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HEALTH DEPARTMENT.



PASIDORAL

ON THE HEALTH OF THE

CITY OF LIVERPOOL

DURING

1907

BY THE

MEDICAL OFFICER OF HEALTH.



Acres 8





With the Medical Officer of Health's Compliments

Municipal Buildings, Liverpool



HEALTH DEPARTMENT.

REPORT

ON THE HEALTH OF THE

CITY OF LIVERPOOL

DURING

1907

BY

E. W. HOPE, M.D., D.Sc.,

Medical Officer of Health.





(Ordered by the Health Committee to be printed, 30th April, 1908.)

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The year 1907 was characterised by having the lowest death-rate ever recorded in Liverpool. The progressive, although not uninterrupted, decline in the rate of mortality for a number of years is shown on a chart preceding page 9.

Liverpool has, and will no doubt continue to have, a great number of deaths debited to it of persons who are strangers to the City who have been brought into it by ships, or who have come from a distance to seek relief in Nursing Homes and other places for the treatment of the sick. The recorded death-rates therefore include some deaths of persons who do not belong to the district.

It is probable, moreover, that the population (746,144) is somewhat under-estimated. Some evidences in support of this will be found from the natural increase of population by births over deaths, and also by the rapid increase in the number of occupied dwellings in the suburbs. This circumstance would also tend to make the death-rate appear higher than it actually is. In order to ensure precision on these points a quinquennial census is necessary, and successive Presidents of the Local Government Board, whilst admitting the correctness of this view, have not been able, owing to financial difficulties, to give effect to it.

It is particularly gratifying to notice the diminution in infant mortality in the City as a whole. Some of the methods adopted to lessen the waste of infant life are alluded to on pages 19 to 25, and various charts and diagrams have been inserted with a view to make the points clearer to the reader.

It is in the zymotic death-rate that the decline is most marked, notably in zymotic diarrhœa, a circumstance partly owing to the coolness of the summer, and the rainfall.

Measles and whooping-cough continue to claim a large number of victims. Each of these diseases destroys more lives than those forms of sickness which are included under the term "dangerous infectious disease," such as scarlet fever, typhoid fever, typhus fever, and

diphtheria, a circumstance which shows the necessity for a closer application of preventive measures in these forms of sickness. On page 52 there is an interesting table indicating what has been happening during the last 40 years in regard to infectious sickness. Measles and whooping-cough show a less relative decline than the other forms.

The benefits of the general sanitary measures adopted in the City are nowhere more conspicuously shown than in the case of tuberculosis, the decline in this form of disease being one of the most encouraging features of urban sanitary administration. The voluntary notification of phthisis, the distribution of cards of instruction for consumptive people and those who live with them, has been attended with marked benefit, and the results of the use of one of the wards at the Fazakerley Hospital for cases of phthisis are most encouraging.

The abuse of alcohol in certain districts of the City is a melancholy feature, and is alluded to on page 60 and also on page 23.

A very large amount of routine administrative work is recorded in Part II. of the Report, which deals not only with ordinary district inspection, but with the interchange of references from various corporate departments, the supervision of lodging-houses, canal boats, suppression of smoke, proceedings under the Factory and Workshop Act, Midwives Act, the Hygiene of Schools, the removal of patients to hospital, the work of the Milk Depôts, the supervision of the food supplies, and the work of bacterial and chemical examination authorised by the Acts of Parliament.

The advisability of adopting the Public Health Acts Amendment Act, 1907, engaged the attention of the Health Committee, and the Medical Officer advised the adoption of Parts 3, 4 and 5 of the Act, provided that such adoption in no way lessened or interfered with powers which the Corporation already possess under its Local Acts.

Statistics of cleansing and scavenging are given on page 207, and indicate the magnitude of this important work.

Considerable progress has been made not only with regard to the demolition of insanitary property, but in the reconstruction of house property in certain directions, which has rendered such property fit for habitation. Important additions have been made to the number of Corporation dwellings which are reserved for tenants who have been dispossessed, and whose general behaviour is such as to justify their acceptance as tenants.

The important work of the Hospitals Committee is dealt with on pages 239 to 256, but a more detailed report of this section of administration is published separately.

Certain extremely valuable tables, which will be found in the appendix, have been prepared at the suggestion of the Local Government Board.

Various charts, maps and diagrams have been inserted in the report, which will assist materially in simplifying the information which the report contains.

> E. W. HOPE, Medical Officer of Health.

Public Health Department,

Municipal Offices,

Liverpool, 30th April, 1908.



STATISTICS

RELATING TO

BIRTHS, DEATHS, AND CAUSES OF DEATH, &c.,
ZYMOTIC DISEASES AND THEIR INCIDENCE.

SUMMARY

OF

VITAL STATISTICS FOR 1907.

Area of	City							16,619	Acres.
									(26 square miles)
Population	on			• • •	• • • •		• • •	746,144	
*Density								44.9	Persons per Acre.
*Births								23,654,	Birth-rate 31.7.
*Deaths								13,676,	Death-rate 18.3.
*Infantile	Moi	rtali	ty			***	•	3,383	Deaths under one year, or 143 per 1,000 Births.
Zymotic	Dea	th-1	rate	(7	prin	cipa	1		
Zy	moti	c D	isea	ses)	***		***	1.9	per 1,000.
Phthisis	Dea	th-r	ate					1.4	per 1,000.

^{*} For variations in different districts see plan-map in the Appendix.

BIRTHS.

During the fifty-two weeks of the year, terminating on Saturday, December 28th, 1907, the returns of the local registrars recorded 23,654 births within the City. Of the total births 12,138 were males and 11,516 were females.

The birth-rate in the City of Liverpool is considerably above the average of the great towns, as well as of England and Wales taken as a whole (see diagram, page 8). During 1907 the birth-rate was 31.7 per 1,000 of the population; the average of the previous five years (1902-1906) being 33.3. The rates are calculated upon the corrected population as ascertained by the Census of 1891 and 1901.

The variations in the birth-rate and the distribution of the births in the different wards and districts of the city are indicated upon the accompanying plan-map (see Appendix), and have also been arranged in the following tables:—

4

BIRTHS.

	Quai		2n Quar	200	3r Quai		4ti Quai		190	7.	Corrected Average
Districts.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Births.	Rate per 1000	Rate per 1000 during th 5 years 1902-1906
Scotland	297	268	288	282	269	259	260	230	2098	39-9	41.8
Exchange	132	167	151	141	159	141	151	134	1176	28.5	29.7
Abereromby	201	215	248	228	208	214	217	183	1709	33-8	33.0
Everton	570	567	514	555	568	533	514	486	4307	34.7	35.9
Kirkdale	320	278	280	274	305	294	276	251	2278	32.8	33-8
West Derby—West	413	322	377	370	335	298	320	323	2758	30.5	32.8
Toxteth	429	464	449	400	375	415	391	405	3328	31.6	33.2
Walton	287	264	262	272	264	227	243	195	2014	31.9	32.8
West Derby-East	192	185	198	207	198	194	191	171	1536	31.2	30.9
Wavertree	126	120	141	124	149	103	118	113	994	27:5	33-3
Sefton Park	96	91	78	76	94	80	80	73	668	17.8	19.3
(late Toxteth Rural) Garston	100	86	98	93	80	90	85	63	690	80.5	35.7
Fazakerley	12	9	12	21	13	7	14	15	103	24.7	30.9
City	3175	3031	3086	2988	3017	2855	2860	2642	28654	31.7	33-3

The birth-rate is still very high in the old parts of the city, in some instances higher than in the rapidly-extending areas in the suburbs. The high birth-rate amongst the poorer classes no doubt partially results from very early marriage.

The large numbers of inmates of registered Common Lodging-houses and Model Lodging-houses explains in a measure the apparently low birth-rate in Exchange.

In the district known as Sefton Park, the large proportion of domestic employés partially accounts for the low birth-rate.

The following table shows the population, number of births, and the corrected birth-rate per 1,000 during the last twenty-five years:—

Year.	Population.	No. of Births.	Rate per 1,000.
1883	544,547	19,907	36-6
1884	541,031	20,071	37.1
1885	537,548	19,464	36.2
1886	534,088	19,559	36-6
1887	530,649	18,414	34.7
1888	527,233	17,777	33.7
1889	523,838	17,676	33.7
1890	520,466	17,592	33.8
1891	518,302	17,832	34.4
1892	519,590	17,758	34.2
1893	520,882	18,328	35.2
1894	522,178	17,893	34.3
*1895	652,523	22,006	33.7
1896	658,050	21,943	33.3
1897	663,633	22,280	33.6
1898	669,243	22,227	33.2
1899	674,912	22,488	33.3
1900	680,628	22,762	33.4
1901	686,332	21,980	32.0
** 1902	710,337	24,283	34.2
1903	716,810	23,910	83.3
1904	723,430	24,278	33.5
*** 1905	733,714	24,350	33.2
1906	739,180	24,123	32.6
1907	746,144	23,654	31.7

The foregoing table shows the decrease in the birth-rate during the last 25 years. This decrease has, however, been even more pronounced in other parts of the country, and notwithstanding the decline in Liverpool, the birth-rate in this City is still amongst the highest, being exceeded by only three of the towns having a population of more than 100,000.

^{*} City area extended.

^{**} Garston included.

^{***} Fazakerley included.

The following table shows the *natural* increase or decrease of population, that is, the increase or decrease in the number of births as compared with the number of deaths during the year 1907, in the several districts of the city. In only one district, viz., Exchange, is any decrease shown; the nett result in the city showing an increase of births over deaths of 9,978.

I	Distri	ICTS.			Population.	Births.	Deaths.	Number of Births over Deaths.	Number of Deaths over Births
Scotland		***			52,549	2,098	1,461	637	-
Exchange			***		41,168	1,176	1,275	-	99
Abercromby			***		50,562	1,709	924	785	-
Everton	***				123,952	4,307	2,443	1,864	_
Kirkdale					70,492	2,278	1,310	968	-
West Derby	-Wes	st			90,184	2,758	1,511	1,247	-
Toxteth					105,033	3,328	1,947	1,381	_
Walton					63,017	2,014	889	1,125	-
West Derby-	-Eas	t			49,212	1,536	776	760	_
Wavertree			***		36,018	994	393	601	-
Sefton Park (late 7	 Foxte	th Ru			37,219	663	339	324	-
Garston					22,570	690	367	323	
Fazakerley			***		4,168	103	41	62	-
	Cit	у			746,144	23,654	13,676	9,978	_
Deaths of pe City I the C	Iospit	broug als fr	ht into om out	the side 	_	-	732	_	_
			Total		746,144	23,654	14,408		_

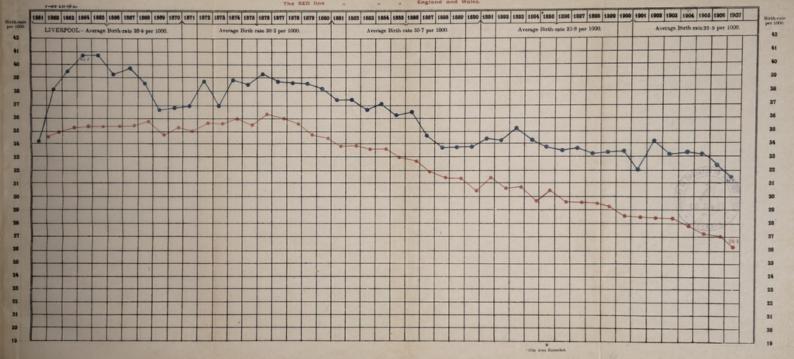
The following tables give the estimated population, number of births recorded, and birth-rate of eighty-two of the large towns of the United Kingdom.

	TOWN	s.				Estimated Popula- tion in the middle of the year 1907.	No. of Births.	Annual Rate to 1,000 of population.
London						4,758,218	121,408	25.6
Croydon						154,342	3,955	25.7
Willesden	***					149,192	4,161	28.0
Hornsey						89,816	1,519	17.0
Tottenham		***			***	122,793	3,703	30.2
West Ham						308,284	8,779	28.6
East Ham	1					136,421	3,580	26.3
Leyton						122,040	3,169	26.0
Walthamstow						126,397	3,589	28.5
Hastings						67,477	1,120	16.6
Brighton						129,023	2,710	21.1
Portsmouth						208,291	5,796	27.9
Bournemouth			***			69,246	1,197	17.3
Southampton	***		***			119,745	2,757	23.1
Reading	***					80,311	1,805	22.5
Northampton	***						1,956	20.6
Ipswich	***	***	***	***		72,825	1,848	25.4
Great Yarmouth	1	***	***	***		52,879	1,388	26.3
Norwich	***					119,191	2,968	25.0
Plymouth						120,063	2,776	23-2
Devonport						79,959	2,175	27.3
Bristol						367,979	8,924	24.3
Hanley							2,168	32.4
Burton-on-Tren			***			FO 10=	1,297	24.3
Wolverhampton						102,016	2,684	26.4
Walsall		***				96,171	2,832	29.5
Handsworth						01.000	1,509	28.0
West Bromwich						69,123	2,130	30-9
Birmingham	-					553,155	15,623	28.3
King's Norton						75,600	1,846	24.5
Smethwick						66,467	1,908	28.8
Aston Manor								25.4
Coventry					***		2,110	
Leicester			***			77,626	2,557	33.0
Cuincha						236,124	5,458	23-2
Nottingham		***			***	70,574	2,104	29-9
Douber		***			***	257,489	6,889	26.8
Charleson	***		***	***	***	125,774	3,152	25.1
Dinkenhand	***	***	***		***	100,986	2,707	26.9
Wellegen	***	***	***	***	***	118,553	3,694	31.2
Wallasey	***	***	***	***	***	66,707	1,760	26.5

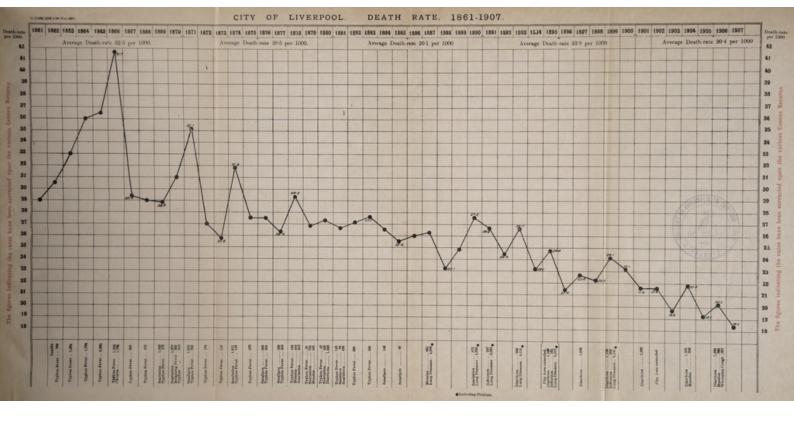
	T	OWNS	i.			Estimated Popula- tion in the middle of the year 1907.	No. of Births.	Annual Rat to 1,000 of population
Bootle						 67,114	2,171	32.4
St. Helens						 92,476	3,155	34.2
Wigan						 88,606	2,730	30.9
Warrington		***				 70,269	2,356	33.6
Bolton						 182,917	4,455	24.4
Bury						 58,901	1,837	22.8
Manchester						 643,148	18,434	28.7
Salford						 236,670	6,892	29.2
Oldham						 141,730	3,743	26.5
Rochdale					***	 87,999	2,071	23.6
Burnley					***	 103,947	2,958	28.5
Blackburn					***	 134,980	3,336	24.8
Preston					***	 117,093	3,129	26.8
Barrow-in-Fu	irness	***				 61,635	1,791	29.1
Huddersfield			***		***	 94,814	2,189	23.2
Halifax			***		***	 110,138	1,913	17.4
Bradford						 290,823	5,777	20.0
Leeds						 470,268	11,677	24.9
Cl. mald						 455,553	14,046	30.9
Rotherham			***			 62,412	2,014	32.1
York						 84,730	2,181	25.8
Hull						 266,762	7,666	28.8
Middlesbroug						 101,783	3,470	34.2
Stockton-on-	Tees		***			 52,909	1,658	31.4
West Hartley	oool					 75,473	2,086	27.7
Sunderland						 156,029	5,330	34.3
South Shield	s					 113,460	3,276	29.0
Gateshead						 125,783	3,851	30.7
Newcastle-on	-Tyne					 272,969	8,089	29.7
Tynemouth						 54,688	1,794	32.9
Newport, Mo	n.					 75,585	2,416	82.1
Cardiff						 187,620	4,865	26.0
Rhondda						 130,400	4,829	37.1
Merthyr Tyd	fil					 76,085	2,727	35.9
0					***	 97,324	3,157	32.5
Edinburgh						 345,747	7,506	21.7
Glasgow			***			 847,584	24,006	28.3
Dundee						 165,748	4,543	27.4
Aboudoon	***				***	 174,579	4,501	25.8
Dublin						 390,691	10,958	28.1
Belfast						 370,163		30.4
LIVERPOOL							11,223	
				***		 746,144	23,654	31.7

BIRTH-RATE, 1861-1907

The BLUE line denotes the Birth Rate of Liverpool.



The Sales line denotes the Birth Rain of



DEATHS.

The statistics dealing with mortality and its causes are set forth in the ensuing pages; the total death-rate of the city during the year was 18.3 per 1,000, the lowest recorded in Liverpool; the average rate of the ten years following the extension of the city boundaries (1896-1905) was 21.8, that of 1906 was 20.2. The deaths in public institutions of 732 non-residents, equal to 0.9 per 1,000, have been eliminated from the total deaths.

On comparing the death-rate of one locality with that of another, it is necessary, before any correct conclusions can be drawn from the comparison, to ascertain whether the populations of the two localities are comparable in point of age; if they are not, certain corrections must be made. Quite apart from conditions of sanitation, mortality varies widely at different age-periods, as the next table shows; consequently the death-rate of the community is largely influenced by the proportions living at each age-period; the effect of a high birth-rate in raising the crude death-rate is well seen by the table, which also indicates plainly enough how the crude returns are modified if there happens to be an unusual proportion of the population at any one age-period. A hospital for foundlings, or a home for aged people, will have a very different influence upon the mortality returns of the district than a school containing an equal number of boys from 10 to 15 years of age.

If, for example, we could conceive that the whole population of Liverpool consisted of persons between the ages of 20 and 30, the death-rate last year would have been 4.4 per 1,000; if, on the other hand, we could conceive that it consisted entirely of people above 60 years, the death-rate would be 76.3 per 1,000. It is plain that any variation in the proportions living at the respective age-periods would affect the death-rate, and this with absolutely no change whatever in the condition of municipal sanitation. These proportions, however, vary very slowly and very slightly year by year in each district, so that yearly comparisons of the mortality-rate of the same district may be fairly made, but one district must not be put into comparison with another unless the conditions of each are known, and the necessary corrections made.

THE FOLLOWING TABLE SHOWS THE ANNUAL RATE OF MORTALITY PER 1,000 AT EACH OF TWELVE AGE-PERIODS DURING LAST YEAR IN LIVERPOOL, AS WELL AS THE TOTAL NUMBER OF DEATHS. THE DIFFERENCES WHICH THE FIGURES SHOW ARE VERY STRIKING:-

Total at all Ages.	18.3	13676	2173 746144
80 and shards.	172.5	375	2173
70 to 8	107-1	1174	10960
60 to 70	58.5	1762	30234
50 to 60	29-7	1534	51505
40 to 50	15.4	1208	
30 to 40	∞ ∞	954	107882
20 to 30	4.4	638	144775
10 to 20	5.6	397	80427 148736 144775 107882 78187
5 to 10	4.1	333	80427
01 2 10	15.2	800	52462
-1 0 01	62.0	1118	18014
* Under 1	143.0	3383	20789
1907.	Rate of Mortality per 1,000 living at ages 143.0 indicated.	Total Number of Deaths at each Age Period.	†Estimated Population 20789 18014

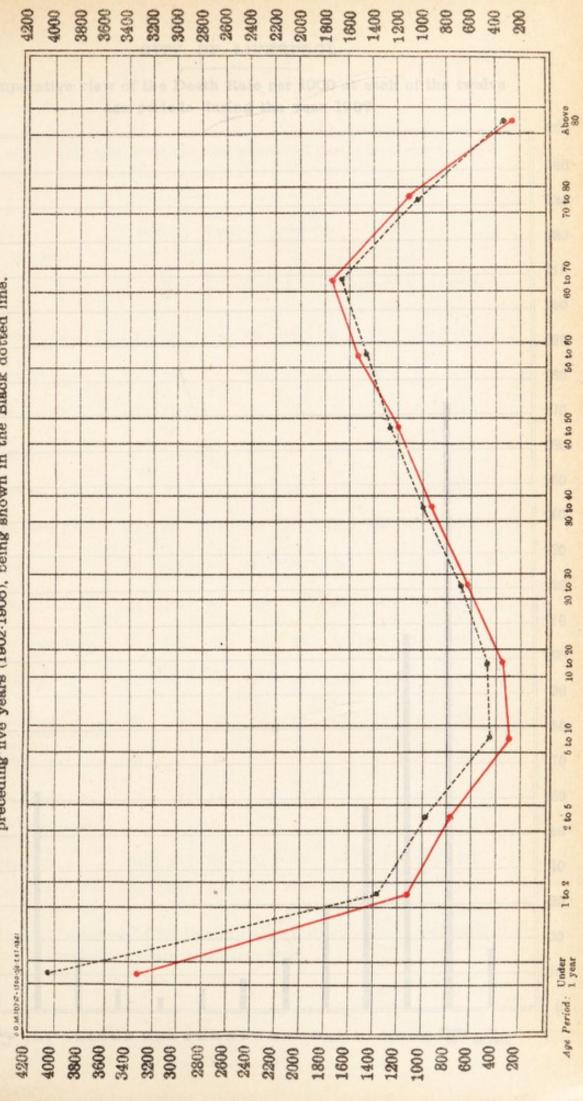
(See Comparative Chart on next page).

^{*} Column I. indicates the rate of mortality under one year per 1,000 births during the year.

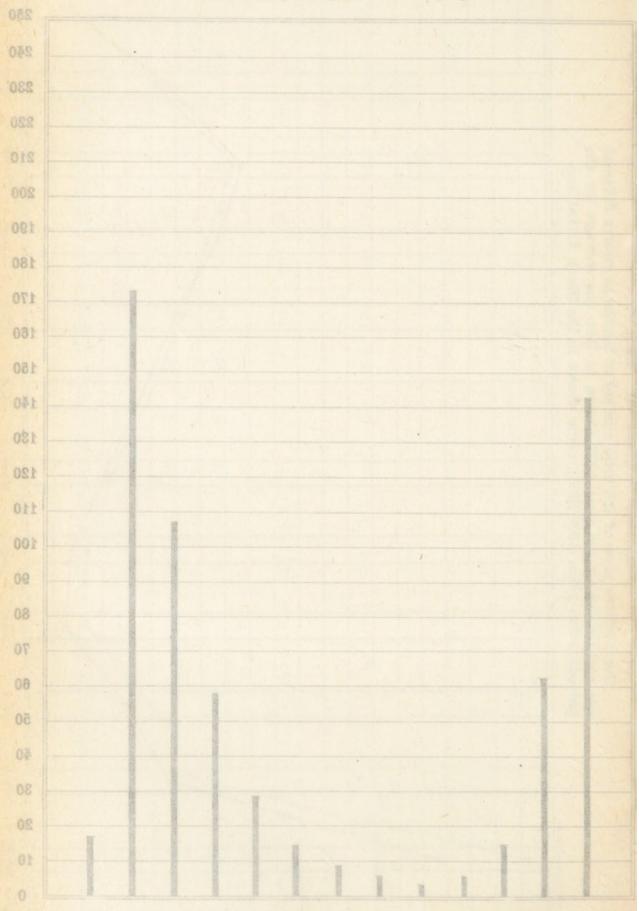
⁺ This estimate being so far removed from the Census must be regarded as approximate.

CITY OF LIVERPOOL.

age periods during the year 1907 shown in Red, the average for the Comparative view of the total number of Deaths at twelve different preceding five years (1902-1908), being shown in the Black dotted line.



Comparative view of the Death Rate per 1000 at each of the twelve age periods during the year 1907.



Under 1 to 2 Sto 5 Sto 10 10 to 20 20 to 20 30 to 50 50 to 60 50 to 60 10 to 70 70 to 80 Above At

The following table gives the total number of deaths occurring in each of the four quarters of the year, allocated to each district:—

*		st rter.		nd rter.		rd rter.		th rter.	Year.
DISTRICTS.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Total Deaths
Scotland	174	. 167	183	133	188	161	215	240	1461
Exchange	198	148	176	130	162	128	181	157	1275
Abercromby	148	130	111	104	101	94	113	123	924
Everton	348	314	295	295	309	240	327	315	2443
Kirkdale	214	174	174	151	147	126	169	155	1310
West Derby (West)	217	205	172	192	157	143	198	227	1511
Toxteth	260	253	206	217	202	216	307	286	1947
Walton	114	145	107	102	94	92	123	112	889
West Derby (East)	111	102	98	95	86	75	106	103	776
Wavertree	74	51	55	41	36	32	52	52	398
Sefton Park (late Toxteth Rural)	49	58	39	49	33	30	38	43	339
Garston	54	49	42	47	41	44	53	37	367
Fazakerley	6	4	9	4	5	2	5	6	41
Deaths of Non-Residents of the City in Workhouses and Hospitals	122	88	107	81	105	64	102	68	732
Total Deaths in City	2084	1888	1774	1641	1666	1447	1989	1919	14,408

Deaths of residents of the City in Public Institutions have been transferred to the districts from whence they came.

DEATHS IN PUBLIC INSTITUTIONS

Deaths in Public Institutions are referred to the Districts from whence the patients came, but the following table shows that the deaths of 4,984 persons occurred in the undermentioned Institutions for the treatment of the sick:—

Parish Workhouse		 	Total Deaths. 990	Non-Residents of City. 68
Royal Infirmary		 	304	85
Children's Infirmary		 	118	23
Lying-in Hospital		 	18	_
Consumption Hospital	111	 	9	3
Hahnemann Hospital		 ***	12	_
David Lewis Northern H	ospital	 	285	52
Stanley Hospital	***	 	146	30
Royal Southern Hospital		 	192	35
Mill Road Infirmary		 	798	62
Hospital for Women		 	35	20
City Hospital North		 	102	12
Do. South		 	33	4
Do. Parkhill		 	81	4
Do. East, Mill	Lane	 	58	2
Do. Fazakerley		 	81	3
Walton Workhouse		 	714	178
Belmont Road Workhouse	e	 	114	58
Highfield Infirmary		 	371	30
St. Joseph's Home		 	42	16
Toxteth Workhouse		 ***	405	6
Home for Incurables		 	6	4
House of Providence		 	5	3
Tuebrook Villa Asylum		 	11	3
Turner Memorial Home		 	6	2
St. Augustine's Home		 	19	2
Kirkdale Home		 	23	4
Grove Mount Home		 	10	_
Walton Gaol		 	9	5
Garston Accident Hospital	l	 	2	_
Other Institutions		 	35	- 18
			4984	732

From the returns made as to the residences of these persons 4,252 of the deaths in these establishments are classified in the districts from whence the patients were removed, viz.:—568 under Scotland district, 649 under Exchange district, 398 under Abercromby district, 745 under Everton, 323 under Kirkdale, 430 under West Derby (West), 588 under Toxteth, 175 under Walton, 151 under West Derby (East), 83 under Wavertree, 58 under Sefton Park (late Toxteth Rural), 78 under Garston and 6 under Fazakerley; 584 were non-residents, who had sought relief in Liverpool Institutions, and of the remainder, 148 were waifs, strangers to the City, whose previous residences were unknown.

In Liverpool the proportion of deaths which takes place in Public Institutions is larger than is the case in other towns, and the fact is an interesting one, as something may be learned of the social conditions of a locality when so large a proportion in times of sickness seek refuge in public institutions, more especially in the workhouses. Generally it implies poverty and want; but on the other hand, it may also, and no doubt does, imply that the institutions have a wide reputation, and attract sufferers to them not only from within the city, but from a distance. Probably both of these conditions exercise influence; but be that as it may, the fact remains that there is no provincial city in which so large a proportion of the deaths takes place in workhouses and hospitals.

The following table shows the percentage of deaths which have occurred in public institutions during the five years, 1903-1907, in the great towns of Birmingham, Leeds, Manchester and Liverpool:—

	1903.	1904.	1905.	1906.	1907.	Average.
Birmingham	23.9	22.4	22-2	21.8	24.6	23.0
Leeds	14.8	14.6	15.0	15.0	17.4	15.4
Manchester	24.5	24.1	23.2	24.6	26.0	24:5
Liverpool	30.8	27.8	33.0	31.6	34.5	31.5

The results of the allocation of deaths in public institutions to the districts from whence the patients had been removed, and the addition of these to the number of deaths of residents in those various districts,

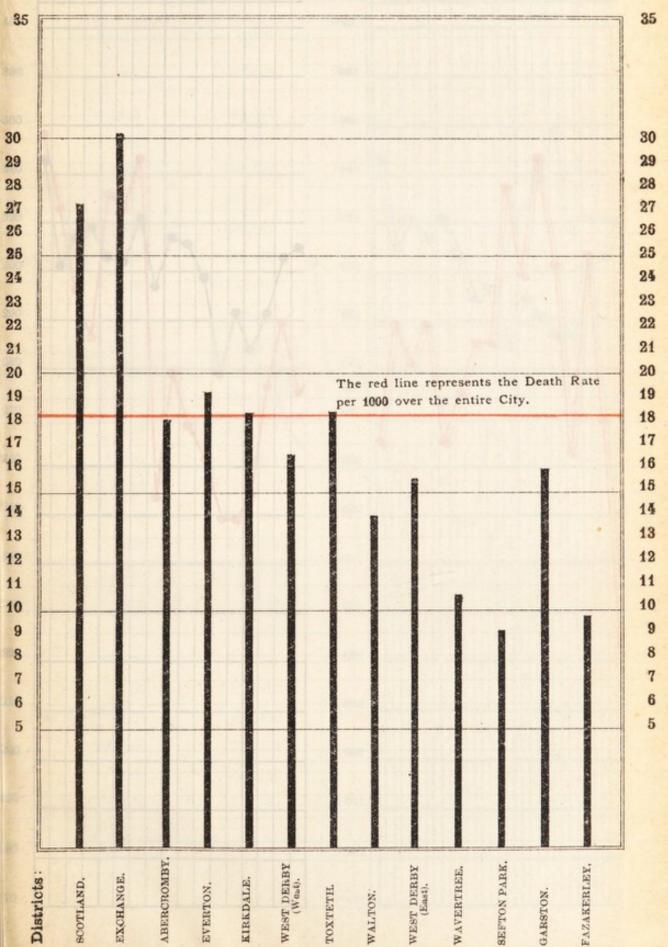
are shown in the following table, from which a calculated rate of mortality per 1,000 per annum of the inhabitants has been made. The rates are calculated upon the corrected population as ascertained by the Census of 1891 and 1901.

				19	907.	Corrected Average
Dist	RICTS.		Population.	Deaths.	Rato per 1000	Rate per 1000 during the five years 1902-1906.
Scotland		 	52,549	1,461	27.8	31.5
Exchange		 	41,168	1,275	30.9	32.3
Abercromby .		 	50,562	924	18.2	20.9
Everton		 	123,952	2,443	19.7	21.9
Kirkdale		 	70,492	1,310	18.5	20.2
West Derby (Wes	t)	 	90,184	1,511	16.7	18.6
Toxteth		 	105,033	1,947	18.5	21.1
Walton		 	63,017	889	14.1	15.0
West Derby (East	t)	 	49,212	776	15.7	16.4
Wavertree .		 	36,018	393	10:9	14.4
	p		37,219	339	9-1	10.7
(late Toxte Garston	th Rura		22,570	367	16.2	16.5
Fazakerley .		 	4,168	41	9.8	11.7
City .		 	746,144	13,676	18:3	20.5

The District Registrars' Returns show that there were 27 deaths (20 of women and 7 of men) at the age of 90 and upwards, viz., 1 male and 9 females at 90, 1 male and 3 females at 91, 2 males and 3 females at 92, 1 male at 93, 1 male and 1 female at 94, 1 male at 95, 1 female at 96, 1 female at 97, 1 female at 99, and 1 female at 111.

The death-rate per 1,000 for 1907 in each of the districts of the city is indicated upon the map at the end of the volume. Scotland and Exchange districts, it must be remembered, contain a great number of common lodging-houses, some of which are resorted to by non-residents of the districts, persons of very migratory habits, and often indigent and broken down. This class tends to swell the mortality of these two districts. Last year the rate in Scotland district was increased by about one per 1,000 from this cause, and in Exchange district by about four per 1,000.

Comparative view of the Death Rate per 1000 in the different districts of the City during the year 1907.

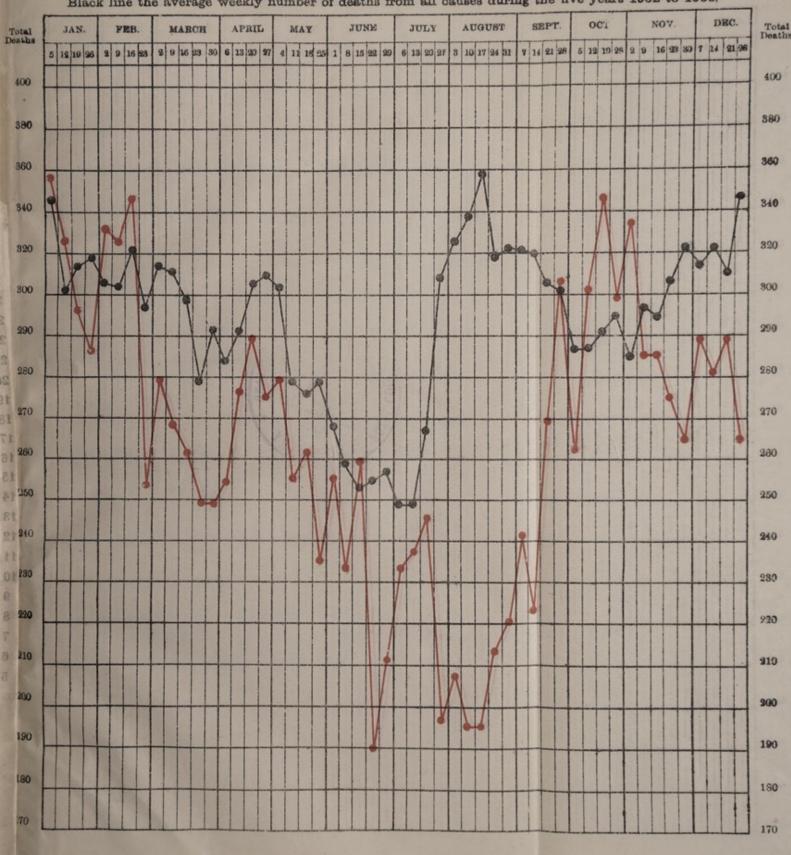


Comparative view of the Death Rate per 1000 in the different districts of the City during the year 1907.

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CITY OF LIVERPOOL. COMPARATIVE MORTALITY CHART.

The Red line denotes the weekly number of Deaths from all causes during the year 1907: the Black line the average weekly number of deaths from all causes during the five years 1902 to 1906.



COMPARATIVE MORTALLEY COMPARTIVE MORTALLEY

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The following table shows the population, number of deaths, and the corrected death-rate per 1,000 during the last twenty-five years:—

Year.	Population.	No. of Deaths.	Rate per 1,000.
1883	544,547	15,074	27.7
1884	541,031	14,382	26.6
1885	537,548	13,764	25.6
1886	534,088	13,919	26.1
1887	530,649	14,006	26.4
1888	527,233	12,159	23.1
1889	523,838	13,047	24.9
1890	520,466	14,293	27.5
1891	518,302	13,911	26.8
1892	519,590	12,671	24.4
1893	520,882	13,919	26.7
1894	522,178	12,073	23.1
*1895	652,523	16,215	24.8
1896	658,050	14,060	21.4
1897	663,633	15,117	22.8
1898	669,243	14,853	22.2
1899	674,912	16,276	24.1
1900	680,628	15,785	23.1
1901	686,332	14,879	21.6
**1902	710,337	15,396	21.6
1903	716,810	14,240	19.8
1904	723,430	15,851	21.9
***1905	733,714	14,103	19-2
1906	739,180	15,001	20.2
1907	746,144	13,676	18.3

The following tables give the estimated population, the number of deaths recorded, the total death-rate, and the infant mortality rate to 1,000 births of eighty-two of the large towns of the United Kingdom:—

т	OWNS				Estimated Population in the middle of the year 1907.	No. of Deaths.	Annual Rate to 1000 of Popula- tion.	Deaths under 1 year to 1,000 Births.
London		***			4,758,218	69,268	14.6	116
Croydon			٠		154,342	1,909	12.4	94
Willesden					149,192	1,715	11.5	110
Hornsey					89,816	771	8.6	77
Tottenham					122,793	1,644	13.4	.103
West Ham	***				308,284	4,498	14.6	131
East Ham					136,421	1,521	11.2	108
Leyton					122,040	1,365	11.2	92
Walthamstow					126,397	1,511	12.0	113
Hastings					67,477	858	12.8	79
Brighton					129,023	1,895	14.7	113
Portsmouth					208,291	3,332	16.0	128
Bournemouth					69,246	829	12.0	83
Southampton					119,745	1,556	13.0	108
Reading					80,311	994	12.4	90
Northampton					95,070	1,169	12.3	122
Ipswich					72,825	1,086	15.0	106
Great Yarmout					52,879	786	14.9	128
Norwich					119,191	1,785	14.6	125
Plymouth		***			120,063	1,760	14.7	110
Devonport		***			79,959	-1,050	13.2	107
Bristol					367,979	4,833	13.2	100
Hanley					67,174	1,248	18.6	160
Burton-on-Tren	nt				53,425	665	12.5	97
Wolverhampto	n			***	102,016	1,541	15.1	130
Walsall		***			96,171	1,484	15.5	154
Handsworth					65,929	688	10.5	101
West Bromwic	h	111			69,123	1,148	16.7	145
Birmingham		111			558,155	8,925	16.2	147
King's Norton			***		75,600	772	10.2	103
Smethwick			***		66,467	859	13.0	117
Aston Manor					83,266	1,075	12.9	125
Coventry			***		77,626	1,146	14.8	104
Leicester			***		236,124	2,983	12.7	131
Grimsby					70,574	1,138	16.2	153
Nottingham					057 100	4,497	17:5	165
Derby					105 554	1,798	14.3	121
Stockport					100 000	1,786	17.7	159
Birkenhead					110 550	1,817	15.4	110
Wallasey					00 000	889	13.4	99

то	WNS.				Estimated Population in the middle of the year 1907.	No. of Deaths.	Annual Rate to 1000 of Popula- tion.	Deaths under 1 year to 1000 Birth
Bootle		***			67,114	1,123	16.8	123
St. Helens			***		92,476	1,704	18.5	155
Wigan			***		88,606	1,649	18.7	163
Warrington					70,269	1,127	16.1	121
Bolton					182,917	3,063	16.8	146
Bury					58,901	938	16.0	136
Manchester			111		643,148	11,593	18.1	146
Salford					236,670	4,176	17.7	140
Oldham					141,730	2,735	19.4	144
Rochdale					87,999	1,505	17:1	122
Burnley					103,947	1,823	17.6	158
Blackburn					134,980	2,277	16.9	153
Preston					117,093	2,226	19.1	158
Barrow-in-Furn					61,635	840	13.7	115
Huddersfield					94,814	1,602	16.9	97
Halifax					110,138	1,574	14.3	103
Bradford					290,323	4,271	14.8	124
Leeds			***		470,268	7,173	15.3	130
Sheffield					455,553	7,750	17.1	145
Dothorhom					62,412	1,002	16.1	148
York					84,730	1,275	15.1	125
Hull					266,762	4,289	16.1	127
Middlesbrough					101,783	2,057	20.3	158
Stockton-on-Te					52,909	953	18-1	114
West Hartlepoo					75,473	1,019	13.5	127
					156,029	2,983	19-2	130
0 01:11					113,460	1,891	16.7	133
0.1.1.3					125,783	1,936	15.4	136
Newcastle-on-T					272,969	4,335	15.9	123
m					54,688	947	17.4	122
Newport, Mon.			***		75,585	1,163	15.4	122
C3:6					187,620	2,804	15.0	131
DL 33.					130,400	2,117	16.3	162
Merthyr Tydfil					76,085	1,483	19.5	154
Canada					97,324	1,737	17.9	132
Edinband					345,747	5,587	16.2	127
Classes					847,584	15,659	18.5	130
Dundes					165,748	3,171	19-1	150
A 13					174,579	2,505	14.4	124
Duklin					390,691	9,041	23.2	156
Rolfant		***	***		370,163		21.3	136
LIVEDDOOL			***	***		7,870		
	***	***	***		746,144	13,676	18.3	143

The above table is, with the exception of Liverpool, taken without correction from the Returns of the Registrar-General of England and the Registrar-General of Scotland.

INFANTILE MORTALITY.

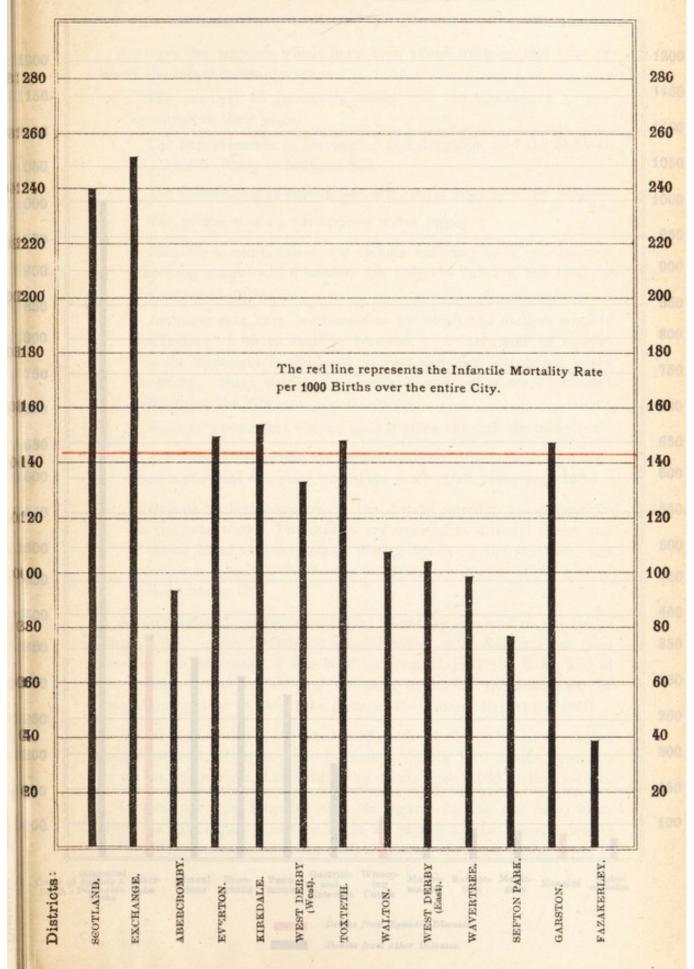
The rate of infant mortality during the year 1907 was the lowest ever recorded in Liverpool.

For a great number of years past the subject of the waste of infant life has received close attention from sanitarians, and time after time the conditions with which that waste of life is associated have been considered, and efforts made to grapple with the evil. Of recent years, however, and notably in connection with a declining birth-rate, interest in the subject has spread far beyond the medical profession, and has arrested general public attention.

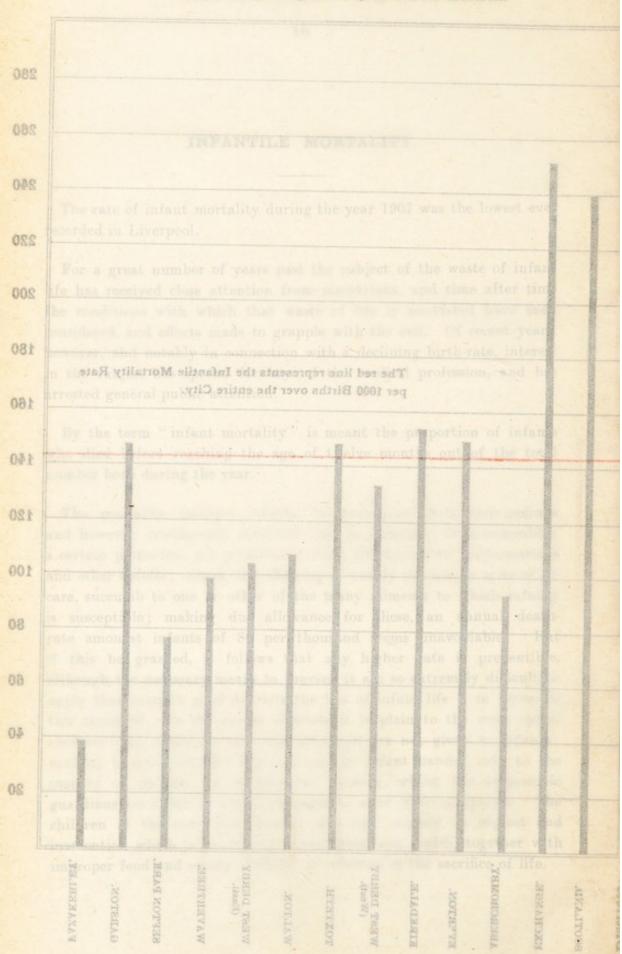
By the term "infant mortality" is meant the proportion of infants who died before reaching the age of twelve months out of the total number born during the year.

The mortality amongst infants, however good their surroundings and however intelligently maternal care is exercised, is considerable; a certain proportion are premature; some are born with malformations and other defects; others, the offspring of weakly parents, in spite of all care, succumb to one or other of the many ailments to which infancy is susceptible; making due allowance for these, an annual deathrate amongst infants of 80 per thousand seems unavoidable. if this be granted, it follows that any higher rate is preventible, although the necessary means to prevent it are so extremely difficult to apply that even in good districts the loss of infant life is in excess of this standard. In the poorer districts it is plain to the most casual observer that necessary care and attention are not given to infants; nothing is more common than to see the infant handed over to the custody of children or irresponsible persons, whilst the responsible guardians are either at work or engaged in some other occupation. The children of the very poor are in this way exposed to neglect and inattention which is practically unavoidable, and which, together with improper food and scanty clothing, is reflected in the sacrifice of life.

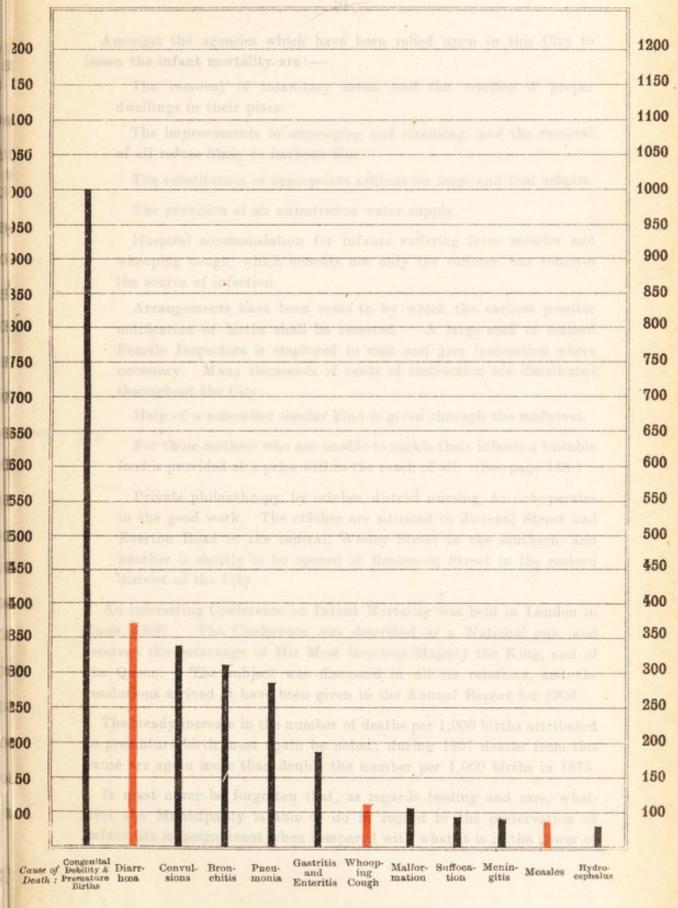
Comparative view of the Infantile Mortality per 1000 Births in the different districts of the City during the year 1907.



omparative view of the Infantile Mortality per 1000 Births in the different districts of the City during the year 1907.



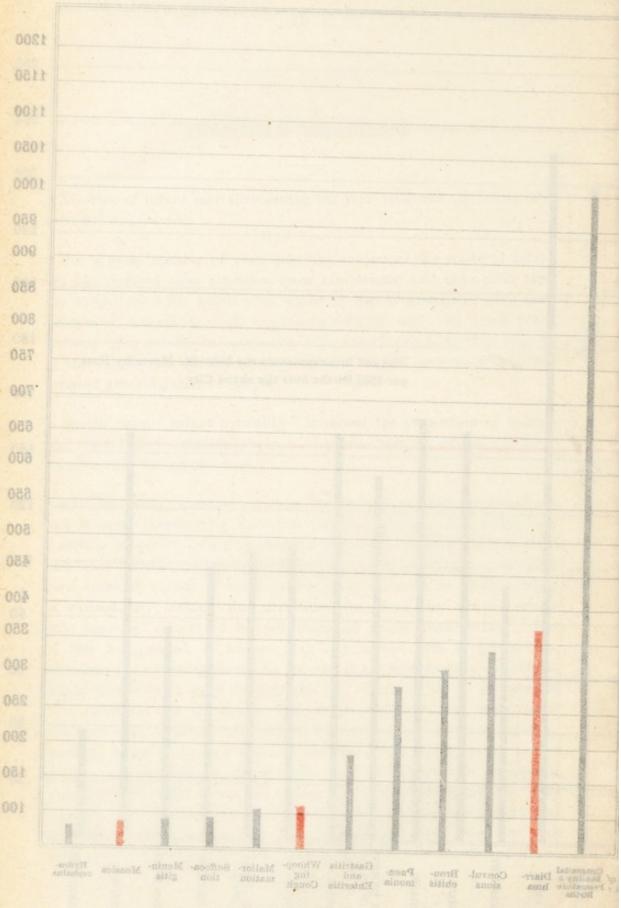
Comparative view of twelve of the principal causes of Infantile Mortality (below 1 year of age) during the year 1907.



Deaths from Zymotic Diseases.

Deaths from other Diseases.

Comparative view of twelve of the principal causes of Infantile Mortality (below 1 year of age) during the year 1907.



Deaths from Zymotic Diseases.

Deaths from other Diseases.

Amongst the agencies which have been relied upon in this City to lessen the infant mortality are:—

The removal of insanitary areas, and the erection of proper dwellings in their place.

The improvements in scavenging and cleansing, and the removal of all refuse likely to harbour flies.

The substitution of appropriate ashbins for large and foul ashpits.

The provision of an unrestricted water supply.

Hospital accommodation for infants suffering from measles and whooping cough, which benefits not only the sufferer, but removes the source of infection.

Arrangements have been come to by which the earliest possible notification of births shall be received. A large staff of trained Female Inspectors is employed to visit and give instruction where necessary. Many thousands of cards of instruction are distributed throughout the City.

Help of a somewhat similar kind is given through the midwives.

For those mothers who are unable to suckle their infants a suitable food is provided at a price within the reach of all. (See page 168.)

Private philanthropy, by crêches, district nursing, &c., co-operates in the good work. The crêches are situated in Juvenal Street and Everton Road in the central, Wesley Street in the southern, and another is shortly to be opened in Beaumont Street in the eastern district of the City.

An interesting Conference on Infant Mortality was held in London in June, 1906. The Conference was described as a National one, and received the patronage of His Most Gracious Majesty the King, and of the Queen. The subject was discussed in all its relations, and the resolutions arrived at have been given in the Annual Report for 1906.

The steady increase in the number of deaths per 1,000 births attributed to premature birth must again be noted; during 1907 deaths from this cause are again more than double the number per 1,000 births in 1873.

It must never be forgotten that, as regards feeding and care, whatever the Municipality is able to do in regard to the preservation of infant life is insignificant when compared with what it is in the power of the mother to do. If the mother will suckle the infant, its risks are slight. If she will not do so, the Corporation proves but a poor fostermother, owing to the absolute impossibility of fulfilling the duties which only the mother herself can discharge.

It must be remembered that milk, as nature intended it to be given, is never once exposed to the air, that it passes directly at the time of the manufacture in the gland to the stomach; its composition, temperature and mixture adapt it to the needs of the offspring; it has neither abstractions, adulterations, preservatives nor uncleanliness; it is, moreover, bacteriologically clean and pure. Nothing the Municipality can do can equal this.

The highest infant mortality is always reached in the summer and early autumn, the cause of death being ascribed to diarrhea. The subject has been carefully investigated bacteriologically, but no organism so far has been identified solely as the cause. The contents of some of the foul feeding bottles have been subjected to analysis, with results showing that this liquid was of an extremely dangerous character, and certain samples have proved so highly virulent as to kill the animal inoculated with it within 48 hours.

Co-operation was again sought by the National Health Society and by the National League for Physical Education and Improvement towards improving the milk supply of the country. The Health Committee very willingly rendered all assistance in their power, and authorised the Chairman of the Infant Life Preservation Committee and the Medical Officer of Health to attend certain meetings in London upon the subject.

The value of the special Liverpool milk clauses was recognised, and it was felt that an extension to the whole country of such clauses as Liverpool possessed would be exceedingly valuable.

It is well known that infant mortality varies widely, not only in different towns, but in the various wards or districts of the same towns. Poverty or riches, sanitary or insanitary conditions, occupation or the want of it, high birth rate or low, all play their part in bringing these variations about. But every extended inquiry into the intricate subject of infant mortality brings to light the fact that parents living approximately under the same social and sanitary conditions have such varying success in rearing their infants that the personal factor deserves a careful study.

Families who have at command all the resources of wealth show an infant mortality which is relatively small. It is amongst the less well-off sections of the community that the investigation is most important. We want to get at the facts, and the time and care involved in an inquiry into this aspect of the question finds its reward by enabling preventive measures to be more closely applied.

One of the most important factors undoubtedly is the amount of intelligence which the mother possesses, an intelligence which, if it is not innate, is difficult to acquire, and for which even education is but a poor substitute.

Every town, no doubt, is a suitable field for inquiry in this direction, but in a place like Liverpool, where the greater necessities have led to greater municipal effort, the inquiry is specially interesting.

There is in Liverpool a very large population indeed, dependent upon unskilled labour of a very precarious character. Much poverty results from this, and an accentuation of the problem of dealing with that poverty.

The Corporation have expended very large sums of money in ameliorating the conditions of the congested districts and poorer parts of the city. Whole areas have been demolished, and new bright, airy dwellings erected in their stead; dwellings which none but those dispossessed by the demolition of insanitary dwellings are permitted to tenant. Every facility is devised for their comfort, baths and washhouses are available, and a large staff of trained and skilled women are provided to give them such kindly aid as is possible to all dwellers in the poorer districts. Even food is provided for those infants whose mothers cannot suckle them, and, on occasion, for the mothers themselves when inability to suckle arises from poverty and malnutrition.

These measures are not without their reward, and the diminution in the infant mortality in districts as a whole is encouraging. Still we want to come to closer grip with the question. When we find, for example, that in 874 families, taken consecutively on account of the fact that in each the death of an infant had occurred, the total number of infants born in those families had been 3,801, and that no less than 1,895 of them had perished, practically all in infancy—representing an infant mortality of 498 per thousand—it is obvious that we must go further

into the question of the personal element. The extended inquiry shows, side by side with this, parents under similar conditions, with the same income, following the same occupations, the same hard struggle against poverty, and yet all or nearly all of their children reared. The question arises, to what is this remarkable difference due? A very few illustrative cases are given, and they may be taken as samples of a large number which have been specially investigated and reported upon.

As an illustrative case of an instinctively intelligent woman, I would quote that of Mrs. E., of No. 6, T. Street, who has given birth to seven living children, all of them being quite healthy now, the youngest two being twins of four months old. The father is a dock labourer, and his wages are stated not to exceed on the average 12s. per week. The house is very clean and comfortable, and the children are well cared for, those of the school age attending school regularly. The mother, when she is able, adds to the income by taking in washing, and, as a matter of fact, was working practically up to the day before the birth of the twins.

The mother, who is suckling the twins, is receiving milk for herself from the Corporation Milk Depôt, and she is now receiving certain aid from other sources. Neither of the parents drink, and the condition of the home and the children present a striking example of what can be done even with very little money when none of it is wasted in drink or gambling.

