	12	
3	1,890	945	945	28	25	15	
4	2,123	1,061	1,062	35	30	20	
5	2,456	1,228	1,228	42	38	25	
6	2,789	1,394	1,395	50	45	30	
7	3,123	1,561	1,562	58	52	35	
8	3,456	1,728	1,728	65	60	40	
9	3,789	1,894	1,895	72	68	45	
10	4,123	2,061	2,062	80	75	50	
11	4,456	2,228	2,228	88	82	55	
12	4,789	2,394	2,395	95	90	60	
13	5,123	2,561	2,562	102	98	65	
14	5,456	2,728	2,728	110	105	70	
15	5,789	2,894	2,895	118	112	75	
16	6,123	3,061	3,062	125	120	80	
17	6,456	3,228	3,228	132	128	85	
18	6,789	3,394	3,395	140	135	90	
19	7,123	3,561	3,562	148	142	95	
20	7,456	3,728	3,728	155	150	100	
21	7,789	3,894	3,895	162	158	105	
22	8,123	4,061	4,062	170	165	110	
23	8,456	4,228	4,228	178	172	115	
24	8,789	4,394	4,395	185	180	120	
25	9,123	4,561	4,562	192	188	125	
26	9,456	4,728	4,728	200	195	130	
27	9,789	4,894	4,895	208	202	135	
28	10,123	5,061	5,062	215	210	140	
29	10,456	5,228	5,228	222	218	145	
30	10,789	5,394	5,395	230	225	150	
31	11,123	5,561	5,562	238	232	155	
32	11,456	5,728	5,728	245	240	160	
33	11,789	5,894	5,895	252	248	165	
34	12,123	6,061	6,062	260	255	170	
35	12,456	6,228	6,228	268	262	175	
36	12,789	6,394	6,395	275	270	180	
37	13,123	6,561	6,562	282	278	185	
38	13,456	6,728	6,728	290	285	190	
39	13,789	6,894	6,895	298	292	195	
40	14,123	7,061	7,062	305	300	200	
41	14,456	7,228	7,228	312	308	205	
42	14,789	7,394	7,395	320	315	210	
43	15,123	7,561	7,562	328	322	215	
44	15,456	7,728	7,728	335	330	220	
45	15,789	7,894	7,895	342	338	225	
46	16,123	8,061	8,062	350	345	230	
47	16,456	8,228	8,228	358	352	235	
48	16,789	8,394	8,395	365	360	240	
49	17,123	8,561	8,562	372	368	245	
50	17,456	8,728	8,728	380	375	250	
51	17,789	8,894	8,895	388	382	255	
52	18,123	9,061	9,062	395	390	260	
53	18,456	9,228	9,228	402	398	265	
54	18,789	9,394	9,395	410	405	270	
55	19,123	9,561	9,562	418	412	275	
56	19,456	9,728	9,728	425	420	280	
57	19,789	9,894	9,895	432	428	285	
58	20,123	10,061	10,062	440	435	290	
59	20,456	10,228	10,228	448	442	295	
60	20,789	10,394	10,395	455	450	300	
61	21,123	10,561	10,562	462	458	305	
62	21,456	10,728	10,728	470	465	310	
63	21,789	10,894	10,895	478	472	315	
64	22,123	11,061	11,062	485	480	320	
65	22,456	11,228	11,228	492	488	325	
66	22,789	11,394	11,395	500	495	330	
67	23,123	11,561	11,562	508	502	335	
68	23,456	11,728	11,728	515	510	340	
69	23,789	11,894	11,895	522	518	345	
70	24,123	12,061	12,062	530	525	350	
71	24,456	12,228	12,228	538	532	355	
72	24,789	12,394	12,395	545	540	360	
73	25,123	12,561	12,562	552	548	365	
74	25,456	12,728	12,728	560	555	370	
75	25,789	12,894	12,895	568	562	375	
76	26,123	13,061	13,062	575	570	380	
77	26,456	13,228	13,228	582	578	385	
78	26,789	13,394	13,395	590	585	390	
79	27,123	13,561	13,562	598	592	395	
80	27,456	13,728	13,728	605	600	400	
81	27,789	13,894	13,895	612	608	405	
82	28,123	14,061	14,062	620	615	410	
83	28,456	14,228	14,228	628	622	415	
84	28,789	14,394	14,395	635	630	420	
85	29,123	14,561	14,562	642	638	425	
86	29,456	14,728	14,728	650	645	430	
87	29,789	14,894	14,895	658	652	435	
88	30,123	15,061	15,062	665	660	440	
89	30,456	15,228	15,228	672	668	445	
90	30,789	15,394	15,395	680	675	450	
91	31,123	15,561	15,562	688	682	455	
92	31,456	15,728	15,728	695	690	460	
93	31,789	15,894	15,895	702	698	465	
94	32,123	16,061	16,062	710	705	470	
95	32,456	16,228	16,228	718	712	475	
96	32,789	16,394	16,395	725	720	480	
97	33,123	16,561	16,562	732	728	485	
98	33,456	16,728	16,728	740	735	490	
99	33,789	16,894	16,895	748	742	495	
100	34,123	17,061	17,062	755	750	500	



CITY OF LIVERPOOL.





DURING THE YEAR ENDING SATURDAY, 2ND JANUARY, 1892.

References



PHILIP'S PLAN OF LIVERPOOL

FEVER CASES NOTIFIED DURING
1891.

The BLUE Dots mark the Number of Cases of Typhoid, and the
RED Dots the Number of Cases of Typhus.