Another illustrative case is that of Mrs. McK., S. Road. Nine children have been born, all now living, the youngest eight weeks old; all have been breast fed. Husband some years ago lost his business through ill-health, from which he recovered. Of late years he has worked at the docks, his wife occasionally charing. All children clean. Home comfortable.

Y., 232, A. Street. Eight children, all living and well. Husband's wages £5 per month at sea. The woman was under sixteen when she married, and vows that none of her daughters shall marry at sixteen.

W., 47, E. Street. Eleven children, ten living. Home clean and comfortable. Average earnings of the father, 12s. per week. Youngest child six weeks old.

The number of parallel cases is exceedingly large, and very commonly the older children assist in adding to the family income. Place in contrast with these cases, that of Mrs. B., of H. Street. Mrs. B.'s first infant died at the age of four months. The second-born is now living, and is eleven years of age. The third, fourth, and fifth died under eight months of age; the sixth is living; the seventh, eighth, and ninth died at a few months of age. The tenth, aged three months, is living, but is reported to be wasting, and is much neglected. The husband can earn up to 40s. per week, but both parents are intemperate. The midwife who attended at the last confinement states that the mother was lying intoxicated on the floor when she arrived, the baby having already made its appearance. Filth and wretchedness are the characteristics of the home, and the case is now being dealt with by the Society for the Prevention of Cruelty to Children.

Unfortunately long series of cases of this description are recorded, in which obvious drunkenness in an extreme degree is the pre-eminent feature associated with the loss of the infant, the money wasted, the parents drink-sodden, and every feature of intelligent attention to the infant wanting. With these there comes the long string of examples in which the alternations between the gaol and the workhouse are factors, which make it abundantly plain that the children of the family have had no proper maternal solicitude bestowed upon them, and have perished in consequence.

Mrs. G., who was married at the age of sixteen, is an illustration. Out of her ten children, three survived.

Mrs. W. was married at the age of twenty, and has had eighteen children, four of them surviving. In this case violence figures more than once in connection with the death of the infants.

A. F., 112, R. Street. She has had fourteen children, only two of whom are living. She was married at seventeen years of age, and is now a dirty, neglectful, drunken woman. Midwife stated that the woman was drunk on each of her last three confinements.

In a different category are the cases of which Mrs. J., of 2 in 8 Court, B. Street, may be taken as an example, her seven children having been born alive. One of them died at four years, one at two years, another under twenty-one months, and two under twelve months; one of the earlier born ones has survived, and is now eight years old. This boy has suffered severely from eczema; but the mother has never troubled to take him to a doctor. The youngest child is an infant, whose

health is precarious. In this case absolute stupidity appears to be a large factor—whether the woman drinks or not is not apparent. The wages earned by the husband are stated to be 20s. per week.

Again, Mrs. E. has had fourteen children, ten of whom have died in infancy, all of them being artificially fed. She is an incapable woman, and regards the death of her children as an inevitable matter.

A further series may be quoted in which the mothers, without following any special occupation, neglect their children for long periods, either by going out casually to sell papers, &c., or by gossiping with their neighbours. The following are illustrations:—

Sarah N., 5, B. Street. Nine children, three living, six died in infancy. The mother very indifferent to the welfare of the children.

Agnes W., 5, V. Grove, has had fourteen children, three living.

Elizabeth R., 22, L. Street, has had thirteen children, of whom two are living.

These are examples of women who have been large contributors to the death rate.

Another factor in the prospects of life of the infant appears to be the actual number of infants born in the family, and the rapidity with which they make their appearance.

The resources of the average mother in poor circumstances are severely taxed by even two or three little children; the next one to arrive diverts attention from the rest, and as others come in quick succession, adequate attention is impossible.

During the last two years the returns of the Corporation dwellings for labourers are interesting. These are new dwellings erected for the accommodation of persons dispossessed from the insanitary courts and alleys which have been demolished, and may be said to represent the poorest section of the poorest class in Liverpool.

A very striking feature is their remarkable birth rate, which, calculated in the ordinary way, is not 26, as is the case with the general birth rate of the whole country, nor 40, which is the birth rate of the district in which the dwellings are situated, but reaches the extremely high average of 55 per thousand during the last two years.

That the infants born, where life's battle is so hard, do not receive adequate attention goes without saying, and those who die appear to be rapidly replaced with others, a large proportion of whom meet a similar fate.

The lesson to be learnt is the great value of visiting the homes of these poor people, and giving such supervision and kindly encouragement as is possible to the mothers to persevere on right lines in dealing with the infant. Nor need the assistance be limited only to this. Every town has its agencies and its charitable organisations, by which the deserving poor may receive help of a material kind, and the visit of the Inspector of the Health Department is one of the best ways of bringing relief to those in need of it.

It is desirable to add a few words in reference to the Jewish community, and for the purpose of illustration to take fifty poor-some very poor -Jewish families, taken consecutively. The family earnings averaged from 10s. to 30s. per week. The points which stand out are, first, that in every instance the children are well looked after, all suitably clad, and not one ragged or barefooted child seen. The beds were clean, and always a cot provided for the baby beside the mother's bed. Domestic dirtiness is uncommon, but even where it existed all the mothers seemed to realise their duty and responsibility to their children, and to act upon it. Thriftiness and sobriety were universal; no drunkenness at all. A noticeable feature which always impresses the visitor is the attention given by the mothers to the children's food. In no single instance was the mid-day meal wanting; moreover, it is usually good and wholesome, and prepared in a way which the children relish. It must be remembered that some of these families were in receipt of relief from the Jewish Board of Guardians, but others, of course, are fairly comfortably off for that class.

With regard to the numbers of children born, the average number in the family is not large. The maximum was ten, and that only in one family; the average is five, but the figures as to the numbers who have died compare very favourably indeed with those of the Gentile races in the same social scale. In the fifty families, the total number of infants born was 255, and the number of deaths which have taken place amongst the whole number and at various ages, and by no means all in infancy, was 29—figures which speak very favourably.

The following Table indicates the incidence of Infantile Mortality in the various Districts of the City, and during different seasons, also the proportion of deaths under five years to the total deaths:—

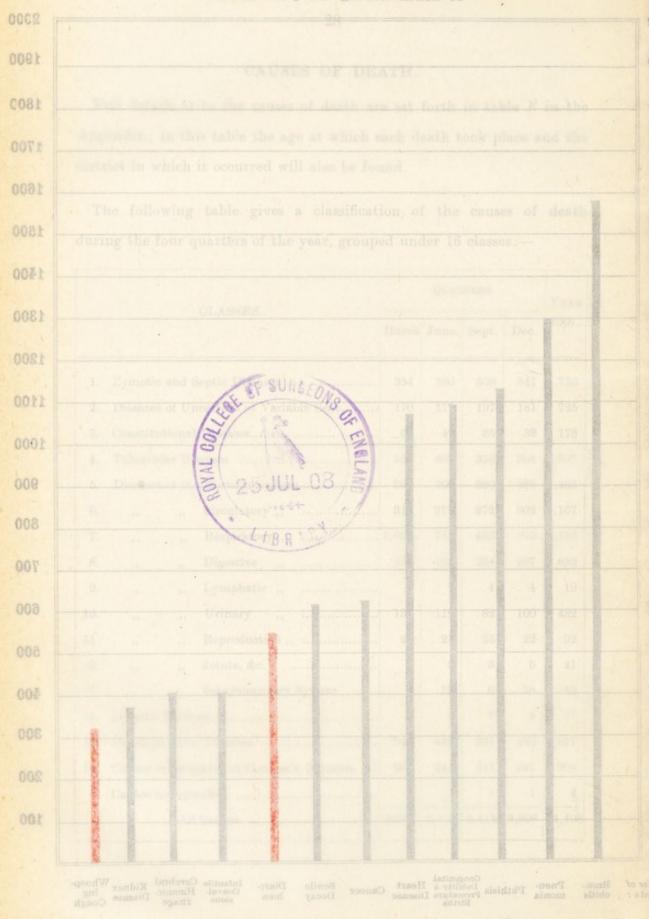
DISTRICTS.		Quar	ters.		Deaths under 5 years of age.	Total Deaths.	Percentage of Deaths under 5 years to Total	Percent age of Deaths under 1 year
	March.	June.	Sept.	Dec.			Deaths.	to Tota Births.
Scotland	130	148	205	252	785	1,461	50.3	24.0
Exchange	100	107	115	145	467	1,275	36-6	25.0
Abercromby	56	57	65	74	252	924	27.2	9.4
Everton	217	240	226	302	985	2,443	40.3	15.0
Kirkdale	143	149	120	159	571	1,310	43.5	15.2
West Derby (West).	130	129	119	190	568	1,511	87.5	13.6
Toxteth	164	139	172	287	762	1,947	39.1	14.6
Walton	84	71	76	106	337	889	37.9	10.8
West Derby (East) .	61	47	52	66	226	776	29.1	10.3
Wavertree	50	38	28	37	153	393	38-9	9.9
Sefton Park (late Toxteth Rural)		16	18	19	71	339	20.9	7.7
Garston		41	48	43	166	367	45.2	14:5
Fazakerley	1	6	- 1	_	8	41	19.5	3.9
Workhouses & Hos- pitals (Residences outside City)		20	28	28	97	732	13-2	_
City	1,209	1,208	1,273	1,708	5,398	14,408	37.4	14.8

Deaths in Public Institutions are transferred to the Districts from whence the patients came.

The proportion which the deaths of children under five years of age has borne to the total deaths in the various districts of the city during the last five years is shown in the following table, and also the proportion of deaths of infants under one year of age to every hundred births registered:—

	19	03.	19	04.	19	05.	19	06.	19	07.
DISTRICTS.	Percentage of Deaths under 5 years to Total Deaths.	Percentage of Deaths under 1 year to Total Births.	Percentage of Deaths under 5 years to Total Deaths.	Percentage of Deaths under 1 year to Total Births.	Percentage of Deaths under 5 years to Total Deaths.	Percentage of Deaths under 1 year to Total Births.	Percentage of Deaths under 5 years to Total Deaths.	Percentage of Deaths under I year to Total Births.	Percentage of Deaths under 5 years to Trial Deaths.	Percentage of Deaths under I year
Scotland	47.5	21.5	57:7	25.8	49.6	22.7	54.5	24.7	50.3	24 (
Exchange	32.8	21-2	43.3	28.1	36.0	24.0	41.2	26.0	36.6	25-(
Abercromby	31.1	13.2	84.5	13.3	31.8	12.4	33.0	12.0	27.2	9.
Everton	44.5	17.6	55.0	21.3	45-7	15.9	50.9	20.3	40.3	15.
Kirkdale	40.0	14.3	51.7	21.4	44.5	17.4	45.5	16.2	43.5	15.
West Derby (West)	41.6	15.4	45.2	18.1	40.7	14.5	43.0	15.4	37.5	13
Toxteth	39-9	16.8	51.2	19.1	37.7	14:8	45.4	17:9	39.1	14
Walton	39.4	11.9	46.3	15.7	40.1	10.5	38.2	12 2	87.9	10.
West Derby (East)	36.0	12.4	38.5	14.6	33.1	11.2	36.9	14.1	29.1	10-
Wavertree	43.9	11.8	46.6	15.1	42.7	11.2	44.7	12.7	38.9	9.
Sefton Park	27.8	8.8	30.8	13.8	22.2	9.5	27.2	9.0	20.9	7.
Garston	43.1	12.0	55.2	18.3	40.1	11.7	44.8	13.2	45.2	14
Fazakerley	32.3	14.1	33-3	13.0	32.0	8.4	42.5	10.0	19.5	3.
Workhouse and Hospitals (Residences outside of City)	10-2		14.8		10.8		18.4		13-2	
City	38.8	15.9	47.3	19.6	39.1	15.4	43.1	17:1	37.4	14

Comparative view of twelve of the principal causes of death during the year 1907.



Deaths from Egwotic Diseases



ZYMOTIC DISEASES.

This class of disease is one calling for special attention, and is dealt with in some detail in the following tables, the first of which shows the localities and the periods of the fatal prevalence of zymotic diseases, and the subsequent tables deal specifically with each form of zymotic disease during 1907:—

			Z	YMOTI	CS.			
DISTRICTS.	Deaths from all causes.		Quarters.					
		March.	June.	Sept.	Dec.	Deaths to Deaths from all causes		
Scotland	1,461	25	53	89	93	17.7		
Exchange	1,275	26	36	45	57	12.8		
Abercromby	924	16	17	26	22	8.7		
Everton	2,443	57	55	93	92	12.1		
Kirkdale	1,310	43	57	48	50	15.0		
West Derby (West)	1,511	35	45	44	60	12.1		
Toxteth	1,947	49	36	57	90	11.9		
Walton	889	17	22	22	34	10.6		
West Derby (East)	776	19	14	22	14	8.8		
Wavertree	393	18	15	10	6	12.4		
Sefton Park	339	6	5	11	5	7.9		
(late Toxteth Rural) Garston	367	10	15	20	7	14.1		
Fazakerley	41		2			4.8		
Workhouses and Hospitals (Residences outside City)	732	13	8	21	11	7.2		
City	14,408	334	380	508	541	12.2		

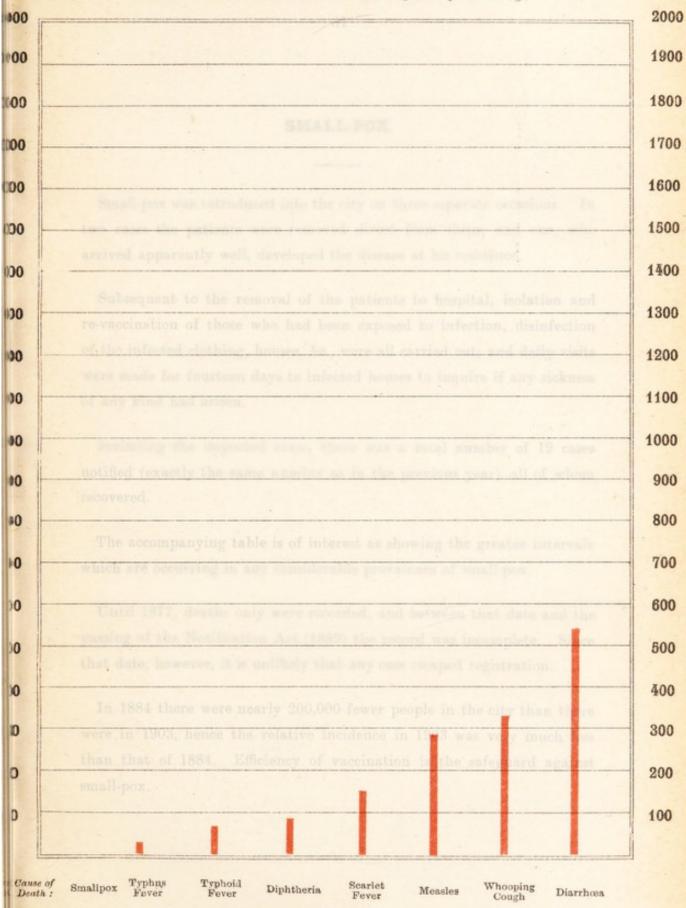
Deaths in Public Institutions are transferred to the Districts from whence the patients came.

Zymotic diseases occasioned 1,763 deaths during the year 1907, and accounted for 12·2 per cent. of the total mortality within the city during this period. The death-rate from zymotic diseases per 1,000 was 2·3. The average rate for the preceding 5 years (1902-1906) was 3·6. The deaths during 1907 were as follows:—

	Quarters.				YEAR	
	March.	June.	Sept.	Dec.	1907.	
Total Zymoties	334	380	508	541	1,763	
Smallpox						
Measles	68	107	70	51	291	
Scarlet Fever	42	43	26	29	140	
Diphtheria	26	25	21	23	95	
Membranous Croup	6	2	3	3	14	
Whooping-eough	39	86	89	110	324	
Diarrhœa	37	44	211	252	544	
Influenza	39	11	4	15	69	
Typhus	4	4	8	2	18	
Fever - Typhoid	26	24	23	19	92	
Simple Continued						
Other Zymotics	52	34	53	37	176	

Note.—Influenza, Measles, and Whooping-cough appear to have been predisposing causes in the case of many deaths primarily ascribed to Respiratory Disease (page 28), inasmuch as one or other of these Zymotics had preceded the fatal illness. See also notes to succeeding tables.

Comparative view of the total number of Deaths from the principal Zymotic Diseases during the year 1907.



Comparative view of the total number of Deaths from the principal Zymotic Diseases during the year 1907.

200										
190	Zymatic decision and 2.752 deaths during the year 1907, and									
180										
170										
160										
160										
140										
130										
120										
110		- (2)	48	26						
100										
06										
80										
70										
08	Typhus									
50										
40										
30										
200										
		000								
100	Respondery District page 22 , non	THE REAL PROPERTY.	Designation.		these:	Zymotic				
	Monaine Whooping to	Scarle	Diphtheria		70	ndqvT Tophn	Smallp			

SMALL-POX.

Small-pox was introduced into the city on three separate occasions. In two cases the patients were removed direct from ships, and one, who arrived apparently well, developed the disease at his residence.

Subsequent to the removal of the patients to hospital, isolation and re-vaccination of those who had been exposed to infection, disinfection of the infected clothing, houses, &c., were all carried out, and daily visits were made for fourteen days to infected houses to inquire if any sickness of any kind had arisen.

Including the imported cases, there was a total number of 19 cases notified (exactly the same number as in the previous year), all of whom recovered.

The accompanying table is of interest as showing the greater intervals which are occurring in any considerable prevalence of small-pox.

Until 1877, deaths only were recorded, and between that date and the passing of the Notification Act (1889) the record was incomplete. Since that date, however, it is unlikely that any case escaped registration.

In 1884 there were nearly 200,000 fewer people in the city than there were in 1903, hence the relative incidence in 1903 was very much less than that of 1884. Efficiency of vaccination is the safeguard against small-pox.

32 SMALL-POX DURING THE LAST FORTY-FIVE YEARS.

Years of Increase.	No. of Cases.	Deaths.	Years of Subsidence.	No. of Cases.	Deaths
1863	Unrecorded	100			
1864		482			
1865	,,	459			
1866	,,	102			
1000	,,	102	1867	Unrecorded	22
			1868	The second second	18
			1869	"	20
1870		174	1003	,,	20
	,,				
1871	"	1,919			
1872	.,	50	1079		10
			1873	,,	10
			1874	**	30
1050		900	1875	"	29
1876	1 000	386			
1877	1,660	299	1000	0.5	9
			1878	35	3
			1879	12	
			1880	14	2
			1881	262	34
			1882	67	6
			1883	126	26
1884	832	106			
			1885	375	46
			1886	234	29
			1887	23	1
			1888	27	1
			1889	9	1
			1890	2	
			1891	21	2
			1892	177	13
			1893	75	9
			1894	229	20
			1895	130	12
			1896	. 8	
			1897	6	
			1898	17	2
			1899	10	2 1 23
			1900	156	23
			1901	37	6
1902	560	20			
1903	1720	141			
			1904	27	2
			1905	15	
			1906	19	1
			1907	19	

TYPHUS FEVER.

Of recent years cases of this disease have been imported by transmigrants en route to America or Canada. It is particularly liable to spread amongst dirty, ill-fed, and intemperate persons, and incessant watchfulness is necessary in order to hold it in check. The disease almost always attacks the children of the family first; in them the symptoms are obscure, and are often unrecognised until adults succumb.

During 1907, the disease was again introduced by Russian emigrants.

Of the total number of cases, eighteen, as the table shows, resulted fatally, the majority of the deaths taking place during adult age, the period when the disease is most fatal.

The total number of cases reported was 116, against 52 in the preceding year, the average number of the last five years being 135.

				A	GES AT	DEAT	н.				
Under 1 year.	1—	2—	5—	10—	15—	20 -	30—	40-	50—	60 & up- wards.	All Ages.
_	_	_	1	1		*5	6	2	3	_	18

* One a non-resident.

Reports for preceding years sufficiently illustrate the importance of the daily visits which are made to houses which have been infected with typhus fever, as well as the importance of keeping under supervision every person who is known to have been in contact with the patient. None of the stringent measures which have been adopted against typhus are in any way relaxed.

The number of deaths during each of the preceding ten years has been as follows:—23, 19, 13, 11, 14, 25, 57, 25, 28 and 8.

List of streets in the city where cases of Typhus Fever occurred during the year 1907.

Streets.	Cases.	Deaths.	Streets.	Cases.	Deaths.
Arkwright	5	1	Hyslop	1	2000
Beatrice	14	1	Latimer	1	
Blenheim	9		Leyden	1	
Buckingham	1		Lorton	1	1
Bond	1		Mann	1	1
Boundary	1		Northampton	4	
Burnet	1	1	Northumberland	2	
Caradoc Square	2	2	Penrhyn	1	
Conway	6	***	Prince Edwin	1	
County Road	1		Robsart	6	
Cranmer	5	***	Slade	4	
Dix	9	3	St. Martin's Cottages	2	
Etna	2	1	Shaw	1	
Frank	1		Soho	1	
Fascoyne	1	1	Sandys	3	
Freat Richmond	4	1	Scotland Road	1	
Flenny	1		Tindall	8	1
Hardy	2		Titchfield	2	
Hill	1		Torbock	3	
Hopwood	4	1	Walton Workhouse	1	
Hurst	1		(From outside City)		

TYPHOID FEVER.

There were 482 cases of Typhoid Fever reported during the year, the numbers remaining low, as was the case in several preceding years. There were 1,026 in 1902, 681 in 1903, 434 in 1904, 325 in 1905, and 491 in 1906. The deaths were 92, being 7 more than in the preceding year. The figures include the deaths of non-residents.

Upwards of 77 per cent. of the total number of cases notified during the year were removed to hospital. (See page 242.)

The accompanying charts are instructive. The first one indicates the steady decline in the mortality from typhoid fever since the year 1894, a decline which may be ascribed to various reasons, such as the greater facility for isolation of the sick, the abundant supply of pure water, and the greater care taken in the supervision of those food supplies which play an important part in the dissemination of this disease.

The second chart indicates the incidence of typhoid fever during each week of the year 1907, the absence of the usual late autumn rise being a very satisfactory feature.

The number of deaths from Typhoid Fever during each of the preceding ten years, 1897-1906, has been as follows:—

1897	 	 	 	145	deaths
1898	 	 	 	148	22
1899	 	 	 	182	,,
1900	 	 	 	120	,,
1901	 	 	 	154	
1902	 	 	 	190	,,
1903	 	 	 	108	,,
1904	 	 	 	82	"
1905	 	 	 	49	"
1906	 	 	 	85	,,

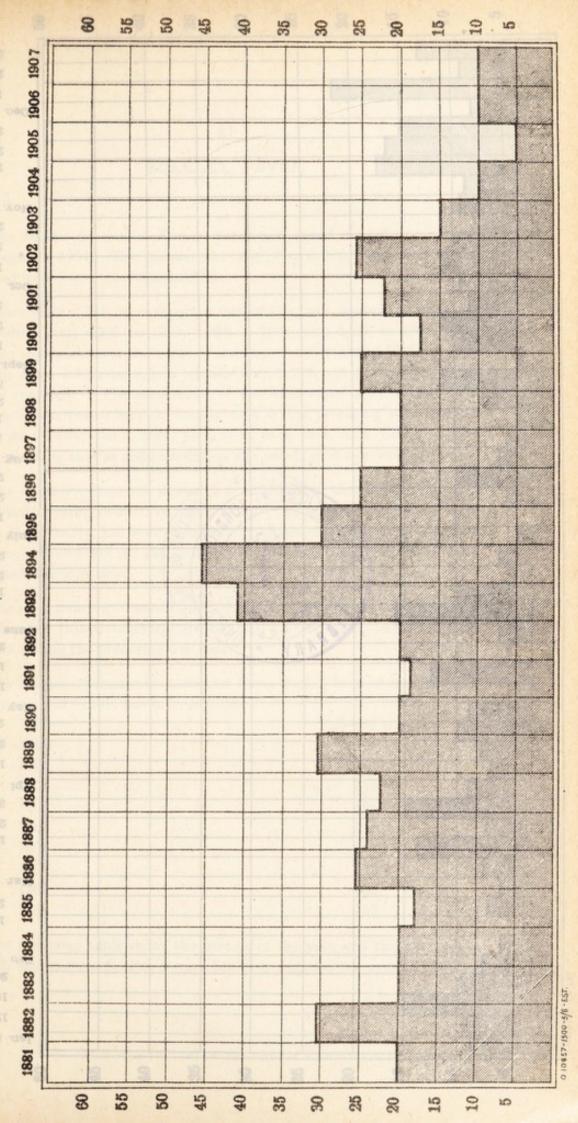
The following table shows the periods of the year and the localities in which deaths from Typhoid Fever occurred, and also the ages at death.

DEATHS FROM TYPHOID FEVER.

								QUA	RTER	s.				YEA	
	DIS	TRIC	TS.		Ma	rch.	Ju	ne.	Se	ept.	De	ec.		1 EA	R.
					М.	F.	М.	F.	M.	F.	М.	F.	М.	F.	Total
Scotl	and				3		1	1	2		1	1	7	2	9.
Exch	ange				1				1			1	2	1	3
Abero	romby	· · · · ·				1	2	***	1				3	1	4
Evert	on				1	1	2	1	4	2	2	1	9	5	14
Kirkd	lale				2	1	1	2		1		1	3	4 5	8
West	Derby	y (Wes	st)		3	1	1	2			2	2	6	- 5	11
Toxte	th						1	1	1		2	2	4	3	7
Walte	on				2	1	1	1	1	1			4	3	7
West	Derby	(East	t)		1	2		2	1		1		3	4	7
Wave	rtree					1		1	1	2			1	4	5
Sefton	n Parl							1	1				1	1	2
		teth R			1	1					1		2	1	3
Fazak	cerley									***					
		Reside y)		utside	2	1	2	1	4		2		10	2	12
	Cit	у			16	10	11	13	17	6	11	8	55	37	92
					A	JES A	T D	EATI	Ι,	i de la composition della comp					
Under 1 year.	1—	2—	3—	4-	5—	10-	- 18	5-	20	30-	40-	- 50)	and up- ards.	All Ages
		1			4	8	3	10	27	28	9		5		92

CITY OF LIVERPOOL.

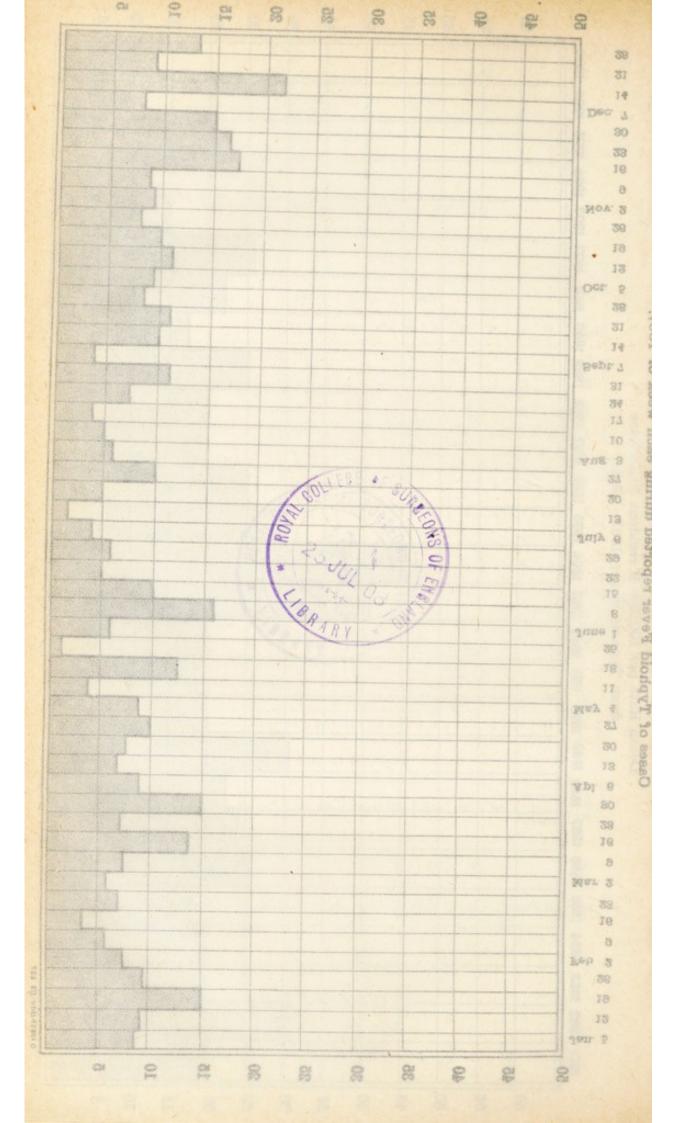
Death Rate per 100,000 of resident Population from Typhoid Fever, 1881-1907.



Peath Rate per 100,000 of resident Population

ŦΤ Dec. 7 Nov. 2 Oct. 5 Cases of Typhoid Fever reported during each week of 1907. SI ₽Ĭ F.Jqea 8 Suk auly 6 1 sunc TT May 4 LZ 9 lqA в Mar. 2 Feb 2 O 10857-1500-5/5 EST Jan. 5

CITY OF LIVERPOOL.



SCARLET FEVER.

The decline in Scarlet Fever, which was noted in 1906, continued throughout 1907. The disease also was of a milder type, and accompanied by a lower rate of mortality.

There were 2,741 cases reported during the year, against 2,959 in the preceding year, 4,308 in 1905, 2,988 in 1904, and 4,053 in 1903. The public appreciation of the value of isolation continues, and 78.2 per cent. of the cases were removed to hospital, i.e., 2,144, out of a total of 2,741 cases reported. The percentage of the total number of scarlet fever patients removed to hospital during each of the preceding ten years has been as follows:—54.6, 60.5, 63.6, 60.8, 54.8, 53.4, 52.9, 74.6, 73.0 and 74.0, showing that as accommodation was provided it was well availed of.

The mortality from the disease was 5 per cent., the great majority of the deaths being below five years of age. (See table, page 38.) This rate of mortality has been considerably exceeded on previous occasions, and in bygone years the loss of life from this disease was very much more serious than it is now.

The total number of deaths was 140, including 8 non-residents admitted to the City Infectious Hospitals, against 193 last year, and an average of 233 during the preceding five years.

The number of deaths from Scarlet Fever during each of the preceding ten years, 1897-1906, has been as follows:—

1897		 		 	209	deaths.
1898		 		 	145	33
1899		 		 ***	164	,,
1900		 		 	113	22
1901	1.1.1	 		 	195	22
1902		 		 	318	22
1903		 		 	201	>>
1904		 	***	 	149	,,
1905		 		 	303	,,
1906		 		 	193	12

The following table shows the periods of the year and the localities in which deaths from Scarlet Fever occurred, and also the ages at death.

DEATHS FROM SCARLET FEVER.

				QUAR	TERS					YEA	Ti.
DISTRICTS.	Ma	rch.	Ju	ine.	Se	pt.	De	ec.		LEA	L.E.
	М.	F.	M.	F.	M.	F.	М.	F.	M.	F.	Total
Scotland	1		5	3	2	2	2	4	10	9	19
Exchange	1		1	1		2		1	2	4	6
Abercromby	2	2	1	2	1				4	4	8
Everton	3	1		6	2	2	5	3	10	12	22
Kirkdale	2	3	8	***	1	- > +	1	4	7	7	14
West Derby (West)	3		2	1	1	1		2	6	4	10
Toxteth	3	8	3	3		3	2		8	14	22
Walton	1	3	2	1	1	1	1	2	5	7	12
West Derby (East)	***			***			***				
Wavertree	2				2			1	4	1	5
Sefton Park(late Toxteth Rural)	1	***				2			1	2	8
Garston	1	2	2	4	1	1			4	7	11
Fazakerley									***		
Hospitals (Residences outside the City)	2	1	2	1	1	***	1		6	2	8
City	22	20	21	22	12	14	12	17	67	73	140
	Ac	ES A	T D	ЕАТН							
Jnder 1— 2— 3— 4— 4	5 -	10-	-	15—	20-	- 3	0-	40-	- 50)_	All Age
4 22 24 35 15	32	5		1	1		1				140

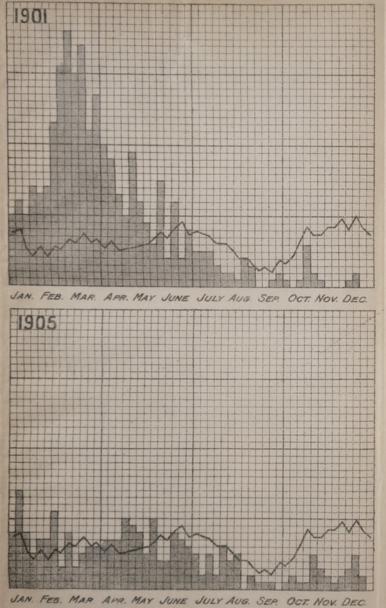
MEASLES.

Measles was prevalent during the early months of the year to an extent which rendered necessary the closure for short periods of a number of the Infant schools.

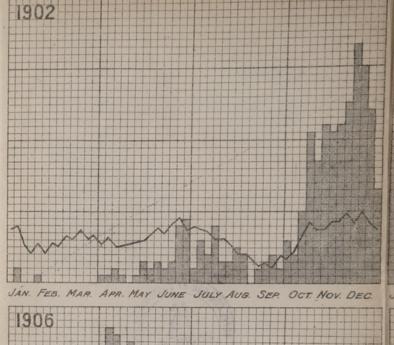
The disease subsided during the summer months, appearing again towards the winter. The total cases reported during the year were 5,640, showing a decrease compared with the preceding year, when the cases reported reached 6,819, as against 3,938 in 1905, 9,453 in 1904, 2,728 in 1903, 7,141 in 1902, 6,766 in 1901 and 2,372 in 1900. There were 291 deaths directly ascribed to it, the great majority of them being of infants below 3 years of age. The number of deaths in the preceding year was 586.

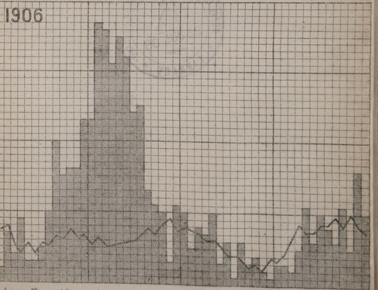
As has been frequently pointed out, the number of deaths does not fully indicate the destruction of life due to measles, since this disease is commonly associated with bronchitis and pneumonia, and it is beyond any question that deaths primarily due to measles are entered in the returns as due to pulmonary disease. The isolation of the infectious sick in hospital is important and necessary. Provision of hospital accommodation, for a limited number of cases, has now been made for measles, but the deaths from measles do not show a decline comparable to that which has taken place in the forms of infectious disease for which hospital accommodation is available. In the great number of homes in which measles occur isolation in the house is difficult or impossible. In making arrangements for hospital isolation of measles, difficulties of a special kind arise owing to the tender age of the patient, and the peculiarities of the infection in this form of disease.

The tendency of this disease to recur at intervals of about 18 months is well illustrated in the accompanying diagrams; fortunately a larger period than 18 months has elapsed without any considerable outbreak.



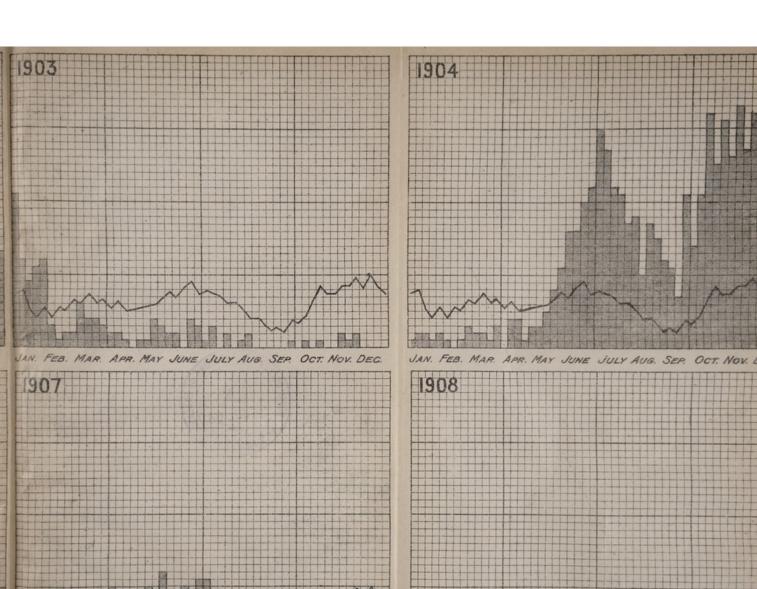
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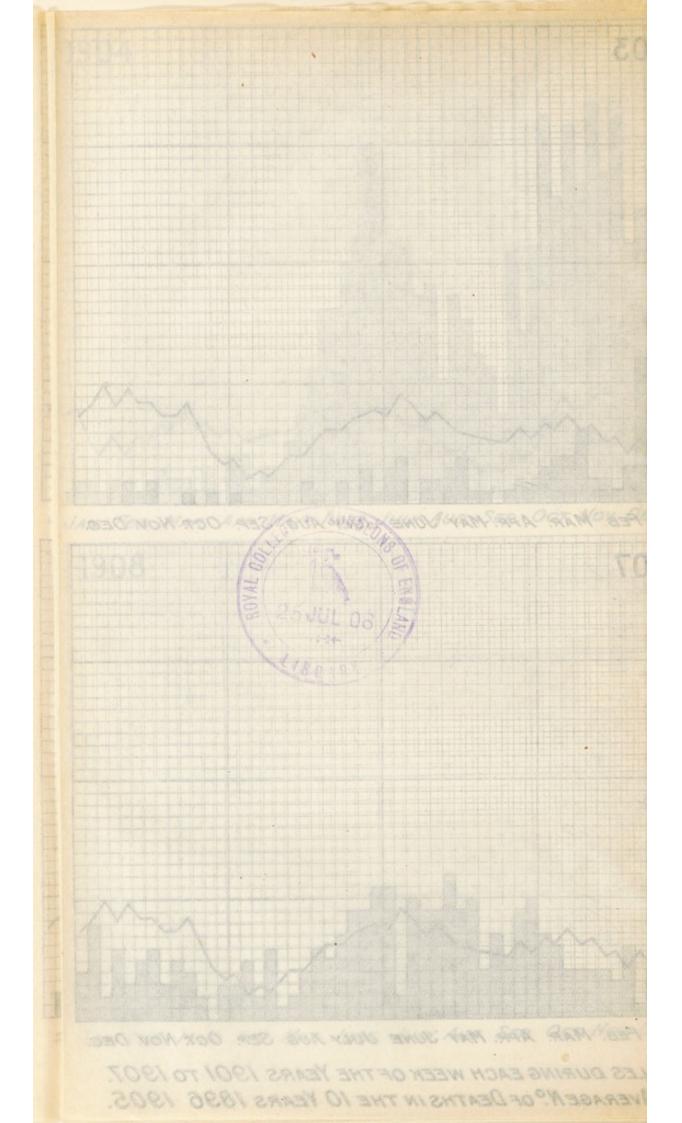
JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. DEC.

THE BLACK COLUMNS INDICATE THE NUMBER OF DEATHS FROM EACH YEAR REPRESENTS THE WELL



JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. DEC. DMEASLES DURING EACH WEEK OF THE YEARS 1901 TO 1907.
WEKLY AVERAGE N.º OF DEATHS IN THE 10 YEARS 1896 1905.

AN. FEB. MAR. APR. MAY JUNE JULY AUG. SEP. OCT. NOV. DEG



WHOOPING-COUGH.

This disease, which again showed a considerable prevalence in the city, is one of the most distressing and painful causes of death in very early life; a large number of deaths certified to be primarily due to diseases of the lungs are found on inquiry to have originated in whooping-cough, the great majority of the deaths occurring below two years of age, and more than one-third below twelve months of age. It is plain from this circumstance that isolation of the infected infant in hospital presents many difficulties, similar in character to those which arise in the case of Measles. But in a large proportion of cases the patient would have to be accompanied by the mother, whilst the period of detention in hospital would in the majority of cases be protracted. During last year 324 deaths were directly attributed to whooping-cough, but this figure is by no means a complete representation of the mischief caused by it.

Notwithstanding the difficulties in the way, isolation for a limited number of cases has been found, and some lessening of this disease may be expected with confidence. Experience has repeatedly shown that the introduction of a case of whooping-cough into a court has resulted in the infection of practically the whole of the infant population in that court. The following table shows the periods of the year and the localities in which deaths from Whooping-cough occurred, and also the ages at death.

The number of deaths from Whooping-cough during each of the preceding ten years, 1897-1906, has been as follows:—356, 333, 314, 538, 166, 407, 318, 426, 151 and 362.

				QUAI	RTERS						
DISTRICTS.	Ma	rch.	Ju	ne.	Sej	pt.	D	ec.		YEA	AR.
	М.	F.	М.	F.	М.	F.	М.	F.	М.	F.	Total
Scotland		2	10	11	15	6	4	9	29	28	57
Exchange	1	3	5	3	2	1	2	3	10	10	20
Abercromby	2	1		2	1	1	1		4	4	8
Everton	2	4	7	11	12	9	7	10	28	34	62
Kirkdale	1	3	10	6	6	9	10	10	27	28	55
West Derby (West)	4	2	3	3	3	5	4	12	14	22	36
Toxteth	3	2	3	5	4	5	8	9	18	21	39
Walton	1		1	1	1	1	3	7	6	9	15
West Derby (East)	2		3	1	8	1	1	2	9	4	13
Wavertree	2	3	1			1	1		4	4	8
Sefton Park		1		***		1	1	3	1	5	6
Garston	•••		***	***	***	2	2		2	2	4
Fazakerley				3000							
Hospitals (Residences outside the City)							1		1		1
City	18	21	43	43	47	42	45	65	153	171	324
	1	Ages	ат І)EAT.	H.						
Under 1 year. 1— 2— 3 — 4—	5-	10-	15		20-	30		40-	50		All Ages.
130 106 38 26 11	13										324

DIPHTHERIA.

A very gratifying decline in the number of deaths from Diphtheria has to be recorded. Appended is a table showing the periods of the year and the localities in which the deaths from Diphtheria occurred, and also the ages at death.

The number of deaths during each of the preceding ten years has been as follows:—91, 123, 192, 143, 158, 200, 153, 181, 138 and 137.

								QUA	RTERS	š.				17	
	DIS	FRICT	rs.		Ма	reh.	Ji	me.	Se	ept.	Đ	ec.		YEA	R.
					М.	F.	М.	F.	М.	F.	М.	F.	М.	F.	Total
Scotl	and				1	1		1	1		2	1	4	3	7
Exch	ange						1	1			2	1	3	2	5
Aber	eromb	y			1	1				2			1	3	4
Ever	ton						2	2	2	1	1	1	5	4	9
Kirke	lale				1	1	1	2	2	2	2		6	5	11
West	Derb	y (Wes	st)		1	1	1	***	2	1		2	4	4	8
Toxte	eth				2	4	1	3	1	2	2	2	6	11	17
Walte	on				1	3	2		1	1	1	1	5	5	10
West	Derby	(Eas	t)		3		3		2	1	1	1	9	2	11
Wave	ertree				***	1	2	1			***	1	2	3	5
Sefto	n Parl	t	tural).		1	***					1		2		2
Garst	on		urai).		2	1						1	2	2	4
Fazal	kerley	,			***										
Hosp	itals (Reside	ences	out-		***	2	11.0		***			2		2
					13	13	15	10	11	10	12	11	51	44	95
					A	GES	AT I	DEAT	Н						
Under year.	1 -	2	3 -	4—	5-	10	-	15—	20 -	30	40	_ 5	0	60-	All Ages
3	19	12	14	12	27		3	1	1			2	1		95

CROUP.

The following table shows the periods of the year and the localities in which deaths attributed to Croup occurred, and also the ages at death. Fourteen of the deaths were attributed to Membranous Croup, and eight to Croup.

The number of deaths during each of the preceding ten years has been as follows: -58, 41, 50, 40, 51, 41, 24, 33, 37 and 24.

								QUAI	RTERS					YEA	
	DIST	RICTS	i.		Ma	rch.	J	une.	Sej	pt,		Dec.		1.62	A.Ii.
					М.	F.	М.	F.	М.	F.	М	. F.	М.	F.	Tota
Scotlar	id				1	.,.						1	1	1	2
Exchai	ige														
Aberer	omby.						1		***	***		***	1		1
Everto	n				1	1	1			1			2	2	4
Kirkda	le					1				1	1	1	1	3	4
West I	Derby (West)						1	1				1	1	2
Toxtetl	ı					1					2		2	1	3
Walton						1	1	***		***			1	1	2
West I	erby (East).			1					1			1	1	2
Wavert	ree					1						1		2	2
Sefton (late	Toxtet	h Rui	al).		***		***	***	***						
Garston					***	***	***	***	***	***	***		***	***	***
Fazake Hospita	als (Re	sidenc	es ou	tside		***		***							***
the	City)										•••		***		
	Cit	y			3	5	3	1	1	8	3	3	10	12	22
					A	GES	ат І)еатн							
Under year.	1—	2—	3—	4—	5-		10—	15	20-	30-		40-	50—	A	All iges.
	7	3	5	1		5									22

ZYMOTIC DIARRHŒA.

Zymotic Diarrhoa is one of the most fatal diseases of infants in this City; it is by no means confined to infancy, but during 1907, as in preceding years, nearly three-fourths of the total number of deaths were of infants under twelve months old. It is most satisfactory to be able to record a very marked decline in this form of disease, a result no doubt due partly to the cool and wet summer, as well as to the increased municipal effort to lessen the prevalence of the disease. The disease did not commence to figure prominently in the mortality returns until a later period than usual, namely, the middle of September, and continued until the end of October. Over 500 deaths were registered from it during the year, which represents a lower proportion to the population than has ever been recorded in Liverpool.

Investigation proves incontestably that the deaths of infants from this cause are closely associated with the method of feeding, putrefying food being the medium by which the specific poison is commonly introduced. The deaths amongst children under three months of age, either wholly or partially fed on artificial foods, are fifteen times as great as they are amongst an equal number of infants fed upon breast milk; e.g., investigation has tended to prove that, out of every 1,000 infants under three months of age, naturally fed upon breast milk alone, 20 die of autumnal choleraic disease; but if the same number of infants, at the same age, are artificially fed, then, instead of 20 dying, as many as 300 will die from this cause. It is mainly with a view to meet this excessive mortality that sterilized milk depôts have been established, to ensure a supply of food for infants which is bacteria-free, and which can be given without any exposure to sources of contamination. (See also pp. 18 and 168.)

The connection between the meteorological conditions and the prevalence of zymotic diarrhœa during the third quarter of the year, is well shown in the following diagrams.

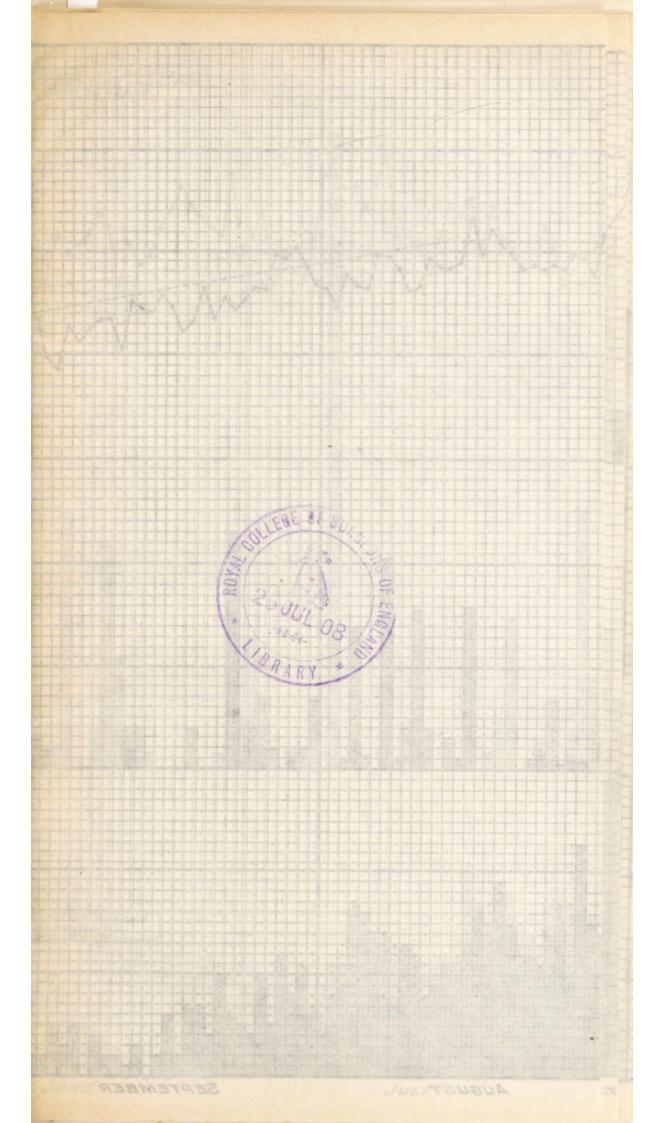
These five diagrams give the daily variations of the rainfall and the mean temperature of the air, during the months of June to September, and the daily deaths from zymotic diarrhœa during July, August, and September, for the years 1903, 4, 5, 6, 7, October being included in this latter year.

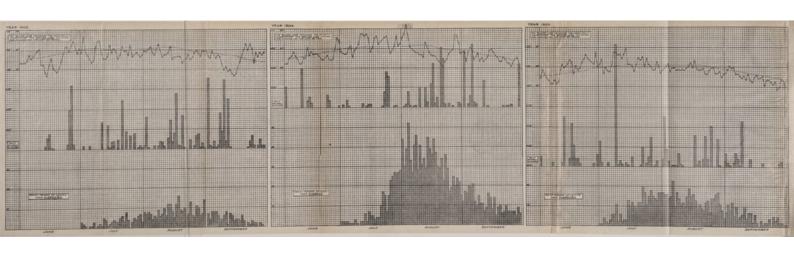
In comparing the years 1903, 1905, and 1907 with the years 1904 and 1906 it will be seen that the mean temperature in the latter frequently rose far above the 20 years' average, and remained so for several days together; it seldom fell below the average. The rainfall during the years 1904 and 1906 was scanty. The summer and autumn of both these years were characterised by severe outbreaks of diarrhoa. On the other hand, the mean temperature during the years 1903, 1905, and 1907 was usually below the average, and rarely rose above it, and then only for short intervals of a day or so. The amount of rain which fell was much greater. These conditions were associated with a death-rate from diarrhoa which was about one-half of that which occurred in 1904 and 1906.

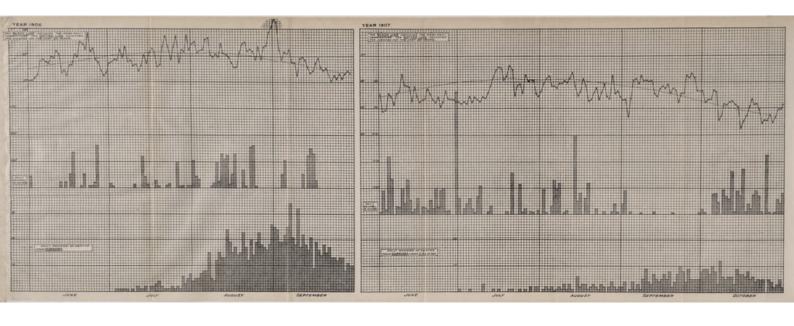
The number of deaths during each of the preceding ten years has been as follows:—1,482, 956, 1,158, 900, 1,269, 611, 657, 1,785, 960 and 1,298.

Provision was made during the year for the treatment at the Fazakerley Hospital of a limited number of infants suffering from infantile cholera. See p. 254 (Hospitals).

Valuable service has been rendered in previous years by the authorities of the Royal Infirmary, Stanley Hospital, David Lewis Northern Hospital, Belmont Road Hospital, and Children's Infirmary in receiving a considerable number of patients, all of them infants, suffering from this disease. In some instances the cost was defrayed by the Corporation.







YEAR 1906. COUNED 2/2

DEATHS FROM DIARRHŒA.

The following table gives the Districts in which fatal diarrhœa occurred, the seasons in which it took place and the ages of the patients. It will be seen that the greatest fatality was amongst infants under 12 months of age:—

									Qu.	AR	TERS						
D	ISTR	ICTS	· .			Ма	rch.	J	une.		Se	pt.	Т	ee.		YEA	R.
						M.	F.	М	. F		М.	F.	М.	F.	М.	F.	Total
Scotland						3	2			2	26	17	24	28	58	49	102
Exchange	2					3	2	1	3 :	3	13	12	10	20	29	37	66
Abererom	by							1	3	1	8	8	5	8	16	17	33
Everton						4	7	1	5 .	4	23	12	31	19	63	42	105
Kirkdale								1	2	1	8	11	11	6	21	18	39
West Der	by (V	est)				2	1	1		3	10	9	12	18	28	31	59
Toxteth				1 // 2		5	3	5	2	1	9	15	21	14	37	33	70
Walton								1	3	4	8	5	14	1	24	10	34
West Der	by (F	last)	111			2					7	2	3	1	12	3	15
Wavertre	е					3				1	1	1	2		7	2	9
Sefton Pa		 D								1						1	1
(late To Garston .	oxteti				**						1		1	1	2	1	3
Fazakerle	y						***		ı				***		1		1
Hospitals the Ci		iden	ces o								2	3	2		4	3	7
					-	22	15		-		116	95	136		_	247	544
						A	GES	AT	DEAT	гн							
Under 1 year.	1—	2-	3-	4-	5-	- 10)_	15—	20-	1	30-	40	-	50 -		t up-	All Ages
371	128	11	10	2	2		1		1		1		1	2		11	544

List of Streets in the City wherein Three or more Deaths from Diarrhœa occurred during the year 1907.

	1	STRE	ETS.			No. of Deaths.	Streets.	No. of Deaths
Beau					 	8	Hopwood	5
Beaufort	***	***			 	3	Hornby	4
Bidder				***	 	3	Howe	4
Blenheim					 	3	Hughes	3
Bond					 	4	Kew	8
Burlingto	n	***			 	4	Nimrod	3
Celt					 	3	Overbury	3
China					 	4	Prince Edwin Lane	4
Clegg					 	3	Rathbone	4
Collingwo	ood				 	3	Robsart	6
Field					 	4	Roscommon	4
Forth					 	3	Rose Place	3
Gerard					 	7	Salisbury	3
Gore					 	4	Victoria Square	5

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

OTHER ZYMOTICS.

The following table indicates the localities in which deaths from other forms of zymotic disease occurred during the year:—

DISTRICTS.		Innuenza.	4	Dry sipenas.	01.111	sypmins.	Rheumatic	Fever.	Puerperal	Fever.	Other	Zymotics.	YEAR.
	М.	F.	М.	F.	М.	F.	М.	F.	М	F.	М.	F.	Total
Scotland	2	- 1	1	1	4	2		3		1	2	2	19
Exchange	1		1		4	5	1			2	2		16
Abercromby	3	5	1		2	2	1	2		1	1		18
Everton	5	6	4	1	8	7	3	4		1	2	5	46
Kirkdale	5	2				5	2	2		1	2	2	21
West Derby (West)	4	3	1		6	2	1	1		3	3	2	26
Toxteth	6	10	1		3	1	2	3		1	4	1	32
Walton	2	1			3	2		1			3		12
West Derby (East)	2	2			3		3	3		1		1	15
Wavertree	1	1				1		1		1	1		6
Sefton Park		3		2			1	1			1		8
Garston					1	3					3	1	8
Fazakerley						***							
Hospitals(Residences outside the City)	1	3	3	1	2	1	1			3	3		18
City	32	37	12	5	36	31	15	21		15	27	14	245

OF THE PRINCIPAL ZYMOTIC DISEASES DURING EACH OF THE LAST FOUR DECENNIAL PERIODS, IS INTERESTING AND INSTRUCTIVE. THE DECLINE IN THE MORE FORMIDABLE THE FOLLOWING TABLE SHOWING THE ANNUAL AVERAGE NUMBER OF DEATHS FROM SIX FORMS OF INFECTIOUS DISEASES IS VERY MARKED.

Diarrhea.	995-3	658.4	9-009	9-150,1	921.0
Whooping Cough.	496.8	472.3	322.4	330.4	343.0
Measles.	425.7	517.8	399-5	329.0	438.5
Scarlet Fever.	789-4	421.2	257-5	201.3	166-5
Typhus.	652.8	238.0	37.1	25-1	13:0
Small Pox.	237-4	8.06	8.8	19.5	ъĢ
Years.	1866 to 1875	1876 to 1885	1886 to 1895	*1896 to 1905	1906-7

* Including extended City area.

ANNUAL AVERAGE NUMBER OF DEATHS FROM SIX OF THE PRINCIPAL ZYMOTIC DISEASES DURING EACH OF THE LAST FOUR DECENNIAL PERIODS, DISTINGUISHING THOSE OF PERSONS ABOVE AND BELOW FIVE YEARS OF AGE.

YEARS.	SMAL	SMALLPOX.	TYPHUS.	HUS.	SCARLET FEVER.	FEVER.	MEASLES.	SLES.	Wиооргио Сопон.	в Соран.	DIARI	Бганинска.
	Above 5.	Above 5. Below 5.	Above 5.	Below 5.	Above 5.	Above 5. Below 5.		Above 5. Below 5.	Above 5.	Above 5. Below 5.	Above 5. Below 5.	Below 5
1866 to 1875 141·7	141.7	7.96	.:	.: .:	187.7	7.109	14.4	411.3	6-6	6.981	105.7	9.688
1876 to 1885	62.5	28.3	_* :	.:	137.0	284.2	35.4	482.4	18.6	453.7	6-19	596.5
1886 to 1895	6.5	5.6	+33-2	L. +	87.6	169-9	28.3	371-2	15.1	307.3	60.5	540.4
**1896 to	14.5	5.	24-2	ę.	61.7	139-6	17·1	311-9	11-9	318.5	53.6	1,008-3
1906-7	.5	1	12.5	ŭ	55.0	1111-5	24.0	414.5	15.5	327.5	33.0	888.0

+ During the eight years, 1888-1895. * During these years the ages at death from Typhus were not differentiated.

** Including extended City Area.

The following table shows the number of deaths, the annual average death-rate per 100,000 of the population from the undermentioned forms of disease during the last five decades 1856 to 1905, and during the last two years 1906-7:—

1	DISEASE.	1856 to 1865, Average Population 443,938.	1866 to 1875, Average Population 493,405.	1876 to 1885, Average Population 538,651.	1886 to 1895, Average Population 536,974.	1896* to 1905, Average Population 691,351.	1906-7, Average Population 742,662.
Scarlet Fever	Total Deaths Rate per 100,000 per annum.	5,994 185·0	7,894 159·9	4,212 78·1	2,575 47·9	2,013 29·1	333 22·4
Typhus Fever	Rate per 100,000 per annum.	7,482 168·5	6,527 132·2	2,855 53·0	371 6·9	251 3·6	26 1·7
Measles	Total Deaths Rate per 100,000 per annum.	3,215 72·4	4,257 86·2	5,178 96·1	3,995 74·3	3,290 47·5	877 54·2
Whooping Cough	Rate per 100,000 per annum.	4,779 107·6	4,968 100·6	4,723 87·6	3,224 60·0	3,304 47·7	686 46·1
Smallpox	Total Deaths Rate per 100,000 per annum.	1,673 37·6	2,374 48·1	908 16·8	88	195 2·8	1 0.1
Phthisis	Total Deaths Rate per 100,000 per annum.	15,572 350·7	16,476 383·9	13,754 255·3	11,436 212·9	12,632 182·7	2,418 162·7

^{*} City Boundaries extended in 1895.

TUBERCULAR DISEASES.

These diseases are associated with insanitary surroundings, and with conditions of life which tend to lower the general health. Improved sanitation is accompanied by a diminished mortality from these forms of disease, as the accompanying table, which relates to the last four decades and the two years 1906-7, indicates:—

	1866 to 1875.	1876 to 1885.	1886 to 1895.	1896 to 1905.	1906-7.
Annual Average Death- rate per 100,000 of the population, at all ages, from all forms of Tub- erculosis	430.8	349-8	309-8	247-2	219-4
Annual Average Death- rate per 100,000 of the population above 5 years of age from Phthisis	362-8	278-6	244.4	203.8	183-5
Annual Average Death- rate per 100,000 of the population below 5 years of age from: Tabes Mesenterica Hydrocephalus Other forms of Tuber- culosis.	637-1	597-3	539·1	339-5	273:5

The Group of Tubercular Diseases includes Phthisis, Tabes Mesenterica, Hydrocephalus, and other forms of Tuberculosis. They occasioned 1,597 deaths in the City of Liverpool during the year 1907.

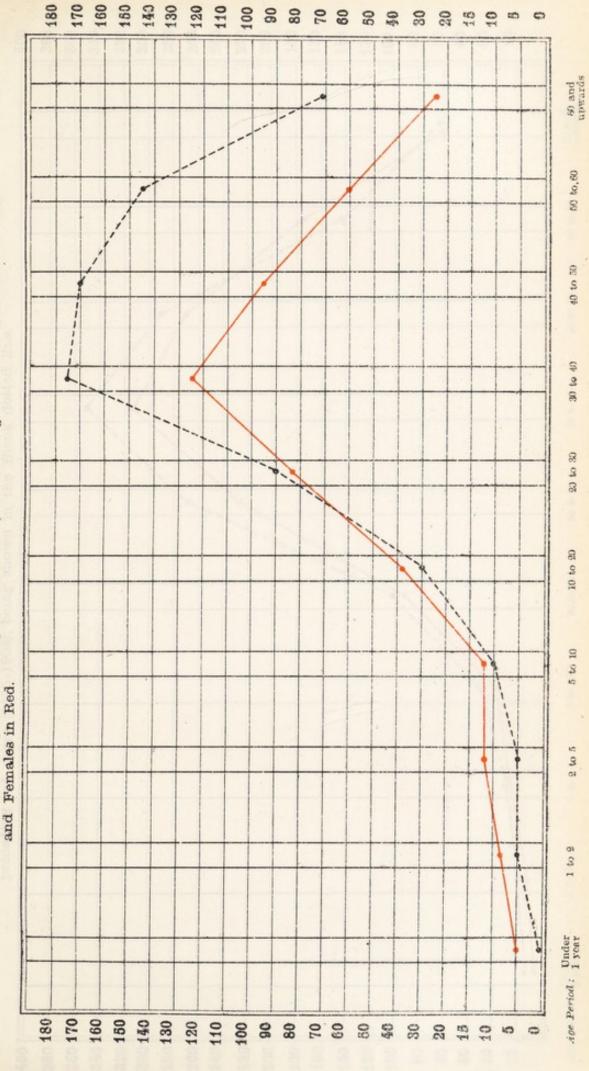
DEATHS FROM PHTHISIS.

The number of deaths from Phthisis during the year was 1,183. The number of deaths during each of the preceding ten years, 1897-1906, has been as follows:—1,220, 1,209, 1,313, 1,287, 1,302, 1,347, 1,258, 1,282, 1,245 and 1,235.

DISTRICTS.						QUARTERS.								YEAR.		
						March.		June.		Sept.		Dec.		1 EAR.		
					M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total	
Scotla	nd				17	8	14	5	10	11	14	11	55	35	90	
Excha	nge				29	17	26	13	20	11	19	16	94	57	151	
Aberci	romby	***			26	8	15	10	14	4	11	5	66	27	93	
Evert	on		***		37	27	26	19	39	11	18	23	120	80	200	
Kirkda	ale				14	5	16	10	14	8	9	12	53	35	88	
West	Derby	(West)			18	24	13	16	18	14	18	13	67	67	134	
Toxtet	h				26	17	22	18	17	14	17	18	82	67	149	
Walto	n				10	9	4	12	4	2	10	6	28	29	57	
West	Derby	(East)			13	5	11	9	12	10	10	8	46	32	78	
Waver	tree				6	1	6	4	1	5	6	4	19	14	33	
Sefton					4	2	1	2	3	4	3	2	11	10	21	
Garsto	on	th Rur	ai)		5	1	3	1	2	4	1	2	11	8	19	
Fazak	erley				2	1			1				3	1	4	
Hospi	tals (B	tesiden	ces ou	tside												
the	City)				16	7	12	5	9	5	7	5	44	22	66	
City					223	132	169	124	164	103	143	125	699	484	1,188	
					A	GES	AT I	EAT	н.							
Under I year.	1-	2—	5	10-	_ 15—		20- 8		30- 40		_ 50—		60 & up- wards.		All Ages	
7	7	13	21	25		82	21	219		26	6 171		57		1,18	

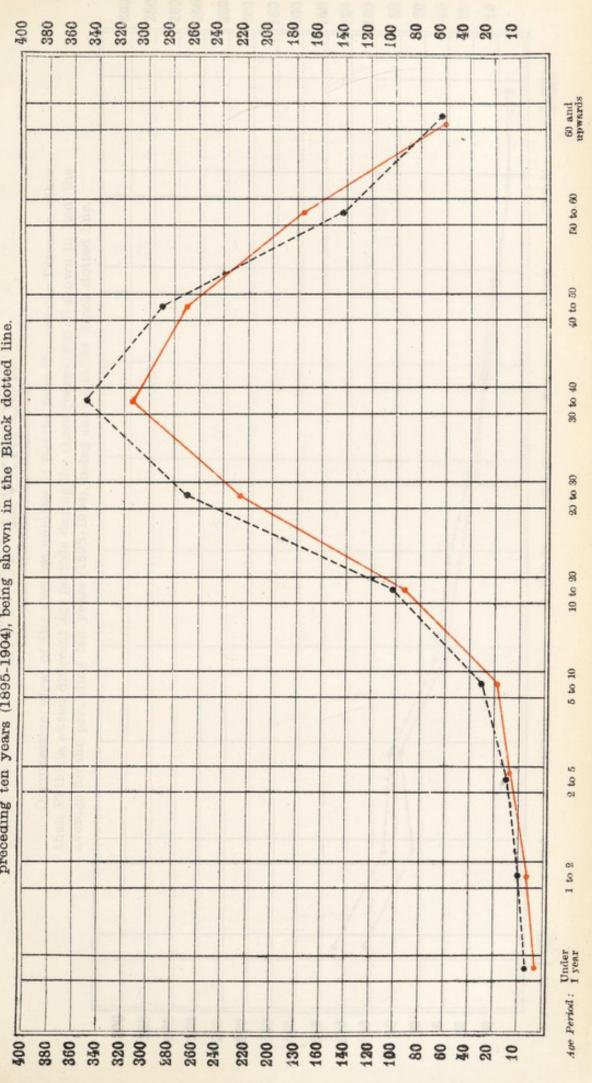
CITY OF LIVERPOOL.

different age periods during the year 1907, Males being shown in Black dotted line. Comparative view of the total number of Deaths from Phthisis at ten



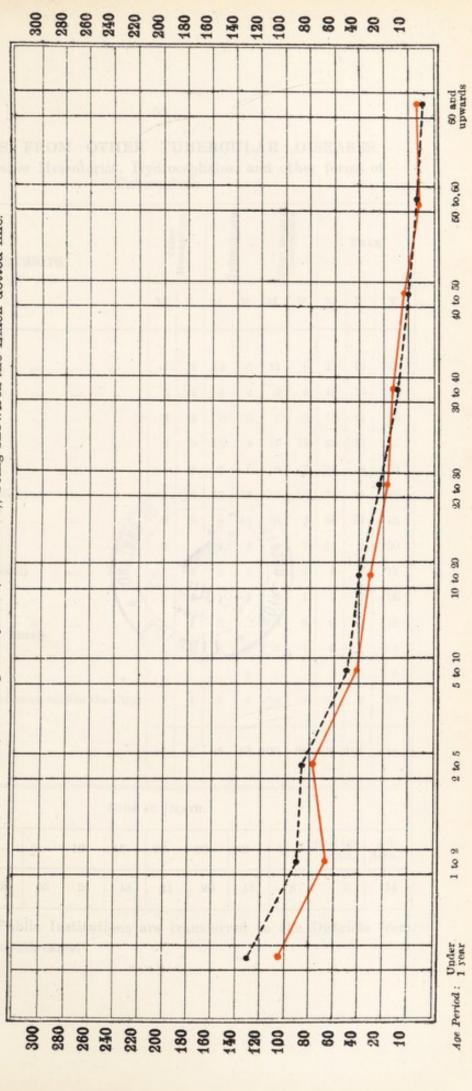
CITY OF LIVERPOOL.

Comparative view of the average number of Deaths from Phthisis at ten different age periods during the three years (1905-1907), shown in Red, the average for the preceding ten years (1895-1904), being shown in the Black dotted line.



CITY OF LIVERPOOL.

Comparative view of the average number of Deaths from Tubercular Diseases, other than Phthisis, at ten different age periods during the three years (1905-7) shown in Red, the average for the preceding ten years (1895-1904), being shown in the Black dotted line.



JOOSET TO YIJO



DEATHS FROM OTHER TUBERCULAR DISEASES.

Viz.:—Tabes Mesenterica, Hydrocephalus, and other forms of Tuberculosis.

		DIST	RICTS	S.		Tabes Mesenterica.		Hydrocephalus.		Other forms of Tuberculosis.		YE		EAR.	
						М.	F.	М.	F.	М.	F.	М.	F.	T.	
Scot	land					2	4	12	5	11	6	25	15	40	
Exe	hange					2	2	4	4	9	4	15	10	25	
Aber	reromby	r				2	8	8	3	5	5	15	11	26	
Eve	rton	***				9	9	13	5	18	18	40	32	72	
Kirl	dale					5	4	7	6	9	8	21	18	39	
Wes	t Derby	(Wes	t)			4	8	11	12	13	15	28	35	63	
Toxt	teth	***			***	8	8	8	11	10	3	26	22	48	
Wal	ton		***	***		5		4	2	2	7	11	9	20	
Wes	t Derby	(Eas	t)				1	5	1	1	4	6	6	12	
Wav	ertree					3	4	1	2	5	1	9	7	16	
Sefte	on Park te Toxt	 eth Ri					1	3		3	5	6	6	12	
Gars	ton .						1	3	2	- 3	4	6	7	13	
Faza	kerley.								1	1		1	1	2	
Hosp	oitals (I	Residen	ices ou	tside th	ie City)	1	1	6	4	10	4	17	9	26	
City						41	46	85	58	100	84	226	188	414	
					Ages A	T D	ЕАТН								
Under year.	1—	2—	5—	10—	15—	20- 30		0—	40-	- 50-		60 & up- wards.		All Ages.	
100	65	86	53	24	18	21 9		20	15		6		6		

NOTIFICATION OF PHTHISIS.

The system of voluntary notification of those cases of consumption in which the services of the Health Department could be of use came into operation on 14th February, 1901, and has been continued with good results.

A special form upon which the notification can be made has been circulated amongst medical men, and in those cases in which the requirements of the Health Committee have been fulfilled, the usual notification fee has been paid. Since the inauguration of the system the number of notifications has been as follows:—

Year.	Males,	Females.	Total.
1901	1148	649	1797
1902	1469	730	2199
1903	1153	721	1874
1904	1068	641	1709
1905	1257	604	1861
1906	1257	662	1919
1907	1446	784	2230

During the year 1907, the cases reported

numbered	2,280
Of this number	139 were duplicates.
Leaving a total of	2,141 Cases.
Deaths from the Disease totalled	1,117
Rooms, Bedding, &c., disinfected in	577 instances.
Bedding, &c., removed for special disin-	
fection in	57

It will be noted that only those cases are notified in which action on the part of the sanitary staff is needed; in many instances, the friends of the patient have themselves carried out disinfection under the guidance of their medical adviser.

Great advantage has attended the admission of patients to the Fazakerley Hospital (see page 241).

The age period at which the greatest number of cases were reported is from 25 years upwards, 1,056 males and 474 females being reported; 233 males and 160 females were reported between the ages of 15 and 25 years.

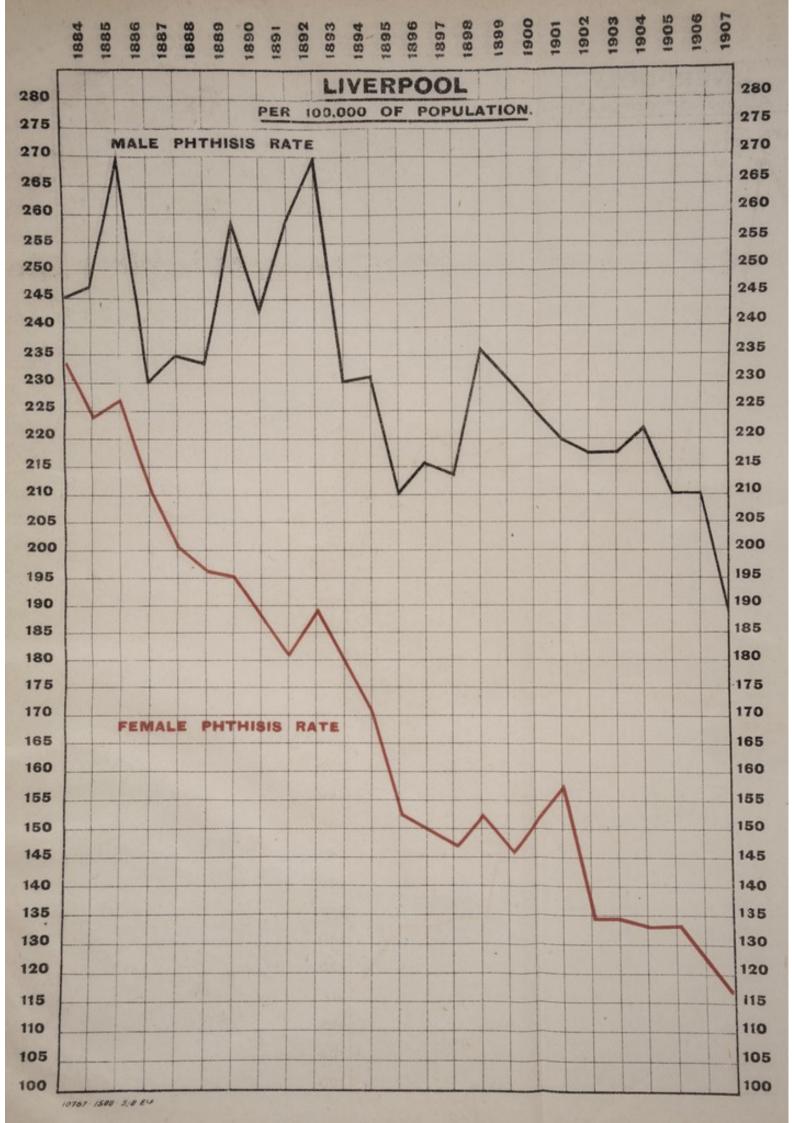
Total number of Males reported	. 1	,446
Total number of Females reported		784
There were 89 cases of Tuberculosis other than of the l	ungs	reported.
Dirty Houses were reported in	. 14	cases.
The occupations showing the largest number of cases we	ere as	follows:
Labourers	528	Cases.
Firemen (Marine)	56	,,
Hawkers	49	,,
Seamen	49	**
Carters	46	,,
Charwomen	43	.,,
Domestic Servants	43	"
Painters and Plumbers	39	,,
Bookkeepers	28	**
Engineers	27	,,
Tailors	25	,,

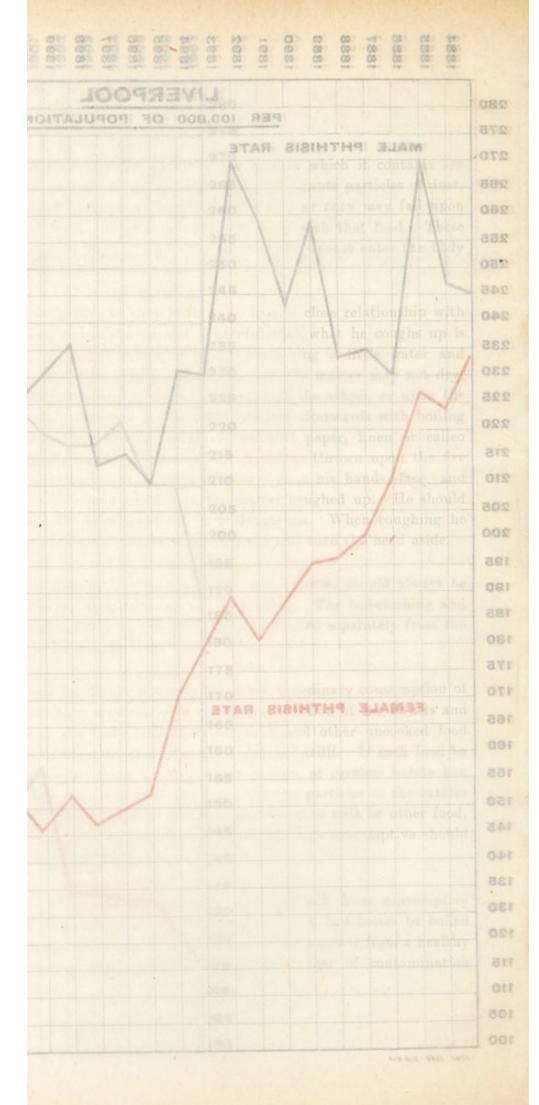
The following table of information for consumptive people was circulated through appropriate channels:—

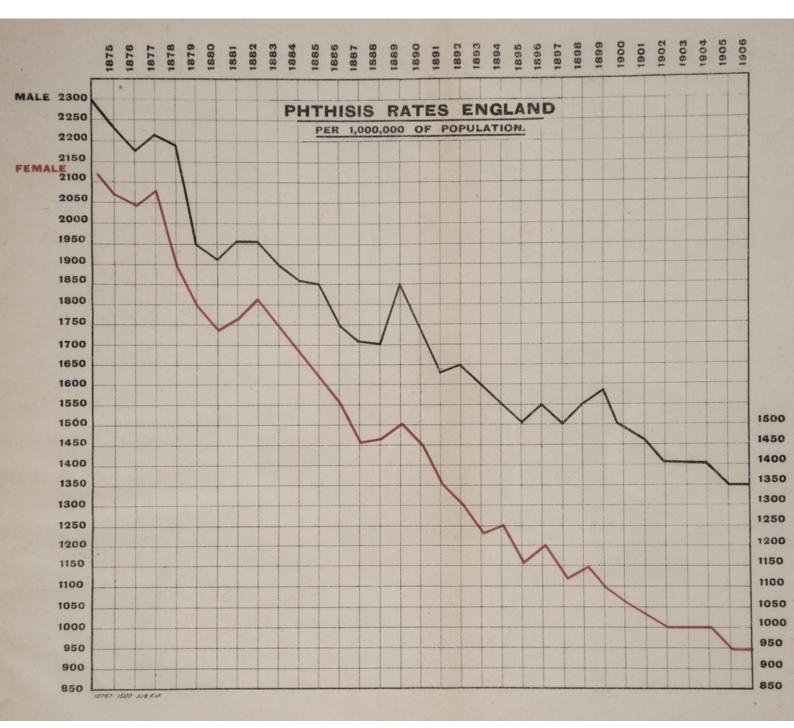
- 1.—Consumption is a preventible disease which is caused by minute living germs, called "tubercle bacilli," which usually enter the body with the air breathed.
- 2.—The matter which consumptive people cough or spit up contains the germs of the disease in great numbers. If this matter is spat upon the floors, or the walls of any public or private place, or elsewhere, as

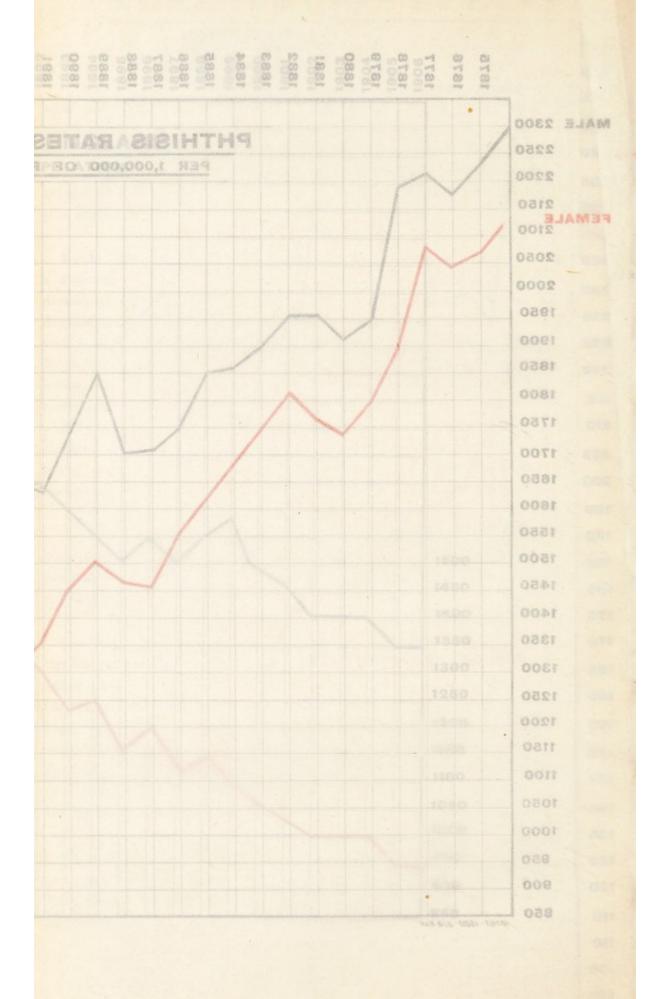
soon as it becomes dry the germs of the disease which it contains are blown about and float in the air, like any other minute particles of dust, and are inhaled by anybody breathing that air: or they may fall upon milk or other food, and gain access to the body with that food. These are the commonest ways in which the seeds of the disease enter the body of a healthy person.

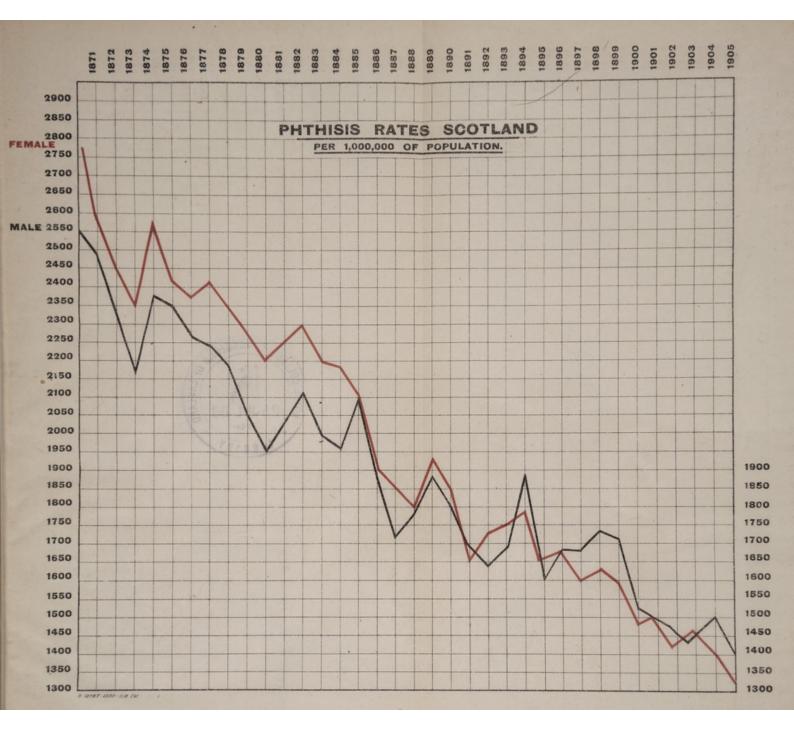
- 3.—It is dangerous to sleep with or to live in close relationship with a consumptive, unless the patient is careful that what he coughs up is destroyed. A pocket bottle or a cup containing a little water and disinfectant should be used to spit in, so that the matter may not dry, and it should be emptied in the closet (not into the ashpit, or upon the footwalk or the roadway), and carefully washed afterwards with boiling water. If the consumptive prefers to use soft paper, linen or calico cloths or handkerchiefs to spit in, they should be thrown upon the fire and burnt forthwith. He should take care that his hands, face, and clothing do not become soiled with the matter coughed up. He should never swallow the expectoration: it is dangerous. When coughing he should always cover the mouth with the hand and turn the head aside.
- 4.—A consumptive should sleep alone; the windows should always be wide open, except when dressing and undressing. The bed-clothing and personal underclothing should be boiled and washed separately from the clothing of other people.
- 5.—Tubercle bacilli are not only the cause of ordinary consumption of the lungs, but they may also give rise to consumption of the bowels and other parts of the body, and therefore milk and other uncooked food should be carefully protected from the tubercle bacilli. If such food be kept in a place to which a consumptive patient of careless habits has access and who may spit upon the floor, the dry particles of the matter spat up may blow about with dust and find access to milk or other food, and in this way contaminate it. Mothers who are consumptive should not suckle their children.
- 6.—Cows suffer from consumption, and the milk from consumptive cows is liable to contain the tubercle bacilli. Milk had better be boiled for a few seconds unless the consumer is sure that it comes from a healthy cow, and that it has not been exposed to danger of contamination

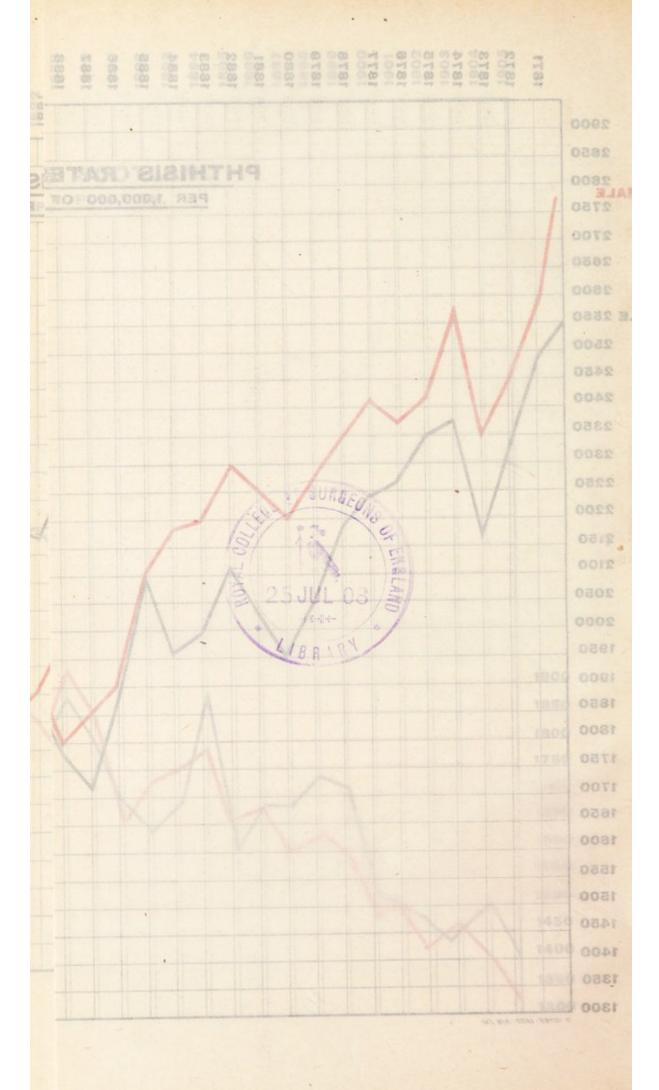




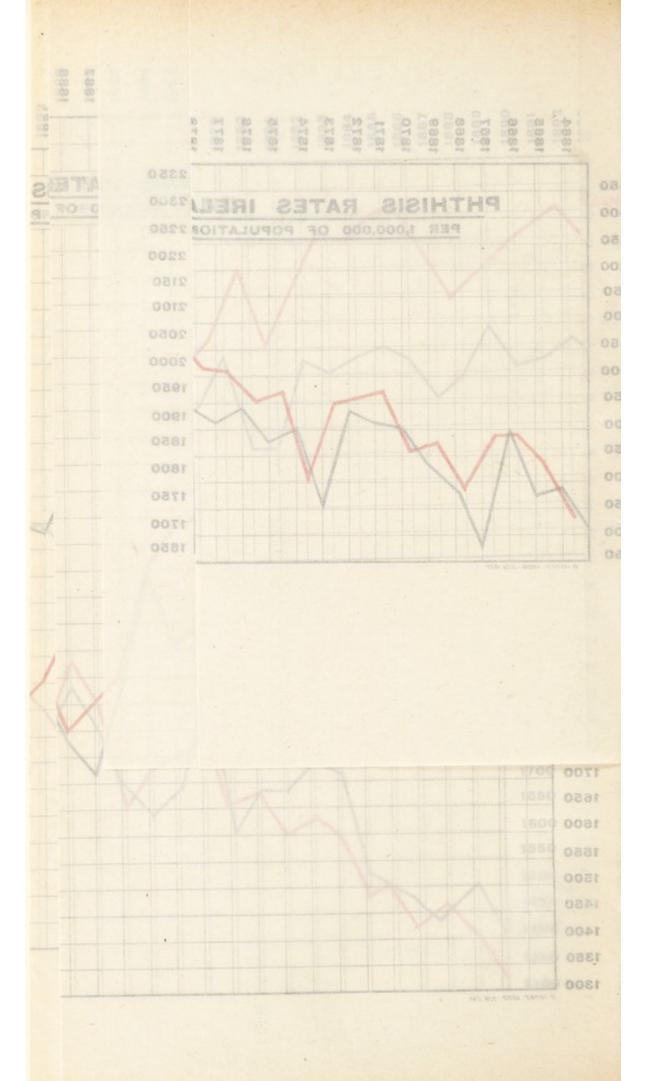












afterwards. These precautions should be specially observed in the case of children.

- 7.—Consumption is a disease from which large numbers of patients recover if the rooms they occupy are always kept thoroughly wellventilated, and clean and free from dust.
- 8.—Sunshine and fresh air destroy tubercle bacilli, and are the principal curative agents; the more sunshine and fresh air the consumptive patient gets, the more likely is he to recover.
- 9.—Sanitary improvements which have been carried out in the city with a view to admit more pure air and sunshine to dwellings, and to lessen overcrowding, have reduced the mortality from consumption to about one-half of what it was 30 years ago, but, to reduce it still further, the people must help themselves by keeping their rooms clean and well-ventilated, and by maintaining strictly temperate habits.
- 10.—Rooms that have been occupied by consumptives should be thoroughly disinfected and cleansed before they are again occupied, and the carpets and bedding should be disinfected; in fact, so far as these precautions are concerned, consumption may be regarded in precisely the same light as any other infectious disease.
- 11.—The Officers of the Health Department are always ready to do the necessary disinfection, both of rooms and of clothing, free of charge.

The accompanying diagrams illustrate the changes which have been taking place during the last twenty to thirty years:—

- (a) In the City of Liverpool;
- (b) In England and Wales;
- (c) In Scotland;
- (d) In Ireland.

It will be seen that with the exception of Ireland, the decline has been marked in both sexes, but much more so in the female than in the male.

ALCOHOLISM.

There is little doubt that the decrease in excessive drinking, and in the evils which follow it, continue. That this result is owing, in great part at all events, to diminished temptations, no one would seriously question, but the evil which still remains is one of the most deplorable and hopeless features with which the Sanitary Authority has to deal, not indeed on account of the direct and obvious consequences—although these are serious enough—but on the well-known indirect effects to be presently alluded to.

During the year, in no less than 164 inquests the verdict of the Coroner's Jury showed that the death of the man or woman on whom the inquest was held was to be attributed to the result of excessive drinking.

In 78 of these cases, viz., 44 of these men and 34 of these women, death appears to have resulted from the direct and immediate poisonous effects of the quantity of alcohol consumed. The deaths of 53 men and 23 women were accelerated by habits of excessive drinking; five men and five women were fatally injured whilst under the influence of drink; in one case temporary insanity supervened upon excessive drinking and the man strangled himself. One woman destroyed her life with carbolic acid, and one man destroyed his life by an overdose of morphia whilst under the effects of drink. In the case of two deaths resulting from personal violence, the person committing the deed was under the influence of drink at the time. But besides these there are many cases of fatal injury in which the verdict of "accidental death" omits any reference to the fact that the injured person was intoxicated at the time. "Alcoholism" is certified to be the cause of death of four men and three women.

It is remarkable that so excessive a fatality occurring year after year from an article in daily use calls for so little comment. Even if it be true that most, if not all, of the victims were persons of useless, vagabond lives, there is no reason to suppose that they were always so, nor to doubt that the line of conduct which terminated their existence is now being followed by others. These deaths, however, do not indicate at all fully the extent of the mischief caused by excessive drinking.

Perhaps the greatest of all harm is done by the squandering away of money on an article which, whilst unfitting the drinker for work, degrades him to a condition of poverty which means want of the necessaries of life to those dependent upon him. Many thousands of instances of cruelty to children are known to occur annually in this City owing to the neglect and brutality of parents usually reduced to poverty through wasting their money on drink. These children would be without clothes and without food were it not for the action of the charitable. That it is drink, and drink alone, which is so largely responsible for the indescribable misery of so many children is shown by the generally admitted circumstance that it is only when those responsible for them are under the influence of drink that the children are actually ill-used, and that bodily injury is inflicted upon them. The views of the Liverpool Society for the Prevention of Cruelty to Children have found expression in the following paragraph:—

"It is difficult, satisfactorily, to account for the misery with which the Society comes in contact—particularly as of late this question has met with considerably divided opinion—but this Committee are unable to alter theirs, which has not been arrived at hastily, but is the outcome of years of experience, that the main and besetting cause is intemperance. They are fully alive to the fact that if all drunkenness ceased, degradation would still exist; but, with increased temperance and abstinence, the majority of the crime with which this Society deals would be lacking."

The City Council have already given expression to their concurrence with a resolution of the Health Committee in the following terms:—

"That the Health Committee begs respectfully to express its sense of the benefits resulting from the action of the Licensing Justices in diminishing the number of public-houses in the congested parts of the City; but the Committee desires respectfully to call the attention of the Licensing Justices to the injurious effects, poverty, sickness, and bad economic conditions, and loss inflicted upon the community by the continuance of the excessive and unnecessary number of public-houses in those areas which are specially dealt with by the Health Committee and by the Housing Committee of the City Council."

There was no dissentient in the City Council to the views which the resolution expresses, but if any person doubted the accuracy of the conclusions of the City Council on the subject, such doubt would very readily be set at rest by taking note in any district where public-houses are excessive and unnecessary (e.g., amongst many others, in the Brownlow Hill district) of the condition of the squalid, dishevelled women who leave the public-houses, and he will receive further enlightenment if he notes in the case of one or two, or more if he wishes, what sort of homes they go to, what is the condition of the home, and what the condition of the children. He will then be perfectly satisfied that the evils of intemperance are not limited to the person consuming the liquor.

As a result of following to their homes very neglected children, who unfortunately are still so frequently to be seen about the streets, the Female Staff in many instances have been enabled to deal effectively with this form of neglect, which almost invariably is associated with the drunkenness of the mother.

The question of injury to infants and young children whilst in custody of drunken persons received careful attention from the Infant Life Preservation Committee and the Health Committee. The Medical Officer was instructed to report upon the matter, which he did in the following terms:—

"Under Section II of Part I of the Licensing Act of 1902, it is provided that any person who is found drunk whilst having charge of a child under the age of 7 in any public place may be apprehended and dealt with.

"The section has been followed by satisfactory results in Liverpool. What is now required is an extension of the Act, to prevent the evil which results from persons found drunk in *other* than *public* places whilst having the custody of infants and young children.

"It is an exceedingly common thing under such conditions that neglect arises and injury is inflicted; the law amply deals with the punishment of those who inflict such neglect and injury, but what is essentially needed is the power of intervention before the mischief is done, and authority to remove the infant or young child when injury and neglect are probable or impending, from the custody of the drunken persons to a place of safety.

"The action to be taken at the time in respect to the drunken persons themselves is of comparatively little consequence; the cost of the maintenance of the child whilst in the place of safety should be defrayed by the persons whose conduct necessitates removal of the child.

"Under the Act of 1902, the age of the child concerned is restricted to 7 years, but it is desirable to extend this limit of age, say, to 14 in the case of girls and 12 in the case of boys, which is still somewhat below the age referred to in the Prevention of Cruelty to Children Act, 1904.

"It is quite true that the Society for the Prevention of Cruelty to Children does, in dealing with the many thousands of cases of cruelty arising through the drunkenness of the custodians, avert a considerable number more, but the desired amendment of the Act would very materially lessen the cases of the kind with which the Society has to deal.

"The Committee will be familiar with the nature and great extent of the evil which it is desired to remedy, but one or two recent ordinary illustrative cases affecting infants are appended, and reports of the medical examiners of certain schools show the desirability of raising the age limit of protection." The views of the Committee were expressed in the following resolution:—

"That in the opinion of this Committee it is desirable that legislative provision should be made enabling the police or the officers of the Local Sanitary Authority duly authorised in that behalf to enter private premises in cases where they have reasonable ground for suspecting that an inmate of such premises is in a state of drunkenness and that such inmate is in charge of an infant or child under the age of seven years and that injury is probable or impending, and to remove such infant or child to a place of safety, and that a copy of this resolution be forwarded to the Secretary of State and the Members of Parliament for the City with the request that they will support legislation on these lines."

This resolution was subsequently confirmed by the City Council in December, 1907.

A comparison of three Wards in regard to the general death-rate, the proportion of deaths due to excessive drinking, and the proportion of deaths which take place in Workhouses and Hospitals, shows what proportion of the population in times of sickness are dependent upon charitable aid.

	Population.	General Death-rate per 1,000.	Proportion of Deaths in Workhouses and Hospitals.	Proportion of Deaths due to Excessive Drinking.
Exchange	41,168	30.9	50.9 per cent.	3.4 per cent.
Walton	63,017	14.1	19.6 ,,	0.1 ,,
Wavertree	36,018	10.9	21.1 ,,	0.5 ,,

Some further aspects of the general question are alluded to on page 23, where the question of infant mortality is briefly dealt with, and the maps facing page 236, showing the insanitary areas now being dealt with by the Housing Committee, deserve careful attention.

The circumstance that many of the broken down and unfortunate classes from various localities drift into the lodging-houses in Exchange, and so pass on into Workhouses, will not be lost sight of.

CANCER.

The following table indicates the number of deaths from Cancer and kindred diseases during the last fiveyears, and the part of the body affected:-

			2000	100	1 30	- 22	190		-	T
	Total.	700	78	144	89	36	93	19	19	100
1907.	Females.	116	20	125	89	9	18	6	13	3
	Males.	Ξ	88	19	:	30	757	10	t-	000
	Total.	500	85	122	99	37	88	25	20	010
1906.	Females.	121	488	100	99	13	50	14	14	900
	Males.	114	34	61 61	:	24	62	50	9	900
	Total.	254	99	125	54	27	64	21	15	000
1905.	Females.	115	34	107	54	9	13	9	t-	010
	Males.	139	56	18	:	21	51	15	00	970
	Total.	207	19	112	44	24	553	60 04	13	KAR
1904.	Females.	96	40	96	44	10	73	16	60	110
	Males.	111	21	16	:	19	48	16	44	200
	Total.	210	88	133	67	36	88	96	18	199
1903.	Females.	108	55	119	67	6	15	6	10	008
	Males.	102	33	14	:	27	89			696
	DISEASE.	Cancer of Stomach and Bowels	,, Liver	". Urinary and Genera-	,, Breast	" Head and Face	", Tongue, Neck, and Throat	,, Other parts of the Body	". Parts not specified	Total

FEVER AND DIARRHŒA MORTALITY.

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-five years:—

	*Death Rate per 1,000	Deaths from	De	eaths from Fe	ver.
Year.	of Population from all causes.	Diarrhœa.	Typhus.	Typhoid.	Continued.
1883	27.7	541	408	108	24
1884	26.6	841	77	112	16
1885	25.6	422	71	95	16
1886	26.1	781	47	140	11
1887	26.4	619	52	130	12
1888	23.1	431	32	125	4
1889	24.9	575	45	167	
1890	27.5	468	23	99	1
1891	26.8	330	37	92	2
1892	24.4	415	18	111	2 5
1893	26.7	866	44	221	5
1894	23.1	503	50	248	7
†1895	24.8	1,108	24	197	4
1896	21.4	851	36	166	2
1897	22.8	1,482	23	145	2 5
1898	22.2	956	19	148	5
1899	24.1	1,158	13	182	4
1900	23.1	900	11	120	4
1901	21.6	1,269	14	154	3
11902	21.6	611	25	190	2
1903	19.8	657	57	108	
1904	21.9	1,785	25	82	1
§1905	19.2	960	28	49	1
1906	20.2	1,298	8	85	1
1907	18.3	544	18	92	

Mr. Plummer, M.A., F.R.A.S., Astronomer to the Mersey Docks and Harbour Board, has kindly furnished the following tables relating to Meteorological observations made by him at the Liverpool Observatory, Bidston:—

LIVERPOOL OBSERVATORY, BIDSTON, BIRKENHEAD.

Latitude 53° 24′ 5″ N. Longitude 3° 4′ 20″ W. Height above the Mean Level of the Sea 202 feet.

			Rai	INFALL.		
1907.	Barometer. Mean.	Temperature. Mean.	Amount.	No. of days on which '01 in. or more fell.	Mean Monthly Humidity. (Complete Satura tion equal 100).	
	Inches.	Degrees.	Inches.			
January	30.291	39-3	0.989	15	86	
February	29-986	37-7	1.377	13	84	
March	30.114	44.2	1.540	14	75	
April	29.765	46-2	1.440	17	76	
May	29.842	50-6	2.639	21	88	
June	29.776	54.5	4.709	26	83	
July	30.010	57-9	1.911	17	78	
August	29-926	57.9	2.939	18	77	
September	30.104	57.6	0.560	7	77	
October	29.590	49.8	4.194	25	81	
November	29.940	44.6	2.095	19	- 85	
December	29.692	41.0	2.175	17	85	

DIFFERENCE FROM THE AVERAGE QUANTITIES OBSERVED DURING THE LAST 40 YEARS.

	Baroz	TETER.	ТЕМРЕ	RATURE.	RAINFALL.		
1907.	Above Average.	Below Average.	Above Average.	Below Average.	Above Average.	Below Average.	
January	Inches. 0.356	Inches.	Degrees. 0·1	Degrees.	Inches.	Inches 1.205	
February	0.054		***	3.6		0.344	
March	0.222		2.0			0.218	
April		0.133		1.1		0.171	
May		0.123		1.2	0.724		
June		0.216		2.9	2.679		
July	0.063			2.9		0.775	
August	0.012			2.6		0.049	
September	0.155		1.4			2.346	
October		0.282	0.8		0.606		
November	0.042	***	1.4			0.534	
December		0.182	1.1			0.899	

Observations of Velocity of Wind.

1907.	Average Hourly Velocity for Month,	Maximum Hourly Velocity.	Maximu	Date of Maximum Velocity.		Date of Minimum Velocity.
January	Miles, 19·5	Miles. 64	Jan.	29	Miles.	January 8, 9, 16 26.
February	19.2	75	Feb.	20	0	February 1.
March	19:6	72	March	16	1	March 3, 9, 11, 23, 26, 27
April	15.7	45	April 13	, 30	1	April 1, 3, 8, 9, 10, 16, 24
May	15.1	57	May	2	1	May 12, 14, 17, 19, 27, 28
June	18:9	59	June	3	1	June 1, 7, 29, 30.
July	13-1	36	July	80	1	July 10, 12, 14, 18, 26.
August	18.4	47	August	7	0	August 29.
September	11.9	43	Sept.	3	0	September 7, 8, 12, 19.
October	14.1	53	Oct.	15	1	October 4, 5, 11, 27.
November	14.2	74	Nov.	13	0	November 4, 5, 25, 29.
December	18.8	64	Dec.	14	1	December 23.

SANITARY ADMINISTRATION.



SANITARY ADMINISTRATION.

For the purpose of carrying out the requirements of the various Sanitary Acts of Parliament and the Orders, Bye-laws, and Regulations made thereunder, the following staff of the Medical Officer of Health's Department has been employed during the year:—

*Chief Sanitary Inspector				1
*Deputy Chief Sanitary Inspe	ector			1
*Prosecuting Sanitary Inspector	rs			7
*Inspectors for General Sanita	ry Purposes			31
* ,, of Ashpits and As	hbins			2
*Female Inspectors for Genera	1 Sanitary 1	Purpose	S	14
* ,, of Midwive	s			1
* ,, Superintendent of Ste	erilized Milk	Depôts	3	1
,, Assistants at Sterilize	d Milk Dep	oôts		20
§Inspectors of Meat and Anima	ls			4
,, under the Diseases	of Animals	Act		2
** ,, of Fish and Fruit				4
* ,, under the Sale of F	ood and Dru	igs Act		3
* ,, Worksho	p and Shop	Hours A	Acts	3
† ,, , Smoke				3
,, Removing Patient and Disinfecting				11
‡Superintendents of Ambulance	and Disinf	ecting S	Staff	1
,, Disinfectin	g Apparatu	ıs		2
* ,, Wall Pape	er Stripping	Staff		1
Men engaged on ,, ,,	,,	,,		16
*Chief Inspector of Common			let	
Houses				1
***Inspectors of Common Lodgin	g and Sub-le	et House	es	15
*Inspector of Canal Boats				1
* ,, Bakehouses				1
*Inspectors of Cowsheds and M				2
Notice Servers				3
Permanent Clerical Staff		***		24

In every case Officers are selected for these positions, whose previous training and occupation have been such as to fit them for the special

duties they are called upon to discharge. Those marked * are required to hold the Certificate of the Sanitary Institute of Great Britain or a Certificate equivalent thereto; those marked † have Marine Engineers' First Class Certificates, and the ‡ Superintendent Ambulance Inspector holds Sanitary Certificate, and also the Certificate of St. John Ambulance Association. ** Fishmongers by trade. § Butchers by trade; candidates are submitted to practical examination upon the lines which have been indicated in the Report of the Royal Commission upon Tuberculosis. ***Several hold the Certificate of the Sanitary Institute, or an equivalent thereto. || Registered midwife, a fully qualified nurse, and holds diploma of London Obstetrical Society.

The number of occasions upon which the advice and assistance of the Health Department have been sought has decreased during the year. These applications fluctuate slightly year by year; in 1904 they were 9,218, in 1905 8,365, in 1906 8,703, and in 1907 8,279. As in former years, complaint in many cases was made to the Health Department only after repeated requests addressed to the persons causing or allowing the nuisance, or to agents or owners of property, had been ignored. Generally speaking, these complaints arise in connection with jerry-built property. A great deal of the time of the inspectors was taken up by these special examinations.

Requests to examine important public buildings and offices, as well as highly-rented dwelling-houses, have again been very numerous, and the application of the smoke test has in many cases brought to light defects in the drainage system. Requests for the application of the smoke test are frequent, and involve considerable time in carrying out.

What is well known as "insanitary property" is fast diminishing in the city. A good deal of it, however, still remains, necessitating the frequent service of notices to abate nuisances. Owners would do well to demolish property such as this, and erect suitable habitations in their place. By thus co-operating with the Housing Committee, they would rid themselves of the annoyance of receiving notices, and remove centres of disease and degradation from the city.

The following table shows the number of nuisances found by routine inspection or on complaints, and the character of the proceedings taken to abate the nuisances, and the results:—

		1906.	1907.
Number	of Complaints made by Inhabitants	. 8,703	8,279
33	Nuisances discovered on above complaints	. 13,682	12,709
15	" " " house to house inspection	. 72,289	73,379
	Total Nuisances .	85,971	86,088
,,	Notices issued Owners	s 39,283 ers 1,669	39,481 1,579
	Total Notices .	40,952	41,060
,,	Notes to Complainants	. 1,608	1,900
,,	,, sent to comply with notices	. 5,581	5,641
,,		153,408	161,719
,,		78,593	83,378
,,	Visits to Premises under observation	. 1,734	786
,,	Incidental calls	. 37,216	50,276
,,	Informations laid for nuisances	. 374	470
,,	Fined	. 98	140
,,	of Magistrates' Orders	. 163	246
- ,,	Acquitted or Withdrawn	. 113	84

The nuisances dealt with comprise mainly—defective and choked drains, sink waste pipes and spouts; defective roofs; defective flagging and paving; defective water-closet basins, putty joints, walls, floors, seats and doors; defective or dirty cisterns; defective supply pipes; insufficient or no supply of water; defective chimney flues; offensive matter, animals or poultry on premises; also dirty floors, &c.

NUISANCE FROM STEAM WHISTLES.

Serious complaints were from time to time received of the nuisance and injury to health caused by the unnecessary blowing of numerous steam whistles in various parts of the City, both in regard to unnecessary frequency as well as unnecessary duration. In one instance it appeared that a whistle of exceptional shrillness and severity had been frequently turned on in the early hours by the foreman, and allowed to continue perhaps for half an hour or longer. In all instances the persons causing this nuisance desisted from it when their attention was called to the provisions of the Steam Whistles Act, which gives the Health Committee full power to suppress this nuisance.

WATER GAS.

It was found that the gas supplied to the City contained very excessive quantities of carbon monoxide, indicating that water gas was being largely supplied to certain districts. A deputation of the Health Committee waited upon the Gas Company, and the matter was discussed between the two bodies.

It is obvious, in view of the poisonous character of some of the gas supplied, that every facility should be given to householders to have their gas fittings tested by the Corporation Lighting Department, and in the event of any officers of the Corporation Lighting Department finding that his advice in regard to the prevention of the escape of gas through defective fittings is not receiving attention, proceedings under the Public Health Act might possibly be taken.

WATER CLOSET CONVERSIONS AND NOTICES TO PROVIDE ADEQUATE ACCOMMODATION.

During the year the Health Committee took action with a view to cause proper water-closet accommodation to be provided for houses situated in courts.

The result of the action was in many instances to compel the owners to approach the Housing Committee, and a mutual scheme resulted in great improvement to the houses in question. In the majority of instances, however, it is obvious that the only remedy is demolition, and the action of the Housing Committee is tending to effect this end.

									1906.	1907.
No. o	f Privies	reported	l for o	onversi	on				21	2
,,		convert							9	10
	Notices								7	2
,,	,,	to pro	vide	separat	e	accommod	ation	for		
		cour	rt hor	ises					_	195

IMPROVED SANITARY ASHBINS SUBSTITUTED FOR ASHPITS,

		AND	ASHPITS	REI	DUCED	IN	SIZE.		
								1906.	1907.
No. o	of defective	Ashpits	s reported					2,502	2,917
,,	Notices							3,189	3,159
,,	Improved	Sanita	ry Ashbin	s sup	plied			6,673	6,178
,,	Ashpits r	educed	in size an	d cen	nented			128	_

The number of improved sanitary ash-bins supplied in place of old insanitary ashpits is 6,178. In addition, approximately, 1,727 improved bins have been placed in new property.

REFERENCES FROM OTHER DEPARTMENTS.

	1906.	1907.
Received from the Education Department	21,993	22,073
,, City Engineer	8,904	9,794
" Water Engineer	1,859	2,477
,, Lodging-house Inspectors	6,437	7,964

The references from the Education Department relate to school children said to be suffering from measles, whooping cough, ringworm, skin disease, neglect, &c.

The references from the other Departments mainly comprise insanitary conditions discovered by officers belonging to those departments, but with which it is not within their province to deal. The City Engineer's Department continues to report defects in private drains brought to light during the process of systematic flushing.

REFERENCES TO OTHER DEPARTMENTS.

A considerable number of conditions ascertained by the Sanitary Staff to be prejudicial to health were referred to other departments to be dealt with:—

			1906.	1907.
Referred to	City Engineer	 	10,186	10,310
"	Building Surveyor	 	1,871	2,074
,,	Water Engineer	 	5,817	6,579
,,	Education Department	 	29,048	25,095

The references to the Water Engineer comprise mainly, defective fittings, resulting in waste of water; also cases in which the supply was insufficient, owing to various causes.

References to the Education Department chiefly relate to children from infected houses who are attending school, or who are suffering from ringworm, ophthalmia, &c. (See page 125.)

HOUSE TO HOUSE VISITATION.

The following table indicates the results of the systematic house-to-house visitation by the District Male Staff:—

house visitation by the District Male Staff: -		
	1906.	1907.
Number of Inspections of Street Houses	43,752	46,223
" Street Houses found Clean	42,364	44,717
" Apartments in Street Houses Examined	218,089	234,662
" Inspections of Court Houses	2,867	3,029
" Court Houses found Clean	2,575	2,712
" Apartments in Court Houses Examined	8,710	9,583
Total Number of Houses Examined	46,619	49,252
DIRTY HOUSES.	1000	1005
N. J. A.D. A. G. A. H. T. T. A. A. A.	1906.	1907
Number of Dirty Street Houses Inspected	1,388	1,506
,, ,, Court ,, ,,	292	317
,, Cellars Inspected	375	264
, Houses and Cellars Re-Inspected	1,824	1,886
,, Houses and Cellars cleansed on Re-inspection	875	892
,, Notices to Owners to Cleanse Dirty Houses	1,880	2,100
,, Notices to Occupiers to Cleanse Dirty Houses	100	122
" Notices to Owners to Whitewash Exteriors		
of Courts	72	1,109
" Informations	12	31
,, Fined		23
" Acquitted or Withdrawn	- 7	8
Amount of Fines and Costs £3	13 0	£14 16 0
INFECTED HOUSES.	1906.	1907
Number of Infected Street Houses, notified	3,977	6,015
Count	145	288
Callars notified	41	80
visits to infected Houses and College	41	00
(notifiable diseases)	8,826	8,155
,, ,, ,, (school cases)		

EXAMINATION OF CELLARS AND CELLAR DWELLINGS.

		1906.	1907.
Number	of Inspections of Street Cellars	13,807	11,869
. ,,	Street Cellars found disused	223	298
,,	,, ,, used for Lumber, &c	5,688	5,428
,,	,, ,, used as Kitchens	6,296	4,935
,,	,, ,, found illegally occupied	117	59
,,	,, ,, ,, legally ,,	1,483	1,149
,,	Notices issued to Owners	204	112
,,	" " Occupiers	154	65
,,	Inspections of Court Cellars	710	571
,,	Court Cellars found disused	38	56
11	" " used for Lumber, &c	525	476
,,	" " used as kitchens	145	38
,,	" " illegally occupied	2	1
,,	Informations against Street Cellar Owners	3	3
,,	,, Court ,, ,,	1	2
,,	Fined	. 2	3
,,	of Informations against Street Cellar Occupiers	3 1	3
,,	,, ,, Court ,, ,,	1	2
,,	Fined	1	1
	Amount of Fines and Costs £	2 4 6 £2	2 0

The number of cellars filled in by the Health Committee, free of charge to the owners, during the year is 12, and the total filled in during the last ten years is 413.

The total number of cellars let as separate dwellings at present upon the Register is 1,955.

About 6,154 people are at present housed in cellars.

Cellars occupied as dwellings must comply with certain requirements under the Liverpool Improvement Act of 1871, and the Public Health Act of 1875. The requirements of the Act specially relating to Liverpool have been summarised in the report for 1904.

COURT AND ALLEY EXAMINATIONS.

							190	6.		1907	
Number of Inspections of Courts and Alleys						44,7	05	4	12,6	09	
,,		found I r's Instru			cleansed	by	40,6	94	;	37,2	96
,,	Informa	tions						1		_	
,,	Fined							1			
Amounts	of Fines a	nd Costs				£0	2	0	£0	0	0

Special and systematic visits to courts and alleys are made with the object of ensuring the cleanliness of the domestic offices and the surface of the courts. The aim is 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 water-closets 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 the following bye-law, made under the Liverpool Sanitary Act, 1846:—

"First. From and after the day on which these bye-laws shall come into operation, whenever tenants or occupiers of several houses in courts, alleys, streets, and other places within the Borough, have the right to use in common any middenstead or privy, the several persons having such right shall be, and they are hereby required to keep the internal walls, floors, seats, and fittings of such middenstead or privy thoroughly clean, so that the same is not a nuisance or annoyance to any inhabitant of the said Borough.

Second. That if any privy or middenstead so used in common, or the walls, floors, seats, or fittings thereof, or any of them, shall be in such a state or condition as to be a nuisance or annoyance to any inhabitant of the Borough, for want of proper cleansing thereof, as aforesaid, then the persons having the use thereof in common as aforesaid, shall severally be liable to a penalty not exceeding 40s., and a further penalty not exceeding 5s. for every day during which the same shall remain in such state or condition."

But under the Public Health Acts Amendment Act, 1890, somewhat similar proceedings may be taken.

Section 21 of this Act runs as follows :-

"With respect to any sanitary conveniences used in common by the occupiers of two or more separate dwelling-houses, or by other persons, the following provisions shall have effect:—

- (1) If any person injures or improperly fouls any such sanitary convenience, or anything used in connection therewith, he shall for every such offence be liable to a penalty not exceeding ten shillings:
- (2) If any sanitary convenience or the approaches thereto, or the walls, floors, seats, or fittings thereof is, or are, in the opinion of the urban authority or of the inspector of nuisances or medical officer of health of such authority in such a state or condition as to be a nuisance or annoyance to any inhabitant of the district for want of the proper cleansing thereof, such of the persons having the use thereof in common as aforesaid as may be in default, or in the absence of proof satisfactory to the court as to which of the persons having the use thereof in common is in default, each of those persons shall be liable to a penalty not exceeding ten shillings, and to a daily penalty not exceeding five shillings."

The courts and alleys continue to decrease in number, owing to the demolition of low-class property for the extension of business premises, or to the removal of insanitary property by the Housing Committee. The number of courts and alleys scheduled for inspection in 1890 was 2,165, in 1895 it had fallen to 1,660, in 1900 it was 1,195, in 1901 it was 1,159, in 1902 it was 1,074, in 1903 it was 1,042, in 1904 it was 976, in 1905 it was 927, in 1906 it was 857, and in 1907 it was 825, showing a diminution in seventeen years of 1,340 courts and alleys, of which 249 were demolished during the last five years.

During the year all courts and alleys having covered entrances were specially washed and hosed down by the scavengers. Under the Liverpool Sanitary Act the exteriors of all courts and alleys require to be limewashed as often as may be necessary. The number of courts requiring limewashing in 1907 was 702, representing approximately 4,135 houses.

COMMON LODGING-HOUSES.

The Bye-laws require that every case of infectious sickness in a common lodging-house should be at once reported to the Medical Officer of Health. Forty-seven cases of infectious sickness occurred in lodging-houses; with the exception of one case, a daughter of one of the keepers, all the cases were removed to hospital immediately. In all cases the bedding was removed to the disinfecting apparatus, and the rooms purified and cleansed. There were 32 deaths from non-infectious diseases in lodging-houses; 13 of the deceased persons belonged to the keepers' families, and 19 were lodgers.

At the end of 1906 there were on the register a total (including emigration houses) of 439 lodging-houses, and at the end of 1907 the total number was 451, which furnished accommodation for 13,539 lodgers, besides 1,148 members of the keepers' families.

During the year 120 houses were given up and removed from the register, and 132 new houses added, leaving the number on the register 451.

In some of the better-class houses for men, separate cubicles are provided for each lodger, the price paid for them varying from 6d. to 1s. 6d. per night. These cubicles are much more appreciated than the ordinary accommodation provided.

The number of what are known as "model" lodging-houses, for men only, upon the register is 150, and these are registered to accommodate 6,589 lodgers, as well as 266 members of the keepers' families.

The term "model" appears now to be used as a trade designation to indicate premises used for the accommodation of one sex only.

There are also 30 registered model lodging-houses for the accommodation of women only. These have room for 915 lodgers, in addition to 49 members of the keepers' families.

The visits to lodging-houses are both by day and by night. The night visits are almost restricted to the lower districts and commoner class of house. The lodging and emigration houses of the better class, especially those provided only with single beds for each person, and with no more beds than are equivalent to the number of lodgers allowed, are only occasionally visited at night, unless special circumstances necessitate a closer supervision.

Houses which are not licensed either as lodging or sub-let houses are frequently visited by day when such a course is deemed expedient, in order to ascertain whether any grounds exist for putting these houses on the register.

There were 711 visits paid during the year to such houses.

Persons harbouring lodgers in unlicensed premises receive a notice to apply to have the rooms measured and licensed. There were 21 such notices issued during the year.

The number of day visits paid during the year was 21,348, and the night visits 1,237. During the preceding year the day visits were 19,793, and the night visits 878.

Eighty-four informations were laid against keepers of common lodginghouses during the year for the following offences:—

				1906.	1907.
Not sweeping floors				14	28
Not washing floors				13	18
Overcrowding				12	24
Receiving lodgers in unli	icense	d room	s	5	11
Mixing sexes				1	3
Not applying to register				3	_
Total				48	84
				-	*****

Convictions followed in each case, the total amount of fines amounting to £22 4s. 6d., and ranging from Is. and 1s. costs to 40s. and costs. During the preceding year there were 48 convictions, and the fines amounted to £24 17s. 6d.

The number of lodging-houses found dirty was 87; in each case notices were served to limewash and cleanse the premises. All the notices were complied with.

There are 30 houses registered for women, which accommodate altogether about 900 lodgers.

The condition both of labour and lodging-accommodation of the Chinese was brought into prominence during the latter part of February, and a Committee of Inquiry was appointed, which had several meetings and extended its investigations over several weeks.

The Chinese lodging-houses, which have for many years been visited regularly by day and by night, are exceedingly well kept, clean and orderly, notwithstanding that most of the properties are very old. Overcrowding is extremely rare. The Chinese, as a rule, pay every regard to sanitary requirements, and the children of the married Chinese are always well clad and cared for, and very kindly treated.

WOMEN'S LODGING-HOUSE.

During the year a large lodging-house for women was opened by the "Salvation Army."

The premises are situated in Netherfield Road South, and are intended to accommodate working women, such as domestic servants, laundry workers and charwomen.

There is accommodation for 190 lodgers and 10 members of the staff.

Special cubicles have been provided for lodgers who desire them. The charge per night varies from 4d. to 6d.

The matron says there has not been a very great demand for accommodation since the opening of the establishment.

The question of the provision by the municipality of common lodginghouses for women was mooted during the year, the suggestion being that an establishment for women run by the municipality would be free from alleged objectionable features in connection with lodging-houses provided by religious or philanthropic bodies or by private enterprise. Careful investigation, however, showed that there was no special need for the establishment by the corporation of any institution of the kind.

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 Lodginghouses, under the Merchant Shipping (Fishing Boats) Act, 1883, Section 48.

Applications from the keepers of Registered Common Lodging-houses for licenses authorising the designation of such Registered Common Lodging-houses as Seamen's Licensed Lodging-houses, are infrequent, only four such licensed lodging-houses now being on the register; these provide accommodation for 64 seamen.

The number of licenses granted since the adoption of the Seamen's Licensed Lodging-house Bye-Laws is 28.

It has not been found necessary to institute proceedings under the bye-laws in question.

Some years ago the holders of licenses to keep Seamen's Lodging-houses were authorised by the Board of Trade to board vessels and seek for lodgers, and while this privilege was granted there was an advantage in holding such a license, but that privilege being now withdrawn, it does not appear that there is any advantage to the keeper of a common lodging-house to have his premises registered as a Seamen's Lodging-house, and hence probably the small number upon the register.

SUB-LET HOUSES.

These are houses, certain rooms of which are let off to members of more than one family. The bye-laws provide for the registration and inspection in order to prevent overcrowding, and to ensure attention to cleanliness and sanitary requirements.

The number added to the register during 1907 was 669; the number cancelled owing to their being no longer sub-let was 328. The number returned as demolished was 223, making the total on the register on the 31st December, 1907, of 19,832, as against 19,714 at the close of the preceding year.

The number of visits paid to sub-let houses during the day was 94,838, and during the night 22,982, with the result of finding 1,197 rooms overcrowded. In addition to overcrowding, 243 cases of indecent

occupation came under the notice of the inspectors, as against 255 last year; this offence is steadily diminishing. The character of the indecent occupation may be judged of from the following facts:—In 104 instances one man and two women were found in the same bedroom; in 80 instances two men and one woman; in 30 instances two men and two women; in 13 instances one man and three women; in 7 instances three men and one woman; in 2 instances three men and two women; in 3 instances two men and three women; and in 4 instances two men and four women. These cases appear to be the outcome of ignorance and indifference, and not of immoral intent. Under the bye-laws a number of persons have been fined for mixing sexes, and a number, who cannot be reached under the bye-law, cautioned by the inspectors.

With the view of exercising more supervision over sub-let houses, two additional lodging-house inspectors were appointed at the beginning of the year, and extra visits were paid to sub-let houses, with the result that 94,838 day visits and 22,982 night visits, or a total of 117,820 visits were made to these houses during the year; being 12,365 day visits and 4,144 night visits more than in the year 1906.

That the increase in the number of visits has had a beneficial result with regard to overcrowding may be seen from the following table:—

Period.	Number of Night Visits.	Number of Convictions for Overcrowding.	Per centage of Convictions to number of night visits.
Whole year, 1905	19,198	1,326	6.90
Do. 1906	18,838	920	4.88
First Half-year, 1907	11,686	592	5.06
Second do. 1907	11,296	370	8.27

Informations were laid against 1,745 chief tenants and lodgers (roomkeepers) for breach of the bye-laws, viz.:—

Overcrowding			 	 989
Floors not wash	hed		 	 318
Floors not swe	pt		 	 90
Not cleansing s	tairs, &	ic	 	 308
Mixing sexes			 	 40
	Tota	ıl	 	 1,745

Eleven cases were withdrawn, one case acquitted, and in twenty-five cases the defendants had left the premises before the summonses could be served.

As the result of proceedings before the Stipendiary Magistrate, fines were inflicted as follows:—1,230 fined 1s. and 1s. costs; 270 fined 1s. 6d. and 1s. 6d. costs; 82 fined 2s. and 2s. costs; 62 fined 2s. 6d. and 2s. 6d. costs; 2 fined 3s. and 3s. costs; 1 fined 3s. 6d. and 3s. 6d. costs; 25 fined 5s. and 4s. 6d. costs; 33 fined 10s. and 4s. 6d. costs; 2 fined 20s. and 4s. 6d. costs; 1 fined 40s. and 4s. 6d. costs; making a total of fines levied during the year of £236 16s. 6d. Offences against the bye-laws have been more than in the preceding year. There were 4,144 more inspections by night than in the preceding year; the day visits were 12,365 more.

Fifty cases of overcrowding were in respect of premises in the recently incorporated district of Garston, compared with 27 last year.

Night inspections of sub-let houses are for the purpose of detecting cases of overcrowding, or mixing of sexes. The inspectors engaged upon this duty proceed in couples for the purpose of corroboration, and for protection in the rougher quarters of the city. The inspections are made during the night, generally between the hours of 11 p.m. and 2 a.m. Some localities are visited between 4 a.m. and 7 a.m. Prior to the night inspection, a careful house-to-house enquiry is made to ascertain particulars as to the number of inmates, the total number of rooms let in lodgings, the character of the probable overcrowding, and other information as prescribed by the bye-laws. In all cases, a copy of the bye-laws, and a notice indicating the number of persons who may occupy each room, are served upon the chief tenant, and these notices are renewed in the case of a new tenancy.

The gradual diminution in overcrowding led the Health Committee in 1901 to amend the bye-laws relating to sub-let houses, and the City Council, with the sanction of the Local Government Board and on the recommendation of the Health Committee adopted amended bye-laws, which amongst other important provisions contained clauses providing that every lodger above 10 years of age shall have not less than 400 cubic

feet of air space, and every person below 10 years of age shall have not less than 200 cubic feet, but if the room is used as a day-room as well as a bedroom, then every inmate must have at least 400 cubic feet. Under the previous bye-law a space of 350 feet only was required, and two persons under twelve were regarded as one adult.

The new bye-laws came into operation on the 30th January, 1901. One result of these bye-laws—which required so relatively large an addition to the cubic space allowed for each lodger—was to put an entirely new definition upon the offence of overcrowding, and although the great majority of people quickly appreciated the effect of the new bye-laws, yet there was necessarily a considerable increase in the number of persons proceeded against for overcrowding amongst those who neglected to comply with the altered provisions.

The following table shows the number of sub-let houses on the register, the number of night visits for the detection of overcrowding, the number of convictions for overcrowding, and the percentage of cases to the number of visits for the past seven years, i.e., since the application of the new bye-laws:—

Year.	No. of Sublet Houses.	No. of night visits for detection of overcrowding	No. of convictions for overcrowding.	Per centage of cases to number of visits
1901	18,917	17,863	1,351	7.56
1902	19,976	17,274	1,150	6.65
1903	21,719	18,438	1,264	±6·85
1904	22,488	17,886	1,148	6.41
1905	20,518	19,193	1,326	6.90
1906	19,714	18,838	920	4.88
1907	19,832	22,982	962	4.18

The bye-laws as to houses let in lodgings, or occupied by members of more than one family, have been inserted in previous reports.

^{*} This includes the added area of Garston.

The Building Surveyor has kindly supplied the following table:

Number of Houses Erected and Taken Down during the Year ending

December, 1907.

	D	ISTRIC	CTS.			Number erected.	Number taken down
Scotland	***			***		 123	51
Exchange		**				 	129
Abercromby						 	24
Everton						 	15
Kirkdale			***			 	4
West Derby	(West)					 93	29
Toxteth			***	***		 305	62
Walton	***					 394	8
West Derby	(East)		1.17			 536	43
Wavertree						 582	20
Sefton Park						 10	
Garston						 251	_
Fazakerley					***	 48	1
				Totals	* * * * *	2,342	386

The City Engineer has kindly supplied the following:-

Number of	cellars	filled in	and	bricked	up	during	1907			 12
**	.,	.,		**			the la	st 10	years	 413

SEWER VENTILATION TO END OF 1907.

Number of 9-inch by 6-inch, 9-inch, 6-inch, 6-inch by 4-inch,	4-inch	by	
4-inch, 4-inch, and 3-inch Iron Pipe Ventilating Shafts			1,688
Number of Street Ventilating Manhole Covers and Gratings			6,689

CANAL BOATS.

The number of inspections of canal boats during the year was 6,030, and the condition of the boats and their occupants, as regards matters dealt with in the Acts and Regulations, is indicated by the following information:—

Eleven boats, not registered by their present owners, were found to be used as dwellings. Written notices were sent to the owners in seven cases, and four verbal notices were given. Ten notices were complied with, and one boat has not been seen in the district since.

Twenty-one boats were found without certificates on board. Notices were sent to the owners in twenty cases, and one verbal notice was given. Nineteen of the notices were complied with, and two have not been re-inspected.

Eighteen boats were found without the registered number painted on both sides of the boat. Notices were sent to the owners in each case, and the omission has been rectified in sixteen cases. Two boats have not been seen in the district since.

In ten cases defective second bulkheads were reported. Notices were sent in each case, and all were complied with. In three cases where boats were found to be carrying offensive cargo without second bulkheads, notices were served upon the owners to provide second bulkheads. In lieu of this, however, the owners had the boats thoroughly cleansed, and discontinued carrying offensive cargo.

In twenty-two boats the cabins required re-painting. Notices were sent to the owners in each case, and nineteen were complied with. Three boats have not been seen in the district since. Dirty cabins were reported in ten cases. In six cases verbal notice was given to the masters, and in others written notices were sent to the owners. In seven cases the notices were complied with, and three not being complied with, informations were laid against the masters and small fines inflicted. The cabins were subsequently cleansed.

Besides the foregoing, there were 72 instances of infringements of the Acts and Regulations, caused by leaky decks (33), general leaky condition of boat (1), broken lids to lockers (4), broken scuttle covers (4), defective ventilation (2), broken floors (5), no water casks on board (17), defective stoves (4), removal of bilge water (2). Sixty-four notices were sent, and three verbal notices were given to the owners in respect of the above infringements. Fifty-nine of the notices were complied with, and eight have not been re-inspected.

Informations were laid in 11 cases, viz., dirty cabins (3), overcrowding (2), mixing sexes (5), not having registered number painted on boat (1). In each case fines were inflicted, varying from 1s. and 1s. costs to 10s. and 4s. 6d. costs. The total amount of fines was £4 9s 0d.

One case of Typhoid fever occurred on a canal boat during the year. The patient, the mate of the boat, was removed to hospital. The cabin and bedding were disinfected, and the usual certificate of disinfection was given to the master.

The entire number of infringements of the Acts and Regulations referred to in the report occurred on 115 boats, in several instances the offence being repeated on the same boat.

Twenty notices were sent to the Education Committee of 24 children living on canal boats and not attending any school.

The number of boats on the register is 596. Forty-two boats have been removed from the register, as it was ascertained that one had left the district and 41 have been broken up. It is probable that other boats have been broken up, or have left the district, but in the absence of definite evidence of this the boats remain on the register. During the year 13 new boats were registered, and 27 re-registered on account of changes of owners, 2 re-registered on account of structural alterations, and 4 re-registered on account of change of owners and name. All boats re-registered on account of change of owners, or the name of the boat being changed, or on account of structural alterations, retain their original numbers. Copies of the registration certificate were issued to the owners of six boats, owing to the original ones being worn out.

In 1898 the Canal Boat Inspectors were appointed as Port Sanitary Inspectors, an appointment which authorised them to inspect all classes of boats, as a difficulty arose in regard to certain boats plying upon the canal which were not registered under the Canal Boats Acts, but which had been registered by the Board of Trade under the Merchant Shipping Act. Thirteen visits were made to boats of this class, and all were found correct.

In 1903 the Port Sanitary Inspectors were appointed as Canal Boat Inspectors. This appointment authorised them to inspect canal boats which ply to and from the docks and on the river. During last year these Inspectors made 773 visits, which are included in the foregoing report. The number of contraventions for which notices were served on the owners was 55 on 36 boats. One notice sent to the Education Committee.

SMOKE NUISANCES.

Proceedings for the abatement of Nuisances caused by the emission of excessive smoke from factory chimneys or from steamers, were taken under the Liverpool Sanitary Amendment Act, 1854, sections 24 and 25, the Liverpool Improvement Act, 1882, section 77, and the Liverpool Corporation Act, 1902, section 57, with the following results:—

220, 2002, 200				8		1906.	1907.
Number of reports of exces	sive smoke	e from	Manufa	ctori	es	266	222
,, ,,	,,		Steame			302	259
" "	,,		,,		dock	44	27
	Total			•••		612	508
Admonished by the He	ealth Com	mittee	or wr	itten	to in	respe	ct to
nuisances caused by the er	nission of	excess	ive smol	ce:-			
						1906.	-
Manufacturers						1	12
Steamship Owner	'S	• • •				23	6
	Total					24	18
			1906	S.	19	007.	
Chief Inspector and Assista	nts gave M	I'factu	rers 420	Cau	tions 3	91 Ca	utions
" "		eamsh Owne	ip) 105			99	"
	${\rm Total}\dots$		52	5	,, 4	90	,,
Number of enquiries respe-	cting Own	ers	465	2	4	50	
						1906.	1907.
Informations against Manu	factories					271	210
	ners in rive	er				261	201
,, ,, ,,	3	k				44	27
	Total					576	438
Acquitted or withdrawn, M	anufactori	es	***			15	6
,, ,, St	eamer case	es				14	5
	Tota	1 .				29	11

Fined	ł, Manu	factor	ies			 				$\frac{1906}{256}$		204
,,		ners				 				291		223
				Г	otal	 				547		427
											-	
						1	906.		190	7.		
1	Amount	of Fin	ies, N	Ianu	factories	 £517	10	0	£437	18	0	
	,,	,,	5	Steam	iers	 562	2	3	466	14	3	
				п	'otal	£1 079	19	3	£904	19	3	

It is the duty of the Police to deal with nuisances arising from the firing of domestic chimneys.

SMOKE INSPECTION.

The falling off in the number of reports relating to excessive smoke still continues.

The efforts made by manufacturers to diminish the emission of excessive smoke from the chimneys of their respective works has led them in several cases to adopt a form of mechanical furnace known as the "sprinkler," combined with a system of forced draught. Wherever such a combination has been installed it has caused a very fine, charred, gritty dust to be sent out from the chimney.

Unlike smoke, this dust cannot be seen while it is actually issuing from the chimney, and very careful observations have, therefore, to be taken by the Inspectors, so as to definitely determine the source from whence it comes.

In each case where a complaint has been made the source of the annoyance has been successfully traced, and various means have been adopted to prevent it, such as the provision of dust chambers and waterlutes in the flues, with appliances for frequent cleansing; but the most lasting benefit has accrued where the use of the type of furnace alluded to has been discontinued.

On the 16th February, 1907, a complaint was received of the emission of dust from chimneys in Vauxhall Road, causing damage to the paintwork of the Corporation Dwellings in the Hornby Street area. After a series of careful observations, the Inspectors found dust being emitted from one of the chimneys—the south one—belonging to a firm of Distillers in Vauxhall Road. As the result of a claim made by the Town Clerk's Department, on behalf of the Housing Committee, for damages, the firm paid the amount claimed—£21—and did not defend the case.

Complaints were from time to time received from residents of Cressington and Aigburth that an excessive and unnecessary quantity of smoke was emitted from tugs and steamers on the Mersey going to or coming from Garston. The complaints were general in character, and the complainants were requested to specify any particular case. One of the complainants subsequently identified a vessel, and appeared in Court in support of the information. This was in addition to the cases reported by the Inspectors in the course of their routine duty.

Out of 259 cases of excessive smoke from Steamers in the river which were observed, 39 vessels were bound for foreign ports, the owners of 5 Steamers could not be traced, and 5 were towing other vessels in emergency, and consequently no proceedings were taken.

Complaints received of	smoke	from	defe	ctive	house	flues,	1906.	1907.
and from low chimn	neys .						128	141
Visits relating thereto .							699	830
Chimneys raised in cons	equenc	e of co	ompla	aints			24	26
Flues altered and repaire	ed .						26	22
Attention promised .							63	89
Referred to other departs	ments.						4	2
Frivolous complaints .							11	1
Dust Screens provided							_	1
	Total	compla	aints	dealt	with		128	141

The smoke in our atmosphere is entirely produced by the combustion of coal in domestic firegrates, steam boiler furnaces, and other furnaces used for manufacturing processes.

It is a common error to lay the blame of the pollution of the atmosphere by smoke entirely upon the factory chimney, and this is no doubt due to the fact that it is more easily noticeable than the individually small quantities of smoke which are emitted from the chimneys of dwelling-houses, and which reach a very large amount in the aggregate.

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, 1907.
10 and 12, Druid Street	Soap Manufacturing	1	_	May 9th
2, TapleyPlace	Bone Boiling	1	-	Nov. 22nd
28 to 32, Mile End	Bone Boiling and Sweet Fat Melting	1	_	Nov. 28th
1, Freemason's Row	Soft Soap Manufacturing	1	_	Dec. 19th
	Total	4	_	

In cases in which permission is granted, conditions are imposed requiring that the premises be put in proper order to the satisfaction of the City Engineer, Building Surveyor and Medical Officer of Health, that no public or private nuisance be caused, and that the business be discontinued whenever the Council shall so require.

The number of inspections of premises where offensive trades are carried on was 1,540, as against 1,541 in 1906.

						1906.	1907.
Total No. of	Visits to	Bone Boilers				153	147
**		Fell Mongers				46	50
,,		Soap Boilers				239	238
"		Fat and Tallow	Melters			289	320
,,		Tripe Boilers .				199	207
,,,		Gut Scrapers				141	130
,,		Ham Cooking	and Po	tted N	leat		
		Works				63	56
11		Patent Manure 1	Manufact	urers		17	13
.,		Tanneries				95	115
.,		Knackers' Yards				162	123
,,		Paint and Resin	Works	***		18	20
,,		Palm Oil Works				22	24
11		Cotton Seed Oil	Works			36	44
31		Sulphuric Acid V	Vorks			23	23
,,		Liver Boilers				_	2
,,		Butter Substitute	Manufa	cturers		17	20
,,		Preserved Skin	Works			21	8
		Total				1,541	1,540

KNACKERS' YARD, CARRUTHERS STREET.

THE ANIMAL SLAUGHTERING CO.

The Health Committee have licensed the above Company and premises to destroy carcases of animals affected with contagious disease in accordance with the Orders of the Board of Agriculture and Fisheries.

Carcases of horses and cattle are destroyed under the supervision of an Inspector of the Public Health Department at the Knackers' Yard, where specially tested iron pans with covered lids have been erected for the purpose. The carcases are placed in the tanks intact, sulphuric acid added, and steam applied until a temperature of 250° to 260° Fahr. is reached. An exhaust pipe conveys steam and all offensive odours to the furnace, thus preventing any nuisance arising.

The carcases of horses which are destroyed on account of old age or minor complaints are also dealt with on these premises.

The following are the Returns for 1907 :-

Horses	Horses taken	Asses	Cows	Other	TOTAL.
Destroyed.	in Dead.	Destroyed.	Destroyed.	Beasts.	
155	1,613	26	108	_	1,902

MARINE STORES.

Number of Visits by District Sanitary Inspectors ... 1,155 1,406

(For visits by Workshop Inspectors, see page 107).

STABLES.

On the instructions of the Health Committee an investigation was undertaken by Mr. Robert Newstead, of the University of Liverpool, into the Life History of the Common House Fly. In view of the obvious mischief occasioned, the investigation was specially directed to the nuisance arising from stables, &c.

Number of Visits to stables by District Sanitary	1906.	1907.
Inspectors	5,035	9,331
RAILWAY CARRIAGES.		
	1906.	1907.
	1,046	1,056
found dirty	_	-

FEMALE SANITARY STAFF.

The character of the work of the Female Sanitary Staff has practically undergone no change, so far as the routine house-to-house visitation is concerned. More attention, however, has been paid to court houses and cellar dwellings, with the result that a large number of families found living under circumstances which were detrimental to health were dealt with. These conditions, apparently the result of neglect and indifference, were chiefly due to the intemperate habits of the occupants or those in charge of the house. Frequent visits were paid to these cases, and a very noticeable improvement has taken place, which on the whole appears to be of a permanent character.

With regard to the Corporation Dwellings, these have been visited systematically, and it is found generally that more interest is taken in domestic affiairs by the occupants than was shown by them before they were dispossessed from their old insanitary habitations. Their changed surroundings and environment has undoubtedly had a salutary effect with regard to personal cleanliness; and in addition to this there is a transformation in many of the homes, the money which was formerly expended on drink being devoted to the needs of the families and to the furnishing of their houses.

The statistics for the year show a marked decline in infant mortality. During the year upwards of 20,000 visits have been paid to newly-born infants, and in each case a card of instructions relating to the care and proper feeding of the child was left with the mother.

Although a number of births were visited before registration, yet it was found that a great many suitable cases were not seen by the Inspectors until after registration. With the advent of new powers, however, viz., the Notification of Births Act (which comes into operation early in 1908, and which provides for the notification of every birth to the Medical Officer of Health within thirty-six hours of its occurrence), the Inspectors will be enabled to visit all suitable cases at a much earlier period, and to give such advice and attention as may be necessary at a time when it is most needed. With regard to delicate children, parents frequently seek the advice of the Inspectors as to the manner of feeding, and the methods to be adopted to ensure an improved condition of health.

The long-tubed feeding bottle as a means of artificial feeding is becoming less common, and its discontinuance is mainly due to the fact that parents are realising the danger which is occasioned by its use.

Wherever it is possible for the infant to be breast-fed, the mother is urged to adopt this method. In deserving and urgent cases, where lack of breast milk has resulted from privation, pure fresh milk has been given to the mother.

Generally speaking, there has been a marked improvement in the condition of infants; their parents, anticipating a visit from the Inspector, appear to take extra precaution against dirt and neglect.

There are, however, instances in which the mother takes little or no interest in regard to the welfare of her offspring, and in cases such as these the infant is given "anything that is going," such as biscuits, "pobs," and a variety of other foods of an unsuitable nature. In many cases even gin, beer and other intoxicants have been given by the mothers to their infants, and this in itself is sufficient to show the great amount of ignorance which still prevails amongst parents in certain districts of the City, and which still remains to be dealt with by the staff. Needless to say, the parents themselves in most of these cases are more or less addicted to drink, and this in a great measure will account for their neglect of, and indifference to, the needs of their families.

In November a Conference was called by the Home Secretary to discuss the best means of instituting an inquiry into the relationship between infant mortality and the industrial occupation of women.

At the Conference a certain plan of inquiry was agreed upon, and the Health Committee authorised the investigation to be proceeded with, so far as Liverpool was concerned.

As a general rule, the advice given by the Inspectors is kindly taken, and subsequent visits show an improvement in many ways, although there are exceptional cases which require great attention and frequent visiting.

In the case of illegitimate children, where the mother is unable to provide for the wants of the baby, suitable advice with regard to its future welfare, &c., is offered. Miss Whishaw, Sunny Bank, Arnside, has rendered valuable assistance in this particular, finding homes for many unwanted babies.

With regard to School work, it will be seen from the statistics that there has been a great increase in the number of school cases reported, and this work has engaged a considerable amount of the time and attention of the Inspectors. Sore heads, sore eyes and skin diseases are amongst the principal ailments which are dealt with, while cases of general neglect are found to be of fairly frequent occurrence.

The following table shows the number of cases visited on account of certain ailments of school children:—

	1906.	1907.
Ringworm	1,280	1,977 285
Itch	93 4,191	3,404
Sore Heads	1,828	2,090
Impetigo, Eczema and other Skin Diseases	3,028	4,845
Total	10,420	12,051

Although most of these cases are reported from the Education Department, yet a very large number are referred to the Office of the Medical Officer of Health by nurses, and others who are more or less in daily contact with children, such as teachers, visitors, &c., and also by private individuals.

The homes are visited and the parents are given instructions as to cleanliness and general conditions, and where these instructions are carried out improvement usually results. In all cases, except the most simple, the parents are advised to seek medical assistance.

In addition to the cases shown in the above table the staff have made enquiries with respect to 4,550 school children who exhibited evidences of parental neglect in the shape of dirt, verminous conditions, insufficient food or clothing, untreated injuries, &c. The majority of these cases were referred to them by Dr. Kingsford, but the teachers and school nurses were also frequently the sources of the information.

Where clothing has been found to be verminous, it is insisted that it shall be thoroughly cleansed and boiled. In a number of instances the dirty clothing was found to be worn out and almost useless. This was destroyed, and replaced by a new supply obtained through the agency of the Police Aided Clothing Association.

As hitherto, families have been visited on behalf of the Police Aided Clothing Association with a view to ascertain the habits and circumstances of the parents, and inquiries have been made into cases of neglect reported by the Association's visitors.

Many cases of systematic and wilful neglect were found, and these in the usual course were reported to the Society for the Prevention of Cruelty to Children.

From time to time cases of epidemic diarrhoa have been reported by the Dispensary Doctors, and in a number of instances where poverty or other circumstances rendered it undesirable to treat the case at home provision has been made for its reception at the City Hospital, Fazakerley. This course was followed with good results.

Cases of phthisis, also, amongst children and adults which came to the notice of the Inspectors from various sources, and which were found to be in want of skilled treatment, were also helped, and in many instances admitted to the Fazakerley Hospital. These patients, after their discharge from hospital, were visited and kept under observation for as long a period as thought necessary.

Many children recovering from illness and those requiring change have been assisted into the Convalescent Home at West Kirby and the Summer Camp at Wallasey, whilst children mentally deficient have been helped to suitable homes.

Girls have been received into training homes, and many others on leaving school have had situations found for them.

Infirm and old people who were unable to look after themselves, and others who from one cause or another were living in a dirty or verminous condition, were induced to go into the workhouse or hospital.

Verminous conditions have been dealt with, the bedding, &c., being stoved; whilst in cases considered suitable the old bedding was destroyed and new supplied.

Many individuals or families needing the help of either the Charity Organisation Society or the Relieving Officer have been dealt with in the usual way, whilst many found to be suffering from illness and in want of attention were referred to the Queen Victoria District Nursing Association. Statistics relating to the work performed by the Female Sanitary Staff during the year will be found appended.

STATISTICS OF WORK DONE BY FEMALE SANITARY STAFF.

-		and the later of t		A STREET, SQUARE, SQUARE,	NAME OF TAXABLE PARTY.	-
					1906.	1907.
Number of	Street Houses visited				7,192	7,508
,,	Court ,, ,,				772	1,654
,,	Cellars				1,036	2,202
,,	Families found dirty				554	1,186
,,	Re-visits to Families				2,403	2,847
,,	Houses found dirty				2,497	3,346
,,	Cellars ,, ,				356	547
,,	Notices issued to cleanse	dirty	premis	es	8	4
**	., ., .,		floors a		27	38
	References to District Sa	anitar	y Inspec	ctors	1,494	1,407
	,, ,, Lodging-h	ouse !	Inspecto	rs	94	86
11	,, ,, Artizans'	Dwell	ings Del	ot	5	
,,	,, ,, City Engin	neer			120	55
,,	., ,, Water En	gineer	r		117	91
,,	,, ,, Education	Com	mittee		11,059	9,290
,,	,, The Shelt	er, Isl	lington		78	169
	Sterilised Milk Depôt Vi	isits			_	8
,,	Visits to School Cases				12,336	16,604
,,	Revisits ,, ,,				_	938
11	Visits to Schools				70	155
,,	Police Aided Association	Visit	s		97	228
,,	Central Relief Society Vi	isits			13	10
,,	Visits in Diarrhœa Cases				1,377	469
,,	Visits relative to Births	regist	ered		20,409	20,097
,,	Revisits ,, ,, ,,	,,			_	977
,,	Special Visits				1,688	2,002

FACTORY AND WORKSHOP ACT, 1901.

BAKEHOUSES.

The sanitary control of Bakehouses is dealt with under the Factory and Workshop Act and Public Health Acts; the regulations prescribed were set out in the Annual Report for 1904.

By Section 133 of the Workshop Act, 1901, if any child, young person, or woman is employed in a bakehouse, the Medical Officer shall, on becoming aware thereof, give a written notice to His Majesty's Inspector of Factories.

Where any room or place used as a bakehouse is in such a state as to be, on sanitary grounds, unfit for use as a bakehouse, the occupier is liable on summary conviction to a fine not exceeding forty shillings.

Twenty-seven bakehouses were added to the Register during 1907, 18 are new ground-floor bakehouses for bread-bakers and confectioners; the remaining 9 are confectioners only.

During the year seven plans were submitted and approved of for ground-floor bakehouses.

Nur	nber of	Bakehouses on Register, 31st December, 1907	7	 871
	,,	Bakehouses added to Register during 1907		 27
	,,	Bakehouses struck off Register during 1907		 12
	,,	Visits paid to bakehouses		 4,486
	,,	Bakehouses found dirty (walls and ceilings)		 421
	**	Notices issued for lime-washing		 130
	,,	Bakehouses lime-washed without notice		 291

Number of	Notices	issued	to remove drains from within bakehouse	3
,,	,,	,,	to repair defective floors and walls	1
,,	,,	,,	to cleanse floors, windows, areas, tables and troughs	13
,,	,,	,,	to discontinue using bedroom opening directly into bakehouse	3
**	,,	,,	to provide water-closet accommodation	3
"	,,	,,	,, separate water-closet accom- modation for the sexes	1
,,	,,	,,	to cease to use as bakehouses places underground not in conformity with Act, 1901	1
Number of	Referen	ces to	Government Factory Inspector	22

All the above notices were complied with by the owners or occupiers.

UNDERGROUND BAKEHOUSES.

Underground bakehouses are dealt with by special provisions of the Factory and Workshop Act, 1901, which came into force on 1st January, 1904.

By an underground bakehouse is meant a bakehouse, any baking room of which is so situate that the surface of the floor is more than three feet below the surface of the footway of the adjoining street, or of the ground adjoining or nearest to the room. The expression "baking room" means any room used for baking, or for any process incidental thereto.

Details of the requirements of these premises will be found in the Annual Report for 1905.

The number of underground bakehouses on the register at the end of the year was 187. Since the passing of the Act in 1901, two hundred and thirty-eight underground bakehouses have ceased to be used for baking purposes.

Administration of the Factory and Workshops Act, 1901, in connection with

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK.

The following Tables are prepared by request of the Secretary of State :-

1.—Inspection.

Including Inspections made by Sanitary Inspectors.

Premises.	Number of								
Fremises.	Inspections.	Written Notices.	Prosecutions						
Factories (Including Factory Laundries.)	170	62	_						
Workshops (Including Workshop Laundries.)	14,332	1,657	10						
Workplaces (Other than outworkers' premises included in Part 3 of this Report.)	803	113	~						
Total	15,305	1,832	10						

2.-Defects Found.

Particulars.	Nun	Number		
Latticulars.	Found.	Remedied	Referred to H.M. Inspector.	Prosecu- tions.
Nuisances under the Public Health Acts:—*				
Want of cleanliness	100	796	_	3
Want of ventilation	31	26	-	-
Overcrowding		5	-	-
Want of drainage of floors		3		-
Other nuisances	1,618	1,366		4
Sanitary accommodation (insufficient unsuitable or defective		32	_	2
not separate for sexes		27	_	_
Offences under the Factory and Workshop Act:				
Illegal occupation of underground bakehouse (S. 101)	3	3	_	_
Breach of special sanitary requirements for bakehouses (SS. 97 to 100)	424	424	_	-
Other offences (Excluding offences relating to outwork which are included in Part 3 of this Report).		-	-	-
Total	2,941	2,684		10

^{*}Including those specified in Sections 2, 3, 7 and 8, of the Factory and Workshop Act as remediable under the Public Health Acts.

3-Home Work.

						10	5									
K ED S, 110.		ecution is 109, 1			(18)	1	1	ı		ı	ı	1	1	1		1
OUTWORK IN INFECTED PREMISES, SECTIONS 109, 110.		rs made . 110).)	(17)		ı	1	1		1	1		i		60
IN IN PI SECT		'səəuv;	suI		910	65	1	I	1	1	1	1		1		00
SOME ES. 108.	,	suojino	0801,	ď	(12)	1	1		ı	I		I	Į	1		
OUTWORK IN UNWHOLESOME PREMISES. SECTION 108.	ъ.	evies s	otice	PΚ	(14)	1				I						1
OUT UNW PE SEC		spoces.	suI		(13)	1					1	ĺ				1
	1	to tedi o sverkers			(12)	1,370										1,370
	utions.	esug.	sisir or St	rilia'T	(11)	53		1	1							53
	Prosecutions	keep hists,	or Br	Faillir Terr Toort	(10)	1	1	1	I	1	I	1			1	1
107.	Numbers of Addresses of Outworkers forwar-ded to other Conncils.				(6)	84	1				I					84
SECTION 107.	Numbers of Addresses of Outworkers received from other Councils.			(8)	85	1						1			8	
LISTS, SI	car.	orkers.	Work- men.	(E)	36	1	1	1	1	1					98	
RS. LI	ployers.	a Employers.	a Outworkers.	Con- tractors.	(9)	121	1	1	-	Ì	ľ		1	1		121
OUTWORKERS'	rom Em	Once		Lists.	(5)	7	1	1	I	1	1	1				7
OUTV	Lists received from Employers.	year.	orkers.	Work- men.	(4)	1,334	1	1	I	1	-	1	1	1		1,334
	Lists re	Twice in the year.	a Outworkers	Con- tractors.	(8)	1,871	4	4	22	C3	C3	4	G1	36		1,937
		Twic		a Lists.	(2)	522	1	1	67	1	1	C7	1	1		526
		* NATURE OF WORK.			(1)	Wearing Apparel— (1) Making, &c.	(2) Cleaning and Washing	Sacks	Furniture and Upholstery	Fur Pulling	Umbrellas, &c.	Paper Bags and Boxes	Basket Making	Electro-Plate		Total 526 1,937 1,334

The lists are included among those in column 2 against the * Several Employers give out work of more than one of the classes specified in column 1. principal class only, but the outworkers are assigned in column 3 into their respective classes. a The figures in columns 2, 3 and 4 are the total number of lists preceived from employers who sent them both in February and August as required by the Act) and of the entries of names of outworkers in those lists. They will, therefore, usually be double of the number of such employers and (approximately) double of the number of individual outworkers whose names are given, since in the February and August lists of the same employer the same outworker's name will often be repeated.

4-Registered Workshops.	5.—Other Matters.	
Workshops on the Register (S. 131) at the end of the year.	Number.	Number.
Workshops	Matters notified to H.M. Inspector of Factories:— 8,422 Failure to affix Abstract of the Factory and Workshop Act (S. 133)	22
Cooking Kitchens of Restaurants		107
	shop Act (S. 5) H.M.Inspector	107
Department	Other	126
	Underground Bakehouses (S. 101)	
	Certificates granted during the year	1
Total number on Register	4,627	176

FACTORY AND WORKSHOP ACT, 1901.

The Inspectors appointed under the above Act for sanitary purposes have visited a large number of Workshops and Workplaces, the summary of which is appended:—

SUMMARY OF VISITS PAID TO WORKSHOPS AND WORKPLACES.

Bamboo Workers 4 5 Basket Makers 23 26 Block Makers 5 10 Boot Makers 595 666 Bottlers 51 29 Bottle Washers 3 1 Box Makers 26 19 Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879 Drysalters 60 <t< th=""><th>Marine Stores Mattress and Bed Makers Metal Polish Makers Milliners Mineral Water Manufacturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers Pipe Mounters</th><th>733 23 18 209 23 10 47 53 75</th><th>570 9 9 247 12 15 21 41</th></t<>	Marine Stores Mattress and Bed Makers Metal Polish Makers Milliners Mineral Water Manufacturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers Pipe Mounters	733 23 18 209 23 10 47 53 75	570 9 9 247 12 15 21 41
Block Makers 5 10 Boot Makers 595 666 Bottlers 51 29 Bottle Washers 3 1 Box Makers 26 19 Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 C hemists' Sundries Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Mattress and Bed Makers Metal Polish Makers Milliners Mineral Water Manufacturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers	23 18 209 23 10 47 53	9 9 247 12 15
Boot Makers 595 666 Bottlers 51 29 Bottle Washers 3 1 Box Makers 26 19 Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Milliners Mineral Water Manufacturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers	18 209 23 10 47 53	9 247 12 15
Bottlers 51 29 Bottle Washers 3 1 Box Makers 26 19 Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Milliners Mineral Water Manufacturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers	209 23 10 47 53	247 12 15
Bottle Washers 3 1 Box Makers 26 19 Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 C hemists' Sundries 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Mineral Water Manufacturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers	23 10 47 53	12 15 21
Box Makers 26 19 Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 C hemists' Sundries Manufacturers 19 Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	facturers Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers	10 47 53	15 21
Brush Makers 42 42 Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 C hemists' Sundries 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Musical Instrument Makers Paint and Varnish Manufacturers Paper Cutters, &c Photographers Pickle and Sauce Manufacturers Picture Framers	10 47 53	15 21
Cabinet Makers and Joiners 764 831 Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	facturers	47 58	21
Canned Goods 76 82 Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	facturers	58	
Cap Makers 23 21 Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Paper Cutters, &c		41
Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries Manufacturers 19 Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Photographers	75	
Card Gilders 16 — Carvers and Gilders 60 74 Chair Makers 35 38 Chemists' Sundries Manufacturers 19 Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Pickle and Sauce Manu- facturers	10	49
Chair Makers 35 38 Chemists' Sundries 19 19 Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	facturers Picture Framers		3.0
Chair Makers 35 38 Chemists' Sundries 19 19 Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Picture Framers	63	66
Chemists' Sundries Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879		54	75
Manufacturers 19 19 Coach Builders 87 59 Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879		18	14
Confectioners 116 54 Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Plumbers	87	89
Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Preserve Manufacturers	2	_
Coopers 121 152 Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Relief Stampers	6	9
Cork Cutters 60 29 Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Restaurants	754	808
Cotton Sorters 126 97 Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Rubber Goods Manufacturer		34
Cycle and Bassinette Makers 90 89 Dentists 6 1 Dressmakers 745 879	Sack and Bag Makers	116	122
Dentists 6 1 Dressmakers 745 879	Saddlers	99	82
	Sailmakers	36	22
	Sign Writers	36	36
Drysalters 60 59	Smiths	508	445
Electricians 5 7	Tailors		2,312
Engravers 71 61	Tarpaulin Makers	73	2,012
Firewood Manufacturers 17 9	Trunk and Portmanteau	10	40
Fish Curers 8 19	Makers	67	64
Flag Makers 19 12	Umbrella Makers	18	32
French Polishers 83 96	Underclothing Makers		218
Furriers 17 15	Upholsterers	155	157
Galvanisers 8 15	Watchmakers and Jewellers		133
Image Makers 5 · 14	Wheelwrights		97
	Wig Makers	24	14
	Wire Workers	29	133
	Various		24
Marble Masons	Tarrous	318	259

FACTORY AND WORKSHOP ACT, 1901.

FACTORIES.

Factories include all places in which mechanical power is used in aid of the manufacturing processes.

The 170 inspections of Factories referred to in the foregoing tables represent 49 Factories, which were inspected by the District Sanitary Inspectors principally as a result of complaints being received. The duty devolving upon the Health Department in connection with Factories is the enforcement of the provision of suitable and sufficient sanitary conveniences.

WORKSHOPS.

Workshops include any premises (not being Factories) in which manual labour is exercised by way of trade, or for purposes of gain in, or incidental to, the making, altering, repairing, finishing or adapting for sale of any article, and to or over which the employer of the persons working there has the right of access or control.

The Workshop Inspectors made 9,846 inspections of Workshops, and on 3,292 occasions the premises were found to be incorrect. The number of inspections in 1906 was 9,830. This does not include bakehouse workshops visited by the Bakehouse Inspector.

A large number of new workshops have been added to the Register. One hundred and eighty-five workrooms have been measured during the year, as compared with 117 in 1906.

WORKPLACES.

Workplaces include any place where work is done permanently, and where people assemble together to do work permanently of some kind or other. The kitchens of restaurants, &c., though they are not workshops, come within the meaning of the term "workplace." 803 visits were paid during the year to the kitchens of restaurants by the Workshop Inspectors; on 222 occasions the premises were incorrect. The number of visits in 1906 was 755. Attention is being particularly paid to the nuisance arising from the removal of swill, and the Inspectors make a practice of visiting the premises early in the day when the swill is generally removed.

The nuisances found were in most instances remedied on notices being served, but in several cases it was necessary to take further proceedings, with the result that fines amounting to £5 15s. 6d. were inflicted. The fines in the previous year amounted to £15 2s. 0d.

Several defects were found which could not be dealt with by this Department, and they were referred to the City Engineer, Water Engineer and the Building Surveyor.

HOME WORK.

In accordance with Section 107 of the Factory and Workshop Act, 567 lists of outworkers were received (281 in February and 286 in August) giving the names and addresses of 3,271 employees. The number of lists received in 1906 was 473, containing the names of 2,852 employees.

On examination of the lists they were found to contain 1,937 Workshops or Domestic Workshops already on the Register (906 in February and 1,031 in August). The other addresses, excepting those situated outside the City, were visited by the District Sanitary Staff, and in several instances the premises were found to be new workshops or Domestic Workshops, i.e., where the work done constituted the sole or principal means of living of the family. These were placed on the Workshop Register, to be visited periodically by the Workshop Inspectors. The home work in 1,334 cases was found to be an additional source of income only.

A number of firms omitted to send in their lists at the times stated in the Act, i.ė., on or before the 1st February and 1st August, and it was necessary to take proceedings in 29 cases. Fines amounting to £23 13s. 6d. were inflicted.

LAUNDRIES.

In the course of an Inquiry into the circumstances of the Chinese resident in the City, it was reported that Chinese laundries have been established in Liverpool for a great number of years, and appear to be carried on with success. There are 47 of these laundries registered as workshops, which are periodically inspected by the Workshop Inspectors under the Factory and Workshop Act. They compare quite favourably with the ordinary English laundries, and are on the whole conducted in a more orderly fashion.

FURNITURE REMOVERS' VANS.

Number	of Visits	 	 	110
,,	Vans examined	 	 	75
,,	found correct	 	 	59

In each case where the vans or wraps were found dirty, a notice was served on the owner to cleanse same.

SHOP HOURS ACTS, 1892—5.

The object of these Acts is to prevent the employment of young persons for such an excessive number of hours as will prejudice the health of these employees.

During 1907, under the above Acts there have been 6,485 visits paid to shops during the day, and 2,202 re-visits made after six o'clock; in 190 instances the hours were found to be incorrect, and in 554 instances a copy of the Act was not exhibited.

The persons concerned have generally evinced readiness to comply with the requirements of the Acts, and have thus lessened the difficulties in its administration. The number of occasions in which it was necessary to take proceedings during the last two years is small.

			1906.	1907.
Number	of day visits to Shops		6,338	6,485
,,	Shops found without copy	of Act		
	exhibited		898	554
**	re-visits to Shops during day		336	298
1)	Shops found incorrect		83	66
,,	re-visits to Shops after 6 p.m		2,498	2,202
,,	Shops found incorrect		353	190
,,	copies of Act supplied		692	482
,,	Informations for excessive hou	rs	8	3
,,	Convictions		6	3
1)	Informations for not exh	ibiting		
	Notice of Acts and Require	ments		
	as to hours of work		15	9
,,	Convictions		12	9
Total nur	mber of Informations		23	12
,,	,, Convictions		- 21	12
Total A	Amount of Fines and Costs	£	19 5 6	£14 13 6

SEATS FOR SHOP ASSISTANTS ACT, 1899.

The object of the Act is to provide seats for female assistants.

					19	06.		19	07.
Visits for the purposes of t	the Ac	t	 		8	93		6	62
Found correct			 		3	34		5	84
Number of Informations .			 			1			2
,, Convictions .			 			1			2
Total Amount of Fine	s and	Costs	 	£0	14	6	£1	4	0

Seats in each case were subsequently provided.

EMPLOYMENT OF CHILDREN ACT, 1903.

This Act is intended for the limitation and regulation of child labour, and affects children of school age, viz., 14 years of age and under. The Act prohibits a child being employed between the hours of 9 p.m. and 6 a.m., although these hours may be varied on the framing of bye-laws.

It contains clauses prohibiting children carrying burdens likely to cause them injury, and from being employed in any occupation likely to be injurious to their lives, limbs, health or education.

Another clause prohibits children who are working half-time under the Factory and Workshop Act from being employed in any other occupation.

There are other clauses relating to children engaged in street trading. These have already been dealt with by the Watch Committee, and are enforced by the Police.

						1906.	1907.
Numbe	er of Visits for the	purp	oses of	the Act		41	268
,,	found incorrect					_	68
,,,	of Informations					_	53
**	of Convictions					-	48
	Amount of	Fine	s and C	osts	. £0	0 0	£84 11 6

The following Bye-laws have been prepared, and now await the sanction of the Home Secretary:—

The Mayor, Aldermen and Citizens of the City of Liverpool at a Meeting held in the Council Chamber, within the Town Hall, on the day of 190, do hereby in pursuance of the powers conferred upon them by the Employment of Children Act, 1903, make the following Bye-laws:—

Definition Clause.

Throughout these Bye-laws the following words and expressions shall have the meanings hereby respectively assigned to them unless such meanings be repugnant to or inconsistent with the context or subject matter in connection with which such words or expressions occur, namely :-

"Industrial work" means any work in which manual labour is exercised by way of trade, or for purposes of gain in making, altering, repairing, ornamenting, finishing, adapting for sale, or cleaning any article.

The expression "Shop" includes any premises or place where retail trade (including the business of a Barber) is carried on.

Employment of Children,

1.—A child under the age of 11 years shall not be employed.

Limitation of Age.

2. (1)-No child who is liable to attend school full time shall be Employment employed during school term on weekdays, other than Saturdays, in

of Children in delivery of

- Milk, sale (a) delivering Newspapers, or Milk, except between the hours of of News-7 and 8-15 o'clock in the morning and 5 and 8 o'clock in the papers, &c. evening.
- (b) taking Meals to any person or persons, except between the hours of 12 noon and 1-15 o'clock in the afternoon and 5 and 8 o'clock in the evening.
- (c) nursing, or other domestic work, running errands, or in or about a Shop, except between the hours of 7 and 8-15 o'clock in the morning, 12-30 and 1-15 o'clock in the afternoon and 5 and 8 o'clock in the evening.
- (d) carrying parcels or delivering goods except between the hours of 5 and 8 o'clock in the evening;

provided that no such child shall be employed for more than 31 hours on any day as aforesaid.

(2) No such child being a boy under the age of 12 or a girl under 14 shall be employed during the school term on Saturday or on any day during the holidays for more than 6 hours, or being a boy between the age of 12 and 14 for more than 8 hours, provided that no such child shall be employed on a weekday other than Saturday later than 8 o'clock in the evening or 9 on Saturdays.

Industrial work at home.

- 3.—(1) No child who is liable to attend school full time shall be employed during school term in any industrial work at home on weekdays, other than Saturday, except between the hours of 5 and 8 o'clock in the evening, nor for more than 5 hours on Saturday.
 - (2) No child who is exempt from attending School shall be employed in any industrial work at home for more than 4 hours without an interval of at least one hour, and no such child shall be so employed before the hour of 7 o'clock in the morning or after the hour of 8 o'clock in the evening, nor on Saturdays after the hour of 4 o'clock in the afternoon. Every such child employed under this paragraph shall be allowed for meals on weekdays, other than Saturdays, an absence from work between the said hours of not less than 1 hour for Breakfast, 1½ hours for Dinner, and 1 hour for Tea, and on Saturday 1 hour for Breakfast and 1 hour for Dinner.
 - (3) No child employed in any industrial work at home on any day shall be employed on the same day in any other occupation.

Employment in a shop of children not dealt with in Clause 2.

- 4.—(1) No child shall be employed, except as otherwise provided, in or in connection with any Shop before 8 o'clock in the morning or after 8 o'clock in the evening, provided that if on one day in the week the shop closes not later than 2 o'clock in the afternoon, employment may be continued on one other day in the same week (to be specified in a notice kept constantly affixed in the Shop) to 9 o'clock in the evening.
- 5.—No child shall be employed on Sunday except in the delivery of milk and between the hours of 7 and 9 in the morning and 3 and 4 in the afternoon.

Employment in a Barber's Shop.

- 6.—(1) No child under the age of 13 years shall be employed in lathering or in similar occupation in any barber's shop.
 - (2) No child liable to attend school full time shall during school term be employed in lathering or in a similar occupation in any barber's shop, except between the hours of 5-30 and 8-30 o'clock in the evening on weekdays, other than Thursday, on which day a

child shall not be employed as aforesaid at all, or on Saturday between the hours of 10 o'clock in the morning and 9 o'clock in the evening, with an interval of not less than $1\frac{1}{2}$ hours for Dinner and 1 hour for Tea.

- 7.—No child shall be employed in or in connection with the sale of Employment intoxicating liquor, either on licensed premises or in any registered club, Premises, &c. or in billiard or bagatelle marking, or in selling programmes or other articles in or in shifting scenery on the stage of any theatre, or music hall, or in the kitchen of any hotel, cookshop, eating house, or refreshment room.
- 8.—No child employed in a place of public Entertainment in Employment pursuance of a License under Section 3 of the Prevention of Cruelty to in a place of public enter-Children Act, 1904, shall be employed on the same day or days or the tainment. day following such employment in any other employment.
- 9.—No child who is liable to attend school full time shall be employed Agricultural in any Agricultural work on any day other than Saturday during the employment. school term except between the hours of 6 and 8-30 in the morning and 5 and 8 in the evening in the months of April to September, and except between the hours of 7 and 8-30 in the morning and 5 and 7 in the evening in the months of October to March; or, in the holidays and on Saturdays, except between the hours of 6 in the morning and 6 in the evening.

APPENDIX.

Extracts from Employment of Children Act, 1903.

Section 1.—Any local authority may make byelaws—

- (i) prescribing for all children, or for boys and girls separately, and Power to with respect to all occupations or to any specified occupation,—

 laws for
 - (a) the age below which employment is illegal; and
 - (b) the hours between which employment is illegal; and
 - (c) the number of daily and weekly hours beyond which employment is illegal:
- (ii) prohibiting absolutely or permitting, subject to conditions, the employment of children in any specified occupation.

Power to make byelaws for regulating

the employment of children. General restrictions on employment of children.

- Section 3.—(1) A child shall not be employed between the hours of nine in the evening and six in the morning: Provided that any local authority may, by bye-law, vary these hours either generally or for any specified occupation.
 - (2) A child under the age of eleven years shall not be employed in street trading.
 - (3) No child who is employed half-time under the Factory and Workshop Act, 1901, shall be employed in any other occupation.
 - (4) A child shall not be employed to lift, carry, or move anything so heavy as to be likely to cause injury to the child.
 - (5) A child shall not be employed in any occupation likely to be injurious to his life, limb, health, or education, regard being had to his physical condition.
 - (6) If the local authority send to the employer of any child a certificate signed by a registered medical practitioner that the lifting, carrying, or moving of any specified weight is likely to cause injury to the child, or that any specified occupation is likely to be injurious to the life, limb, health, or education of the child, the certificate shall be admissible as evidence in any subsequent proceedings against the employer in respect of the employment of the child.

Offences and penalties.

- Section 5.—(1) If any person employs a child or other person under the age of sixteen in contravention of this Act, or of any bye-law under this Act, he shall be liable on summary conviction to a fine not exceeding forty shillings, or, in case of a second or subsequent offence, not exceeding five pounds.
 - (2) If any parent or guardian of a child or other person under the age of sixteen has conduced to the commission of the alleged offence by wilful default, or by habitually neglecting to exercise due care, he shall be liable on summary conviction to the like fine.
 - (3) If any person under the age of sixteen contravenes the provisions of any bye-law as to street trading made under this Act, he shall be liable on summary conviction to a fine not exceeding twenty shillings, and in case of a second or subsequent offence, if a child, to be sent to an industrial school, and, if not a child, to a fine not exceeding five pounds.
 - (4) In lieu of ordering a child to be sent under this section to an industrial school, a court of summary jurisdiction may order the child to be taken out of the charge or control of the person who actually has the charge or control of the child, and to be committed to the charge and control of some fit person who is willing to undertake the same until such child reaches the age of sixteen

years: And the provisions of sections seven and eight of the Prevention of Cruelty to Children Act, 1894, shall, with the necessary modifications, apply to any order for the disposal of a child made under this sub-section.

Section 7.—With respect to summary proceedings for offences and Limitation fines under this Act, and any bye-laws made thereunder, the information of time. shall be laid within three months after the commission of the offence.

Section 8.—If it appear to any justice of the peace, on the complaint Power of of an officer of the local authority acting under this Act, that there is officer of reasonable cause to believe that a child is employed in contravention of local authority to enter this Act in any place, whether a building or not, such justice may by place of emorder under his hand empower an officer of the local authority to enter ployment. such place at any reasonable time, within forty-eight hours from the date of the order, and examine such place and any person therein touching the employment of any child therein.

Any person refusing admission to an officer authorised by an order under this section, or obstructing him in the discharge of his duty, shall for each offence be liable on summary conviction to a penalty not exceeding twenty pounds.

Section 13.—In this Act—

The expression "child" means a person under the age of fourteen Definitions.

The expression "guardian," used in reference to a child, includes any person who is liable to maintain or has the actual custody of the child:

The expressions "employ" and "employment," used in reference to a child, include employment in any labour exercised by way of trade or for the purposes of gain, whether the gain be to the child or to any other person:

The expression "local authority" means, in the case of the City of London, the mayor, aldermen, and commons of that city in common council assembled; in the case of a municipal borough with a population according to the census of nineteen hundred and one of over ten thousand, the borough council; and in the case of any other urban district with a population according to the census of nineteen hundred and one of over twenty thousand, the district council; and elsewhere the county council:

The expression "street trading" includes the hawking of newspapers, matches, flowers, and other articles, playing, singing, or performing for profit, shoe-blacking, and any other like occupation carried on in streets or public places.

MIDWIVES ACT, 1902.

During the year 1907 the following alterations were recorded under the provisions of the above Act:—32 midwives left the City, and two died. Against these numbers 20 midwives came into the City from other districts, and 22 candidates passed the examination of the Central Midwives Board and were placed on the Roll. In addition to these, 45 midwives changed their residences (in a considerable number of cases more than once) from one district of the City to another, and two married and consequently changed their names. There was a total of 303 midwives at the end of the year resident in the City.

The following table gives the qualifications of the midwives resident in Liverpool, for the past three years, respectively, viz.:—

		1905.	1906.	1907
Central Midwives Board Examination		 -	30	52
Ladies' Charity and Lying-in Hospital		 153	120	110
London Obstetrical Society		 124	74	73
Rotunda Hospital, Dublin		 8	7	7
Glasgow Maternity Hospital		 5	4	3
Queen Charlotte's Lying-in Hospital		 4	4	2
Manchester Maternity Hospital		 3	2	3
National Maternity Hospital, Dublin		 3	3	3
Coombe Lying-in Hospital, Dublin		 2	3	3
St. Mary's Hospital, Manchester		 1	1	1
Dundee Maternity Hospital		 1	1	1
Royal Maternity Hospital, Edinburgh		 1	1	5
In Bona-fide Practice prior to 31st July,	1901	 56	45	45
Totals		 361	295	303

The details as to the employment of these midwives are given in the following table, viz.:—

Employed in private practice as maternity nurses	;		
Employed in public institutions as midwives, maternity nurses, &c	21	34	53
account	166	159	166
Number in practice as midwives on their own	1905.	1906.	1907.

It is satisfactory to note that the proportion of midwives in Liverpool who have been admitted to the Midwives Roll because they were in bona-fide practice in July, 1901, but who had no certificate acknowledged by the Midwives Board, is a much smaller one in Liverpool than in the rest of England. Last year, for instance, out of a total of 303 there were only 45 midwives, namely, 15 per cent., in this category; whereas about 50 per cent. of the midwives in the rest of England are in the position of being without such a certificate.

The following tables give some interesting facts about the status of those midwives in private practice in Liverpool:—

1907.								
5	 	 ge	ears of a	30 y	and	n 20	Ages—Between	1
36	 	 	,,	40	,,	30	,,	
56	 	 	,,	50	,,	40	,,	
40	 	 	,,	60	,,	50	,,	
25	 	 	,,	70	,,	60	,,	
4	 	 	,,	80	,,	70	,,	
166								

					-					1907
No. of Year	s in Practic			under						-
"	",	Ove	er 1 and	i under		year	S			58
"	,,	33	10	"	20	"				60
22	,,	33	20	22	30	9.9				33
22	"	3.3	30	"	40	"		• • • •		1
"	22	,,	40	2.2	50	33	• • •	• • • •		
,,	,, -	33	.50	"	60	"				
										16
Single Wo	men									1'
Married	,,									103
Widowed	.,									4
									7	16
Devoting w	hole time	to the	work						-	8
Partially en	nployed									8
										166
The numbe	artially emp or of births , and the f	M: attend	aternity ed by t	Home he 166	s.) mid	wive	es in	privat	e pra	etice
	births atten		-							1
Midwives w	ho attended	lover	350 cas	ses eacl	h					
,,	,,		300	,,						(
,,	,,		250	,,						4
,,	, ,		200	,,						(
(Th	ne aboye-me	ntione	d 16 mie	lwives	atte	nded	4,13	7 cases	s.)	
Midwives w	ho attended	lover	150 cas	ses eacl	h					1
			100	0000 10000						
7.7	2.2			3.3						19
	ie above-me									19
(Th Midwives w	ne above-me ho attended	ntioned l over	d 30 mid 50 cas	dwives ses eac	atte	nded	l 4,05	3 case:	s.) 	
(Th Midwives w (Th	he above-me ho attended e above-me	ntioned l over ntioned	d 30 mid 50 cas l 37 mid	dwives ses eac lwives	atte h atter	nded aded	1 4,05 2,79	3 cases 7 cases	s.) s.)	3
(Th Midwives w (Th	ne above-me ho attended	ntioned l over ntioned	d 30 mid 50 cas l 37 mid	dwives ses eac lwives	atte h atter	nded aded	1 4,05 2,79	3 cases 7 cases	s.) s.)	

In addition to the foregoing there were 1,673 births attended by midwives on the staff of the District work of the Ladies' Charity, and 469 attended by unregistered women, who are under the same supervision as the midwives, making a total of 14,446 out of 23,654 births which occurred during the year.

The number of still births notified by midwives was 391; this is at the rate of 3.2 per cent. of the births attended by midwives in private practice. The prevalence of still births in the practice of midwives varies very much, the highest rate being 10 per cent., the lowest being 1.0 per cent., in the practice of midwives attending over 20 confinements in the year.

The following figures give the months of pregnancy during which the still birth took place, viz.:—

	Total	of Sti	ll Birtl	1S	 	391
Not specified					 	22
Ninth month					 	169
Eighth month					 	82
Seventh month					 	73
Sixth month					 	45
						1907.

In 14 cases the child was illegitimate.

Medical assistance was required in 684 cases, which is 5.5 per cent. of the total confinements attended. The highest rate at which any one midwife required medical assistance was in 25 per cent. of her cases. In 227 cases, namely 1.8 per cent. of the births attended by midwives, the patients were so poor as to be unable to pay for medical assistance, and the Corporation resolved to pay the doctor who was called in to help in the emergency. This action of the Corporation has undoubtedly been of the greatest service both to midwives and their patients, who are thus enabled to obtain prompt medical attention in times of emergency. The fee is limited to one guinea, and in many of the cases part of the fee was paid by the patients themselves, and only the remaining portion paid by the Corporation.

The following is a list of the complications for which medical assistance was required:—

Abnormal Presentation—				1906.	1907.
Brow or Face Present	ation			23	38
Occipito-posterior Pre	sentat	ion		20	7
Transverse Presentati	on			33	29
Breech Presentation				16	14
Foot Presentation				5	5
Cord Presentation				6	10
Placenta Prævia				2	9
Deformed Pelvis				48	69
Anti-partum Hæmorrhage				27	15
Post-partum Hæmorrhage				35	53
Retained Placenta or Men	abrane	es		64	74
Ruptured Perinæum				25	36
Multiple Births				12	1
Prolapse of Uterus				2	1
Malformation of Child				6	5
Death of Child				3	1
Abortion or Premature B	irth			13	15
Septicæmia				2	1
Pyrexia				11	15
Epileptic Convulsions				1	2
Eclampsia				5	5
Obstructed Labour, Uteri quiring Instrumental			or re-	196	247
Various or not specified				117	32
	Tota	al		735	684

PUERPERAL FEVER.

The number of cases of Puerperal Fever notified to the Medical Officer of Health during the year was 58, of which 12 were fatal. This gives a death-rate of 0.5 per 1,000 births in the City, a rate that compares very favourably with that of England and Wales, which was 1.7 during 1906, and 2.0 for the previous ten years. Thirty-three cases were removed to hospital, viz., 12 to Brownlow Hill Infirmary, 10 to Mill Road Infirmary, 1 to Toxteth Workhouse Infirmary, and 10 to the City Hospital, Fazakerley.

All of the cases were investigated, and 35 with 10 deaths were found to have occurred where midwives were employed either alone or in association with a doctor. They were divided between 31 midwives:—1 midwife had three cases; 2 midwives had two cases each; and 28 midwives had one case each. In the remaining cases the confinement was attended either by a medical practitioner or by an unqualified woman, who was frequently a neighbour or friend of the patient. In the cases in which midwives were concerned, the midwives were interviewed and measures taken to prevent them spreading the infection. The same procedure was adopted with regard to five cases (no deaths) which occurred in the practice of unregistered women.

In eight of the cases the symptoms did not appear until the midwife had ceased to attend the patient, namely, ten days after the confinement, and the woman was apparently in her usual health.

During 1907 the Central Midwives Board revised the rules which regulate the training and the supervision of the practice of midwives. The chief alterations were those which modify the rules relating to the duties of the midwife to the mother and the child, and these are further amplified by explanatory notes which increase their usefulness.

Every opportunity is taken to bring these rules under the notice of the midwives and to emphasise the importance of adhering to the provisions laid down in them.

They will remain in force until September 30th, 1909, when they may be further revised if it should be thought advisable to do so.

As in previous years, the midwives in private practice were visited periodically. The number of visits paid during the year was 1,003; this number shows an increase over that of the year before, as extra visits are being paid to bonâ-fide midwives and to those who by their advanced age are becoming incapacitated and therefore require greater attention.

The case books are carefully examined and the cases are discussed, the midwives being encouraged to note anything of an interesting character, such as the patient's previous history and the condition of the house, surroundings, &c.

The condition of the bags and appliances show a decided improvement on previous years, and in the work of the midwives generally a greater state of proficiency prevails. The houses occupied by the midwives are also inspected, and all sanitary defects are promptly dealt with.

Full advantage has been taken of the arrangements made last year with reference to the reporting of dirty houses and bedding by the midwives, and there is no doubt that the prompt action taken by the Public Health Department has been the means in several cases of saving the lives of both mother and infant.

Arrangements have also been made by which all cases of inflammation of the eyes occurring in the infant are reported immediately to the Medical Officer of Health, and all serious cases of Ophthalmia occurring among the poorer classes taken at once to the Eye Hospital for treatment.

Much valuable assistance has been rendered under these circumstances by the staff of the St. Paul's Eye and Ear Hospital, by setting apart a small ward where these cases can be isolated and where also the mother can be received so that the infant while under treatment shall not be deprived of the maternal nourishment.

Special visits were made in order to make enquiries into Puerperal Fever cases and the circumstances of patients for whom payment of the medical fee was requested, the total number of such visits being 364.

UNREGISTERED WOMEN.

The number of unregistered women in practice at the end of the year was ten, three having ceased to practice owing to the restrictions placed upon them by the regulations. 469 births were attended by these women, against 789 in the previous year, a decrease of 40 per cent.; this decrease is attributable to their not being able to use the title of "midwife."

The ten women still in practice endeavour to conform to the rules, and carry out their work in a satisfactory manner. They are visited from time to time, and assistance rendered to them in a similar manner to that provided in the case of registered midwives.

INFECTIOUS DISEASES AND OTHER MATTERS OF HYGIENE

RELATING TO SCHOOLS.

During the past year a considerable increase in the work of the Department with regard to the elementary schools has to be recorded. Dr. Kingsford, the additional Assistant Medical Officer, who commenced his duties early in the year, has made enquiries into a large number of actual or threatened school outbreaks of infectious disease, and in addition has found time and occasion to extend his enquiries to many other branches of school hygiene. A large number of children were discovered at school whose condition necessitated further detailed investigation at the homes. This investigation in the majority of cases fell to the lot of the Female Sanitary Staff, which has recently been augmented to meet the increase in the school work. The number of visits to school cases by the Female Staff has gradually increased year by year, from 378 in 1903 to 9,068 in 1905, 12,336 in 1906, and 16,604 in 1907. (See pp. 99 and 101.)

The Male Sanitary Staff continue as before to visit the homes where cases of infectious disease have occurred, other than communicable skin and eye diseases, which are visited by the Female Staff.

With regard to infectious diseases, improvements have been made in the methods of notification and investigation.

The arrangement formerly made with the Education Committee that Head Teachers should notify the Medical Officer of Health as soon as they learn of the absence of a child on account of infectious disease was not always observed. Frequently the Teacher waited for the visit of the School Attendance Officer, and left the duty of notification to that officer, thus often causing a delay of seven to ten days.

By means of a circular letter, and by visits paid to the schools by the Assistant Medical Officer, the original arrangement with the Teachers has again been put in fairly good working order. Early information is absolutely essential if there is to be a successful attempt to cope with a threatened outbreak.

When notifying cases of infectious disease, the teachers at the same time draw special attention to any cases which may have been detected or suspected whilst the child was in school, and these are amongst the first to be visited at home in order to determine the exact nature of the illness.

More important, however, than the notification of infectious disease is the early recognition and prompt exclusion by the Teachers of suspicious cases amongst the scholars. In this respect there is still room for improvement.

Fear of losing attendances still weighs very greatly with some Teachers, and leads to children whose symptoms are very suspicious being kept in school until the Teachers are quite certain that the ailment is infectious. Obvious ill-health of the pupil is, however, always a proper reason for its exclusion from school, whatever the cause of illness may be.

The Education Code of 1903, Article 101*, contained an exceedingly valuable provision, and provided that the absences of pupils on account of infectious sickness in their homes should not be deducted from the record of attendances. This clause, however, was withdrawn from subsequent Codes, and the result is a tendency to minimise within dangerous limits the absences of the child.

With the object of ensuring earlier information and to stimulate parental responsibility with regard to infectious disease amongst school children, an important clause has been inserted in the Liverpool Corporation Bill which will come before Parliament in 1908. This clause enforces upon the parents of school children the obligation of notifying the Medical Officer of Health and the Head Teacher within 24 hours of becoming aware of it, the occurrence of infectious disease in the house, and further compels the parent to keep from school the affected children and any others the Medical Officer of Health considers necessary. In certain neighbourhoods, especially where there are many small shopkeepers, concealment of infectious disease is prone to occur, the other children in the house being sent to school to avoid comment. The scope of the clause includes Sunday schools and all other schools.

Lists of infected scholars who have been reported upon by the Sanitary Inspectors are prepared daily, giving particulars as to the school and class attended, the disease, the date of the last attendance at school, and the date of the onset of symptoms. From this list it is possible at a glance to ascertain in what schools children have been present in an infectious condition, and visits to such schools can be made accordingly.

Alterations have been made in the method of excluding children from school when they come from houses in which infectious cases are being treated.

In the case of Scarlet Fever and Diphtheria all children are excluded.

In Measles, Chicken-pox and Mumps, all children under 7 and children over 7 who have not had the disease are excluded.

In Whooping Cough, only children under 7 who have not had the disease are excluded.

These general rules are in many respects similar to the plans adopted in some other towns, but in any case of doubt the Teacher and School Attendance Officer are invited to communicate with the Medical Officer of Health.

Table I .- * SCHOOL CASES (Infectious Diseases).

Age Distribution-March, 1907-February, 1908.

DISEASE.	Under 5.	Under 6.	Under 7.	Total Under 7.	Under 8.	Under 9.	Under 10.	Under 11.	Under 12.	Under 13.	13 and over.	Total 7 years and upwards,	Grand Total.
Scarlet Fever	121	258	258	637	196	156	116	104	85	61	76	794	1431
Diphtheria	42	73	68	183	68	42	33	23	14	16	20	216	399
Measles	764	1540	843	3147	306	120	66	42	30	22	13	599	3746
Whooping Cough	479	1068	572	2119	167	70	41	18	13	21	8	338	2457
Chicken-pox	286	711	490	1487	224	111	70	38	21	21	11	496	1983
Mumps	43	130	156	329	99	67	38	33	38	33	38	346	675
Totals	1735	3780	2387	7902	1060	566	364	258	201	174	166	2789	10691
Per cent. of those on Roll	22.5	23.1	14.9	19.7	7.3	4.0	2.6	1.9	1.6	1.4	1.2	2.9	8.0

Note.—* The delay in going to press enables us to take a complete year, this work having been commenced in March, 1907.

It will be seen from this table that the pupils below the age of 7 years are the principal sufferers from all forms of infectious disease, that in the succeeding years the incidence rapidly declines, and after 10 years of age the proportion attacked is very small.

It will be observed that the proportion below 5 is slightly less than that between 5 and 6, a figure which perhaps does not exactly express the full incidence, since children under 5 are not so rigorously visited by the Attendance Officers when absent, and cases in this way may escape record.

The table shows generally that during the earlier years of life the risks to the child from attending school are greatest, and its susceptibility to attack diminishes as the child grows older.

The next table gives the monthly incidence of the various forms of common infectious disease.

Table II.—SCHOOL CASES (Infectious Diseases).

MONTHLY DISTRIBUTION-March, 1907-December, 1907.

Disease.	March.	April.	May.	June.	+July.	August.	September.	October.	November.	December.	Total.
Scarlet Fever	98	107	130	129	79	99	181	150	136	125	1229
Diphtheria	21	22	32	36	31	33	26	34	65.	36	336
Measles	433	315	642	507	16	26	86	199	264	297	2785
Whooping Cough	128	_72	22	12	_	206	181	291	412	302	1626
Chicken-pox	248	230	398	288	13	28	94	124	126	110	1659
Mumps	38	20	57	41	2	14	-31	50	64	140	457
Totals	961	766	1281	1013	141	406	599	848	1067	1010	8092

[†] Holidays-June 28th, August 12th.

Attempts are at present being made to ascertain what proportion of infants attending school have previously suffered from Measles, Whooping Cough and Scarlet Fever. The value of this information is obvious, since the proportion of those who had already suffered, and who were consequently to be regarded as immune from future attack, would be a valuable guide to procedure in the event of an outbreak of such infectious sickness arising in an Infants' Department, and the information furnishes the gauge of the probable extent and duration of an outbreak.

The following table is based upon an investigation of twelve selected and probably representative schools, and indicates the percentage of children at the different ages who have suffered from Measles, Whooping Cough, or Scarlet Fever.

The inference is that as the years advance the susceptibility to disease diminishes.

Table III.
Shewing the percentages of children at the various age periods who

	MEA	ASLES.	WHOOPIN	G COUGH.	SCARLE?	T FEVER.
AGES	Number Involved.	Percentage who have had the disease.	Number Involved.	Percentage who have had the disease.	Number Involved.	Percentage who have had the disease,
2— 4	56	57	59	37	56	5
4— 5	469	70	468	42	440	6
5— 6	1138	74	1091	45	1107	8
6- 7	1052	82	1060	52	940	10
7— 8	481	85	477	56	455	14
8— 9	85	87	87	€5	86	18
9—10	27	85	28	71	27	18
10—11	12	83	12	66	12	25

have had certain diseases :-

With regard to the school buildings, which were fully reported upon two years ago, many of the older schools are still deficient in light and ventilation, and are still furnished with old types of seats and desks.

Improvement in the cleanliness of the schools would be effected by making the caretaker directly responsible to the Head Teacher, a step which has already been taken so far as Council Schools are concerned.

The sanitary offices of the schools are visited periodically by the Sanitary Inspectors, but closer attention on the part of the Caretakers would be desirable.

The application of the Employment of Children Act has had a salutary effect in lessening the abuse of school children by working them for excessive and up till late hours.

During the year the prevalence of Measles was not great (see Table II.)

There was a limited outbreak of Whooping Cough, confined principally
to the North end of the City, but somewhat severe in character.

The closer attention paid to the subject of Ringworm explains the larger number of cases brought to notice (see page 99), microscopical examination being employed on many occasions. The disease is extremely difficult to deal with, not only on account of the difficulty of recognising its nature, but because of the protracted course which it runs. Every child found to be suffering from Ringworm of the Scalp should be excluded from school until certified by a medical man to be free from the disease. The plan of wearing a cap in school is generally unsatisfactory and objectionable.

One case of favus was detected in school, the child being a foreign Jewess. Impetigo. —This very common disease was frequently associated with a verminous condition, and necessitated a very large number of visits to the homes of the sufferers. The large number of cases of impetigo of the scalp, due to the presence of vermin, is deplorable, the condition being frequently associated with other evidences of gross neglect of the children at home. Many cases of this nature were referred to the Society for the Prevention of Cruelty to Children to deal with, and a few cases have been dealt with in the Police Court.

About thirty schools are now being constantly visited by nurses from the Queen Victoria Nursing Association, the children's heads, and when necessary the clothing, being periodically examined by them. Their main attention, however, is given to the treatment of sores and various minor injuries. Many parents, unfortunately, refuse or neglect to carry out instructions given by the nurse. Examples are only too frequent in which every sense of parental responsibility or affection seem to be wanting.

In the Bill shortly to be promoted in Parliament, the Health Committee have advised that clauses should be inserted dealing more stringently with verminous or neglected children.

The following is a list of schools closed during the year, owing to the prevalence of Measles, and other infectious diseases amongst the scholars:—

Date of Notice.	School.	Department or Departments	Nature of Disease.	Period. of Closure.
1907. Jan. 12	Sheil Road Council	Infant	Measles, &c.	Three Weeks,
Feb. 16	St. Lawrence, Croylands Street	,,	,,	3.5
Mar. 21	St. Bridget's, Bagot Street	,,	,,,	Until 15th April
21	Sefton Park Council	,,	33	,,

Date of Notic		School.	Department or Departments.	Nature of Disease.	Period of Closure.
May	3	Sefton Park, Higher Grade	Infant	Measles, &c.	Two Weeks ending 20th May
	9	Garston Old Road Wesleyan	,,	,,	Until 27th May.
	13	St. Alphonsus', Back Great Mersey Street	,,	,,	Until 3rd June.
	17	St. Mary's, Kinglake Street	,,	,,	Until 4th June.
	23	Garston Victoria	,,	,,	Until 10th June.
	29	St. Peter's, Sackville Street	,,	Whooping Cough	Until 17th June.
	30	Longmoor Lane Council.	,,	Measles, &c.	,,
	31	Rathbone, Council, Albany Road	,,	,,	,,
June	13	Banks Road, Council, Garston	,,	,,	Until after Mid- summer Holidays
	22	St. Simon's, Bronte Street	,,	,,	,,
	24	Garston National	,,	,,	"
	24	St. Francis', Earp Street.	,,	,,	,,
Oct.	8	Beaufort Street Council	,,	Measles and W. Cough	Until 21st Oct.
	28	St. Silas', Toxteth	,,	Measles, &c.	Until 18th Nov.
	29	St. Augustine's, Salisbury Street	,,	,,	Until 11th Nov.
Nov.	1	Infant Orphan Asylum School, Myrtle Street	Whole School	Scarlet Fever	For 21 days.
	27	Do.	,, ,,		Until 3rd Dec.
	8	St. Ann's, Aigburth	Infant	Whooping Cough, &c.	For Three weeks
	11	Holy Trinity, Walton Breck	,,	Measles, &c.	Until 27th Nov.
	11	Upper Park Street Council	,,	,,	Until 25th Nov.
	27	Whitefield Road Wesleyan	,,	,,	Until 16th Dec.
Dec.	4	Clint Road Council	,,	Whooping Cough, &c.	Until after Christ mas Holiday
	11	Parkhill Higher Grade	Infant and Junior	Mumps, &c.	11
	12	All Saints', Oakfield	Infant	Measles, &c.	,,
	17	Earle Road Council	,,	Whooping Cough	***
	18	Granby Street Council	,,	Measles, &c.	,,
	18	St. Francis Xavier's, Haigh Street	,,	-11	,,

NOTICES TO MASTERS OF SCHOOLS.

The arrangements have been continued with the Education Committee that notice shall be sent to the Committee and postcards to the Head Masters of the various schools informing them when children from infected houses attend their schools. 12,342 cards were sent last year, as against 12,775 in the preceding year.

PUBLIC ELEMENTARY SCHOOLS.

In pursuance of the resolution of the Elementary Schools Management Sub-Committee, dated 13th July, 1903, and approved by the Education Committee on the 19th August, 1903, instructing the Medical Officer of Health to report upon the sanitary equipment, &c., of schools, 188 schools were fully reported upon.

Full Reports were printed by the Education Committee, and circulated to those interested.

Thirty-two of these schools were re-examined in 1907.

All the Public Elementary Schools in the City are visited once each fortnight and an examination made of the sanitary conveniences.

Ordinary visits made by Sanitary Inspectors, apart from special visits for the purposes of the Education Committee, reached the following numbers:—

							1906.	1907.
No. o	of Visits to Schoo	ls					3,138	2,812
,,	found incorrect						180	163
,,	Water-closets an	nd Latri	nes foun	d dirt	y or def	ective	233	361
,,	Notices issued	for defec	ts			1.69	121	166
,,	,, ,,	dirty	closets				_	10

THE AMBULANCE AND DISINFECTING STAFF.

The following table shows the number of patients removed to Hospitals during 1907, compared with the number removed during the preceding year, by Officers of the Ambulance Staff, and the Hospitals to which they were taken:—

Belmont Rd.	City Hospital North, Netherfield Road.	City Hospital South, Grafton Street.	City Hospital, Park Hill.	Brownlow Hill.	City Hospital East, Mill Lane.	City Hospital, Priory Road.	David Lewis Northern Hospital.	Royal Infirmary.	Smithdown Road.	Southern Hospital.	City Hospital, Fazakerley.	Port Sanitary Hospital.	Hahnemann Hospital.	Garston Hospital.	Fazakerley Annexe.	Total.
_	768	466	810	11	706	_	23	8	2	2	984	6	2	_	63	3,801

PRECEDING YEAR.

-	1		1		1	1					1					
7	677	552	1230	91	639	1	6	7	12	3	363	18	5	11	106	3,728

For the removal of patients to hospital, and for the removal of infected bedding, and its return after disinfection, an adequate ambulance staff is maintained. There are eight ambulances provided for the removal of infectious patients to hospital, and as far as possible one ambulance is reserved for each form of disease. In every case the ambulance is cleansed and disinfected in the following way each time it is used:—

The rugs in which the patient is wrapped are left for disinfection at the hospital to which the patient is taken. The interior of the ambulance (which is of smooth varnished wood) is sponged down with a strong solution of formaline. A clean disinfected rug is supplied before another patient is removed.

The ambulance attendants and disinfecting staff are provided with sufficient suits of overalls for their purposes.

Bedding and clothing, after disinfection, are returned home by a staff and conveyance entirely distinct from that which removed them in the infected state. In all cases where it is found desirable to destroy infected articles full compensation is paid, as provided for by the Public Health Act.

Details of the methods employed in regard to Smallpox and Typhus Fever have been given in previous Annual Reports, in which also the general procedure in disinfection has been explained.

INFECTED PREMISES STRIPPED AND DISINFECTED BY

	STRIPPING	STAFF	7.			
	-		•		1906.	1907.
Houses					6,630	6,589
Rooms 8	Stripped or sprayed with solu	tion of l	Perchl	oride		
of N	Iercury				17,406	19,687
,, I	Disinfected with sulphurous gr	as			6,947	6,743
Number	of Notes to Owners after strip	ping an	d clear	nsing	2,818	2,322
11	Visits by Superintendent of	of Staff			1,877	1,957
11	Enquiries respecting disinf	fection			8,522	8,136
	LIBRARY	BOOKS				
Number	of Library Books disinfected				931	2,619

In connection with alterations and improvements in the section of St. Martin's Market devoted to the sale of old clothes, the question arose as to disinfecting the clothing brought to the establishment. It was obvious that with suitable accommodation, and a proper amount of light and ventilation, the business would be carried on under very different circumstances to those which had hitherto been the case. In view of the proposed alterations, and also having regard to the circumstance that all infected clothing is dealt with at the Health Committee's Depôts, the Medical Officer recommended that unless the Markets Committee desired to provide a disinfecting station on the premises the matter should stand over.

No infectious sickness has been traced to clothing from this Clothes Market, and closer supervision of the trade is now possible owing to the improved accommodation and better lighting. Any obviously dirty article can be rejected by the officer on duty, and if necessary destroyed or dealt with at the Disinfecting Station. A consideration not to be lost sight of is that disinfection often deteriorates the value of clothing, sometimes to a considerable extent.

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THE DISINFECTING APPARATUS.

The number of articles disinfected at the various apparatus during the year amounted to 57,886.

	PATE. 1907.		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	No. of Pieces of Wearing Apparel.	Total Number of Articles.
January			 407	136	2,801	1,142	4,486
February			 433	118	2,789	1,089	4,429
March			 413	133	2,952	1,555	5,053
April	***		 366	110	2,301	1,438	4,215
May			 381	135	2,529	1,260	4,305
June			 541	169	3,026	1,634	5,370
July			 419	177	2,041	1,162	3,799
August			 417	127	2,965	3,075	6,534
September			 447	114	2,540	1,061	4,162
October			 451	188	2,795	1,217	4,651
November		***	 630	111	4,190	1,423	6,354
December			 393	66	2,753	1,316	4,528
Totals			 5,298	1,584	33,682	17,872	57,886

The number of articles destroyed at the various apparatus during the year amounted to 708, compensation being paid in conformity with the provisions of the Public Health Act.

	DATE. 1907.		Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	No. of Pieces of Wearing Apparel.	Total Number of Articles.
January			 9	14	11	_	34
February			 13	22	14	_	49
March			 6	24	_	_	30
April			 11	16	11	-	38
May	***		 11	33	18	7	69
June			 21	37	10	-	68
July			 11	34	13		58
August			 17	34	38	_	93
September	***		 18	38	29	5	86
October		***	 20	21	27	1	69
November	***		 18	18	20	1	67
December			 12	7	27	1	47
Totals			 167	298	228	15	708

PRINCE'S DOCK MORTUARY.

The Mortuary at the Prince's Dock is for the reception of the bodies of persons who have been drowned, killed, &c., and upon which the Coroner desires to hold inquests. Bodies are taken to this Mortuary by the police, and when it may be necessary to make post-mortem examinations, any medical gentleman may have the assistance of an inspector on sending a communication to the Ambulance Superintendent, 54, Gascoyne Street.

BODIES REMOVED	TO THE PRINCE'S DOCK M	ORTUARY.
Number from River.	Number from City.	Total
19	250	269

FORD STREET MORTUARY AND DISTRICT MORTUARIES.

	ВО	DIES REMOV	ED TO MO	RTUARIES	3.		
Green Lane.	Lark Lane.	Wavertree.	Ford Street.	Park Hill.	Smithdown Road.	TOTAL.	
_	2	_	194			196	

The Mortuary in Ford Street is provided for the reception of bodies, which cannot be kept at the homes in which death had taken place, without injury to the health of the inmates. The address of the caretaker is 6, Pickering Street.

The District Mortuaries, it will be seen, are seldom used. For the convenience of juries, as well as for other reasons, it is preferable that bodies should be conveyed to the Central Mortuaries.

The method of transport of the bodies of persons killed, or found dead in the street, has been more adequately provided for. Two alternative plans suggested themselves, one being that a hearse should be provided by the Health Committee, to be kept at some suitable depôt where it could be obtained upon receipt of a telephone message from the Police; the other, and better arrangement, was to authorise the Head Constable to make arrangements with certain firms of undertakers in suitable parts of the City, to supply a hearse on short notice, together with a shell coffin, for these purposes.

This latter plan is expeditious, inasmuch as shorter distances have to be travelled by the hearse to the place where the body is lying; it is working well.

An application was received from Mr. Augustine Watts, Solicitor, on behalf of the Roman Catholic Bishop, in reference to the Collingwood Street Mortuary Chapel. The use of the establishment has declined very considerably owing to various reasons, and the chief use of the mortuary during the last six years has been as a place of deposit for a few still-born infants and children below seven years of age. Consequently the main use of the building appears to have been for the purposes of a chapel, for which it is well adapted.

A proposal was put forward to adapt a detached part of the building for the purposes of a mortuary, and continue the use of the rest of the building as a place of worship.

Mr. Augustine Watts, in his memorandum, stated that if later, owing to changed circumstances, the proposed accommodation is deemed inadequate, the trustees would, at the request of the Health Authorities, increase the accommodation or even revert to the original mortuary.

After carefully considering the question, the Health Committee were unanimously of opinion that the request might reasonably be complied with.

PROCEEDINGS UNDER THE DISEASES OF ANIMALS ACTS, 1894 to 1903.

The duties of the Inspectors under the Diseases of Animals Acts, 1894 to 1903, are to visit cattle steamers, both foreign and cross-Channel, for the purpose of seeing that the provisions of the Foreign Animals Order, 1895, and the Animals (Transit and General) Amendment Order, 1904, are carried out.

Cattle steamers are examined as to fittings, ventilation, &c., and supervision is exercised in regard to cleansing and disinfection after animals are landed. Overcrowding or injury to animals is reported.

The Animals (Transit and General) Order compels the master of the vessel to slaughter all seriously-injured animals forthwith. Such animals are slaughtered on board the vessel, and the carcases removed to the abattoirs.

Cattle trucks and horse boxes are examined at railway stations, as to fittings, cleansing and disinfection, and the railway pens supervised.

Lairages and sale yards are visited to ascertain if they are cleansed and disinfected in accordance with the regulations of the City Council.

The Diseases of Animals Act relates in the main to certain diseases communicable amongst cattle, sheep and swine, and provides for the separation of diseased animals from healthy ones, for the disinfection and cleansing of vessels, trucks, &c., in which animals have been carried, and it defines the action to be taken to limit and prevent the extension of disease. It also deals with certain forms of disease communicable by animals to man.

The Board of Agriculture, under the powers of this Act, issue orders from time to time dealing with diseases of animals, or with their protection during transit. The Board also prescribes the manner under which animals may be imported or moved from place to place.

The Swine Fever Order, 1901, makes provision for the cleansing and disinfection of pig dealers' premises, and vehicles used by pig dealers, for the conveyance of swine from steamers through the City to pig dealers' premises.

The Swine Fever (Movement from Ireland) Order, 1904, provides that all pigs coming from Ireland must be marked on the loins with a red +, and must be accompanied by a license. These pigs must only be moved for the purpose of slaughter.

The Sheep Dipping (North of England) Order, which came into force on April 9th, 1906, provides that all sheep within the prescribed area, which includes Liverpool, shall be dipped twice during the year. The accompanying table gives the statistics of the proceedings taken under the Acts or under the Orders of the Board of Agriculture:—

		1906.	1907.
Number of	Visits to Railway Stations, including inspec-		
	tions made on Sundays	2,993	3,144
,,	Inspections of Pens	104,158	107,447
,,	found clean	74,388	76,823
	,, dirty and cleansed before being used	29,770	30,624
,,	Inspections of Trucks	47,366	48,809
,,	found clean	40,642	42,710
,,	,, dirty and cleansed before being used	6,724	6,037
,,	,, leaving the City before being cleansed,	_	62
,,	Inspections of Horse Boxes	290	447
,,	found clean	106	189
,,	,, dirty and cleansed before being used	182	239
,,	,, ,, not ,, ,, ,, ,,	2	19
,,,	Inspections of Vessels	8,406	8,712
23	found clean	3,482	3,754
,,	" dirty and cleansed before being used	4,853	4,873
,,	,, going to Sea before being cleansed,		
	without cattle or cargo	71	85
- 11	Inspections of Gangways	9,166	9,060
,,	found clean	7,932	7,453
17	,, dirty and cleansed before being used	1,234	1,607
,,	Inspections of Lairage and Sale Yards	5,688	5,655
,,	found clean	3,430	3,474
,,	,, dirty and cleansed before being used	2,258	2,181
,,	Carts used to convey Pigs, inspected	2,412	2,468
,,	found clean	2,002	2,069
21	dirty and cleansed before being used	410	399
,,	of visits to Manure yards and wharves	516	477

An information was laid under the Animals (Transit and General) Order for carrying 17 shorn sheep on the upper deck of a ship, between 30th November, 1906, and 13th April, 1907. A fine of £5 and costs was inflicted.

INSPECTION OF SLAUGHTER-HOUSES, &c.	1906.	1907.
Number of Visits to Slaughter-houses made by Meat Inspectors	7,121	7,306
Number of Visits to Butchers' Shops made by Meat Inspectors	66,081	63,852
Number of Visits to Fish and Fruit Shops made by Fish Inspectors	59,087	59,415
Number of Visits to Fruit Shops made by Fruit Inspector	18,192	18,993

FISH PLATFORMS.

Number of Visits made by District Sanitary Inspectors	1906. 23	1907.
POULTRY DEPOTS.		
Number of Visits made by District Sanitary Inspectors	565	444

RETURNS OF ANIMALS KILLED IN THE CITY SLAUGHTER-HOUSES, AND OF MEAT IMPORTED FOR SALE.

The number of fat cattle from local dairies slaughtered in the City during 1907 was 1,548.

The small number of cattle slaughtered in the City is probably due to the importation of States cattle, and also to the importation of frozen meat chiefly from the River Plate district.

There is a slight increase in the number of sheep slaughtered, and a large increase in the number imported, as compared with the year 1906.

With regard to pigs, it will be noticed that there is a large increase in the number killed in the City, and a decrease in the number imported.

						Dead 1	Meat In	ported f	or Sale.
STREET.	Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Beasts.	Sheep.	Pigs.	Calves
Abattoir.	4334	173486	-	17553	44009	52808	331601	31582	1197
Allerton Road, Wavertree	577	4817	1	52	152				
Back Butler Street	243	934	235	10					
Back Castle Street	281	14		1720					
Back Commutation Row									
Back Mount Vernon Green	258	2160	389	5		***			
Bevington Hill	689	179	1	208					
Copperas Hill					5799				
Corlett Street		2490	668						
Cotter Street									
Carried forward	2048	10594	1294	1995	5951	52808	331601	31582	1197

RETURNS OF ANIMALS KILLED IN THE CITY SLAUGHTER HOUSES

AND OF MEAT IMPORTED FOR SALE-Continued.

						Dead :	Meat Im	ported f	or Sale
STREET.	Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Beasts.	Sheep.	Pigs.	Calve
Brought forward	2048	10594	1294	1995	5951	52808	331601	31582	1197
Derby Lane, Old Swan	***	605	226						
Edgeware Street	124	371	260						
Foley Street					6296				
Frederick Street	37	2384	277	18	411	***			
101, High Street, Wavertree	70	360	40	1	6				***
105, High Street, Wavertree.	14	215	1	8	16				
Norman Street					1807				
Peel Street	13	953	211		21				
Prescot Road, Knotty Ash	4	728	156	24	33				
Sandown Lane, Wavertree	42	617	458						
Sidwell Street, Garston	163	93		12	165				
Soho Street					2757				
St. Mary's Road, Garston	4	43			9				***
Upper Milk Street					6374				
West Derby Road, Tue Brook	112	1405	395	17	201				
Total in Private Slaughter- houses	2631	18368	3318	2075	24047				
Total in the City	6965	191854	3318	19628	68056	52808	331601	31582	1197

PRECEDING YEAR.

Total in Private Slaughter- houses	2545	16616	4837	1930	22249	1		7	1
Total in the City	6228	188636	4837	18410	58294	57780	320486	34063	1057

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

	DATE.—1907.	Beef.	Veal.	Mutton and Lamb.	Pork.	Poultry.	Rabbits and Hares,	Fish.	Shell fish.	Fruit.	Miscellaneous.
		Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags	Lbs.	
TS.	St. John's	6981	50	560	230	2179	436	83891	89	288	90 lbs, Venison 200 Oysters.
MARKETS.	St. Martin's	42									
M	North Haymarket						32			34200	
	/Abattoir	154680	7744	19237	19628	19	24	***			
	Allerton Road	143						***			
	Back Butler Street	1826						***			
-2	Back Castle Street	28319	1812	323							
USE	Bevington Hill	25886	738	49							
SLAUGHTER-HOUSES.	Copperas Hill				2927						
HTEI	Foley Street				528						
AUG	Norman Street		***		163						
SS.	Peel Street	25		***							
	Prescot Road, K.A	30	***					***			
	Sidwell St., Garston	1495			168						•••
	Soho Street				406			***			
	Banastre Street (Cold Storage)	952								***	
	Bronte Street	1229									***
	Brownlow Hill	4									
	Brunswick Place	1465									***
	Canada Dock	13811									
	Candia Street					5					
	Cazneau Street						75				
	Carried forward	236888	10344	20169	24050	2203	567	83891	89	34488	90 lbs. Venison, 200 Oysters.

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UNWHOLESOME MEAT, FISH, FRUIT, &c., SEIZED AND DESTROYED.—Contd.

DATE.—1907.	Beef.	Veal.	Mutton and Lamb.	Pork.	Poultry.	Rabbits and Hares.	Fish.	Shell-Fish.	Fruit.	Miscellaneous,
	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags	Lbs.	
Brought forward	236888	10344	20169	24050	2203	567	83891	89	34488	90 lbs. Venison 200 Oysters
Church Street							140			
Cleveland Square	600									
Crown Street				19						
Cumberland Street									11848	
Currie Street			10		177			***		
Daulby Street	1368	***		24						
Edge Hill Station	32		112	2312			60	4	4106	
Elliot Street	40									
Falkner Street	187			10						
Frederick Street				450						
Fox Street	15		60	16						
Gill Street	384					***				
Gt. Charlotte Street	33300			1800			7540		10442	
Gt. George Place	140									
Gt. Homer Street	1335		629	324						
Gt. Howard Street	660									
Gt. Nelson Street	***								2220	
Kensington				2						
King Street							448			
Kirkdale Road	27									
Lime Street Station				112			2540			
Carried forward	274976	10344	20980	29119	2203	567	94619	98	63104	90 lbs. Venison 200 Oysters.

UNWHOLESOME MEAT, FISH, FRUIT, &c., SEIZED AND DESTROYED.—Contd.

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DATE.—1907.	Beef.	Veal.	Mutton and Lamb.	Pork.	Poultry.	Rabbits and Hares.	Fish.	Shell-Fish.	Fruit.	Miscellaneous.
	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	Lbs.	
Brought forward	274976	10344	20980	29119	2203	567	94619	93	63104	90 lbs. Venison 200 Oysters.
Mill Street	41									
Moor Place				39			***			
North John Street	1600			114						
Paddington	66			15						
Park Road	5			19					***	
Park Street	100									
Pitt Street	118		158		336		3360			
Prescot Street	·			11						
Prince Edwin Street			36							
Queen Square					13				33856	
Queen's Dock				53780		***				
Rainford Gardens	***								600	
Ranelagh Street			44	***			200		12	
Regent Road	590	96	1050			***				
(Cold Storage) Richmond Row									***	286 lbs. Cheese 1,500 Oysters
Roe Street					280		3732			1,290 Eggs
Rose Street					204	904	24688			2,000 Oysters
Russell Street	298									
St. James Street	17			***						
Scotland Road	1735		330							
Soho Street	6						***			
Springfield Street	50									
Stanley Street									132362	
Carried forward	279602	10440	22598	83097	3036	1471	126599	98	229934	90 lbs. Venison. 3,700 Oysters. 1,290 Eggs. 381b . Ch eese.

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UNWHOLESOME MEAT, FISH, FRUIT, &c., SEIZED AND DESTROYED.—Contd.

DATE.—1907.	Beef.	Veal.	Mutton and Lamb.	Pork.	Poultry.	Rabbits and Hares.	Fish.	Shell-Fish.	Fruit.	Miscellaneous.
Brought forward	Lbs. 279602	Lbs.	Lbs. 22598		Head 3036		Lbs. 126599	Bags.	Lbs. 229934	90 lbs. Venison 3,700 Oysters. 1,299 Eggs.
Strand Street	1600									286 lbs. Cheese
Temple Court									31456	
Trowbridge Street	757		76	1798						
Tryon Street									400	
Upper Milk Street				220						
Upper Pitt Street				102			***			
Vernon Street	·							***	6170	
Victoria Street			375	5660	3		302		21476	
Wapping									2850	***
West Derby Road			25	254						***
William Henry Street	9									
Window Lane	1514			8						
Total	283482	10440	23074	91139	3039	1471	126901	93	292286	90 lbs. Venison 3,700 Oysters, 1,299 Eggs. 286 lbs. Cheese

Much of the fruit-sorting is carried on at the Cazneau Street Market, as it is more convenient that it should be done here than elsewhere. Considerable care, however, is necessary to prevent children making off with the putrescent fruit which in the process of sorting has been thrown into the receptacles intended for it.

The nuisance has been dealt with by the Market constables and the staff of the Health Committee, but great strictness is necessary in excluding the little children in question from the Market. The total amount of Meat, Fish and Fruit, &c., found to be unfit for human food is equivalent to—

		Tons.	Cwts.	Qrs.	Lbs.
Meat	 	182	4	3	13
Fish	 	56	13	0	5
Fruit	 	130	9	2	22

and this does not include Fish removed as refuse by Officers of the Cleansing and Scavenging Department under the City Engineer.

The great bulk of this material was not exposed for sale, and did not require a Justices' order for its destruction.

The quantity of fish seized includes both fresh fish and salt fish which had become tainted during transit or storage, a regrettable waste of food.

Fish and fruit unfit for human food are removed by the Corporation carts to the Manure Wharf, and there mixed with stable and other light refuse and sold for agricultural purposes. The Wharf is situated on the canal bank, and the manure is loaded into canal boats for conveyance to its destination. The whole of the operation is supervised by officers of the Health Committee.

EXPORT OF HAMS TO ARGENTINA.

Towards the close of last year it was announced that the Government of Argentina proposed to establish a rigid system of inspection of all hams imported into that country. Exporters in this country regarded this decision with some apprehension, as likely to interfere with the importation into Argentina of hams and bacon prepared in this country.

A form of certificate however was devised which met the requirements of the Consul General for Argentina, and received the approval of this Government. This form of certificate has been signed by the Medical Officer, and has tended so far to remove the apprehended difficulty by giving an assurance of the excellence of the materials and the fitness of the premises on which they are prepared.

The Local Government Board have now made the following Regulations with regard to the matter:— In view of the Regulations issued on the 4th October, 1906, by the Argentine Government with regard to the sanitary inspection of meat foods, the Local Government Board, at the request of the Foreign Office, have formulated the following conditions to be complied with by traders in England and Wales who prepare or pack meat foods for export to Argentina and who desire that such exportations should be accompanied by an official attestation of precautions taken to safeguard the wholesomeness of the foods in question:—

(A.)—Requirements to be fulfilled by persons manufacturing or packing meat products.

Such persons should make application to the Board* for approval or designation of an officer to act as certifying officer for the purpose in question until the Board shall otherwise determine. Such application should state:—

- Name and address of firm; situation of trade premises concerned, and sanitary district in which these premises are comprised.
- Nature of meat foods habitually exported or proposed to be exported.
- 3. How the firm is interested, i.e., whether as manufacturers of the foods, or as packers for export to Argentina, or both, together with any details necessary to explain how the export to Argentina of the meat foods with which the firm is concerned takes place, and where the foods in question have been prepared.
- 4. Whether application has already been made to any, and if so what, Medical Officer of Health for a certificate regarding the premises in question; whether any such certificate has been given or refused by him; and whether any certificate regarding meat foods despatched to Argentina has been given by any officer of the local authority or other person who is not the Medical Officer of Health of the district.

^{*} Applications in respect of trade premises situated in Scotland or Ireland should be made to the Local Government Board of Scotland or Ireland, as the case may be.

5. That the applicant undertakes that he will give all necessary facilities to the certifying officer or his representatives, or to any officer of the Board, in the matter of access, inspection, sampling, and like matters, and that he will not withhold any information which the certifying officer may require in connection with the issue of certificates. This undertaking is required notwithstanding that the certifying officer, if he is Medical Officer of Health of the district, is already in the possession of statutory powers under the Public Health Act, 1875, or other Acts, in relation to inspection of premises and seizure of unsound food.

(B.)—Conditions to be observed by certifying officers.

The Medical Officer of Health of the district or other certifying officer designated by the Board is required to keep himself informed, by personal inquiry and in other available ways as to:—

- Structure and character of premises on which the meat foods are prepared, stored, or packed (as the case may be) in regard to opportunities of objectionable or unwholesome contamination of these foods, at any stage of their preparation, storage, or packing.
- Cleanliness and wholesomeness of methods employed in preparing, storing, or packing the meat foods in question.
- 3. Precautions taken to avoid the utilisation for food purposes of diseased, unsound, or unwholesome meat in any portion of the premises; and arrangements safely to dispose of any meat which, on account of disease, unsoundness, unwholesomeness, or for any other reason, is unfit for human food.

If the information obtained by the certifying officer in regard to (1), (2) and (3) above is not in his view satisfactory, certification is to be withheld.

Information is forthwith to be given to the Board by the certifying officer in any instance where he has refused to grant a certificate.

The certifying officer will, as and when requested by the Board, give such information as may be required by them in regard to the methods of inquiry, inspection, and certification which have been adopted in regard to the premises in question.

(C.)—Forms.

Forms of declarations to be used by manufacturers and exporters, and forms of certificates to be given by the authorised certifying officers are appended.

(D.)—Discontinuance of Certification.

If the Board have reason to believe that improper use is being made at any time of any declaration, or of any certificate given by a certifying officer respecting any premises, the Board will cease to authorise the issue of official certificates in respect of such premises.

APPENDIX.

- FORMS OF DECLARATIONS TO BE USED BY MANUFAC-TURERS AND EXPORTERS, AND OF CERTIFICATES TO BE GIVEN BY THE AUTHORISED CERTIFYING OFFICERS, IN CONNEXION WITH THE EXPORT OF MEAT FOODS TO ARGENTINA.
- (A.) Forms of Declaration and Certificate to be used where the Meat Foods are prepared, stored, and packed on, and dispatched for Export from, one and the same Premises.

	(1.) Declaration bymanufacturer of meat foods
	in the
	I (or we)hereby declare that the whole
Specify articles.	of the meat foods as follows:*
T	packed in cases marked†
Insert narks &c.	and shipped perhave been prepared, stored, and
Insert	packed on, and dispatched from, the premises ‡
iddress.	(Signed)
	Date

(2.) Certificate bya person designated by	
the Local Government Board as Certifying Officer in connexion with the	
export of meat foods to Argentina.	
I hereby certify that the establishment‡	
situate in the	
foregoing declaration, has been and remains under the system of sanitary	
supervision prescribed by the Memorandum of the Local Government	
Board on Argentine Meat Food Certification.	
(Signed)	
Date	
N.B.—The date in the certificate should in all cases be filled up by the Certifying Officer.	
(B.) Forms of Declaration and Certificates to be used where the	
MEAT FOODS ARE STORED AND PACKED ON, OR DISPATCHED FOR	
EXPORT FROM, PREMISES OTHER THAN THOSE ON WHICH THEY	
ARE PREPARED.	
(1.) Certificate bya person designated by	
the Local Government Board as Certifying Officer in connexion with the	
export of meat foods to Argentina.	
I hereby certify that the establishment*	* Insert
situate in the	address of the
under the system of sanitary supervision prescribed by the Memorandum	
of the Local Government Board on Argentine Food Certification.	prepared.
(Signed)	
Date	

	(2.) Declaration byoccupiers of the								
† Insert address of premises on	premises† borough.								
which the goods have been stored,	I (or we)hereby declare that								
packed, or dispatched for export.	theţpacked in cases								
‡ Specify articles.	marked§and shipped per								
§ Insert marks, &c.	have all been prepared at the establishment*								
	referred to in the foregoing Certificate (1), and that they have been								
	stored and packed on, dispatched for export from, the premises†								
	(Signed)								
	Date								
	(3.) Certificate by a person designated by								
	the Local Government Board as Certifying Officer in connexion with the								
	export of meat foods to Argentina.								
	I hereby certify that the premises†								
	situated in the								
	foregoing Declaration (2), have been and remain under the system of								
	sanitary supervision prescribed by the Memorandum of the Local Govern-								
	ment Board on Argentine Meat Food Certification.								
	(Signed)								
	Date								

N.B.—The date in the certificate should in all cases be filled up by the Certifying Officer.

ANIMALS SMOTHERED AND INJURED IN TRANSIT ON BOARD SHIP.

Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of bad pounds,
30	49	121	155	45	10,959

Police proceedings in respect to meat, poultry, fruit, etc., were as follows:—

Tollows :								190	6.	19	07.
Number	of inform	nations in	n respect	of d	iseased	poultry		2	_		1
,,		11.		,,	,,	meat		19		1	2
,,		,,			nsound	fruit					1
,,		,,		,,		fish		-			3
,,		,,		,,	,,	eggs		1		-	-
		Total n	umber of	f Inf	ormatio	ns		22		1	7
Number	Fined							13		1	5
,,	Sent to	Prison						-			-
23	Withdr	awn or I)ismissed	l		***		9			2
Amount	of Fines	and Cos	ts			£117	15	3	£60	6	0
			-		1906.	_	19	07.			
during Officer tors u	the year of Hear	arcases ear by M lth and I tion 116 Act, 187	ledical nspec- of the	118 1,691 114	Sheep	16	$\frac{174}{335}$	Ca Sl Sl Pi	attle alves neep igs oats		
			al	2,23	3	-	998	3			
conder section	mned by	such ca Justices of the 1 875	under Public		4			}			
Number	of carca quence g suffere	of the a	ized in nimal	19	3 Catt	le	3		attle alves gs		
		Tot	al	19)3		200)			

Of the 142 Tuberculous Cattle condemned, 26 came from local shippons, and 116 from Ireland and other places. Of the 54 Pigs, 2 came from the Isle of Man.

^{*} The remainder were dealt with under a Local Act, which does not require a Justices' Order.

GLANDERS AND FARCY.

The Health Committee have made regulations under the Diseases of Animals Act and the Glanders and Farcy Order of 1896 which have been circulated amongst the horse-owners in the city. Accompanying these regulations were notices indicating the means of combating the disease and the necessary precautions to be taken.

The following table indicates the number of affected animals during the last three years:—

Year.			No. of Cases.
1905		 	 2
1906		 	 2
1907	***	 	 1

Immediate notification of actual or suspected cases of Glanders is received either from the owner, police, or the Veterinary Surgeon who may be called in to the case, or from the Horse Slaughterer's yard (there is only one in the city).

Horses imported from the North American Continent are submitted to Veterinary examination.

In 1907, 84 horses were inspected by the Veterinary Surgeons of the Corporation at various yards throughout the city, but chiefly at the American Horse Repositories, Stanley.

In addition to the above, 147 imported horses were examined, in the first instance immediately upon arrival at the various yards in the city (some of these horses were landed outside the boundary and brought into the city by rail), and again re-examined at the sale-yards on the morning of sale. In addition, about 5,000 horses were examined at sale-yards.

There was no evidence of contagious disease in any of the imported horses, and their condition on the whole was very good.

In further reference to Glanders and Farcy, it may be mentioned that the Veterinary Superintendent has caused the lungs of all horses sent to the Knacker's yard to be submitted to examination, and he is able to report that no case of contagious disease has been found to exist.

This precaution is taken to ensure owners being immediately notified of the existence of the disease, which may be in a latent state, and also to protect the public from unscrupulous persons who may not conform to the requirements of the act.

Lungs Examined.	Glandered.	Not Affected.
1,799	_	1,799

EXAMINATION OF CATTLE AND SHEEP.

At the Liverpool Cattle Market during 1907, the following numbers of animals were inspected by Veterinary Surgeons of the Corporation:—

Cattle	 	 	 58,792
Sheep	 	 	 345,556
Calves	 	 	 34

No cases of infectious disease were found.

LIVERPOOL PARASITIC MANGE ORDER, 1906.

Under this Order Veterinary examinations are made of all animals suspected of being affected with Parasitic Mange, and in the case of affected animals they are immediately isolated and kept under observation until the disease has entirely disappeared. Thorough disinfection of the premises, harness, utensils, feeding troughs, &c., is carried out under the supervision of Inspectors of the Medical Officer of Health.

The following table gives the number of examinations made and animals affected, &c.:—

Number of Animals and Carcases examined.	Affected.	Died or Slaughtered.	Recovered.
473	82	53	29

ANTHRAX.

There were four cases of anthrax in animals reported during the year. In three of the cases the carcases were found in shippons, and one at the Abattoir, Trowbridge Street.

A portion of the carcase was in each case submitted to Professor Boyce, who certified that the animals from which they were taken were affected with anthrax.

The shippons where cases occurred were immediately cleansed and disinfected, all the manure burned, and samples of foodstuffs were in each case submitted for bacteriological examination, with the result that no Anthrax bacilli were found present.

Date. 1907.	Total number of Animals on premises where disease occurred.	Died.	Killed by order of owner.	Locality,	Remarks.
April 24th	10	1	1	Vickers Street	Fined £5 and costs for removing carcase to Abattoir without giv- ing notice, second cow died 3rd May.
Sept. 30th	. 9	1	-	Beaufort Street	
Nov. 20th	20	1	-	Tetlow Street	

Details of previous cases of Anthrax appear in the Annual Report of 1906.

SWINE FEVER ORDER.

With a view to facilitate the trade in the import of pigs from Ireland, and in order to fulfil the obligations of the Board of Agriculture, certain premises have been scheduled by the Health Committee to which pigs may be licensed, viz.:—

Stanley Cattle Market; pens at South end of the East side of the Nelson Dock; pens at East side of the Collingwood Dock; pens at South-west side of the Collingwood Dock; pens at South end of Prince's Pierhead.

The exigencies of the import trade appear to be met by this arrangement, the pigs being re-licensed after sorting at the places named. Objection to the arrangement was raised on the grounds that these premises were used for market purposes. An investigation was made into the matter, but it was found desirable, on the whole, that the arrangement should continue.

PIGGERIES.

There were 16 applications to keep pigs during the year; 14 of such applications, involving 121 pigs, were granted. Three hundred and sixty-six visits were paid to piggeries during the year.

RABIES.

In conformity with the requirements of the Board of Agriculture, reports were sent to the Board in respect of five suspected cases of rabies. Bacteriological examination was made in all the cases, and post mortem examinations were made by the Veterinary Inspectors. There were no signs that any of the animals had been affected with rabies. One live dog, reported by the Police Authorities to the Board of Agriculture as being a suspected case of rabies, was examined on 17th and 18th April by the Veterinary Inspector, who certified that the animal was not affected with rabies.

DAIRIES, COWSHEDS AND MILKSHOPS

There is no change in the method of procedure respecting the licensing of cowsheds and the registration of dairies, milkshops and milkstores.

STATISTICS RESPECTING COWSHEDS.

NT	-fliti							1907.
Number	of application		ep cows viously li			not		11
,,	"	granted						8
,,	cows applie	d for on a	bove app	lication	š			168
,,	grante	ed						146
,,	applications	in abeyar	ice pendi	ng alter	rations			1
,,	,,	refused						2
,,	,,	for trans	sfer to fi	esh ten	ants o	of cows	sheds	
		previo	ously lice	nsed				41
,,	,,	granted						41
,,	,,	to keep						
			vhich th	e licen	se wa	s origi	nally	
		9	ranted					39
"	"	granted						39
*,	,,	refused						-
,,	additional c	ows applie	ed for					63
,,	"	grante	ed					55
,,	Cowsheds o	n the regi	ster 31st	Decem	ber, 19	906		466
,,	,,	,,	,	11	19	907		462
Number	of cows license	ed to be ke	ept withi	n the ci	ty area	b		6,734

The increased number of applications for additional Stock is due to licenses being granted to keep additional cows in place of horses removed from the cowsheds. During the past year the attempt has been continued to remove all horses which were kept in cowsheds. Forty-five horses have been so removed from thirty-eight cowsheds and licenses granted to keep forty-seven cows in their places.

COWSHED INSPECTION.

					1906.	1907.
Number	of Inspections of Co	wsheds	3		4,266	4,297
,,	found Incorrect				*402	82
,,	of Informations				7	8
,,	Fined				4	7
,,	Withdrawn			***	3	1
Amount	of Fines and Costs				£6 17 6	£10 0 0

One hundred and fifty-nine notices have been issued to occupiers directing their attention to contraventions of the regulations.

Number of cowsheds in the city during the years 1898 to 1907 inclusive, together with the number of cows licensed to be kept, and the number of applications for new cowsheds:—

	Cowsheds.		Cows.	App	licatio	ons.
1898	 435		5,695		13	
1899	 434		5,851		2	
1900	 437	***	5,905		5	
1901	 443		5,909		6	
1902	 442		6,068		16)	Incorporation
1903	 447		6,214		12)	of Garston
1904	 449		6,359		7	
1905	 456		6,426		17	Incorporation of Fazakerley
1906	 466		6,666		7	
1907	 462		6,734		11	

^{*}The large number of Cowsheds found incorrect is due to visits made to various premises undergoing alterations in Fazakerley.

MILKSHOPS.

							1907.
Number of	Application	ns for re	gistration			 	134
	of whi	ch trans	fers were			 	94
,,	above App	lications	granted			 	129
,,	,,	,,	in abeyance			 	3
,,	,,	,,	refused			 	_
,,	"	,,	withdrawn			 	2
Number of	Milkshops	on the r	register at the	end of	1903	 	812
,,	,,	,,	,,		1904	 	790
,,	,,	,,	,,		1905	 	789
,,	,,	,,	,,		1906	 	826
,,	,,	,,	,,		1907	 	846

DAIRIES AND MILKSHOPS INSPECTION.

						1906.	1907.
Numbe	r of Inspections of	f Dair	ries and	Milks	shops	6,472	7,737
,,	found incorrect					144	77
,,	of Informations					13	15
,,	Fined					12	14
,,	Withdrawn					1	1
Amoun	t of Fines and Cos	sts			£	20 16 0 4	£20 6 0

One hundred and twenty caution notices have been issued to occupiers of milkshops for contraventions of the Regulations.

LEAVELOOKERS' VISITS TO SHIPPONS FOR THE PURPOSE OF

EXAMINING COWS.

No. of Visits.	No. of Examinations of Cows.	No. found Healthy.	No. found ill.	No. referred to the Veterinary Surgeon.
1,662	20,752	20,592	160	160

ICE CREAM MAKERS AND VENDORS.

The usual inspections have been made of the premises utilised by the street traders solely for manufacturing ice cream.

The dwellings which these street traders occupy have also been kept under observation, and in no instance during the past year have they been found to make or store ice cream in or about their dwellings.

A systematic inspection has also been made of shopkeepers' premises which are used for the manufacture and sale of ice cream.

					1906.	1907.
Number of pres	nises under	Inspec	tion		 827	786
,, visi	ts made				 2,298	2,395
,, cau	tion notices	issued			 47	23
" Info	ormations				 1	3
,, Fine	ed				 _	3
,, Wit	hdrawn on	paymer	nt of o	costs	 1	_
Amount of Fine	es and Costs				 £0 4 6	£2 8 6

TUBERCULOSIS AND THE MILK SUPPLY.

Early in 1907 the Second Interim Report of the Royal Commission on Tuberculosis was issued. Their conclusions are as follows, viz.:—

"There can be no doubt that in a certain number of cases the tuberculosis occurring in the human subject, especially in children, is the direct result of the introduction into the human body of the bacillus of bovine tuberculosis; and there also can be no doubt that in the majority at least of these cases the bacillus is introduced through cows' milk. Cows' milk containing bovine tubercle bacilli is clearly a cause of tuberculosis, and of fatal tuberculosis in man.

"A very considerable amount of disease and loss of life, especially among the young, must be attributed to the consumption of cows' milk containing tubercle bacilli. The presence of tubercle bacilli in cows' milk can be detected, though with some difficulty, if the proper means be adopted, and such milk ought never to be used as food. There is far less difficulty in recognising clinically that a cow is distinctly suffering from tuberculosis, in which case she may be yielding tuberculous milk. The milk coming from such a cow ought not to form part of human food, and indeed ought not to be used as food at all.

"Our results clearly point to the necessity of measures more stringent than those at present enforced being taken to prevent the sale or the consumption of such milk."

These conclusions indicate very definitely the necessity for further legislation for the whole country upon the lines of the Liverpool Corporation Act of 1900.

The Liverpool and District Cowkeepers' Association have done very valuable work in improving the milk supply of the City.

LIVERPOOL CORPORATION ACT, 1900.

The number of actual or suspected cases of tuberculosis in cattle again shows a very considerable diminution on the previous year, thus bearing out the fact that by a thorough examination and constant supervision the ravages of this disease amongst cattle may be successfully combated.

The examination of cows and cowsheds within the city has been duly carried out throughout the year, and all cases of sickness amongst the cattle are reported by the Leave-lookers. In cases where the cows are reported to be suffering from any disease of the udder, or any other disease likely to be inimical to the public health, the Medical Officer of Health directs that the animal be submitted to Veterinary examination and reported upon. Should clinical symptoms of tuberculosis of the udder be in evidence, the cow is either removed from the shippon for slaughter or kept strictly isolated pending a definite conclusion of the case, the milk, of course, being either thrown away or boiled and used only as food for swine.

The following is a table showing the number of visits which it was necessary for the Veterinary Inspectors to make to shippons within the city boundary.

YEAR.	No. of Visits to Town Shippons.	No. of Cases notified by Owners.	No notice given.	No. of Cows examined.	No. of Cows not affected.	No. of Cows Suspicious of Tuber- culosis of the Udder.	No. of Convictions for Offences under the Act.
1901	40	_	_	59	32	27	
1902	12	-	-	13	7	6	1
1903	61	27	34	121	97	24	. 7
1904	305	168	137	665	595	70	12
1905	239	176	68	298	241	57	1
1906	198	172	26	225	211	14	-
1907	188	137	51	238	235	3	-
Totals	1048	680	311	1619	1418	201	21

MILK SUPPLIED FROM OUTSIDE THE CITY BOUNDARIES.

Under the Liverpool Corporation Act, 1900, Inspectors systematically visit various places supplied with milk from the country, including the railway stations and hospitals, and there take samples. These samples are then submitted to bacteriological examination. Should they be found to contain tubercle bacilli (the germs of consumption), the Veterinary Superintendent or his Assistant, accompanied by the Medical Officer of Health or his representative, and furnished with an Order signed by a magistrate resident within the county from which the milk is consigned (as prescribed by the Act), visits the farm or dairy and examines the stock therein. The cowsheds from which the affected supplies have been derived are situated in the counties of Cheshire, Lancashire, Staffordshire and Shropshire, and in North Wales, the first named being the largest dairy district in the United Kingdom.

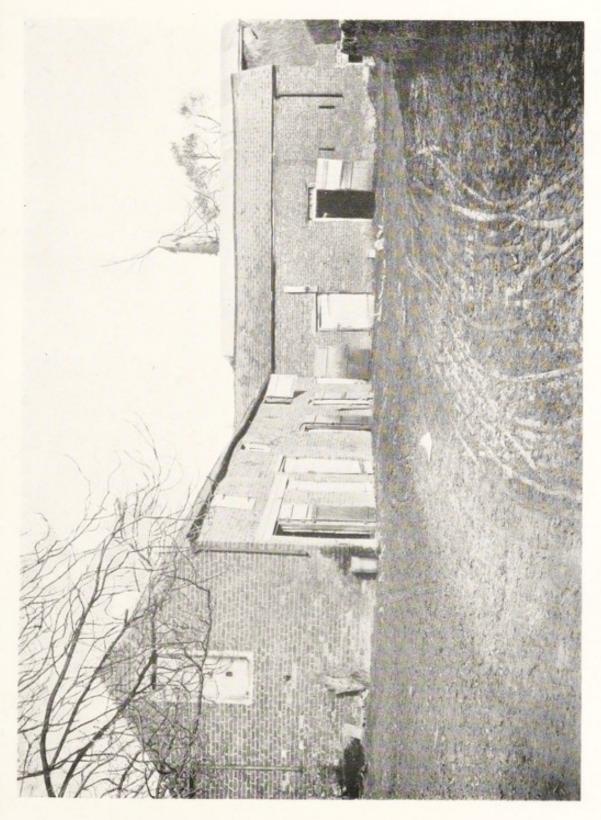
The country shippons generally are found to be much inferior (from a sanitary point of view) to those within the City of Liverpool, and although, owing to the passing of the Liverpool Act, they have been greatly improved, there are many which are in a most unsatisfactory condition. In a number of cases farmers have expressed their approval of the beneficial results of the inspections made by the Liverpool Authorities owing to the consequent improvements made in the premises by the landlords.

The cattle also are neither so good, nor are they kept in the same cleanly condition, as those of the city.

Another series of photographs are inserted illustrating a cowshed in the country from whence tubercular milk was sent to the city.

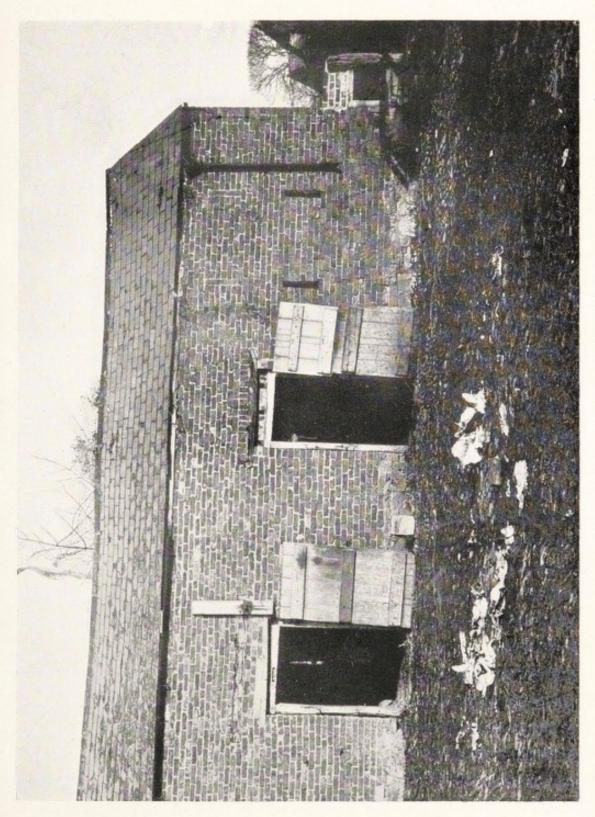
When tuberculosis of the udder is suspected the necessary proceedings are taken as prescribed by the act. They are similar in principle to those adopted within the city. Samples of milk are also taken from suspected animals, and submitted to a further bacteriological test to verify the diagnosis of the case. In the meantime the animals are isolated, and the milk dealt with as in the city.

It is not possible in all cases to find evidence of disease of the udder in the herd, the explanation usually being that the animals have been sold during the time which elapses between the taking of the sample in Liverpool and the visit of the Corporation officials to the farm.



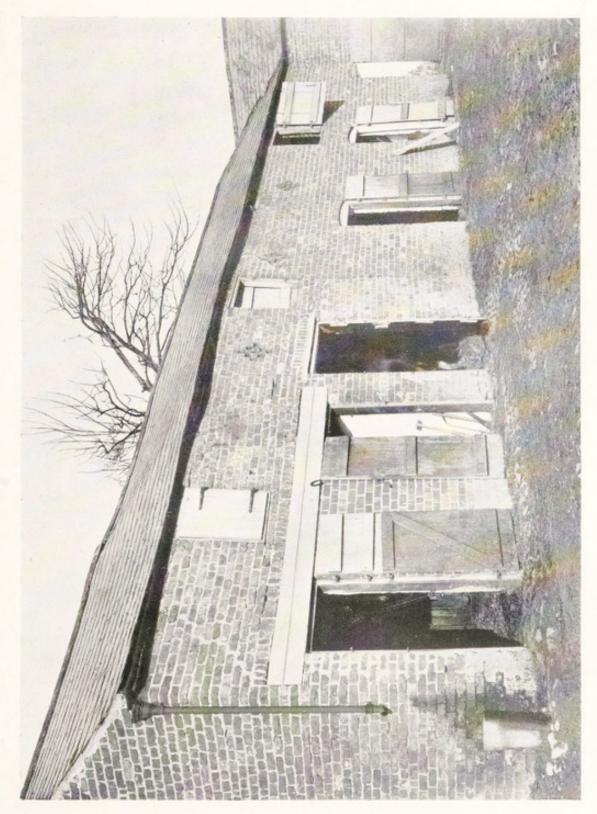
General view of a Farm-yard in Denbighshire which includes shippon, stable, and food-house. The near approach to the farm-yard is unpaved; the yard immediately in front of the building consists of kidney stones, very much sunken in several parts. The open doors lead to the cowsheds, closed doors to stable and food-house.





Enlarged view of the same Cowsheds.





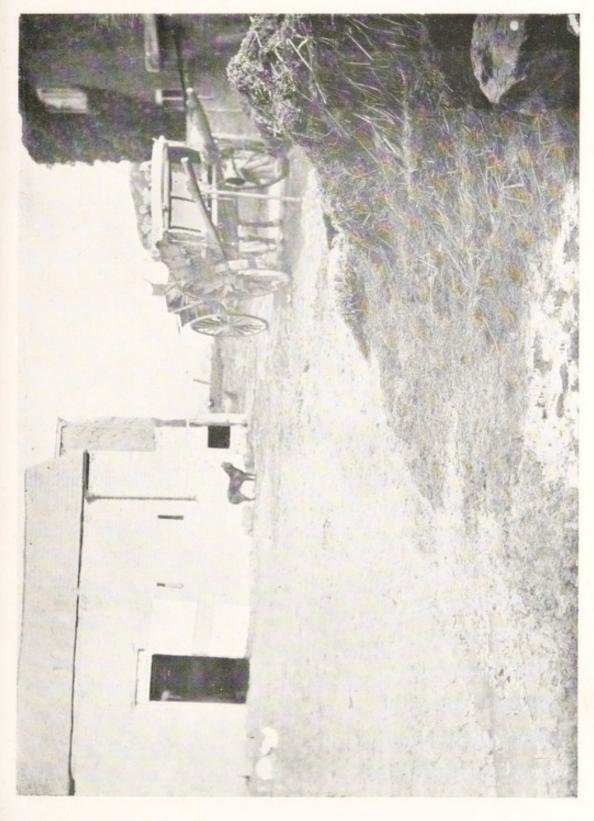
Enlarged views of the same Cowsheds shown on No. 1, the defective pavement being more clearly shown.





A Denbighshire Cowshed from which Tubercular Milk was sent into
Liverpool, the premises being deficient in light, ventilation and cleanliness.
Practically the only light and ventilation is from the doors, and when these are closed the place is without light or ventilation. An order was made prohibiting the supply of Milk from this Cowshed to the City of Liverpool.





Shows Cowshed and part of a carelessly kept Manure heap, and immediately in front, pools of foul water lodging in sunken parts of the yard.



Affected animals are usually disposed of for slaughter, but, it is to be regretted they are occasionally found to have been sold as milking cows, and, as a natural consequence, upon going into other herds would be likely to further disseminate the disease.

The following table gives statistical details concerning visits to farms outside the city boundary:—

YEAR.	No. of Visits to Farms.	No. of Shippons Examined.	No. of Cows Examined.	No. of Cows Suspicious of Tuberculosis of the Udder	No. of Convictions for Offences under the Act.	No. of Orders Prohibiting the Sale of Contaminated Milk within the City.
1901	18	40	351	20	1	4
1902	22	66	760	18	3	3
1903	15	32	364	10	3	2
1904	18	89	604	19	1	5
1905	10	20	266	. 9	4	1
1906	14	25	391	10	6	1
1907	13	31	462	7	1	1
Totals	110	253	3198	93	19	17

Local Authorities in Rural Districts are often negligent in regard to the supervision of cowsheds. In every district, Bye-laws should be made and enforced in accordance with the Parliamentary powers given with this object.

Although the application of the act involves a considerable amount of time and expense on the part of the Liverpool Corporation and its officials, the result is that the city is protected to a great extent from the evils which follow an impure milk supply. The Local Authorities of many surrounding districts have also become alive to the necessity of insisting upon better sanitation of farms and cowsheds, and the farmers themselves in many instances show a willingness to be advised as to the best methods to adopt to keep their cattle and shippons in the most healthy and sanitary condition.

Finally, the inclusion mutatis mutandis of the principle of the Liverpool Act of 1900 in a general act which would be applicable to the whole country is absolutely necessary to safeguard the milk-supply of the country.

As a result of several combined meetings of the National Health Society and the National League for Physical Education and Improvement the following recommendations in regard to the supervision of the milk supply have been agreed upon:—

- 1.—That the periodical veterinary inspection of all cows, the milk of which is being offered for sale for human consumption, should be made compulsory throughout the United Kingdom.
 - (a) That the inspectors appointed under the provisions of Resolution 1 shall be qualified Fellows or Members of the Royal College of Veterinary Surgeons.
 - (b) It is desirable that, wherever possible, the Inspector should not be engaged in private practice.
 - (c) That the veterinary inspection should be not less frequent than quarterly, and should be undertaken by the County Councils and County Boroughs.
 - (d) That the Board of Agriculture should be urged to schedule Tuberculosis and make it a notifiable disease in the case of milch cows.
 - (e) That all forms of udder disease in milch cows should be made notifiable by the owner, and that the sale of milk from cows so affected should be prohibited by law, except on the certificate of the appointed veterinary inspector that the disease is not tuberculous nor of a character likely to affect the wholesomeness of the milk.
 - (f) That milch cows showing symptoms of tuberculosis (which may include cases of mammary tuberculosis) shall not be kept in the same field or premises with other milch cows.
 - (g) That the sale of milk for human consumption from clinically tuberculous cows should be prohibited by law, and that such milk should only be used for the feeding of other animals after effective sterilization.

2.—That it should be compulsory upon all Local Authorities to make and enforce Regulations under the Dairies, Cowsheds, and Milkshops Order (1885).

That a Bill be drawn up for the purpose of empowering the County Councils to supervise the execution of the Regulations and to take over and execute the powers of defaulting Authorities and charge the expenses to defaulting districts.

- 3.—That for the present system of Registration a system of annual licenses to Dairymen and their premises be substituted, such licenses to be granted and renewed only if the premises are kept in sanitary condition.
- 4.—That throughout the Amended Dairies, &c., Order, and the Regulations made under it, the responsibility of carrying out all structural alterations be placed upon the owner.
- 5.—That all Local Authorities be empowered to cause samples of milk intended for human food to be examined bacteriologically as well as chemically.
- 6.—That special provision be made to empower all Local Authorities to deal with the offence of the sale of Tuberculous Milk upon the basis of the Manchester, Sheffield, and Liverpool Clauses, but with such modification as may be necessary to prevent overlapping by different Local Authorities.

The County Councils to be empowered to take all necessary action in case of default.

7.—That the addition of preservatives constitutes adulteration, and, as shown by the Departmental Report (p. xxvii., 117), such addition is not necessary for the conservation of Normal Milk, produced, collected, and distributed under proper sanitary conditions.

MILK DEPÔTS.

The objects and work of the Milk Depôts have been explained in detail in the Report for 1906.

At these establishments a preparation is made from pure cows' milk so as to make it resemble human milk as closely as possible. This preparation is intended for the use of infants whose mothers are unable to suckle them, and who, but for it, would receive altogether unsuitable and deleterious food.

The problem of finding a complete substitute for the milk of a healthy mother has not been solved, and probably never will be solved, but when artificial feeding becomes necessary it is obviously important that the best possible substitute for mothers' milk should be available.

Great pains are taken to see that the milk is properly used; careful instructions are given, and the infants are visited either at their homes or are seen at the Depôts.

The expenditure and income of the Depôts since their establishment is shown on the appended table.

Since the initiation of the scheme in 1901, 13,050 infants have been fed upon humanised milk supplied either at the Milk Depôts or through dairies, the average age at the commencement of such feeding being three months and three-quarters; very few (765) were, from one cause or another, admitted after twelve months of age.

In the great majority of instances the infants thrived, increasing in weight and remaining perfectly healthy, notwithstanding that on admission they were as a rule in very indifferent health.

The rate of mortality amongst infants feeding on the humanised milk bears a highly favourable comparison with the rate of infant mortality throughout the City.

Customers on books, December 26th, 1906	402
Admitted December 27th, 1906, to December 31st, 1907	1,193
Total number of customers supplied	1,595
Supplied from Depôts	856
Supplied from Dairies	739
	1,595

Average age on admission during the year, 31 months.

The 1,193 customers admitted during the year have been supplied as follows:—

DEPOTS.		Under 12 Months.	Above 12 Months,	Adults and Children above 2 years	Тотаь.
52, Earle Road	,,,	 160	7	2	169
251, Netherfield Road		 111	5	5	121
37b, Park Road		 154	7	3	164
47, Cazneau Street		 105	5	2	112
107, Boaler Street		 47	4	1	52
53a, Hornby Street		 29	1	-	30
		606	29	13	648
From Dairies		 515	15	15	545
Total		 1121	44	28	1193

Of the 635 children admitted to the Depôts, 412 were ill or delicate on admission, many not being expected to live.

Of these 412, 211 improved markedly in health, 105 showed little or no improvement, 47 died and 49 received the milk only casually or for too short a period to gauge the effect.

	318
Admitted during year 1907	606
	924
Of these 52 died, the causes of death being:—	
Marasmus	16
Convulsions	9
Diarrhœa	6
Bronchitis	6
Pneumonia	6
Consumption and Inflammation of Bowels	3
Meningitis	2
Inflammation of Stomach	1
Measles	1
Whooping Cough	1
Anæmia	1
	52
Only 10 of these could be regarded as healthy on admission; ll on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt	
ll on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt	s :
ll on admission, and 8 of these received the milk irregularly.	s:
ll on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt On books December 26th, 1906	s:62 44
ll on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt On books December 26th, 1906	s:
Il on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt On books December 26th, 1906 Admitted during year 1907 Five of these, who were very ill on admission, died for	s:
Il on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt On books December 26th, 1906 Admitted during year 1907 Five of these, who were very ill on admission, died following causes:—	s:— 62 44 106 rom
Total number of children over 12 months supplied from Depôt On books December 26th, 1906 Admitted during year 1907 Five of these, who were very ill on admission, died following causes: Marasmus	s:
Il on admission, and 8 of these received the milk irregularly. Total number of children over 12 months supplied from Depôt On books December 26th, 1906 Admitted during year 1907 Five of these, who were very ill on admission, died following causes: Marasmus Convulsions	s:

Number of customers discharged during year 1907	1,222
Reasons for discharge:—	
In a satisfactory condition	665
Milk said not to agree	175
Children ill-Doctor ordered change of food	157
Children dead	91
One basket only supplied to	84
Removed into Hospitals or Workhouse	27
No reason obtainable for discharge	23
Total	1,222

Of the 665 discharged in a satisfactory condition, 383 were of an age to take more general food; 69 children progressed well, but left the town; 32 were over two years old who obtained the milk for a short time during illness.

In 33 cases the parents were irregular in their payments, and their circumstances not being such as to justify the provision of the milk free of charge the supply was discontinued.

Three customers complained of having sour milk during the hot weather. In each of these cases the cause of complaint was due to carelessness on the part of the agent supplying the milk, or on the part of the customers themselves.

Fifty-two mothers obtained a few baskets to supplement the natural supply, which was then found to be sufficient.

Of the 175 infants with whom the milk was said not to agree, 124 (71 per cent.) were ill or very delicate on admission; in many cases various other foods had been unsuccessfully tried before sterilised milk was used.

Of the 157 discharged ill, 108 (68 per cent.) were suffering from illness or were delicate on admission.

Of the 91 who died, 77 (85 per cent.) were ill or delicate on admission, in many cases beyond the hope of recovery.

Great difficulty has been experienced during the year with regard to the cleansing of the bottles, owing to the fact that the customers cannot be prevailed upon to rinse them after use. As a result of this neglect, the bottles have on many occasions had to be twice boiled and left for a week, or even longer, exposed to the air before being rendered fit for use.

The necessity for greater care in this direction has been frequently urged on the customers served direct from the Depôts, and in some cases the bottles have been sent back to the homes to be rinsed.

The greatest trouble has arisen in connection with the customers served through agents; these have been visited, and also communicated with by letter, and temporary improvement has been shown.

It has, however, been found necessary to affix a label to each basket daily, so that the customers may be impressed with the necessity for greater care on their part.

Number of infants fed on sterilized milk since operations w	ere start	ed
to December 31st, 1907	13,0	50
Approximate average age, $3\frac{3}{4}$ months.		
Number under 12 months	12,285	
Number over 12 months	765	
Number of infants who have died	.774	
Of these 774 there were—		
Ill when admitted	553	
Irregular customers	73	

Healthy and properly fed

Of the 148 who were healthy and properly fed, the causes of death were:—

Convulsions		. 28
Diarrhœa		29
Bronchitis		16
Pneumonia		17
Phthisis		1
Marasmus		5
Dentition	***************************************	4
Inflammation of	Stomach and Bowels	6
Whooping Cough	***************************************	2
Blood Poisoning		1
Disease of Throa	t	2
Croup		1
Meningitis		3
Anæmia		2
Various other ca	iuses	31
he infants fed on	Totalsterilized milk have been supplied as fol	_
	Depôt	
Earle Road	Do	2,347 1,696
	Do	
Cazneau Street		
Boaler Street		2,195 186
Hornby Street	Do	131
Tot	al supplied from Depôts	8,168
,,	, supplied from Dairies	4,882
		13,050

Expenditure and Income for Years 1901 to 1907.

	1901.		1902.		1903.	3.	19	1904.		1905.		19	1906.		1907	7.	
	oś	7		d.	બ		બ	s. d				બ		d.	49	oč.	d.
Wages and Clothing	277 11	6 0	856 4	· co	1,093	6 6	1,112	40	3	000	- 0	1,091		0	1,105	13	-
Refits Rates and Taxes	13	0 4			65 65	14 1	143	19 2				170	7 17	no oc	176	× 50	n -
Vater Kent		4		1-	79		99					67		10	62	0	10
Coal	3 12	0	18 6		30	8 1	33	G1 -		31 4	11	27	9	9	65	01	00 1
Advertising		0			19		14					9		=		22	-
Disbursements	. 60	9	12 18		-		14					34	16	00		11	6
Cleaning Premises, Windows, &c	10	0	10 10	0			14	0 0	_	- 1		17	0	0	06	-	9
Travelling and Inspection Expenses	16	01	:						- 19	:			:				
Stores (Milk, &e.)	303 19	0	1,427 2				1,527	13 8	-	1449 1	-	1,148	9	=	198	91	90
Furniture and Fittings	0 00	0 00					2 1.0			43 15		15		00	94	20) o
Machinery	18	-					42					6		-	10	11-	0
Bottles, Stoppers, &c	19	0					255					252		œ	266	15	01
Building Repairs, Alterations, &c	12	0					29					41		00	55	14	4
Horsing Vans, and Hire of Float	22	0					300	00				242		co	263	01	10
Electric Light Installation	: :		27 16	-1-	0 62	000	.01	16 3		2 16	60	ିଦା	16	00	. 01	16	00
Medical Attendance— Scalding Case	:		:		25	0 0		10 6		:			:				
	1,999 18	6	4,334 18	=	4,259	50	3,633	18 6	60	631 13	2 1	3,205	13	-	3,317	00	01
Sale of Milk	518 0	61	1,534 13	1~	2,230	1 11	1,676	9 0	1	1,644	7 9	1,250	10	1	1,196	113	-
								۱	-								1

SALE OF FOOD AND DRUGS ACT.

Details are provided under the Sale of Food and Drugs Act, and under its various amendments, to safeguard the honest trader from fraudulent competition, and to safeguard the public from fraud, imposition and danger, in regard to food and drugs.

Apart from the addition to food or drugs, of ingredients, or of colouring matters injurious in themselves, with a view to conceal the inferior quality of the article, the offence is dealt with of adding materials, in themselves harmless, but which fraudulently increase the bulk or lower the quality of the article sold. The main object of the Act is expressed in Section 6 of the original Act, which is as follows:—

"No person shall sell to the prejudice of the purchaser any article of food or any drug which is not of the nature, substance, and quality of the article demanded by such purchaser. . . ."

Most of the routine action taken in regard to the analysis of food and drugs is to prevent infringements of this clause.

It is obvious that some amongst the many articles used for food are of very much greater consequence than others, not necessarily because greater quantities of them are consumed, but because they are peculiarly liable either to adulteration or contamination. Milk, for example, constitutes the chief and perhaps the only food for very large numbers of infants, and of sick persons; it is not unreasonable, therefore, that exceptional attention should be given to it.

Further reference to milk analyses will be found on page 195.

Analyses under the Sale of Food and Drugs Act are of two kinds, namely, chemical and bacteriological. These two forms of analyses are entirely separate and distinct in their objects, and in their methods; the method of chemical analysis is applicable to the ordinary articles of food comprised under the term of "groceries," and also to milk, butter,

preserved fruits, tinned meats, cheese, &c., and drugs. The bacteriological method is applicable chiefly, and most usefully, to milk. It is also adopted in regard to other food stuffs of animal origin, a list of them being given in the table of articles examined (page 193).

Great care is necessary in procuring samples, and in submitting them for analysis, or very misleading results will ensue.

All samples of food or drugs are taken either by, or under the superintendence of, Inspectors of the Health Department. It is of the greatest consequence that trained and practised persons should be employed for this purpose. It is necessary from time to time to employ women or young lads as agents, to go into the shop to ask for the articles, and as soon as the agent receives them, the Inspector enters the shop and completes the formalities which the Act requires.

In order to minimise the cost of proceedings under the Act, care must be exercised in the class of article purchased. Only a few purchases are made of those articles which are not likely to be adulterated, and which, experience shows, when they are taken for analysis, are almost invariably found to be genuine. On the other hand, when enterprising firms, seeking new fields for adulteration and profit, place suspicious articles on the market, it becomes necessary, sometimes, to take a considerable number of the articles before the fraud can be detected and checked.

The use of preservatives in food is a matter of importance to the consumer; such preservatives as boracic acid and salicylic acid are apt to stop the processes of digestion, and to do injury to young children and delicate people. The Departmental Committee appointed in 1899 to consider the question of the use of colouring matters and preservatives in food, came to very definite conclusions upon these points (see Section 7 Butter and Margarine Act, 1907).

Any member of the public is entitled, under the Act, to have samples analysed upon payment to the analyst of a fee of 10s. 6d.

Considerable interest has been aroused as to the legality of the sale of patent still whisky as pot still whisky, but the question has not yet been settled.

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Summary of Samples submitted for Analysis from January 1st, 1907, to December 31st, 1907, and other Statistical Details.

Info	RMAL SAI	MPLES.					FORMAL S	Samples.	
	Number genuine.	Adulter- ated.	Nature	of San	mple,	Number taken.	Number genuine.	Adulter- ated.	Infor- mation.
	_	_	Almonds (gr	ound)		 1	1		
-	-	_	Ammoniated	l Tine	ture of	2	2	_	_
1	1	-	Quinine Arrowroot			 9	9		-
-	-	_	Baking Pow	der		 9	9	-	-
_			Barley			 6	6	-	_
	-	_	Beer			 90	90	_	-
4	4	_	Beef Extrac	t		 2	2	_	_
	_	-	Brandy			 11	9	2	_
_	-	_	Brawn			 1	1		_
_	_	-	Bread			 13	13	_	_
-	_	_	Boiled Peas			 1	1	_	_
_	_	_	Bun Flour			 2	_	2	1
189	182	7	Butter			 90	82	8	7
	-		Camphorate	d Oil		 4	3	1	1
1	_	1	Castor Oil P	ills		 _	-	_	_
	_	-	Capers			 2	2	_	_
1	1	_	Cheese			 13	10	3	_
1	_	1	Chlorodyne	Gums		 1	_	1	
4	4	_	Chlorodyne				_	_	_
_	-		Cinnamon			 3	3	_	_
_	-	_	Citrie Acid			 4	4	_	_
1	1		Cocoa			 17	17	_	_
1	1	_	Cocoa Mixtu	re		 3	3	_	_
1	1	_	Cod Liver O	il		 4	- 4	_	_
1	1		Coffee			 34	33	1	_

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SUMMARY OF SAMPLES—Continued.

Info	DRMAL SAN	IPLES.				FORMAL S	SAMPLES.	
Number taken.	Number genuine.	Adulter- ated.	Nature of Sample.		Number taken.	Number genuine.	Adulter- ated.	Infor- mation
_	_	_	Coffee and Chicory		4	4	_	_
1	1	-	Colouring Fluid		_	-	-	-
1	1	-	Colouring Powder		-	_	-	-
_	1	_	Compound Liquorice Powe	der	2	2	_	_
1	1	_	Compound Rhubarb Powe	der	1	1	_	_
1	1	_	Cornflour		4	4	-	_
17	17	_	Confectionery		36	36	_	-
2	1	1	Cream		22	13	9	-
_	-	_	Cream of Tartar		21	21	-	_
-	-	-	Currie Powder		6	1	5	-
_		-	Custard Powder		4		4	_
1	1	_	Dessicated Blood		_	_	_	_
1	1	_	Dessicated Egg			_	_	_
1	_	1	Egg Flour		3	_	3	2
_		_	Egg Powder		3	_	3	1
1	1	-	Elixir of Opium		_	_	_	_
2	2	_	Flour		16	16	_	-
_	-	_	Flowers of Sulphur		1	1	_	
_		-	Gin		10	10	_	_
_	_	_	Ginger		17	17	_	
_	_		Glycerine		3	3		_
2	2	_	Grapes		_	_	_	
		_	Gregory's Powder		1	1	_	_
1	1	_	Head and Stomach Pills		_	_	_	_
_	_	_	Honey		3	3	_	_
2	2	_			_	_	_	

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SUMMARY OF SAMPLES—Continued.

Info	RMAL SAM	IPLES.			FORMAL S	SAMPLES.	
Number taken.	Number genuine.	Adulter- ated.	Nature of Sample.	Numbe taken.		Adulter- ated.	Infor- mation
2	2	-	Jam and Marmalade .	. 41	36	5	3
10	8	2	Jellies	8	6	2	1
1	1	_	Lard	. 30	30	_	-
_		_	Lemon Cheese	. 2	2	_	
_	_	_	Linseed, Liquorice and	1	-	1	
1	1	_	Chlorodyne Lozenges Liver Pills	. –	_		_
-	- 22	-	Mace (ground)	. 6	- 6	<u> </u>	_
4	4	_	Margarine	. 47	46	1	1
1	1	-	Malt Extract	. –	_		_
1	1		Manna		_	-	_
3	2	1	Meat Pies	. 1	1	_	_
1	1	_	Meat Biscuits		_		_
	_	_	Medicated Wine ,	. 1	1		_
205	196	9	Milk	. 686	534	152	76
	_	_	Milk, Condensed	. 8	8	_	
2	2	_	Milk, Humanized	. –	_	_	_
_	_	-	Mixed Spice	. 11	11		_
_	_	-	Mustard	. 3	3	_	_
1	1	_	Mustard and Horseradish	. —	_	_	_
3	3	_	Oil of Juniper	. 1	_	1	-
2	2	_	Olive Oil	. 2	2		_
_	-	_	Oxymel of Squills	. 1	1		_
_	_	_	Paregoric	. 1	1	_	
_	_	_	Pepper	. 29	28	1	_
	_	_	Pepper, Cayenne	. 3	3	_	-
1	1	_	Pepsine		_	_	_

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SUMMARY OF SAMPLES—Continued.

Informal Samples.		MPLES.		Formal Samples.					
Number taken.	Number genuine.	Adulter- ated.	Nature of Sample,	Number taken.	Number genuine.	Adulter- ated.	Infor- mation		
6	5	1	Pickles	. 1	_	1	_		
_		_	Potted Shrimps	. 7	4	3	_		
1	_	1	Potted Lobster	. –	_	_			
13	10	3	Preserved Fruit and Vege-	10	8	2	1		
1	1	_	tables Proprietary Food		-	_	-		
42	42		Proprietary Medicine	. 19	16	3	1		
2	2		Rice	. 1	1	_	-		
1	1	_	Rum	. 16	15	1	_		
8	7	1	Salmon	_	_	_			
_		_	Sausage	. 6	5	1	_		
1	1	22	Saccharated Wheat Phos-	_	_				
1	1	_	phate Sugar	. 4	4	_	_		
_	_	_	Seidlitz Powder	. 6	4	2	_		
2	2	_	Syrup	. 8	8	_	_		
-	_	_	Tartarie Acid	. 11	10	1	1		
1	1	_	Tapioca	. 1	1	_	_		
3	3		Tea	90	39		_		
4	4	_	Temperance Beverages	20	16	13	1		
2	2	_	Tinned Lobster	3000		_			
4	4		Tinned Meat						
1	1		Tincture of Myrrh		_		_		
1	1	_	Tineture of Myrrh and Bora		_		_		
_	_	_	Turpentine, Spirit of		1				
_			Vinegar	0	2	_	_		
4	4		Whiskey	10	37	3	1		
4	4			10	19				
1	1		Witch-hazel, Extract of .						
_			Y	0	6				
580	551	29	Yeast	1587	1352	235	98		

Total number of samples submitted for chemical analysis during the year 1907, 2,167.

						1906.	1907.
Number of Info	rmation	s for Adultera	ted Food and	l Drugs		112	94
19	,,	for giving a l	False Warrar	nty		3	3
**	,,	**	Label			_	1
,,	,,	for selling n	nilk with no s on can	name	and 	_	_
**	,,	obstructing l	Inspector			1	_
**	11	for refusing	to sell		•••	-	1
**	**	for offences a	ander Marga	rine Act		2	2
Total Number	of Inform	nations—Food	and Drugs	Acts		118	101
Number Fined	***					76	64
Withdrawn on	paymen	t of costs				34	26
Acquitted or W	ithdraw	n without cost	ts			8	11
		Amount of Fin	nes and Costs			£244 19 (5—£230 15 7

The amount of fines for offences under the Sale of Food and Drugs Act have decreased during the past twelve months as compared with the preceding twelve months. The decrease in the total amount is due to the fact that a fewer number of informations were laid. The average amount imposed per conviction during the year is £3 5s. $10\frac{1}{2}$ d., against £2 17s. $7\frac{1}{2}$ d. for the previous year.

Summary of Samples in which legal proceedings were instituted during 1907, together with result.

ree of Sample. Nature of Offence. No. of Convictions. Deficient in cream and adulterated with water 4 Adulterated with water 21 Deficient in cream and adulterated with borates 2 Adulterated with borates 3 For giving a "False Warranty" 1 Adulterated with water and coloured with a 1 " yellow coal tar dye 3 Adulterated with borates 1 Adulterated with borates 2 Adulterated with borates 2 Adulterated with borates 2 Adulterated with foreign fat 4 Adulterated with foreign fat 4 Adulterated with foreign fat 4	Deficient in cream and adulterated with water before and adulterated with borates before and coloured with water before and coloured with a borates before and coloured with a	Nature of Offence. No. of drawn and dismiss'd drawn and drawn of costs. No. of drawn and drawn and adulterated with water. 19 13 1 2 54 10 Deficient in cream and adulterated with borates. 21 1 2 54 10 Adulterated with water 3 -		No. Infor- mations.	53	00	24	63	ಣ	61	-	-	-	01	-	9
ce. No. of Convictions. erated with water 4 rated with borates 2 ty." 3 ty." 1 I coloured with a 1	ce. No. of Convictions. erated with water 4 rated with borates 2 ty." 3 ty." 1 I coloured with a 1	No. of drawn and convictions. Discosts. No. of drawn and convictions. Discosts. Without drawn of costs. Without costs. 19		Nature of Sample.	1							:		Machine Skimmed Milk	Buttermilk	
		No. No. No. and drawn and of costs. without drawn of costs. without costs. 13		Nature of Offence.	Deficient			Deficient in cream and adulterated with borates	Adulterated with borates	For giving a "False Warranty"		Adulterated with water and coloured with a		Adulterated with water	Adulterated with borates	
No.	No. No. No. No. with- dismiss'd drawn and on with- drawn of costs. without costs. 1			No. of Convic- tions.	19	7	67	61	00	-	-	-	-	01	1	4
No. dismiss'd and with- drawn without costs. 2 54 10 - 9 0 - 9 0 - 7 0 - 7 0 - 2 0 - 2 0 - 2 0 - 4 0 - 8 0	No. dismiss'd and with- eosts. No. dismiss'd and with- eosts. 1		IVESULT O	No. with- drawn on paym'nt of costs.	13	+	-	1	ŀ	1	1	1	1	1	-	6
Fin Fin S4 10 54 10 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Fines. Fines. Fines. Fines. 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		F LEGAL I	No. dismiss'd and with- drawn without costs.	-	I	01	1	1	-	1	1	1	1	1	1
		51 51	ROCEEDI	Fine	£ 8.		54 10				0 6	5 0			1	

99 0 0 0 9 0 0 0 0 1-2 0 15 0 17 0 15 0 17 10 i 0 33 0 0 0 0 0 5 0 10 10 0 0 10 oč. 10 145 = 56 3 Contained large number of fungus spores..... For having printed matter on wrapper in addition to the word Margarine. For selling Margarine in unlabelled wrapper..... Flavoured non-alcoholic syrup, coloured with Adulterated with patent still spirit and below Adulterated with one-fifth grain of lead per Adulterated with Salicylic Acid For issuing a "False Warranty"...... Devoid of egg Mineral oil and devoid of camphor Practically devoid of egg Adulterated with copper Adulterated with Alum Refusing to sell sample For giving a false label a coal-tar dye. strength Guy's Tonic Marmalade Scotch Whiskey Margarine Egg Flour.... Egg Powder..... Jam Turpentine Calf's Foot Jelly Camphorated Oil. Preserved Peas Cherry Brandy Tartaric Acid Bun Flour 101

SAMPLES IN WHICH LEGAL PROCEEDINGS WERE INSTITUTED—Continued. SUMMARY OF

DETAILS OF SAMPLES OF MILK OBTAINED FOR CHEMICAL ANALYSIS.

							1906.	1907.
Number of	Samples purch	ased o	on Wee	k-days	in Tow	n	392	321
,,	Informations						58	40
,,,	Samples take	en at	Raily	vay S	tations	on		
	Week-day	s					174	251
)) ·	Informations						3	13
,,	Samples purch	nased o	on Sun	days in	Town		120	115
,,	Informations						21	19
,,	Samples taken	at Rai	lway S	tations	on Sun	days	106	124
,,	Informations						3	2
,,	Samples taken	at Cit	ty Hosp	pitals			87	62
,,	Informations						6	3
,,	Samples taken	at Co	rporati	on Mil	k Depô	ts	22	18
,,	Informations						2	_
		35.7	a i Bri	73				
		MAE	RGARIN	E ACI	-		1906.	1907.
Number of	Visits to Who	lesale	Dealers	s in Ma	argarine		1298	1292
,,	Visits to Shor						11194	11540
,,	Informations						2	2
,,	Fined						2	1

Amount of Fines and Costs ... £3 6s. 6d.—£1 2s. 0d.

The following samples were submitted during 1907 for special examination:—

N:	atu r e (of Sam	ple	No. of Samples.	Na	ture o	of Sam	No. of Samples.	
Ham				 6	Wall Pa	per			 1
Salt				 2	Paint				 1
Water				 2	Canvas				 2

INVESTIGATION INTO METHODS OF CONTROL OF BUTTER SUPPLY.

A Select Committee of the House of Commons was appointed in March, 1906, to consider whether any, and if so what, further legislation is required in order to secure the better conduct and control of the trade in butter and butter substitutes.

The Committee sanctioned in regard to milk-blended butter a standard of 24 per cent. of water. This is unfortunate, and will unquestionably result in great loss to the poorer sections of the community, who will be buying water when they are under the impression that they are buying butter. It is most undesirable that any fancy names should be allowed for butter substitutes, all of which should be classed as margarine, in the interests of the consumers.

The Butter and Margarine Act, 1907, is the outcome of the recommendations of this Select Committee.

The Committee met 17 times and received the evidence of 49 witnesses, and in a Report submitted to the House of Commons, July, 1906, made certain recommendations from which the Act was largely framed.

The Act contains 14 Sections, and deals with: -

- 1. Registration of factories and consignments.
- Inspection of factories.
- 3. Prohibition of adulterants in butter factories.
- 4. Limit of moisture in butter, margarine and milk-blended butter.
- Provisions as to the importation of butter, margarine and milkblended butter.
- 6. Regulations as to milk-solids in butter.

- Regulations as to preservatives.
- 8. Marking of wrappers, &c., used in connection with margarine.
- 9. Regulation of sale of milk-blended butter.
- 10. Names of margarine, &c.
- 11. Penalties for offences.
- 12. Amendment of section eight of Margarine Act, 1887.
- 13. Definition of margarine.
- 14. Short title, construction and commencement.

The Local Authority are required to-

- Sec. (1) Register Butter Factories, which are defined as follows:-
 - (a) Butter factories, that is to say, any premises on which by way of trade butter is blended, re-worked or subjected to any other treatment, but not so as to cease to be butter; and
 - (b) Any premises on which there is manufactured any milkblended butter (that is to say, any mixture produced by mixing or blending butter with milk or cream, other than condensed milk or cream) or on which there is carried on the business of a wholesale dealer in milk-blended butter.
- Sec. (2) To cause inspection of Butter Factories to be made and to procure samples:—
 - 2.—(1) Any officer of the Board of Agriculture and Fisheries or of the Local Government Board shall have power to enter at all reasonable times any premises registered under the Sale of Food and Drugs Acts or this Act, and to inspect any process of manufacture, blending, re-working or treatment used therein, and to take samples for analysis of any butter, margarine, margarine cheese, milk-blended butter, or of any article capable of being used in the manufacture, treatment or adulteration of any such article as aforesaid.

- (2) An officer of a local authority who is authorised to procure samples under the Sale of Food and Drugs Acts shall, if specially authorised in that behalf by the local authority, have the like powers of entry, inspection and sampling as regards any premises registered with the authority as a butter factory.
- (4) Where under this section a special authority is required, an officer of the Board or of a local authority shall not be entitled to exercise any of his powers under this section unless, if so requested by or on behalf of the occupier of the premises to be entered, he produces his authority.

Regulations as to Preservatives:-

- Sec. 7.—(1) The Local Government Board may, after such inquiry as they deem necessary, make regulations for prohibiting the use as a preservative of any substance specified in such regulations in the manufacture or preparation for sale of butter, margarine or milk-blended butter, or for limiting the extent to which, either generally or as regards any particular substance or substances, preservatives may be used in the manufacture or preparation for sale of butter, margarine or milk-blended butter.
- (2) Any regulations made under this section shall be notified in the London, Edinburgh or Dublin Gazette as the case may require, and shall also be made known in such other manner as the Local Government Board may direct.
- (3) Any person who manufactures, sells, or exposes or offers for sale, or has in his possession for the purpose of sale, any butter, margarine or milk-blended butter which contains a preservative prohibited by a regulation under this section or an amount of a preservative in excess of the limit allowed by any such regulation, shall be guilty of an offence under this Act.

The Act came into force on January 1st, 1908.

Proprietary Medicines.

Certain reports were asked for by the Health Committee as to the composition of a number of proprietary medicines intended for infants or young children, many of which contained no substance of medicinal value, but were quite harmless. Some, however, contained more or less active medicinal agents, and the analysis of these resulted as follows:—

ARTICLE.	RESULT OF ANALYSIS.
Winslow's Soothing Syrup	Consists of a sugar syrup with $\frac{1}{4}\%$ essential oils, containing about $\frac{1}{70}$ grain of morphine in each fluid drachm.
Fenning's Teething Powders	The powders vary from 3.7 to 6.1 grains each, and contain about equal grains of potassium chlorate and liquorice root.
Stedman's Teething Powder	The powders vary from 1.45 to 2.6 grains each, and contain about 25% of calomel, the residue being mainly sugar, with a little starch.
Steedman's Soothing Powders	The powders vary from 2.2 to 4.2 grains each and contain about 20% of calomel, the residue being sugar and maize starch.
Woodward's Gripe Water	A solution of sugar, containing 1% of bicarbonate of soda and 0·15 of oil of carraway.
DINNEFORD'S PURE FLUID MAGNESIA	A dilute solution of bicarbonate of magnesia (1.87%).
California Syrup of Figs	A syrup containing senna flavoured with ginger and other spices. It may quite possibly contain fig juice also.
Fenning's Fever Cure	Consists of dilute nitric acid, $1\frac{1}{2}\%$ strength, flavoured with peppermint.
Parrish's Chemical Food	Syrup coloured with cochineal, containing in each fluid drachm about \(\frac{1}{3}\) of a grain of ferrous phosphate, \(\frac{1}{2}\) grain of calcium phosphate, and \(3\frac{1}{2}\) grains free phosphoric acid.
HŒMATOGEN	A mixture of glycerine and defibrinated blood.

PROPRIETARY MEDICINES-Continued.

ARTICLE.	RESULT OF ANALYSIS.
PEPTOGENNIC MILK POWDER	A mixture containing 96% of milk sugar, with pancreatic ferments having very considerable digestive power. It also contains about 1% of bicarbonate of soda.
PRITCHARD'S TEETHING POWDERS	Each powder contains on an average 1 grain calomel mixed with sugar. No morphine.
Fenning's Whooping Cough Powders.	Each powder contains on an average 3 grains of sulphur mixed with powdered liquorice root.—No calomel nor morphine. Remarks.—Leaflet enclosed in box stated: "These celebrated powders will always cure whooping cough in a few days."
Fenning's Worm Powders	Each powder contains on an average 2 grains of sulphur, mixed with sugar and a red dye. No calomel.
FAULCONER'S WORM POWDERS	Each powder contains on an average 1 grain of calomel with about 3 grains of jalap root and about ½ grain of potassium sulphate.
Diarrhœa Mixture	Chalk mixture, with a small quantity of sal volatile and aromatic ingredients.
CLARK'S BLOOD MIXTURE	A solution of potassium iodide coloured with burnt sugar. (Each fluid ounce contains 5½ grains potassium iodide.)
Pond's Extract	Extract of hamamelis (witch hazel) containing 10% alcohol.
Sanford's Catarrh Cure	Extract of hamamelis (witch hazel), containing 8% alcohol and 14% glycerine.
Sanford's Catarrh Cure (Solvent)	Consists of Bicarbonate of Soda.
Cough Linetus	Contained oxymel of squills, and probably other medicated syrups, with 6.5% of potassium bromide.

PROPRIETARY MEDICINES-Continued.

ARTICLE.	RESULT OF ANALYSIS.
OWBRIDGE'S LUNG TONIC	A strong saccharine syrup containing squills and probably other harmless medicaments, with 0.35% chloroform. It contained no mineral drugs or alkaloids.
Veno's Cough Cure	A mixture containing glycerine and Balsam of Tolu, with senega and probably other vegetable extracts. A trace of chloroform was present. It contained no mineral drugs or alkaloids.
MOTHER SEIGEL'S SYRUP	A concentrated complex syrup of various vegetable extracts, including aloes and cayenne. It contained about 3% of borax, but no other mineral drug. It was free from alkaloids.
Hood's Sarsaparilla	A mixture of vegetable extracts, free from alkaloids and mineral drugs.
Guy's Tonic	A dilute solution of acid calcium phosphate, flavoured with chloroform and a vegetable bitter, and coloured with cochineal. It contained no mineral drugs nor alkaloids,
Veno's Seaweed Tonic	A mixture containing glycerine, aloes and rhubarb, and possibly other vegetable extracts. It contained no mineral drugs or alkaloids.
Peps	Lozenges weighing about 22½ grains each and containing about ½% essential oils. No alkaloid present nor any mineral drug.

Note.—In the case of fluid mixtures, percentages where given are parts by weight in 100 parts by volume.

FERTILISERS AND FEEDING STUFFS ACT, 1906.

On 1st January, 1907, a Fertilisers and Feeding Stuffs Act, which replaced the old Act of 1893, came into operation.

Under it the City Analyst was appointed official agricultural analyst, and the three inspectors under the Sale of Food and Drugs Act were appointed official samplers.

A certain remuneration was agreed to in respect of the work done under the Act.

The following table shows the number of samples procured during the year:—

Nature of Sample.	No. cf Samples.	Nature of Sample.	No. of Samples.
Decorticated Cotton Cake Meal	2	Pea Meal	1
Linseed Cake Meal	1	Indian Meal	2
Sugar Feed	1	Pressed Linseed	1
Bran	1	Oil Cake	1
Linseed Cake	1	Oil Dust	2
Locust Meal	1	Total	14

BACTERIOLOGICAL EXAMINATIONS AND ANALYSES.

The Bacteriological Analyses comprise: -

- 1. The Examination of food-stuffs of various kinds.
- The daily and monthly examination of the water supplied to the City.
- The examination of suspected cases of rabies, anthrax, tuberculosis.
- The examination of rats taken on shipboard and in the town for the presence or absence of plague.
- The examination for diagnostic purposes in suspected cases of diphtheria, typhoid fever, sputum and suspected cases of plague.

The general bacteriological condition of foodstuffs and water is ascertained, comprising experiments for the determination of—

- (a) The presence of organisms.
- (b) The number of organisms.
- (c) The kind of organism.

All samples undergo routine examination for the presence of specific organisms indicating dirt or sewage contamination (*Bacillus coli communis* and allied forms, *Bacillus enteritidis sporogenes* and allied forms).

In addition special experiments are conducted to determine the presence or absence of tubercle bacilli.

The total number of food-stuffs examined bacteriologically during 1907 was 1,028, a detailed list of which follows:—

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SUMMARY OF FOOD-STUFFS.

Sample.			No.		No.	
Anchovy			2	Mincemeat		 į
Beef Suet			1	Mushrooms, Prese	erved	 2
Blanc Mange Pov	vder		1	Marmalade		 20
Butters			10	Margarine		 2
Beans, Baked			1	Milks		 451
Condensed Milk		4.4.4	39	Lard		 2
Custard Powder			1	Mussels		 27
Cream Cheese	174		3	Oysters		 18
Cream			16	Periwinkles		1
Cheese	***		16	Pineapple Butter		
Cockles			9	Pies, Meat		2
Dripping			1	Polony		 4
Fish Paste			17	Plum Pudding		
,, Tinned			78	Pastes, Game and	Meat	 4
,, Potted			7	Sausage		 1
Fruits, Preserved			19	Soups		 33
Ginger in Syrup			1	Syrup		
Honey			1	Sterilized Milk		 (
Ice Creams			2	Sauces		 - 1
Jams			31	Tomatoes, Tinned		
Jellies			20	Treacle]
Lemon Curd			8	Whelks		
Meat, Tinned			60	Water		 14
,, Potted			17			
Meat Extracts			3	TOTAL		 1,028

SUMMARY OF ALL EXAMINATIONS.

ous	 	***		17.5	95
	 				8,814
	 		***		498
	 				395
	 				462
3	 				1,028

A very large number of bacteriological examinations were made during the year 1907 of suspected tubercular, typhoid and diphtheria cases for the Medical Practitioners, the total number of such examinations made amounting to 1,523 in addition to the foregoing.

MILK ANALYSES FOR THE YEAR.

451 milks were examined for the presence of-

- 1. The Bacillus tuberculosis.
- 2. The Colon bacillus.
- 3. The Bacillus enteritidis sporogenes, or allied forms.
- 4. Other bacteria.

The Bacillus tuberculosis indicates that the animals from which the milk was taken were tubercular, or that the pails into which the milk was received or the hands of the milker were infected from previous contact with a diseased cow or person.

The Colon bacillus indicates contamination with dirt of an intestinal origin, or that the cow was suffering from inflammation of the udder.

The Bacillus enteritidis sporogenes indicates dust or intestinal contamination.

Experiments were made at the latter portion of the year to standardise the milks by ascertaining at what point up to one-thousandth of a cubic centimetre the *Colon bacillus* vanishes. Total No.

					_					_					3.5
	/E.	Debor	63	1	1	1	1	1	1	-	1	1	1	1	63
	NEGATIVE.	Hospital	1	1	П	-	1	1	1	1	1	01	1	1	77
	NB	лиоТ.	01	1	1	1	1	1	П	1	1	1	1		00
		Rail.	4	1	00	Т	G1	C1	1	1-	1	5	1	1	25
1907.		Total No.	01	1	-	4	1	1	1.	9	4	1	П	41	18
	LAR.	Debot.	-1	1	1	1	1	1	1	1	1	1	1	1	1
for	TUBERCULAR.	Hospital	1	1	1	1	1	1	1	1	1	1	1	1	-
Milk	Tub	-шмоТ	- 1	1	1	01	1	1	1	1	1	1	1	.51	ক
of IV		Rail.	01	-	1	-	1	1	. 1	60	4	1	Н	01	13
	Total No.	Received each Month.	62	000	43	53	44	41	50	43	- 29	40	43	35	451
Samples		B. Ent. Spor.	-	- 1		1	1	1	- 1	1	1	1	Ī	1	1
Jo	Sterilized Milk Depôt.	Cohi.	1	1	-	1	67	00	1	1	-	ı	1	ı	9
lars	STE	No.	1	1	কা	1	CI.	00	1	1	04	01	1	L-	20
showing particulars		B. Ent. Spor.	- 1	1	1	1	1	1	1	1	C3	1	1	1	61
g ba	Hospital.	Coli Com.	00	00	5	00	00	1	1	1	50	00	1	t~	250
win	Но	No.	9	00	9	5	5	1	1	1	5	00	Н	7	1
		B. Ent. Spor.	1	1	- 1	T	-		1	1	-	1	t-		t-
Pable	Town.	Coli Com.	9	П	1	1		15	15	12	12	87	20	П	110
ed 1		No.	=	17	21	13	00	17	19	12	12	88	20	11	194
Detailed Table		B. Ent. Spor.	-	1	1	1	1	1	1	1	1	1	1	1:	1
А	RAILWAY.	B. Coli	21	12	01	Ç1	16	16	10	31	00	C2	14	00	142
	RA	No.	25	13	12	11	29	21	10	31	10	61	22	10	196
	1907.	Month.	January	February	March	April	May	June	July	August	September	October	November	December	Total 196

Presence of the Bacillus Tuberculosis.

Of the 451 samples examined for tubercle, 34 guinea pigs died before the tubercular test was complete.

Of the remaining 417 samples, 18 proved tubercular, of which 13 were railway-borne milks, 4 taken in the town, and 1 taken from the Hospitals (railway-borne).

This year it has again been noticed that tubercle is more frequently found in the railway-borne than in the town milks.

The percentage this year is 5.45, as compared with 2.06 in the town milks.

It is a very serious matter that tubercle is so widespread in milk when it is remembered that one tubercular cow may be the means of infecting the milking utensils, the hands of the milker, and, in consequence, even the teats of the other healthy animals. Regulations dealing with infected animals cannot therefore be too stringent.

Table showing the number of samples of milk examined

Bacteriologically for Tubercle Bacilli from 1896

to 31st December, 1907.

37	Total Number	Town S	Samples.	Country Samples.				
Year.	of Samples - Taken.	No. taken.	Tubercular.	No. taken.	Tubercular			
1896	119	83	4	36	5			
1897	150	63	4	87	- 5 5			
1898	112	84	7	28	5			
1899	352	167	1	185	15			
1900	560	255	4	305	5			
1901	566	254	2	312	20			
1902	595	213	1	382	32			
1903	582	231	2	351	19			
1904	571	201	4	370	37			
1905	560	212	1	348	14			
1906	530	209	3	321	22			
1907	451	194	.4	257	14			
Totals	. 5,148	2,166	37	2,982	193			

(B) SAMPLES OF MIXED MILK, TOGETHER WITH OTHER PARTICULARS RELATING TO SAMPLES OF MILK TAKEN FOR BACTERIOLOGICAL EXAMINATION FROM JANUARY 18T, TABLE SHOWING (A) SAMPLES OF MILK DRAWN DIRECT FROM SEPARATE COWS, 1901, TO DECEMBER 31sr, 1907.

	Total number of	taken during the Year.	9999	595	583	571	260	530	451	3855
		Total.	50	355	19	37	14	65	14	158
	TUBERCULAR.	B Mixed Milk.	18	26	18	88	13	21	12	141
COUNTRY.	T	A Direct from Cows.	01	9	П	+	1	1	01	17
COUN		Total.	812	385	351	870	348	321	257	2341
	SAMPLES.	B Mixed Milk from Country Cows.	297	352	344	354	338	307	252	2244
		A Direct from Suspected Cows.	15	30	1-	16	10	14	0	97
	 	Total.	23	1	67	4	1	3	4	17
	Товевсовав.	B Mixed Milk.	1	1	1	G1	1	1	-	50
TOWN.		A. Direct from Cows.	01	П	01	67	-	00	00	14
TOL		Total.	254	213	231	707	212	500	194	1514
	SAMPLES.	B Mixed Milk from Town Cows.	33	33	28	38	16	99	104	324
		A B Direct Mixed taken in routine Cows.	215	180	203	163	196	143	90	1190
	4		1901	1902	1903	1904	1905	1906	1907	Totals

Presence of the Colon Bacillus and the Bacillus Enteritidis Sporogenes.

The Colon bacillus was present 180 times in 257 railway-borne milks and 110 times in the 194 town milks.

The Bacillus enteritidis sporogenes was present in 9 of the samples.

The greater frequency of the Colon bacillus present in the railway than in the town milks is of importance, for it shows that less care is taken in the handling and transmission of the country milk, and, therefore, that contamination much more frequently occurs.

With regard to the relationship of the Colon bacillus to the Bacillus enteritidis sporogenes, it has been frequently found that these two organisms do not occur together. The significance of this is important as throwing light upon the significance of the Bacillus enteritidis sporogenes as an index of pollution. Where the Bacillus coli and Bacillus enteritidis sporogenes occur together there would be strong evidence that Bacillus enteritidis sporogenes was of recent intestinal origin.

RESULTS OF ANALYSES OF BUTTER, CREAM, CONDENSED MILK, CHEESE, TINNED FISH, SHELLFISH, &c.

Butter.—Ten samples were submitted for analysis. The colon bacillus and the B. enteritidis sporogenes were absent from each of the samples.

Cream.—Sixteen samples of cream were analysed. B. enteritidis sporogenes was absent from all samples. The colon bacillus was, however, present in eleven of the samples. One sample was tinned, and was found to contain staphylococci. Two of the ordinary samples were inoculated, one proving non-tubercular, but in the case of the other the animal died before the test had been completed.

Condensed Milk.—Thirty-nine samples were examined, and, as has been previously noted, the samples were in all cases not sterile. There is no doubt that condensed milk is a most unsatisfactory product. Bacteria are usually present. The milk which was originally condensed may have contained various products of the decomposition of bacteria; these products are masked subsequently by the large quantity of sugar present, but their irritant properties are not destroyed.

Cheese.—Sixteen samples of cheese were examined. The colon bacillus was present in six of them, B. enteritidis sporogenes being absent from all. One sample of tinned cheese was found to be sterile.

Tinned Foods.—A large number of tinned meats, fish and fruits were examined, and they were found to be free, almost invariably, from living bacteria.

Shell Fish.—Sixty-nine samples of shell fish were examined; evidence of contamination was found in most samples. B. enteritidis sporogenes was found on twenty-four occasions, and the colon bacillus in thirty-six samples.

Meat and Pork Pies.—Twenty-seven pies were submitted for analysis, the colon bacillus and B. enteritidis sporogenes being absent from all cases.

The total number of foodstuffs examined bacteriologically up to 1907 are as follows:—

.1896				 	 122
1897	1			 	 162
1898				 	 311
1899				 	 505
1900				 	 1,067
1901				 	 1,055
1902				 	 1,097
1903				 	 1,061
1904					 1,107
1905					1,147
1906				 •••	 1,075
1907				 	 1,028
1001		***	***	 	 1,025

Plague Observations and Rats.—During the year a careful watch has been kept over the rats in the ships entering the port, and over those found in warehouses, and various parts of the town. This has been done on account of the well-known fact that rats suffer from plague, and that they assist to spread the disease.

By the systematic examination of these rats we may be put in a position to forestall cases of plague.

Total number of rats examined during the year:-

 	 ***	 	7,582
	Total	 	8,814
			Total

The Plague bacillus was found in one Port rat.

SPECIAL EXAMINATIONS.

The total number of Special Examinations were as follows: --

					5
					74
					8
is					2
titis					2
ae cases					2
oles					2
		Total		-	95
	is titis te cases	is titis	is titis	is	is

ANTHRAX.

The following specimens were examined for Anthrax:-

Nature of Specimen.	Total Number.	B. Anthracis.					
readile of Specimen.	10001	Present in.	Absent in.	Suspicious			
Hair and Dust	2	2	_				
Cyllin and Water	1	=	1	-			
Scrapings	1	-	1	_			
Sweepings	1	-	- 1	_			
Hide	13	5	8	_			
Straw	2	-	2	-			
Chaff	1	-	1	_			
Dust	3	1	2				
Meal	9	_	9	_			
Wool	15	2	11	2			
Hair	14	5	9	-			
Hay	3	-	3	-			
Spleen	9	3	6	_			
Total	74	18	54	2			

From the foregoing table it will be observed that a proportion of the animal products received in Liverpool are infected with *Bacillus anthracis*, and are therefore in a dangerous condition.

^{*} One of the samples of Hair had undergone disinfecting processes, but the organism had not been destroyed.

The following specimens were examined for Actinomycosis, Tubercle, Mastitis, Plague and other diseases:—

Nature of Specimen.	Total Number.	Result.	
Actinomycosis—			
Bull's Cheek	1	Actinomycosis	
Udder	1	**	
Tubercle—		Tubercular	Non-Tubercular
Udder	7	5	Non-Tubercular 2
Gland	1	-	1
Mastitis—		(1) 1 31 43	
Udder	2	Chronic Mastit	ils
Special Plague Cases—			
Gland Juice	1	No plague baci	lli found.
Gland	1	No evidence of plague.	
Special Samples—			
Canvas	2	No trace of an	y form of animal life.

City Hospitals.

During the year the Fever Hospitals have again availed themselves of the facilities of the Municipal Bacteriological Laboratories, and numerous specimens have been submitted for examination.

	<u>s</u>	UMMAR	Y.			
Cases of	Diphther	ia		 498		
,,	Typhoid			 395		
Miscellan	eous (Spi	ata)		 2		
		Total	***	 895		
	DI	PHTHEI	RIA.			
Positive				 ***	87	
Negative				 	187	
Suspicious				 	31	
Mixed growth .				 	57	
Cocci				 	38	
Staphylococci				 	43	
Streptococci				 	55	
-						498
						-
	1	TYPHOI:	D.			
Positive Reaction	1			 	138	
Negative Reaction	n		***	 	156	
Indefinite Reacti	ion			 	101	
						395

During the last year three dilutions of the serum reaction have been employed in the diagnosis of typhoid fever.

WATER ANALYSES.

The quality of the water supplied to Liverpool, as indicated by the following examinations, shows that its very great bacterial purity is well maintained for the year 1907. The samples analysed have been divided into daily and monthly.

DAILY.

The samples have been taken from Ashton Hall and from the Johnston Laboratories, the average number of bacteria per c.c. being 26. The Colon bacillus and Bacillus enteritidis sporogenes being absent in all samples in the quantity examined, varying from 1 to 10 c.c.

MONTHLY.

A.—Prescot Samples of Filtered Water.

					Average No. of Bacteria.	No. of Exami- nations made.
Vyrnwy Water		***		 	23	10
RIVINGTON WATER	,		***	 	18	7
MIXING WELL				 	39	9
NEW RESERVOIR		***	***	 	32	8

B .- Samples of Well Water.

A very careful watch has, as in the preceding years, been kept upon the quality of the water derived from the wells.

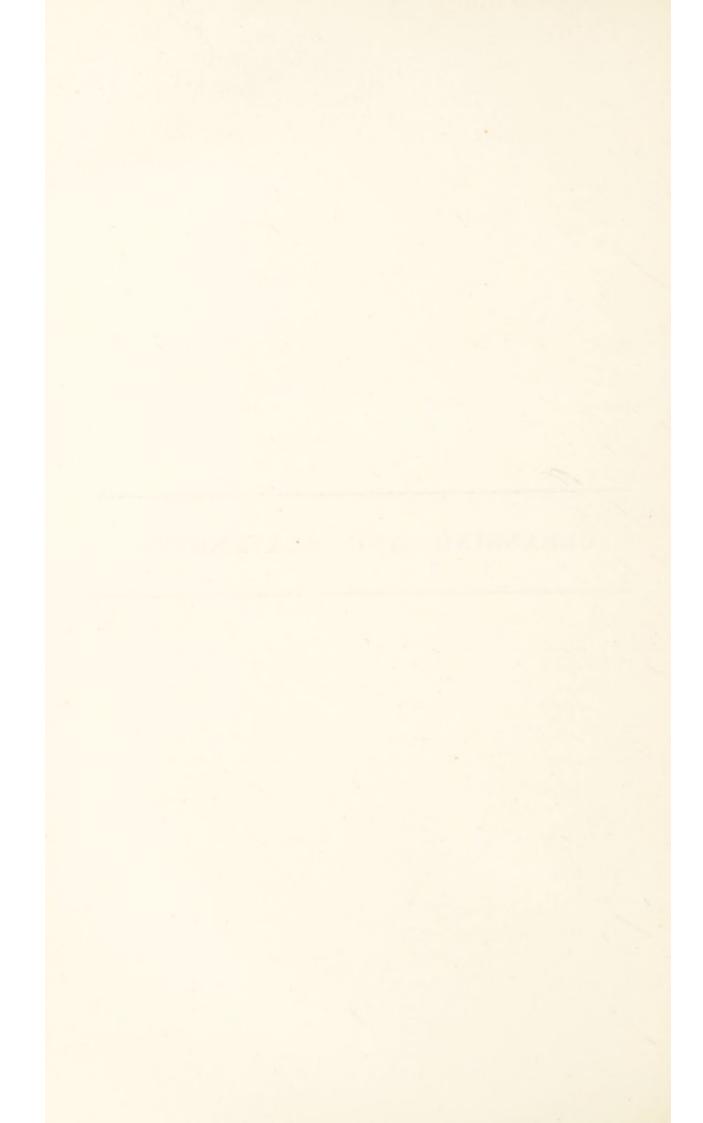
		Average No. of Bacteria.	No. of Exami- nations made
DUDLOW LANE WELL	 	 24	9
GEORGE HOLT WELL, Green Lane	 	 55	7
JOHN HOLMES WELL	 	 52	3

SPECIAL EXAMINATIONS.

Forty-four special samples have been examined bacteriologically during the year from the Rivington Watershed, and further series have also been investigated, special attention having been directed to the nature of the deposit.



CLEANSING AND SCAVENGING.



CLEANSING AND SCAVENGING.

The washing of streets, courts, back passages, &c., and the improvement in scavenging have been extended during the past year with beneficial results.

During the summer season the street washing was continued:-

197 streets were washed once a week,

303 streets ,, ,, twice a week,

55 streets ,, ,, three times a week, and

190 streets " " periodically,

and all passages and tunnel entrances to courts were also regularly washed.

Owing to the defective planning of many minor streets and the absence of adequate back passages some difficulties have yet to be overcome before the collection and removal of domestic refuse can be regarded as satisfactory. The concessions which have been made by the Health Committee for the substitution of sanitary ashbins for the old insanitary ashpits have resulted in a distinct sanitary advantage.

The following is a statement of the number of improved sanitary ashbins which were fixed at the 31st December, 1907:—

In properties assessed at over £10 per annum and new	
properties	22,197
In properties of £10 assessment and under	19,648
Total	41,845

The number of brick ashpits has been reduced from 65,000 to approximately 42,000.

Under the Bye-laws now in force, all newly-constructed houses must be provided with suitable ashbins.

All private, domestic and office drains are flushed by the City Engineer's Staff twice a year, and there can be no question that a more frequent and very thorough flushing would be attended with great advantage.

The City Engineer has kindly supplied the following tables, which indicate the operations carried out by the Cleansing Staff under his control:—

TABLE No. 1.

NIGHT SERVICE

FOR EMPTYING COURT, &c., ASHPITS AND MIDDENS.

Middens have been practically abolished in the Old City, and consequently the operations of the night service are limited to the removal of domestic and office refuse from the neighbourhood of the Exchange, where it is impracticable to perform the work during business hours.

In the year 1900 an Improved Sanitary Ashbin was introduced, and 2,385 of these Bins have now been fixed for the use of Courts.

Average	from each Ashpit at each Collection	Cart Loads.	.76
Analysis of Work.	Loads per Cart per	Night.	4-43
Analysis	Loadsper Loadsper Man per Cart ner	Night.	1.51
ight.	Horses.		1.0
Average Working Staff per night.	Carts.	No.	1.0
e Working	Wharf	No.	1.0
Averag	Ashpit	No.	2.93
	Quantity of Refuse Deposited at Chisenhale Street	Depot.	1,361
	Quantity of Ashes Collected.	Loads.	1,361
	1,778		
	Notices tions from Received. Ashpits, etc.	No.	586

TABLE No.

THE COLLECTION AND REMOVAL OF DRY ASHPIT ASHES. SERVICE FOR

The number of notices received to empty ashpits during the year 1907 was only 0.38 per cent. of the total collections. The number of brick ashpits within the City is approximately 42,000. From the year 1898 to the 31st December, 1907, Improved Sanitary Ashbins have been fixed as follows:-

In properties of over £10 assessment, and new properties.

In properties of £10 assessment and under

22,197 19,648

In premises unsuitable for fixture bins, 20,000 loose bins have been provided. During this period the number of brick ashpits has been reduced from approximately 65,000 to 42,000. During the year 1907 each ashpit was emptied on The total quantity of refuse collected was 52,633 loads, or 0.12 of a load from each 41,845 an average 10.05 times.

ashpit at each collection.

	Average	removed from each Ashpit at each Collection	Loads.	-15		
Analysis of Work.		per Donds per		4.75		
Analysi		Londs per day		1.30		
orking		səsioH		81-89		
Daily W Staff.		Carts an		36-52		
Average Daily Working Staff.		Ashpit.		8,600 131-80 36-52 31-89		
		Various Tips, &c.	Loads.	8,600		
	Depots at which Refuse was Deposited.	ed.	salidhan8.	Loads.	2,440	
		Garston Destructor.	Loads.	9,955 11,771 2,247 2,440		
		Lavrock Bank Destructor.	Loads	11,771		
Dry Ashes.		St. Domingo Destructor.	Loads.	9,955		
ū		Smithdown Road Destructor,	Loads. Loads. Loads. Loads. Loads.	8,127		
		Hathbone Road Destructor.	Loads.	6,440 8,127		
		Chisenhale Street.	Loads.	3,053		
	Quantity of Refuse Removed.			52,633 3,053		
	Total Collec-	tions from Ashpits.	No.	420,331		
	Notion	Received	No.	1,590		

TABLE No. 3

BELL-CART AND BIN ASHES. SERVICE FOR THE COLLECTION AND REMOVAL OF

The Bell-cart service provides for the daily removal of domestic refuse from shops, business premises, and dwelling-houses where no provision is made for the storage of this description of refuse. This service has to be conducted within limited hours of the morning to suit the convenience of occupiers, and the exigencies of business.

Average Quantity of Pafuse	Collected per day.	Loads.	199 80
Average Number of	Employed per day.	No.	78:56
	Various Tips, &c.	Loads.	605
	Rathbone Garston Road Bank Bank Destructor. Destructor.	Loads.	9,905
eposited.	Lavrock Bank Destructor.	Londs.	9,193
Depôts at which Refuse was Deposited.	Smithdown Road Destructor.	Loads.	9,954
is at which F	Garston Destructor.	Loads.	2,273
Depôt	Rathbone Road Destructor.	Loads.	5,684
	Chisenhale Sandhills.	Loads.	1,601
	Chisenhale Street.	Londs.	22,934
Quantity of "Bell-Cart"	Ashes Collected.	Loads.	62,149

TABLE No. 4.

SERVICE FOR FLUSHING AND CLEANSING TROUGH WATER-CLOSETS, &c.

The frequent flushing of trough water-closets is a sanitary measure, this type of closet being provided principally in the more densely-populated areas of the City. A large number of the public urinals and trough water-closets are also cleansed and disinfected twice daily during the Summer season, and once daily during the remaining part of the year.

	1	·	
g Staff per day.	Urinal Men.	No.	16-22
Average Working Staff per day.	Trough W. C. Men.	No.	25.16
	Trough Water-Closets.	No.	1,275
	Overground Urinals.	No. and Stalls.	153—508
	Underground Urinals.	No. and Stalls.	26-214

TABLE No. 5.

SERVICE FOR THE CLEANSING OF STREETS, COURTS, AND PASSAGES, AND COLLECTION OF REFUSE.

	Average Number of Loads	Removed Daily per Cart.	No. 3.68
		Horses.	No. 62-62
Average Daily Staff.		Carts.	No. 56-91
		Average Number of Men Employed.	Per day. 506
		Sweeping Machines,	Per day. 5.71
Depots at which Refuse was Deposited.		Various Tips, &c.	Loads. 20,184
		Destructors.	Loads. 9,263
		Wavertree.	Loads. 4,636
		.sllinfbras.	Loads. 5,539
-	la c	Chisenhale Street.	Loads. 31,261
	Total	Refuse	Loads. 70,883

TABLE No. 6.

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

On Sunday mornings a number of the principal streets in the central parts of the City are cleansed, and, as a sanitary measure, the domestic refuse in certain districts of the City is also collected.

	Average Daily Staff.	Daily Staff.		Horses.	S. N	37.69
	Average		Mon	wen.	No.	246
		Tips.	Unsaleable	reiuse.	Loads.	611
			Saleable	mennec.	Loads.	1
	=	Wavertree.	Unsaleable		Loads.	-
	Peposited	Way	Saleable Refuse.		Loads.	52
weepings.	Street Sweepings. Depôts where Deposited.	Depôts where Sandhills.	Unsaleable Refuse,		Loads.	279
Street 8		Sa	Saleable Refuse.		Loads.	304
		Chisenhale Street.	Unsaleable Refuse.	Londe	Loads.	959
		Chisen	Saleable Refuse.	Toode		1,628
		Total		Londo	TORIGO.	3,341
-	Removed.	Saleable Unsaleable	TACHER S.	Loads		1,984 1,357
		Saleable	weinse.	Londs		1,984

TABLE No. 7.

SERVICE FOR STREET WATERING.

In connection with Street Watering approximately 44 million gallons of Water were distributed during the season, in addition to which a large quantity was used for street washing.

Average No. of	Loads distributed Daily per Cart.		32-43
Average Daily Staff employed during the Season.	Carts and	Horses.	93-80
Average Daily 8 during the	Weterman	, and man	21-57
Quantity of Water Distributed.	Small Loads.	Day.	22,401
	Large Loads.	Day.	107,218
Number of	which Carts were out	during year.	145

In addition to the figures in the above table 7,093 loads of water were distributed on the drives of Newsham Park and Sefton Park.

TABLE No. 8.

REMOVAL OF GARBAGE FROM ABATTOIR.

Where Deposited.	Sandhills. Collingwood Dock.	
	Chisenhale Street.	7,1,1
Loads	during year.	1,177

TABLE No. 9.

RETURN OF HORSE MANURE COLLECTED FROM FIRE STATIONS AND CORPORATION STABLES,

AND DELIVERIES TO CHISENHALE STREET DEPÔT, &c.

DEPOSITED.	WAVERTREB.	Loads.	255
DEPÓTS AT WHICH MANURE WAS DEPOSITED.	SANDHILLS.	Loads.	276
DEPÓTS AT	CHISENHALE STREET.	Loads.	1,402
,	TOTAL QUANTITY DEALT WITH DURING THE YEAR.	Loads.	1,533

Of the above loads, 630 were collected by the Department from Fire Stations.

TABLE No. 10.

DESPATCHES OF MANURE AND REFUSE.

Quantity of Saleable Refuse.
Street Sweepings Mixture. Refuse to
Tons. Tons.
0,992 4,312
6.389
:
:
::
::
::
:
::
:
17,381 4,649 45,044

The foregoing Table shows that not less than 339,445 tons of Town's refuse were disposed of during the year 1907, but this quantity does not represent the actual quantity collected and carted to the Wharves, as during the Winter months a proportion of the street sweepings is in a liquefied condition, and drains away before despatch of the refuse from the Wharves.

TABLE No. 11.

HORSES.

DAILY AVERAGE NUMBER EMPLOYED ON CLEANSING WORK.

Total Daily Average.	186-98
.anoixaV	2.72
Destructors.	5.73
Canals.	1.74
Abattoir.	1-24
Watering.	9-84
Markets.	1.39
Sweeping Machines.	2.68
Street.	56-59
Bell Ashes.	72-30
Dry Ashes.	28.75
Might Ashes.	1.0

TABLE No. 12.

AVERAGE DAILY STAFF OF MEN EMPLOYED.

	al.	Grand Tot	855-11			
ö		Total.	10 61 61			
Wharves, Depôts, &c.	Collingwood Dock.	Labourers.	Ć1			
Dep	Various Tips.	Labourers.	ė			
ves,	Wavertree.	Labourers.	ės.			
Thar	sandbills.	Labourers.	20-2			
P	Chisenbale St.	Foreman.	÷			
		Total.	89.008			
	rge Crew.	Hopper Ba	13-			
		Boat Men.	10.			
		Ash Men.	71. 118:90 10-			
	9281	Orderly Bo	71.			
	ater Closet and nal Men.		41.38			
vice	courts.) gaideaW	2-47			
Day Service.	Gully Men.					
Da		.Vashing.	55-73			
	'uə'	Passage M	3-19			
	wers (Sweeping and Box Ashes).		9-68 259-40 148-82 69-19 28-72 10-12 2-47			
	and Casual Men.	Sweepers:	259-40			
	7	Watermen	9-68			
	7.	Watchmer	i-			
		Inspectors	81			
.00		Total.	4-98			
Night Service.	'U	Mharf Ma	2-93 1-			
s the	'uə	Midden M	2-93			
Z	Poveman.	И запато W	-			
		Total	17.			
Jeneral		Clerks.	÷			
Gen	ers.	Limekeep	i-			
		Inspectors	ė			

INSANITARY PROPERTY.



INSANITARY PROPERTY.

The year 1907 has been one of very considerable progress, not only in the direction of the removal of insanitary property by demolition or by reconstruction, but also in the work of providing dwellings for suitable tenants who have been dispossessed from their houses.

The following tables show the progress of the work of the Housing Committee during the last two years, so far as it is concerned with the removal of insanitary property, under the Housing of the Working Classes Acts, 1890-1903:—

Table 1.

Statement showing the number of houses authorised by the City Council to be dealt with during the year 1906, and indicating in detail the result of the action taken:—

FRONT HOUSES.

Total No. of front houses dealt with during year 1906.	No. of Houses.	Demo- lished.	Ren- dered Sanitary.	In Schemes but still Occupied.	Closed.	In progress
"A" Closing Orders	19	14	1	_	4	_
" B " By Schemes	102	_	-	84	18	_
" C " Circular letter	72	13	59	-	_	-
Total	193	27	60	84	22	_

COURT HOUSES.

How Dealt With.	No. of Houses.	Demo- lished.	Ren- dered Sanitary.	In Schemes but still Occupied.	Closed.	In progress,	Proceed ings Pending
"A" Closing Orders	329	240	30		59	_	_
"B" By Schemes	517	17	_	347	153	_	_
" C " Circular letter	170	99	71	_	_	_	_
Total	1,016	356	101	347	212	-	_
Less houses dealt with by Closing Orders, and inclu- ded in Schemes.	50	16	-	_	34	_	_
Total No. of Court Houses dealt with during year 1906	966	340	101	347	178	_	_

Table 2.

Statement showing the amount of insanitary property undealt with on January 1st, 1907, and the proceedings authorised in regard to it during the year:—

			Courts.	Court houses.		No. of front houses.
Approximate number of insanitary houses existing on 1st January, 1907.			682	3955		1300
Proceedings authorised by the City Council during the year 1907:—	Courts.	Court houses.			Front houses.	
"A" By Closing Orders	21	111			23	
B" By schemes under the Housing of the Working Classes Act	7	54			14	
C." Cases in which summonses have been issued, but for which Closing Orders were not obtained up to Dec. 31st 1907	9	67			21	
D "Alterations and improve- ments authorised on circular letter, or on the action of the Health Committee in asking for more closet accommoda- tion	10	60			55	
TOTAL	- Marien		47	292		113
Leaving for future consideration			635	3663		1187

Table 3.

Statement showing the number of houses authorised by the City Council to be dealt with during the year 1907, and indicating in detail the result of the action taken:—

FRONT HOUSES.

	No. of Houses.	Demo- lished.	Ren- dered Sanitary.	In Schemes but still Occupied.	Closed.	In progress.
Total No. of front houses dealt with during year 1907	113	13	56	8	24	12

COURT HOUSES.

How Dealt With.	No. of Houses.	Demo- lished.	Ren- dered Sanitary.	In Schemes but still Occupied.	Closed.	In progress.	Proceed ings Pending
"A" by Closing Orders	111	31	14	_	66	-	_
"B" by Schemes	54	-		14	40	-	-
"C" Cases in which summonses have been issued, but for which Closing Orders were inot obtained up to Dec. 31st, 1907	67	17	32	- 1	_	6	12
D " Alterations and improvements authorised on circu- lar letter, or on action of Health Committee in ask- ing for more closet accommodation	60	26	34	-			
Total No. of Court houses dealt with during 1907	292	74	80	14	106	6	12
Less houses included in Schemes, but also dealt with by Closing Orders.	5	_	_	_	5	_	_
Total No. of Court Houses dealt with during 1907.	287	74	80	14	101	6	12

Table 4.

SUMMARY.

Showing total number of houses dealt with during the years 1906 and 1907:—

FRONT HOUSES.

	Total No. of Houses dealt with.	Demo- lished.	Ren- dered Sanitary.	In Schemes: but still Occupied.	Closed.	In progress.	Proceed- ings Pending.
1906	193	27	60	84	22		_
1907	113	13	56	8	24	12	-
Total	306	40	116	92	46	12	_

COURT HOUSES.

	Total No. of Houses dealt with;	Demo- lished.	Ren- dered Sanitary.	In Schemes but still Occupied.	Closed.	In progress.	Proceed- ings Pending.
1906	966	340	101	347	178	_	_
1907	287	74	80	14	101	6	12
Total	1,253	414	181	361	279	6	12

Closing Orders have also been obtained for seventeen derelict court houses which have been closed for a period of years; these have not been included in any previous return.

In considering these Annual Returns it must be borne in mind that after the authorisation by the Council, more or less protracted negotiations ensue before the houses are finally disposed of, but the net result shows that during the two years 1906-7 the number of insanitary dwellings dealt with has been 1,076, of which 454 have been demolished, 325 have been closed and await demolition or reconstruction, and 297 have been reconstructed and rendered sanitary.

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RETURN OF HOUSES ERECTED 1896-1907.

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
Under £12	7	95	68	4		222	85	201	258	78	243	118
£12 to £18)				821	436	558	590	363	284	394	547	609
+	944	1,138	1,276									
£18 to £25)		***	***	769	602	633	962	1,058	1,067	872	1,039	1,022
£25 to £35	204	389	589	607	402	441	323	706	449	638	422	444
£35 and upwards	44	34	99	157	188	109	101	125	116	204	202	159
	1,199	1,656	1,977	2,358	1,578	1,963	2,061	2,458	2,174	2,186	2,453	2,349

HOUSES OF £12 TO £25 RENTAL.

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
944	1,138	1,276	1,590	1,038	1,191	1,552	1,421	1,351	1,266	1,586	1,631

LIVERPOOL SANITARY AMENDMENT ACT, 1864.

Under the provisions of the above Act, the Medical Officer of Health certified that the following premises were unfit for human habitation, and ought to be demolished:—

The court known as No. 8 court in Gibraltar Row in the City of Liverpool.

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

The court known as No. 10 court in Gibraltar Row aforesaid.

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

The dwelling-houses numbered 18 and 20, contiguous to No. 10 court in Gibraltar Row aforesaid.

The court known as No. 12 court in GIBRALTAR Row aforesaid.

The dwelling-house numbered 1 in the said No. 12 court.

The dwelling-house numbered 28, contiguous to No. 12 court in Gibraltar Row aforesaid.

The court known as No. 14 court in Gibraltar Row aforesaid.

The dwelling-houses numbered 1, 2 and 3 in the said No. 14 court.

The dwelling-houses numbered 30 and 32, contiguous to No. 14 court in Gibraltar Row aforesaid.

The court known as No. 20 court in Upper Milk Street in the City of Liverpool.

The dwelling-houses numbered 4 and 5 in the said No. 20 court.

The court known as No. 5 court in Queen Street in the City of Liverpool.

The dwelling-houses numbered 4, 5, 6, 7, 8, 9, 10, 12 and 13 in the said No. 5 court.

The court known as No. 5 court in Denison 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. 12 court in Denison Street aforesaid.

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

The court known as No. 13 court in Cheapside in the City of Liverpool.

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

The court known as No. 2 court in Pontack Lane in the City of Liverpool.

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

The court known as No. 1 court in Clare 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 87 and 89 in Clare Street aforesaid, contiguous to No. 1 court in the said Street.

The court known as No. 3 court in Clare Street aforesaid.

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

The dwelling-houses numbered 91 and 93 in Clare Street aforesaid, contiguous to No. 3 court in the said Street.

The court known as No. 6 court in RICHMOND Row in the City of Liverpool.

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

The court known as No. 8 court in RICHMOND Row aforesaid.

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

The court known as No. 5 court in VAUXHALL ROAD in the City of Liverpool.

The dwelling-houses numbered 4 and 6 in the said No. 5 court.

The court known as No. 2 court in All Saints' Lane in the City of Liverpool.

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

The court known as No. 21 court in Newsham Street in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 5 and 6 in the said No. 21 court.

The dwelling-houses numbered 69 and 71 in Newsham Street aforesaid, contiguous to No. 21 court in the said Street. The court known as No. 23 court in Newsham Street aforesaid.

The dwelling-houses numbered 3, 4, 7, 8, 11 and 12 in the said No. 23 court.

The court known as No. 3 court in Burlington Street in the City of Liverpool.

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

The court known as No. 4 court in Bond Street in the City of Liverpool.

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

The court known as No. 6 court in Bond Street aforesaid.

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

The court known as No. 8 court in Bond Street aforesaid.

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

The court known as No. 20 court in Bond Street aforesaid.

The dwelling-houses numbered 3 and 4 in the said No. 20 court.

The court known as No. 22 court in Bond Street aforesaid.

The dwelling-houses numbered 3 and 4 in the said No. 22 court.

The court known as No. 24 court in Bond Street aforesaid.

The dwelling-houses numbered 3 and 4 in the said No. 24 court.

The court known as No. 2 court in Porter Street in the City of Liverpool.

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

The dwelling-houses numbered 4 and 6, contiguous to No. 2 court in Porter Street aforesaid.

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

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

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

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

The court known as No. 2 court in Sand Street in the City of Liverpool.

The dwelling-house numbered 3 in the said No. 2 court.

The court known as No. 2 court in Sheridan Street in the City of Liverpool.

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

The court known as No. 6 court in Hygeia Street in the City of Liverpool.

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

The court known as No. 1 court in Lowwood Street in the City of Liverpool.

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

The court known as No. 2 court in Lowwood Street aforesaid.

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

The court known as No. 4 court in Lowwood Street aforesaid.

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

The court known as No. 6 court in Lowwood Street aforesaid.

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

The court known as No. 8 court in Lowwood Street aforesaid.

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

The court known as No. 9 court in Lowwood Street aforesaid.

The dwelling-houses numbered 3 and 4 in the said No. 9 court.

The court known as No. 1 court in Holborn Street in the City of Liverpool.

The dwelling-houses numbered 1, 2, 3, 4, 8, 9, 10, 11, 12 and 13 in the said No. 1 court.

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

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

The court known as No. 3 court in Roscoe Lane in the City of Liverpool.

The dwelling-house numbered 3 in the said No. 3 court.

The court known as No. 5 court in Roscoe Lane aforesaid.

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

The court known as No. 8 court in Henry Street in the City of Liverpool.

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

The court known as No. 2 court in Laxey Street in the City of Liverpool.

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

The court known as No. 1 court (Brook's Place) in Mosley Street in the City of Liverpool.

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

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

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

The court known as No. 3 court in Shaftesbury Street in the City of Liverpool.

The dwelling-house numbered 2 in the said No. 3 court.

The court known as No. 5 court in Shaftesbury Street aforesaid. The dwelling-houses numbered 3 and 4 in the said No. 5 court.

The court known as No. 7 court in Shaftesbury Street aforesaid. The dwelling-houses numbered 2 and 3 in the said No. 7 court.

The dwelling-house numbered 6 in Combernere Street in the City of Liverpool.

SUPERVISION OF CORPORATION DWELLINGS.

During the month of August a report was submitted to the Housing Committee in the following terms:—

The Medical Officer begs to report that from time to time considerable difficulty is experienced in maintaining a proper degree of cleanliness in a certain number of the Corporation dwellings, notably in certain blocks. For some few months past the Medical Officer has caused the same amount of supervision to be exercised by the Female Staff in the Corporation dwellings as in the other dwellings in the vicinity, as the great bulk of the tenants have been accustomed to supervision prior to going into the new dwellings.

The Medical Officer, however, is of opinion that it is desirable that a still closer method should be applied to those tenants, having regard to the very great facilities afforded them for keeping themselves, their children and their dwellings clean. He is of opinion that although this can be attained in various ways, the best way to do it would be, in the event of any new appointment of caretaker being made, to select a person who in addition to such other qualifications as are necessary, is fully qualified as a Sanitary Inspector, and in this way gives evidence of fitness and capacity to advise those tenants who need his attention.

The Medical Officer would also recommend that facilities should be afforded to the present caretakers to attend the ensuing Evening Course of Instruction given under the direction of the Sanitary Science Instruction Committee at Ashton Hall, and that those caretakers who obtain a Certificate of Competency should have some recognition in the shape of a small addition to their pay.

The Committee are already aware that in accordance with their instructions applicants of drunken habits and of dissipated

character are excluded from the dwellings, and that a selection of the better class of dispossessed is being made. This is an additional reason why better results may be looked for.

The Medical Officer would also point out that a very few drunken and disorderly families are a great source of annoyance to the respectable majority, and not only that, but when they quit one of the houses for any reason, the house is much deteriorated, and tenants have complained that in addition to the ordinary dirtiness, vermin are left behind.

It is, therefore, in many ways desirable that the supervision should be as strict as may reasonably be applied in regard to these dwellings, and if the Manager would kindly intimate any case where a house is left in a dirty and verminous condition, the Medical Officer would cause the rooms to be fumigated before a new occupier went in.

A large number of copies of a small book written by Dr. Caton, entitled "How to Live," was distributed among the tenants of the Corporation dwellings.

During the year the number of tenements where sub-letting or overcrowding was suspected by the Manager of the Corporation tenements, and referred to the Medical Officer's Department for investigation, was 43.

Night visits were paid to these tenements, with the result that 15 tenements were found sub-let, of which 11 were also overcrowded. There were also 11 tenements found overcrowded, but not sub-let, i.e., occupied by one family and their relations (or friends in some instances), and 5 cases of indecent occupation of sleeping rooms, viz.:—In 3 instances one man and two women were found in the same bedroom; in 1 instance one man and three women; and in 1 instance two men and one woman. The remaining 17 were found correct.

In addition to the foregoing, an anonymous complaint of overcrowding a tenement was received, and in two other instances overcrowding of tenements was suspected by the Sanitary Department, but on visits being paid no evidence of overcrowding was found.

The results of the night visits are communicated to the Manager of the Dwellings, who, where necessary, takes measures to abate the infringements.

APPLICATIONS FOR CORPORATION TENEMENTS, 1907.

Applications for houses in these buildings have been numerous, there being now about 2,170 tenements completed, all under the control of the Corporation.

These tenements are reserved for persons who have been dispossessed from their houses by any action of the Corporation, and only sober and well-conducted applicants are accepted.

Owing to a great number of the applicants stating that they were living in overcrowded houses, or insanitary cellars, the Housing Committee referred the applications to the Medical Officer of Health for investigation. These applications were dealt with by the Lodging House Inspectors, and in the event of there being any evidence of overcrowding, or illegal occupation of cellars, the application was marked accordingly, and returned to the Manager.

As the statements of many of the applicants were found to be incorrect, it was deemed necessary to make a closer investigation, and for this purpose night visits were paid in many cases.

The number of applications received and dealt with during the year was 489. In dealing with these applications, it was found that in 326 instances the circumstances of the applicant did not comply with the Committee's conditions. Of this number 78 applicants gave false addresses, and in 248 cases there was no evidence that the alleged overcrowding existed. Of the remaining 163 cases investigated, 45 were found to be cases of one family overcrowding a house or cellar, or illegal occupation of a cellar. These were dealt with under the Public Health Act. One hundred and eighteen were claims on account of alleged overcrowding occurring in sub-let houses, of which, in 52 cases, it was found that there was no overcrowding, or the alleged overcrowding was easily remedied by some of the occupants leaving the premises, or by re-arranging the sleeping apartments.

There were 66 cases of overcrowding found in sub-let houses, and in 64 of these instances informations were laid against the chief tenants, and convictions followed.

The total number of cases of overcrowding in ordinary dwellings, cellars, and sub-let houses, and illegal occupation of cellars, was 111, arising out of 489 applications investigated, and in 51 instances the applicants were allowed to rent a Corporation dwelling.

In a considerable number of cases the overcrowding was of very recent date and the offence had evidently been committed with the intention of qualifying for a Corporation house. For instance, in 14 cases the length of tenancy ranged from one day to three weeks.

In some cases the applicants were found to be drunk at the time of the visit of inquiry. Thirteen cases of drunkenness came under the notice of the Inspectors.

The total number of day visits paid during the year was 575, and 124 night visits were made, the total for the year being 699, from which it will be seen that a considerable amount of the Inspectors' time was taken up by investigating these applications.

The Corporation Surveyor has kindly supplied the following table: -LIVERPOOL SANITARY AMENDMENT ACT, 1864.

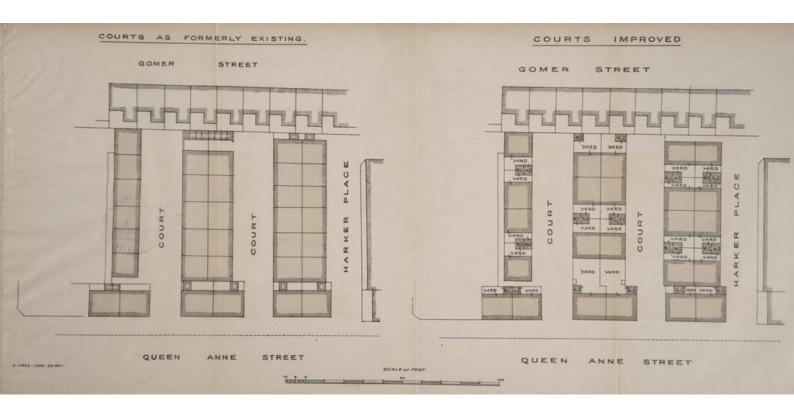
INSANITARY PROPERTY.

Insanitary Property Purchased, 1907. Number of houses purchased by Housing Committee included in Reports referred by Council to Committee ... Insanitary Property Demolished, 1907. Number of houses in respect of which Compensation for demolition was paid by Housing Committee included in Reports referred by Council to Committee ... 190 Note.—The demolition of a great number of these houses has

been accompanied by structural alterations to adjoining property, resulting in 41 "through" houses and 109 single houses being left standing. The term "through" houses signifies that two insanitary houses have been converted into one house and made sanitary by the introduction of through ventilation, with separate yard space and w.c. accommodation, whilst the single houses have also been somewhat similarly improved.

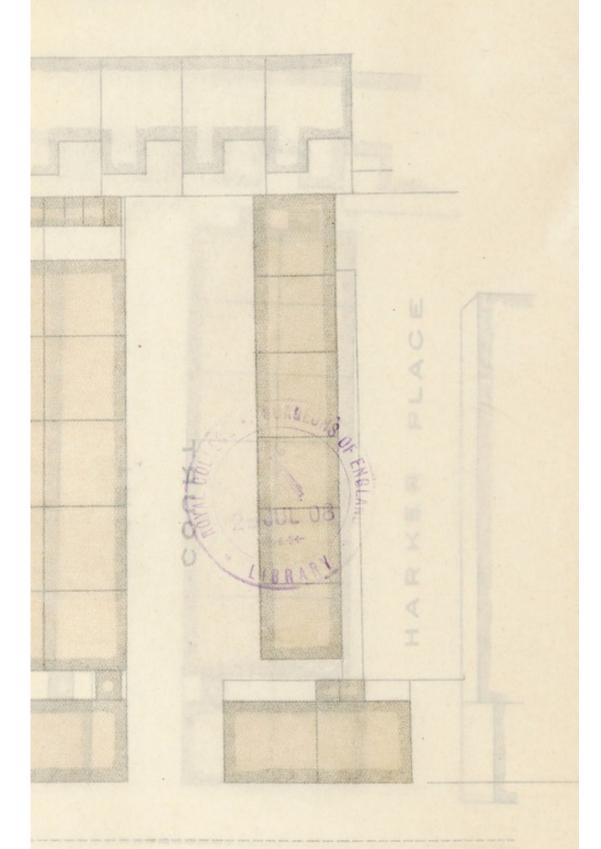
HOUSING OF THE WORKING CLASSES ACT, 1890.

Number	of	houses	pur	chased	under	various	Improver	nent	
Sche	mes								148
Number	of	houses	dem	olished	under	various	Improver	nent	
Sche	mes								0

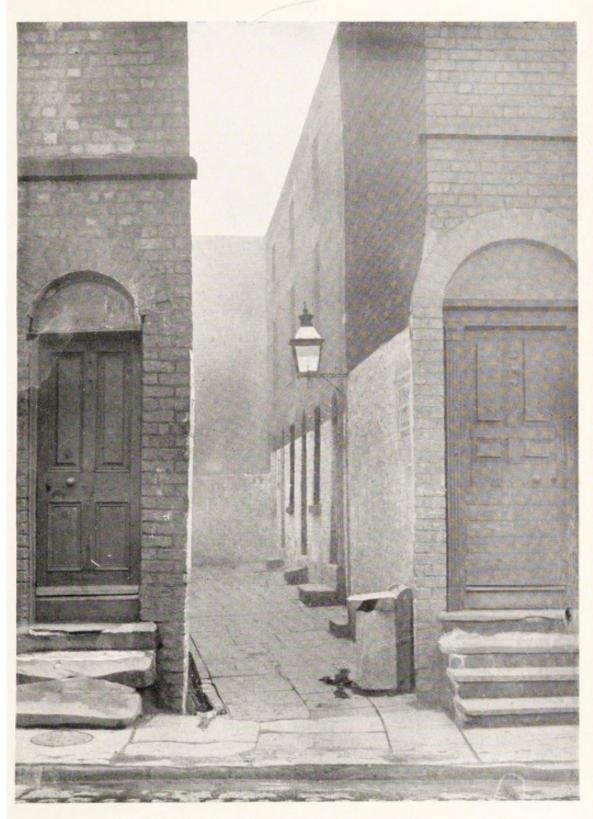


COURTS AS FORM

GOMER



QUEEN

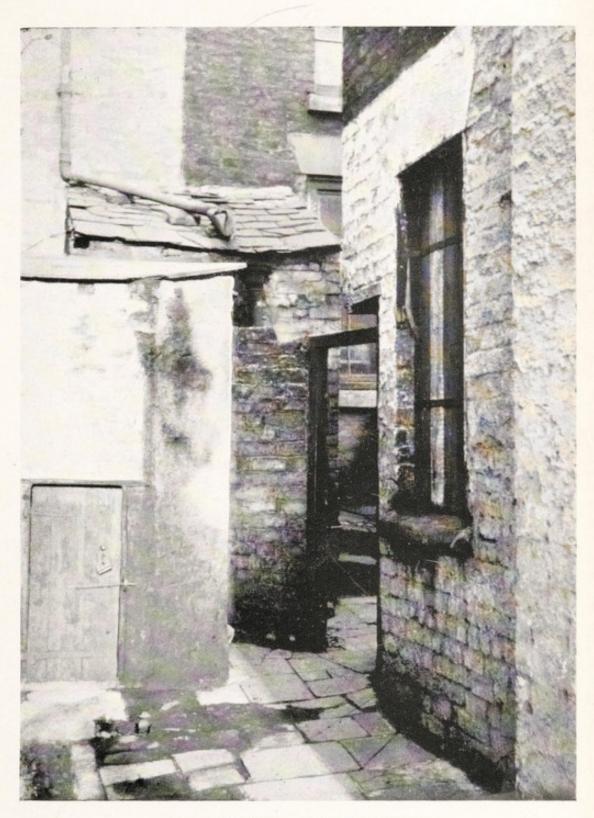


No. 6 COURT, LIMEKILN LANE.

The frontage faces due North, and the houses being back-to-back are entirely deprived of sunlight.

(Included in Burlington Street Scheme.)



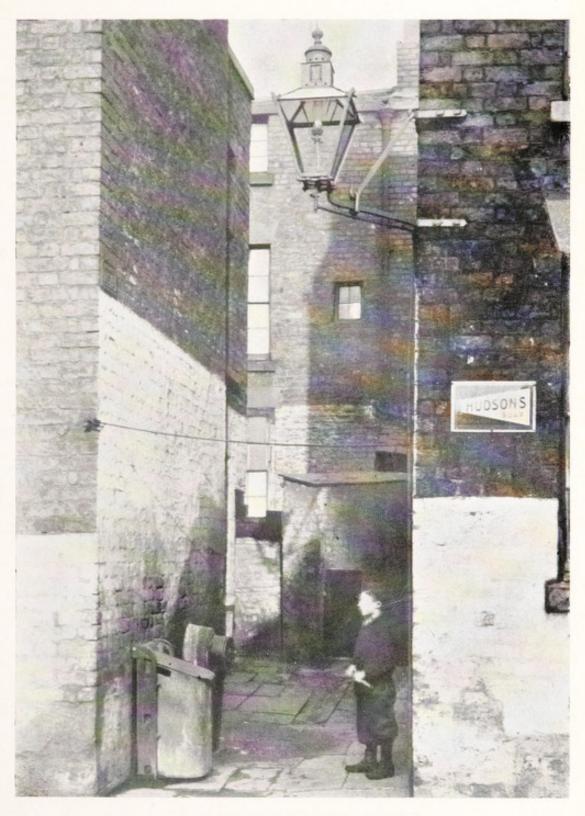


No. 7 COURT, ELDON STREET.

Interior view of Court shewing close proximity of trough water-closet to living room window.

(Included in Bevington Street Scheme.)



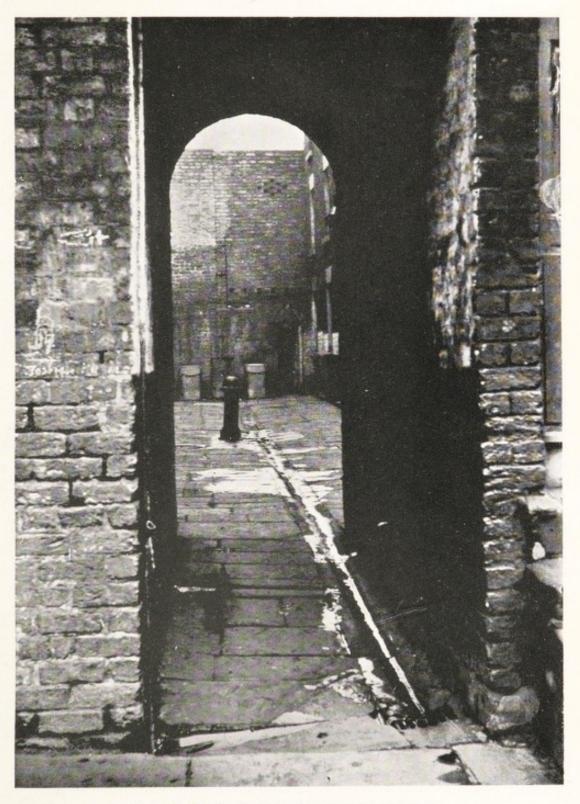


No. 9 COURT, ELDON STREET.

Exterior view of Court shewing high buildings at further end.

(Included in Bevington Street Scheme.)



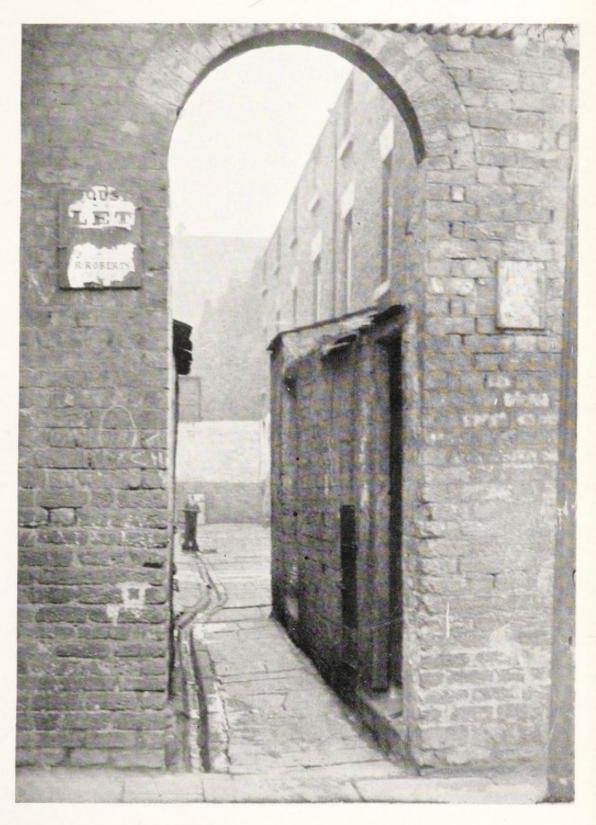


No. 21 COURT, BURLINGTON STREET.

Shewing tunnel entrance, on either side of which is an entrance to a dwelling-house.

(Included in Burlington Street Scheme.)

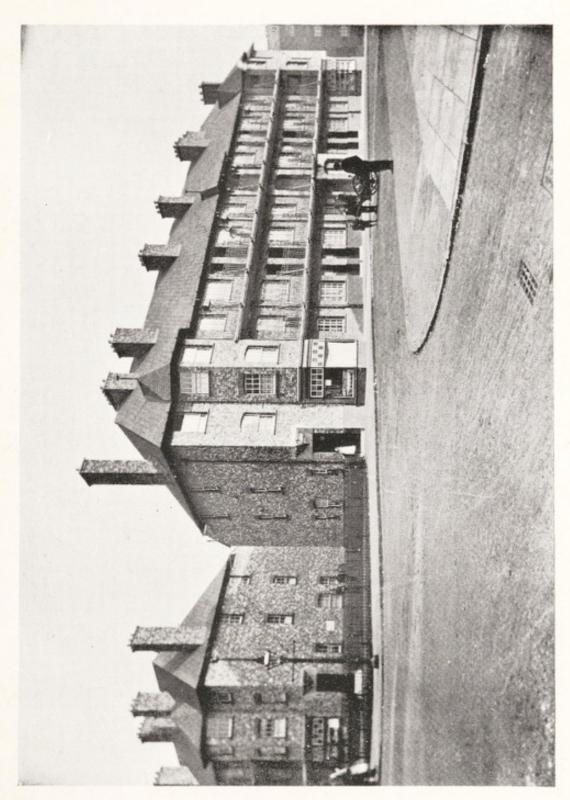




No. 25 COURT, BURLINGTON STREET.

Shewing diminished width of entrance to court in consequence of the position of the closets, used in common by the occupiers of the houses beyond. (Included in Burlington Street Scheme.)





View of some of the Dwellings erected by the Corporation in the Hornby Street Area (Limekiln Lane), on sites cleared of Insanitary Property.



INSANITARY PROPERTY.

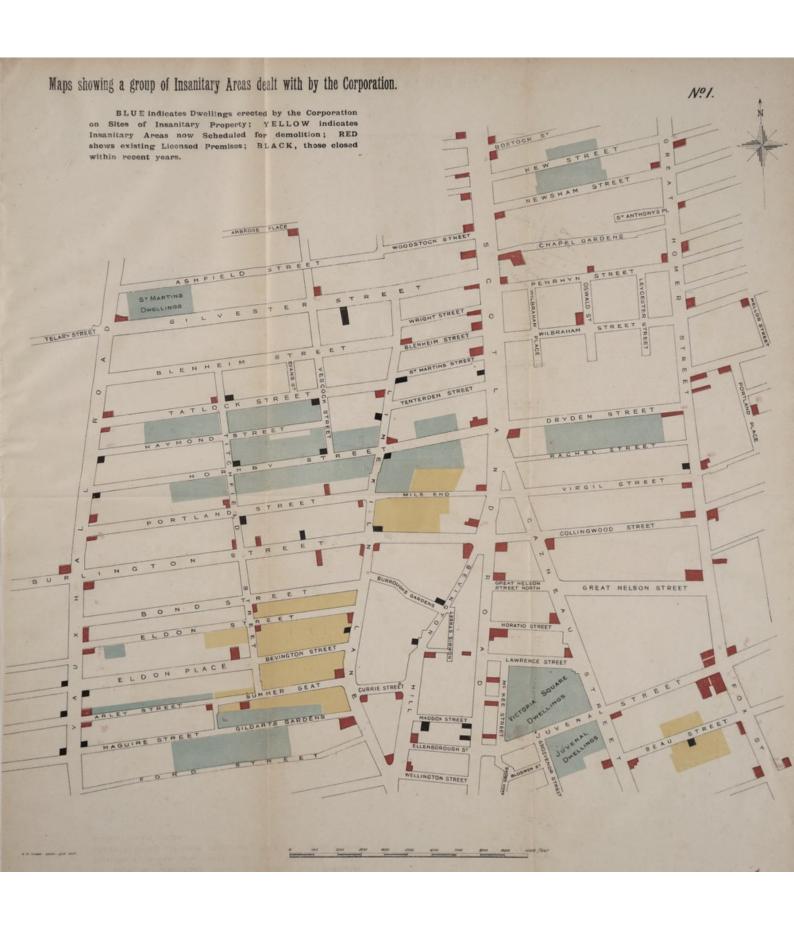
NUMBER OF HOUSES reported under each PRESENTMENT from January, 1865, to June, 1904 (both inclusive).

Hom 9AF	(UARY, 1865, to JUN	E, 1301 (000	ii inclusi	ve).
Date.	Presentment.	Houses Reported.	Year.	Demolished.
January, 1865	1st Presentment.	101		101
		95		
July, 1865	2nd ,.			95
January, 1866	3rd ,,	190		190
,, 1869	4th ,,	61		61
October, 1871	5th ,,	76		76
August, 1880	6th ,,	43		43
April, 1884	7th ,,	373		373
December, 1884	8th ,,	629		629
March, 1889	9th ,,	86	1889	98
April, 1890	10th ,,	368	1890	208
,, 1891	11th	501	1891	221
August, 1894	19th	299	1892	422
March, 1896	13th ,,	240	1893	323
	14th ,,	799	1894	
January, 1897				69
October, 1898	15th ,,	304	1895	307
December, 1899	16th ,,	666	1896	137
July, 1901	17th ,,	346	1897	605
_	_	_	1898	471
June, 1904	18th ,,	363	1899	511
_		_	1900	586
_	_		1901	190
			1902	345
_		_	1903	157
			1904	111
			1905	605
			1906	545
_			1907	190
		5,540		7,669
purchased pri power of Act of to April, 1888	er of Health, and vately under the f 1882—May 1885	943		943
No. of houses inc				
	per Mann Street			
Areas		710		-
Street, Beving	ded in Burlington ey Street, Beau ton Street, Holly y Street, Frank			
Street and Gra No. of houses repor Officer of He	fton Street Areas ted on by Medical ealth to Council,	1,011		
		930		
		166		
1906		297		
		162		
Total		9,759		8,612
10001		0,100		10,012

HOUSING OF THE WORKING CLASSES ACT, 1890.

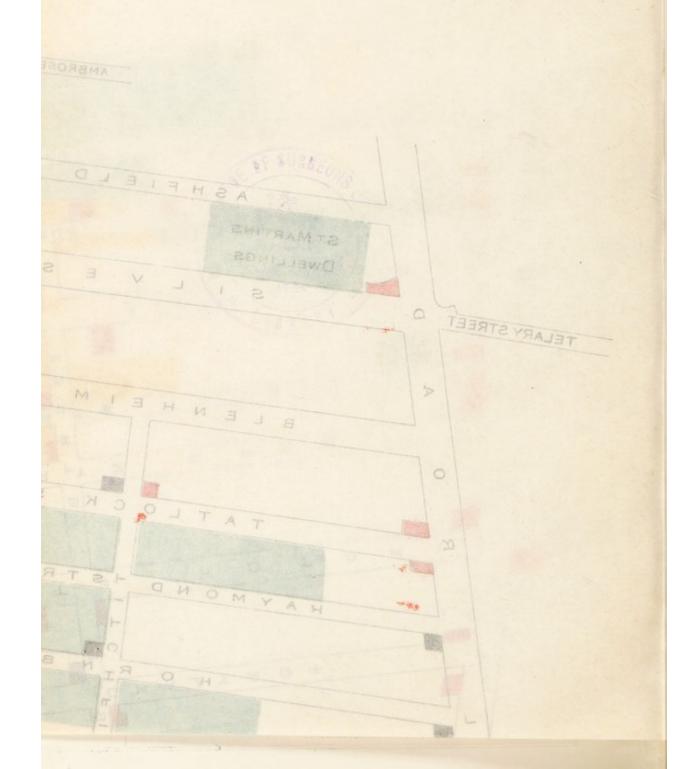
Return made to the Local Government Board, in pursuance of Sec. 44 of the Housing of the Working Classes Act, 1890, in respect of the year ended 31st March, 1908.

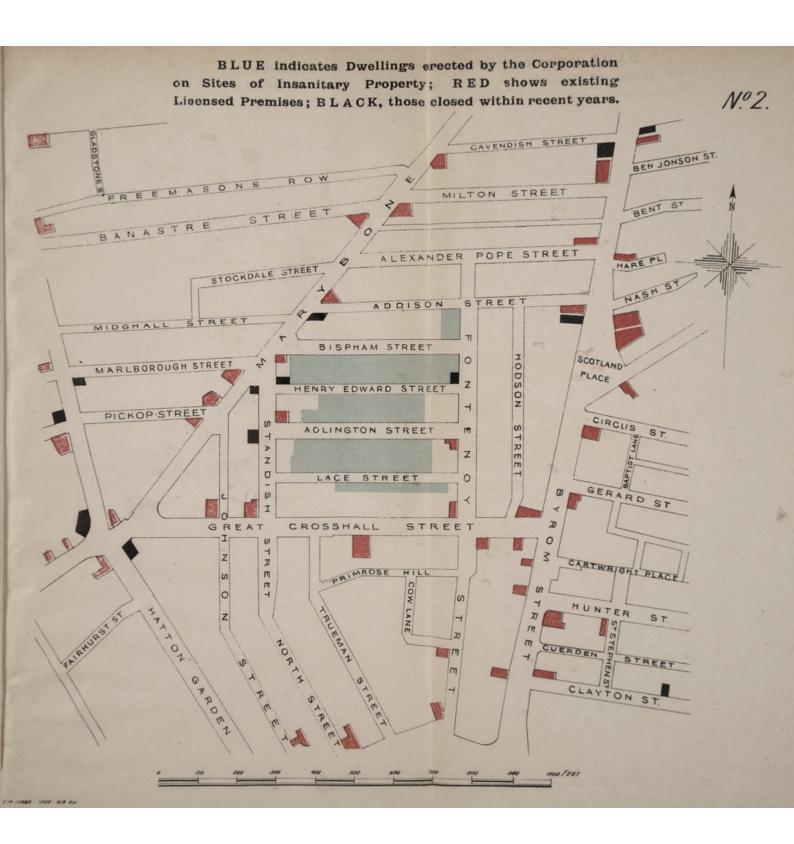
Buildings Unfit for Human Habitation.	
Number of dwellings in respect of which representations were made to the Local Authority during the year:—	
(a) By the Medical Officer of Health 30-	4
Number of dwelling houses respecting which action had been taken under Part II. of the Act, which were satis- factorily dealt with by the owner during the year, without a closing order being obtained, viz.:	4
(a) Number made fit for human habitation 6	2
(b) Number closed or demolished voluntarily 2	2
Number of dwelling houses in respect of which closing orders were made during the year	1
Number of dwelling houses ordered to be demolished by the Local Authority during the year (Sec. 33)	3
Number of dwelling houses (if any) in respect of which appeals under Sec. 35 (1) made during the year against orders of the Local Authority for demolition were allowed —	

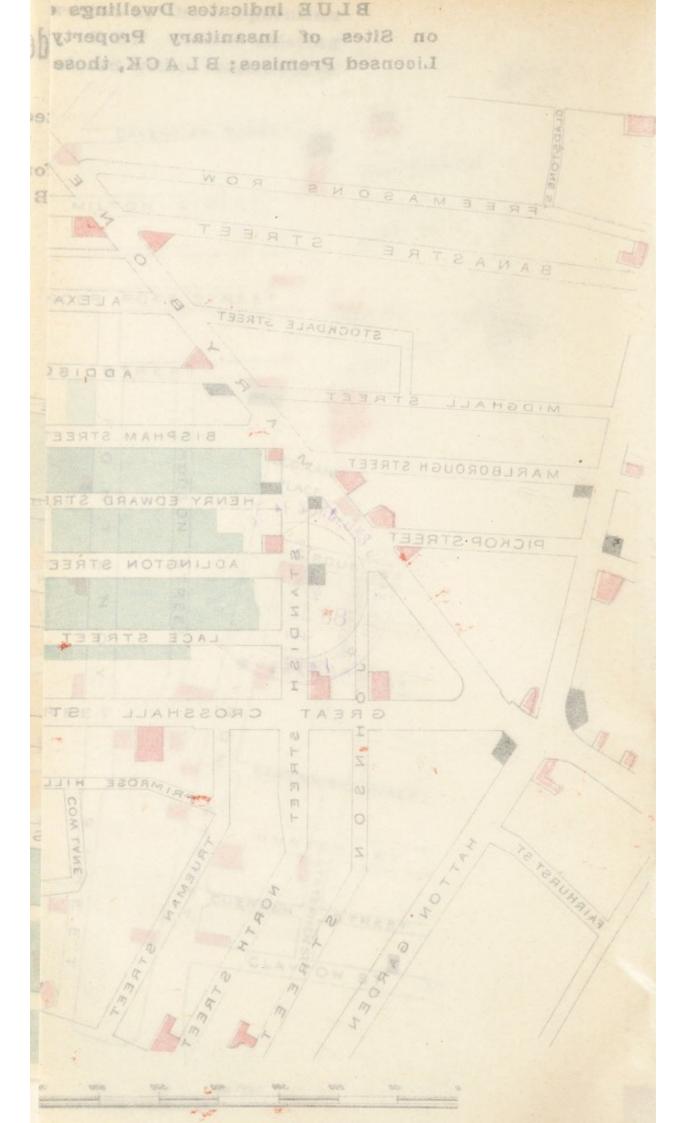


Maps showing a group of Insanitary Areas

BLUE indicates Dwellings erect on Sites of Insanitary Property; Insanitary Areas now Scheduled f shows existing Licensed Premises; within recent years.







CITY HOSPITALS.



HOSPITAL ACCOMMODATION.

With the opening of the City Hospital at Fazakerley, the question of the permanent closure of Parkhill Hospital engaged the attention of the Hospitals Committee during the month of February, and although it was obviously not safe at that time to close the Institution entirely, a considerable number of the beds were put out of commission, viz., 200, and the staff was correspondingly reduced. In September the question was again brought forward, but it was felt that whatever action might be desirable in the near future, the close of the year, when an increase of infectious sickness usually arises, was not an opportune time to come to any decision.

The Hospitals Committee, therefore, deferred in the meantime any further action in this direction.

At the present time the number of beds available is as follows: -

City	Hospital	North			 162	beds
	,,	South			 100	,,
	,,	East			 152	,,
	,,	Parkhill			 150	,,
	,,	Fazakerle	ey		 350	,,
	,,	Fazakerle	ey An	nexe	 160	"
					1,074	,,

The approximate apportionment of beds is as follows, but the arrangement is modified as circumstances necessitate:—

Smallpox		 	 160	beds
Typhus Feve	er	 	 20	,,
Typhoid Fev	er	 	 100	,,
Scarlet Feve	r	 	 554	,,
Diphtheria		 	 80	,,
Measles		 	 60	,,
Isolation		 	 100	,,

1,074 ,,

The value of the hospitals, and the immense amount of useful work performed, is shown by the fact that no less than 4,578 patients were treated within their walls, the great majority of these being cases of scarlet fever.

The tables which follow will show in detail a great deal of information relating to all of these cases, but it is of special interest to point out the much greater demands made by the public upon these institutions at the present time than formerly. The advantages of the hospitals are now so fully recognised by the public that the removal to hospital of their sick dependents is insisted upon, and claimed as a right. A few years ago, in cases similarly circumstanced, removal would never have been sought, and would even have been resisted.

The claims resulting from this enlightenment of the public cannot be met without expense, but it would be difficult to point to any example of necessary municipal expenditure in which the direct benefits, alike to the recipients and to the community, are so strongly marked.

The average duration of stay in hospital of patients whose treatment was completed during the year 1907 was as follows:—

Scarlet Fever	Patients	from	 	 8	to	9	weeks
Typhoid			 	 6	,,	7	,,
Typhus			 	 4	,,	5	,,
Diphtheria			 	 5	53	6	,,

In many instances detention in hospital is very prolonged owing to the severity of the original illness, and the consequent slow convalescence of the patient.

Arrangements have been made between the Hospitals Committee and various Local Authorities to receive cases of infectious disease from districts beyond the City boundary, namely, Sefton Rural District, Waterloo and Seaforth, Great Crosby, Little Crosby, Allerton, Childwall, and the Children's Convalescent Home, West Kirby. Applications have also been made by the Councils of Formby and Litherland requesting the Liverpool Corporation to receive cases of infectious disease, and a request has also been received from the Bootle Corporation in regard to cases of smallpox, but no definite arrangement has yet been come to.

Special cases have been received from several other districts during the course of the year, but no permanent agreement was arranged, and application was made in connection with each particular patient.

Arrangements have also been made to deal with any case of cholera, yellow fever, or plague which may arise in any of the neighbouring urban or rural districts. A suitable charge is made in each case.

In addition to the foregoing, the disinfection of bedding and clothing is also undertaken for the Sefton Rural District Council.

Steps have been taken by the Committee to render the training of probationer nurses more efficient. Probationers are received at some, but not all, of the city hospitals, and under the arrangements now arrived at, the system, which will include lectures, as well as practical and clinical instruction, will render the course of training a very full and complete one.

On the recommendation of the Health Committee, a scheme, approved by the Port Sanitary and Hospitals Committee, was adopted by the Council in September, by which 24 beds at the City Hospital, Fazakerley, were to be devoted to the treatment and experimental study of cases of Tuberculosis. The structural completeness of this Hospital, the climatic and soil conditions obtaining, together with the exceptional facilities for laboratory work, appeared to render the Institution at Fazakerley particularly suited to this undertaking. A Medical Officer with experience in opsonic work and its application to the treatment of disease was appointed to assist in the investigation of this branch of the work. The short period which has elapsed since the inauguration of this scheme does not permit an exact statement as to the results which are likely to be obtained. One cannot fail, however, to be impressed by the very rapid improvement which has taken place in the condition of the majority of the patients who have had the advantage of this treatment. Evidence is not yet available to show how far the disease has been permanently arrested in those patients who have been discharged from Hospital. system has, however, been adopted by which these patients shall present themselves at regular intervals for examination. It is further anticipated that visits to the house of recovered patients by Inspectors of the Health Department may result in a continued observance of those hygienic methods which the patients have acquired in Hospital. (See page 56.)

INFECTIOUS DISEASE.

The following table shows the number and nature of cases of Infectious Disease coming under the notice of the Medical Officer of Health during the year 1907, including those reported under the Notification Act.

		FEVI	ER.			d.				ver.		
Year—1907.	Typhus.	Typhoid.	Simple.	Relapsing.	Smallpox.	Scarlet Fever.	Measles.	Diphtheria.	Membranous Croup.	Puerperal Fever.	Erysipelas.	Total.
January	16	43	1		7	257	471	85	3	10	89	989
February	4	28			1	215	403	59	2	5	80	797
March	6	43	1			181	691	64	1	5	78	1,070
April	5	36			7	226	618	48		4	59	1,00
May	16	32			1	232	1,024	68	3	9	60	1,44
June	16	39				217	872	75		9	66	1,29
July	22	28			1	175	100	67	5	3	42	44
August	6	35		1		198	76	59	1	1	67	44
September	13	31	1			308	154	69	1	1	55	63
October	9	46	1			243	310	69	1	8	50	73
November	3	65			1	265	480	153	2	3	88	1,06
December		56	1		1	224	441	93	1	5	56	87
TOTAL	116	482	5	1	19	2,741	5,640	909	20	58	790	10,78
Removed to hospita!	116	373	4		19	2,144	342	627	4	33	188	3,85

The number of patients removed to hospital includes those taken to general hospitals as well as those taken to the City Hospitals. (See page 134.)

THE INFECTIOUS DISEASE (NOTIFICATION) ACT

The number of notifications received by the Medical Officer under the above Act, during the past five years, were as follows:—

1903. 1904. 1905. 1906. 1907.

	1903.	1	1904.		1905.		1906.		1907.
January	1,288		576		632		803		527
February	1,115		624		592		583		403
March	1,221		573		712		634		381
April	1,072		556		633		410		412
May	1,128		609		827		365		454
June	1,082		679		862		409		437
July	940		491		643		335		352
August	632		487		606		368		391
September	743		629		810		475		476
October	884		839		1,068		674		476
November	691		846		1,101		655		593
December	561		704		938		550		472
	11,357	7	,613		9,424	(6,261	į	5,374
The diseases were	a appointed	an fol	llawa.	_					
The diseases wer	e specined a 1903.		1904.		1905.		1906.		1907.
Smallpox	1,548		27		11		110		25
*Chickenpox	2,631		1,792		2,254		636		20
Scarlet Fever	4,110		2,995		4,299		2,765		2,727
Typhoid Fever			496		378		510		546
Typhus Fever			82		84		46		91
Continued Fev			36		19		29		16
Remittent Fev			1		_		2		_
Relapsing Fev			1		2		1		2
Fever	- 0		2		2		1		1
Puerperal Fev			67		79		116		69
Diphtheria					1,021				970
Membranous (48				37
Erysipelas									847
‡Anthrax					2				15
†Cerebro Spinal					-		-		28
		_						_	
	11,357	7	,613		9,424	6	,261	£	5,374
	dr.	Not n	ow not	ifiabl	0	_			

^{*} Not now notifiable.

† Scheduled as a notifiable disease for 6 months, from March, 1907.

‡ Scheduled as a notifiable disease for 3 years, from June, 1907.

NUMBER OF CASES REPORTED AND NUMBER REMOVED TO HOSPITALS, 1889-1907.

	SMAI	SMALLPOX.	SCARLE	SCARLET FEVER.	Турногр.	TOID.	TYPHUS.	HUS.	MEA	MEASLES.
	Number Reported.	Number Removed.								
889	- 6	00	1,832	533	670	302	158	124	3.175	104
1890	2	67	3,520	938	506	596	103	87	4,013	152
1891	21	21	1,176	448	588	350	175	156	2,262	160
1892	177	177	1,554	603	669	345	73	1.0	3.376	150
1893		73	3,538	1,380	1,396	728	183	168	2,316	94
1894	229	526	3,963	1,415	1,350	745	325	312	2,494	122
1895 .	130	127	2,710	1,039	1,306	662	162	158	3,462	93
1896	œ	00	3,584	1,589	1,063	539	305	298	2,930	138
1897	9	9	3,001	1,641	991	559	158	156	4,389	94
:	17	16	2,424	1.467	863	585	92	84	2,458	105
	10	10	2,416	1,537	988	899	70	64	5.107	140
1900	_	154	1,968	1,198	731	450	42	41	2.372	108
1901	27	37	3,310	1,814	864	567	55	54	6.766	185
206	260	559	5,914	2,994	1,026	670	155	155	7.141	177
806	1,720	1,719	4,053	2,145	681	462	272	- 266	2,728	114
904	27	27	2,988	2,214	434	596	97	26	9,453	428
305		14	4,308	3,147	325	235	86	95	3,938	399
	19	19	2,959	2,191	491	360	52	49	6.819	389
706	- 19	19	2,741	2,144	482	373	116	116	5,640	342

The following tables, prepared by the Medical Staff of each Hospital, show the number of patients, the nature of the illness, and the results, at each of the six City Hospitals during the year 1907.

CITY HOSPITAL NORTH, NETHERFIELD ROAD.

Visiting Physician, Dr. R. I. RICHARDSON.
Resident Physician, Dr. B. T. J. GLOVER.

Diseases.	Remaining Dec. 31st, 1906.	Admitted during the year.	Transferred from other City Hospitals.	Treatment during the year.	Transferred to Convalescent Hospital.	Transferred to other City Hospitals.	Discharged Cured.	Remaining at end of year.	Died within 48 hours of Admission.	Total Deaths.	Total Mortality per cent. of Admissions.
Scarlet Fever.	64	470	_	534	129		302	64	3	39	8.3
Enteric Fever.	16	149		165	_	_	102	29	1	34	22.8
Typhus Fever.	14	108	-	122	-	_	103		3	19	17.6
Diphtheria	_	1		1		-	1	-	_	_	_
Other Diseases		58	-	58	-	_	46	-		12	20.7
Isolation and Observation Cases	6	19	_	25	_	_	15	10		_	_
Totals	100	805	_	905	129	_	569	103	7	104	12.9

SCARLET FEVER.

				Age 1	Periods.			
	Under 5	5—10	10—20	20-30	30—40	40-50	50 upwards.	Total
No. of Cases	168	204	77	13	7	1		470
No. of Deaths	30	9		-	_	-	_	39
Percentage of Deaths	17.8	4.4	_	_	-	_	_	8.3

ENTERIC FEVER.

				AGE 1	Periods			
	Under 5	5—10	10-20	20-30	30-40	40—50	50 upwards.	Total.
No. of Cases	9	25	50	29	26	- 8	2	149
No. of Deaths	1	3	6	10	10	3	1	34
Percentage of Deaths	11.1	12 0	12.0	34.4	38.4	37.5	50.0	22.8

TYPHUS FEVER.

				AGE I	PERIODS			
	Under 5	5—10	10-20	20-30	30—40	40-50	50 upwards.	Total
No. of Cases	8	14	42	16	17	7	4	108
No. of Deaths		-	3	3	7	4	2	19
Percentage of Deaths	_	_	7.1	18.7	41.1	57.1	50.0	17.6

DIPHTHERIA.

				AGE I	Periods.			
	Under 5	5—10	10—20	20-30	30—40	40-50	50 upwards.	Total
No. of Cases	1	_	_	_	-	_	_	1
No. of Deaths		_	_	_	_	-	_	_

OTHER DISEASES.

Disease.	Admitted.		Died.
Pneumonia	34		- 5
Broncho Pneumonia	8		1
Cerebro-Spinal Fever	7		3
Tubercular Meningitis	4		2
Measles	1		_
Diphtheria	1		_
Exfol. Dermatitis	1		
Gonorhoea	1		
Typhus Contacts	14		_
Malaria	1		1
	72		12
	-		
		Mortalit	y=16.6%.

CITY HOSPITAL SOUTH, GRAFTON STREET.

Visiting Physician, Dr. N. E. ROBERTS.

Resident Physician, Dr. H. L. HAMILTON.

Diseases.	Remaining Dec. 31st, 1906.	Admitted during the year.	Transferred from other lity Hospitals.	Total under Treatment during the year.	Transferred Convalescent Hospital.	Pransferred of other City Hospitals.	Discharged Cured.	Remaining at end of year.	Died within 48 hours of Admission.	Total Deaths.	Fotal Mortality per cent, of Admissions
	De		775	T dur	T to C	T to		at	O 4 4	To	Tot
Scarlet Fever	50	330	_	380	81	_	281	50	2	18	5.45
Enteric Fever	13	92	1	106	_	_	69	29	1	8	8.69
Typhus Fever	_	9		9			_9_	_	_	_	_
Diphtheria		2	_	2			2	_	_	_	_
Measles		4	_	4	_	2	1	_		1	25.00
Other Diseases	2	37		39	-		86*		_	8	8.10
Isolation & Observation Cases	_	9	_	9	-	_	9	-	_	_	
Totals	65	483	1	549	81	2	357	79	3	30	6.21

^{*} Of this class, 4 were removed to General Hospitals.

One case of Scarlet Fever was admitted suffering from advanced Anæmia and died within 24 hours.

248 SCARLET FEVER.

		Age Periods.										
	Under 5	5—10	10-20	20-30	30—40	40-50	50 upwards	Total.				
No. of Cases	157	117	43	10	3	_		330				
No. of Deaths	9	8	1		-	-		18				
Percentage of Deaths	5.73	6.83	2.32			1	_	5.45				

ENTERIC FEVER.

	. Age Period .											
	Under 5	5—10	10-20	20-30	30—40	40—50	50 up- wards.	Total				
No. of Cases	5	16	23	28	12	6	2	92				
No. of Deaths	_	-	2	4	2		-	8				
Percentage of Deaths	_	_	8.69	14.28	16.6	_	_	8.69				

TYPHUS FEVER.

	Age Periods.										
	Under 5	5-10	10-20	20-30	30-40	40-50	50 upwards.	Total.			
No. of Cases	1	2	2	2	2	_	_	9			
No. of Deaths	_				_	-	_	_			

DIPHTHERIA.

	Age Periods.											
	Under 5	5-10	10-20	20-30	30—40	40—50	50 up- wards.	Total				
No. of Cases	1	_		1	_	_	_	2				
No. of Deaths	-	_		-	_	_	_	-				

OTHER DISEASES.

Disease.	Admitte	d.	Died.
Bronchitis	1		-
Broncho Pneumonia	6		-
Cerebral Disease	1		
Cerebro Spinal-Meningitis	1		1
Constipation	1		
Endocarditis	1		-
Erysipelatous Inflammation of leg	1		
Gastritis	1		
Malaise	9		-
Meningitis	1		1
Meningitis and Pneumonia	1		1
Pneumonia	8		
Pneumonia and Empyæma	1		
Pneumonia and Pleurisy	1		_
Pneumonia and Varicella	1		
Tubercular Disease of Chest	1		-
	36		3
	_		tv=8·3 %

CITY HOSPITAL, PARK HILL.

Visiting Physician, Dr. N. E. ROBERTS. Resident Physician, Dr. De COURCY.

Diseases.	Remaining Dec. 31st, 1906.	Admitted during the year.	Transferred from other City Hospitals	Total under Treat- ment during the year.	Transferred to other City Hospitals	Discharged Cured.	Remaining at end of year.	Died within 48 hours of Admission.	Total Deaths.	Total Mortality per cent. of Admissions
Scarlet Fever	165	505	45	715	48	542	93	2	32*	5.8
Enteric Fever	-	2	-	2	1	1		_	-	-
Diphtheria	9	154	_	163	_	123	14	17	26†	16.2
Measles	31	134	1	166	_	136	17	1	13‡	8.9
Other Diseases	_	27	_	27	1	11	3	1	12	44.4
Isolation and Observation Cases	_	14	-	14	_	12	2		-	_
Totals	205	836	46	1087	50	825	129	21	83	9.5

^{*} One death occurred amongst the cases brought over from 1906; and one death in transferred cases.

SCARLET FEVER.

	Age Periods.									
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total		
No. of cases	208	237	83	13	6	2	. 1	550		
No. of deaths	23	5	2	1	-	_	_	31		
Percentage of deaths	_	_	_	_	_	_	-	5.6		

^{*} This does not include the death brought forward from 1906.

[†] One death occurred in the cases brought over from 1906. ‡ This includes a case transferred from another City Hospital.

DIPHTHERIA.

	Age Periods.										
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total			
No. of cases	61	59	18	10	2	3	1	154			
No. of deaths	15	8	2	-	-	-	-	25			
Percentage of deaths	-	_	_	_		_	_	16.2			

This does not include the death amongst those brought forward from 1906.

OTHER DISEASES,

Disease	Admitted	Died
Tonsillitis	5	 _
Infective Endocarditis	1	 1
Pneumonia	2	 2
Urticaria	2	 -
Enteric	2	 _
Laryngismus Stridulus	1	 1
Nephritis	1	 1
Broncho Pneumonia	1	 1
Marasmus	4	 3
Phthisis	2	 _
Tubercular Meningitis	1	 1
Chicken Pox	2	 _
Heart Disease	1	 _
Scald (before admission)	1	 1
Cellulitis of Neck	1	 1
Measles	134	 12
	161	24
	=	Mortality —14.9%.

CITY HOSPITAL EAST, MILL LANE.

Visiting Physician, Dr. H. A. CLARKE.

Resident Physician, Dr. A. E. HODGSON.

Diseases.	Remaining Dec. 31st, 1906.	Admitted during the year.	Transferred from other City Hospitals.	Treatment during the year.	Transferred to Convalescent Hospital.	Transferred to other City Hospitals.	Discharged Cured.	Remaining at end of year.	Died within 48 hours of Admission.	Total Deaths.	Total Mortality per cent. of Admissions.
Scarlet Fever	40	345	_	385	-	6	304	56	1	18	5.2
Enteric Fever	-	1	-	1	-	-	1	-	-	-	
Diphtheria	28	248	-	276	-	-	219	21	8	28	11.2
Measles	_	51	-	51	-	_	39	1	1	10	19.5
Other Diseases.	_	55	-	55	-		49	2	_	4	7.2
Isolation and Observation Cases	_	10	-	10	_	_	10	_	_	_	_
Totals	68	710	_	778	_	6	622	80	10	60	8.4

SCARLET FEVER.

	Age Periods										
	Under5	5-10	10—20	20-30	30—40	40-50	50 upwards.	Total.			
No. of Cases	115	123	61	26	14	6	_	345			
No. of Deaths	14	4	_	-	-	_	_	18			
Percentage of deaths	12.1	3.2	_		_	_		5.2			

DIPHTHERIA.

	Age Periods.									
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total		
No. of Cases	71	72	71	22	6	5	1	248		
No. of Deaths	18	10	_	_	_	_	-	28		
Percentage of Deaths	25:3	13.8	_	_	_	_	-	11.2		

MEASLES.

	Age Periods.									
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards.	Total		
No. of Cases	24	19	5	3	-	_		51		
No. of Deaths	10		-	-		_		10		
Percentage of Deaths	41.5							19.5		

OTHER DISEASES.

Disease.	Admitte	d.	Died.	
*Tonsillitis	42			
Isolation and Observation	10		-	
Septicæmia	5		3	
Cerebral Abscess	1		1	
Laryngitis and Erythema Nodosum	1		_	
Croupous Pneumonia	1		-	
Varicella	1		-	
Pertussis	1		_	
Influenza	1		_	
Drug Eruption	1		-	
Syphilis	1		-	
	_		_	
	65		4	
		Mortality	= 6.1 %.	

^{*}This class is composed of the cases which, sent in to Hospital as "Diphtheria," proved "Negative" on Bacteriological Examination.

CITY HOSPITAL, FAZAKERLEY.

Medical Superintendent, Dr. C. RUNDLE.

Assistant Medical Officer, Dr. H. E. WILLIAMS.

Diseases.	Remaining Dec. 31st., 1906.	Admitted during the year.	Transferred from other City Hospitals	Total under Treatment during the year.	Transferred to other City Hospitals	Discharged Cured	Remaining at end of year	Died within 48 hours of Admission	Total Deaths	Total Mortality per cent. of Admissions.	
Scarlet Fever	145	525	213	883	39	700	129	3	15*	2.8	
Enteric Fever	3	5		8		4	3	-	1	20	
Puerperal Fever	-	12	-	12	_	9	2	_	1	8.33	
Diphtheria	29	142	-	171	9	118	37	-2	7	4.9	
Phthisis		36	-	36	-	9	26	-	1	2.7	
Measles	1	124	1	126	11	78	30	_	7	5.6	
Other Diseases	2	103	7	112	2	62	16	8	32	31.00	
Infantile Diarrhœa	-	52	_	52	-	39	3	3	10	19.2	
Isolation and Observation Cases	_	9	1	10	2	8	_	_	-		
Erysipelas		70	-	70	_	64	2	-	4	5.7	
Totals	180	1078	222	1480	63	1091	248	16	78	7.2	

^{*}One of these deaths was a patient transferred from another City Hospital.

SCARLET FEVER.

	Age Periods.									
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total		
No. of Cases	182	217	108	12	6	_	_	525		
No. of Deaths	12	1	1	-	-	_	_	14		
Percentage of Deaths	6.59	.46	.92	-		_	-	2.66		

ENTERIC FEVER.

	Age Periods.									
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total		
No. of Cases	_	_	2	2	1	_	_	5		
No. of Deaths	_		_	1	-	-	_	1		
Percentage of Deaths	_			50	-	_	-	20		

DIPHTHERIA.

		AGE PERIODS.								
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total		
No. of Cases	41	60	29	5	5	2	_	142		
No. of Deaths	2	4	1	-		-	_	7		
Percentage of Deaths	4.8	6.6	3.4				_	4.9		

OTHER DISEASES.

	Admitted.	Died.		Admitted.	Died.
Acute Tonsillitis		-	Varicella	6	1
Ulcerative Tonsillitis	1	1	Ophthalmia	3	_
Vincent's Disease	1	1	Furunculosis	1	_
Acute Bronchitis	3		Erythema	1	-
Cerebro Spinal-Meningitis.	1	1	Foreign body in Trachea	1	1
,, Fever		1	Stomatitis		
Influenza			Gastro-Enteritis		1
Delirium Tremens		100	Suppurative Tonsillitis		_
Infantile Hemiplegia		1	Pericarditis		1
Lobar Pneumonia	. 6	3	Acute Dyspeptic Diarrhoa		1
Broncho Pneumonia		2	Abscess of Lung and Liver		1
Infantile Convulsions		ĩ	Debility		
Meningitis		3	Cretinism		1
Acute Miliary Tuberculosis		2	Appendicitis		1
Tetanus		1	Tubercular Adenitis		1
Morbus Cordis		1			1
		7	Whooping-Cough Varicella		-
Acute Pulmonary Tuber			Cancrum Oris		
culosis		-	Acute Nephritis		1
Tubercular Meningitis	. 1	1	Chronic Nephritis		1
Whooping-Cough	. 6	3	Burns	1	_
Syphilis	. 3	-	General Tuberculosis	2	2
Rheumatism	. 1	-			
Constipation	1			103	33
Mort	ality		32.03 %.		

CITY HOSPITAL, FAZAKERLEY ANNEXE.

Medical Superintendent, Dr. C. RUNDLE.

Diseases.	Remaining Dec. 31st, 1906.	Admitted during the year.	Transferred from other City Hospitals.	Treatment dur- ing the year.	Transferred to Convalescent Hospital.	Transferred to other City Hospitals.	Discharged Cured.	Remaining at end of year.	Died within 48 hours of Admission.	Total Deaths.	Total Mortality per cent. of Admissions.
Scarlet Fever	_	6	95	101	_	_	33	68	_	_	_
Diphtheria	_	_	9	9	-	-	-	9	-	_	-
Smallpox	-	16		16			16		-	_	
Measles	-	3	4	7		-	7	-		-	-
Other Diseases.	3	44	9	56	-	6	43	6	-	1	2.2
Isolation and Observation Cases	_	44	2	46	_		27	19			
Totals	3	113	119	235	_	6	126	102	_	1	-88

SCARLET FEVER.

				AGE 1	Periods.			
	Under 5	510	10-20	20-30	30—40	40-50	50 upwards.	Total
No. of Cases,	5	1	_			-	-	6
No. of Deaths	_			_		-	_	

SMALL POX.

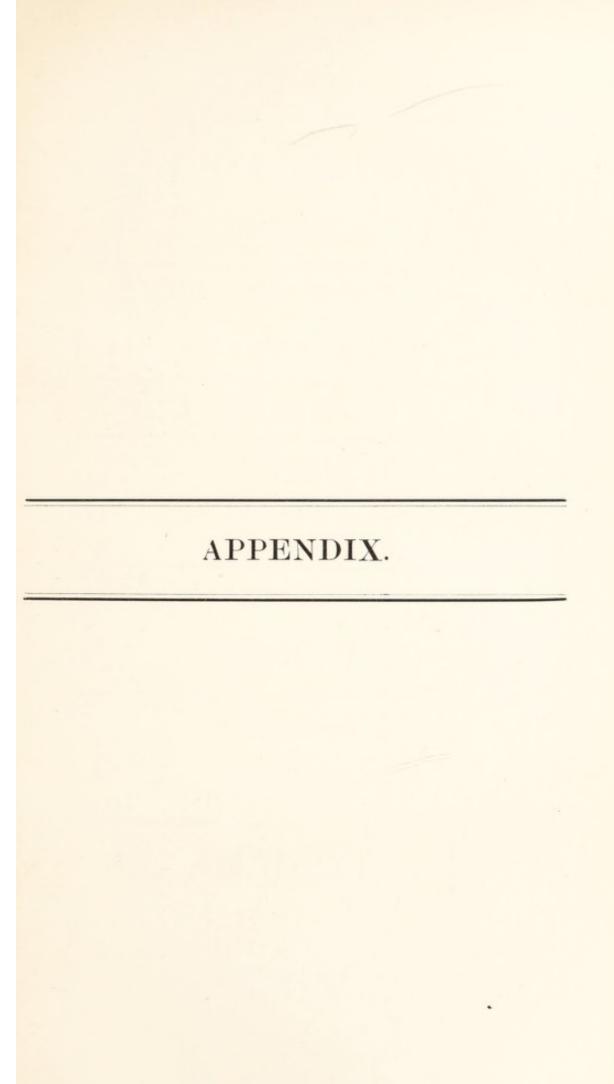
	Age Periods.								
	Under 5	5-10	10-20	20-30	30-40	40-50	50 up- wards	Total	
No. of Cases	3	_	8	2	4	_	4	16	
No. of Deaths	-		-	-	-	-	-	-	

257

OTHER DISEASES.

Disease.	Admitted.	Died.
Varicella	- 33	_
Impetigo	2	_
Syphilis	1	_
Urticaria	1	_
Varicella and Whooping Cough	2	-
Whooping Cough	1	1
Exfoliative Dermatitis	1	
Erythema	2	-
Vaccinia	1	_
	44	1
Mortality 2	2 %	_







The following tables I, II, III, IV, V, and marked also A, B, C, D, E, are prepared pursuant to an instruction of the Local Government Board.

TABLE I.

										1	A	-			
OES AT	DISTRICT.	*Rate.	13	22.8	55.5	24-1	28-1	21.6	21.6	19.8	21-9	19-2	20.3	21.6	18.3
NETT DEATHS ALL AGES	BELONGING TO DISTRICT.	Number.	12	15117	14853	16276	15785	14879	15396	14240	15886	14131	15061	15162	13722
Deaths of	registered	Institu- tions beyond the District.	П	:	:	ţ-	00	45	4	77	35	28	09	62	46
Deaths of	non- residents	registered in Public Institu- tions in the District.	10	473	527	595	919	618	602	685	673	746	744	627	782
Total Deaths	Drietto	INSTITU- TIONS IN THE DIS-	- 6	3604	3812	4278	4257	4231	4564	4549	4587	4908	4985	4877	4984
RED	ages.	Rate.*	8	23.5	23.0	25.0	24.0	22.5	22.5	20.7	8-55	20.5	21.3	22.5	19-3
TOTAL DEATHS REGISTERED IN THE DISTRICT.	At all ages.	Number.	7	15590	15380	16861	16393	15493	15994	14848	16524	14849	15745	15767	14408
L DEATHS IN THE I	ar of age.	Rate per 1000 Births regist'd.	9	201	184	199	186	188	162	159	1961	154	173	180	145
Torai	Under 1 year of age.	Number.	5	4488	4111	4481	4247	4138	3886	3815	4780	3762	4194	4195	3438
HS.		Rate.*	+	33.6	88-2	33.3	33.4	82.0	84-2	33.3	33.5	33-5	32.6	233.2	31-7
BIRTHS.		Number.	. 3	55580	22227	22488	22762	21980	24283	23910	24278	24350	24123	28268	28654
	Population	estimated to Middle of each year.	01	663633	669248	674912	680628	686332	710337	716810	723430	733714	739180	699822	746144
		YEAR.	1	1897	1898	1899	1900	1901	+1902	1908	1904	±1905	1906	Averages for years 1897-1906.	1907

* Rates in Columns 4, 8, and 13 calculated per 1000 of estimated population. + Garston included.
† Fazakeriey included.

Note.—The deaths to be included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public institutions" to be taken into account for the purposes of these Tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses and lunatic asylums.

Area of District in acres (exclusive of area covered by water).

Total population at all ages.......704,134 At Census Number of inhabited houses126,835 of Average number of persons per house5·5 1901.

I. Institutions within the District receiving sick and infirm persons from outside the District.	II. Institutions outside the District receiving sick and infirm persons from the District.	III. Other Institutions, the deaths in which have been distributed among the several localities in the District.
Parish Workhouse, Brownlow Hill. Royal Infirmary. Children's Infirmary. Consumption Hospital. Eye and Ear Infirmary. David Lewis Northern Hospital. Stanley Hospital. Royal Southern Hospital. Mill Road Infirmary. Hospital for Women. City Hospital North, ,,, South. ,, Parkhill. ,, East. ,, Fazakerley. Walton Workhouse. Belmont Road Workhouse. Toxteth Workhouse. Highfield Infirmary. Turner Memorial Home. St. Augustine's Home. Kirkdale Home. House of Providence. St. Joseph's Home. Home for Incurables. Tuebrook Villa Asylum. Nursing Homes.	County Asylums,	Hahnemann Hospital. Epileptic Hospital. Leyfield Poor Law Schools. Grove Mount Home. Branch Workhouse, Luton Street. Cottage Homes, Fazakerley. Children's Rest. Claremont Home. Walton Gaol. Skin Diseases Hospital. Accident Hospital, Garston. Samaritan Hospital. St. Paul's Eye and Ear Hospital St. Elizabeth's Schools.

				D		
	rict.	Deaths under I year.	d.	902 807 880 846 819 781 768 705 897	830	648
	District.	Deaths at all Ages.		2875 2729 3143 2896 2902 2735 2656 2947 2471	2812	2449
	4.—Everton	Births regis- tered.	ъ.	4304 4304 4328 4442 4216 4627 4627 4444 4413 4413	4897	4307
	4.—E	Population esti- mated to middle of each year,		116584 117647 118940 120904 121958 122964 123521 123540 123540	121369	123952
	District.	Deaths under I year.	Ġ.	233 245 229 252 245 220 220 221 220	228	191
		Deaths at all Ages.		1216 1242 1258 1303 1099 1155 1141 1065 1088	1151	929
	Abercromby	Births regis- tered.	р.	1711 1695 1695 1683 1565 1757 1718 1652 1716	1673	1709
	3. Abe	Population esti- mated to middle of each Year.	a.	53564 53256 52950 52645 52801 52004 51142 51149 50855	52191	50562
H	District.	Deaths under I year,	d.	348 316 347 285 298 298 297 369 369	315	295
TABLE		Deaths at all Ages.	· · ·	1495 1557 1634 1549 1299 1244 1456 1311 1304	1428	1278
TA	Exchange	Births regis- tered.	9.	1881 1810 1278 1832 1180 1216 1230 1275 1234	1266	1176
	2.—Ex	Population esti- mated to middle of each Year.	a.	44065 48505 42951 42405 41831 41332 41332 41780 41674	42249	41168
	ict.	Deaths under I year.	d.	475 460 509 521 455 492 489 577 493 577	499	428
	Distr	Deaths at all Ages.	Ö	1711 1825 1865 1830 1694 1745 1778 1732 1661 1663	1727	1466
	otland	Births regis- tered.	р.	2122 2111 2125 2125 2166 2044 2225 2225 2287 2287 2170	2160	2098
	1.—Scotland District.	Population esti- mated to middle of each Year.	a.	58264 58192 58191 58049 52934 52876 52876 52884 52692 52692	52934	52549
	NAMES OF LOCALITIES.	YEAR.		1897. 1898. 1899. 1900. 1902. 1904. 1905.	Averages of Years 1897. to 1906.	1907

Note.-Population of each district corrected as per Census Returns of 1891 and 1901.

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	I year.					
	Deaths under	d.	712 626 711 681	680 578 685 685 685 614	189	487
District.	Deaths at all Ages.	С.	2456 2308 . 2678 . 2496	2043 2141 2380 1985 2299	2846	1954
7.—Toxteth	Births regis-	ъ.	3527 3493 3545 3429	3525 3405 3586 3436 3415	3486	8828
7.	Population esti- mated to middle of each year.	a.	106325 106396 106393 106393	105636 105636 105532 105399 105290 105162	105852	105088
District.	Deaths under I Year.	d.	557 538 566 507	525 450 526 410 430	867	376
£	Deaths at all Ages.		1827 1783 1841 1836	1729 1640 1712 1712 1566 1657	1732	1520
Derby	Births regis- tered.	9.	3040 3086 3086 3019	2986 2996 2992 2891 2853	2979	2758
6West	Population esti- mated to middle of each year.	a.	82434 83670 84907 85924	88295 88295 89111 89689 90081	86874	90184
i.	Deaths under I Year.	d.	457 408 434 470	44.8 40.2 33.8 40.5 37.8	426	357
Distric	Deaths at all Ages.	.0	1509 1368 1578 1552	1494 1801 1573 1881 1873	1456	1815
5.—Kirkdale	Births regis-	6.	2423 2377 2361 2408	2396 2352 2468 2824 2323	2372	2278
5.	Population esti- mated to middle of each year.	а.	68144 68472 68801 69132	69798 69984 70271 70310 70450	22477	70492
NAMES OF LOCALITIES.	YEAR.		1897 1898 1900	1902 1908 1904 1906	Averages of) Years 1897 to 1906.	1907

Note.—Population of each district corrected as per Census Returns of 1891 and 1901.

istrict al).	Deaths under I year.	d.	91	73	6 89	74	38	99	35	200	20	75	51
ark Di h Rur	Deaths at all Ages.	С.	336	924	315	364	897	596	389	274	28	356	341
.—Sefton Park Distr (late Toxteth Rural).	Births regis- tered.	р.	641	649	598	614	808	630	664	654	080	889	899
11.—Sefton Park District (late Toxteth Rural).	Population esti- mated to middle of each year.	a,	26367	27336	20040	30436	81579	32489	33441	34530	81000	30897	87219
trict.	Deaths under 1 year,	d.	11	16	112	147	118	116	151	124	140	119	66
se Dis	Deaths at all Ages.	0.	259	297	386	411	899	414	486	453	400 000 000 000	397	398
vertre	Births regis- tered.	р.	451	588	850	888	596	980	266	1101	1101	828	994
10Wavertree District.	Population esti- mated to middle of each year.	a.	20138	21402	22/46	. 25670	27304	29018	30840	82774	34832	56889	36018
(East) 10.	Deaths under L year.	d.	180	189	155	192	146	177	216	169	12	175	159
	Deaths at all Ages.		677	£89	749	768	721	718	791	749	875	742	15
West Derby District.	-siger satrifd bered.	è.	166	1024	1911	1162	1805	1426	1479	1508	1491	1257	1536
9West D	Population esti- mated to middle of each Year.	a.	40914	41677	42454	44016	44872	45736	46568	47428	48112	44502	49212
ict.	Deaths under 1 year.	d.	230	200	27.2	270	250	258	298	218	24	245	218
Distri	Deaths at all Ages.	С.	756	736	00.00	824	887	815	986	870	306	820	895
Walton District.	Births regis- tered.	р.	1552	1639	1754	1742	1897	1912	1898	2075	1971	1812	2014
8. W	Population esti- mated to middle of each Year.	a.	48728	50230	58876	54977	56379	58032	59501	61127	62043	55617	63017
NAMES OF LOCALITIES.	YEAR.		1897	1898	1900	1901	1902	1908	1904	1905	1906	Averages of Years 1897 to 1906.	1907

Note.—Population of each district corrected as per Census Returns of 1891 and 1901.

Names of Localities.	12	-Garston	District.	
Year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 Year.
	a.	b.	c.	d.
1897	15733 16133 16544 16966 17398 17842 18295 18762 19739 20530	494 485 530 544 562 641 657 676 716 710	247 280 268 268 340 277 290 369 299 339	82 91 92 91 104 69 79 124 84 94
Averages of Years 1897 to 1906	17794	601	297	91
1907	22570	690	367	145
Names of Localities.	13.—	Fazakerle	y District.	
Year,	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 Year.
	a.	b.	c.	d.
1897—1899 1900 1901 1902 1903 1904 1905 1906	Statistics 1753 1887 2085 2919 3292 3571 3856	not avail 36 39 63 85 100 118 120	able 14 14 24 34 33 53 40	4 5 4 11 13 10 12
Averages of Years 1900 to 1906	2766	80	30	8
1907	4168	103	41	4

Note.—Population corrected as per Census Returns of 1891 and 1901.

 ${\bf TABLE\quad III.}$ Cases of Infectious Disease notified during the Year 1907.

	CASE	s Nor	IFTED	IN WH	юля І	DISTRI	CT.			T	OTAL (CASES	NOTIF	TED I	N EAC	H Loc	ALITY				officeus s and h.	nen, åc., ch the		No	OF C	ANES II	EMOV	ED TO	Hospi	ITAL F	non E/	LCH L	OCALI	ry.		itutions ses and day.	amen, de.,
NOTIFIABLE DISEASE.	At all Ages.	Under			-Year 15 to 25.		65 and up- wards.	Scotland.	Exchange.	Aberoromby.	Everton.	Kirkolafe.	West Derby (West).	Texteth,	Walton	West Derby (East).	Waverires.	Setton Park date Texteth Rurah.	Garston,	Farakerley.	Public Institu (Workhouses Hospitals	Emigrants, Sear passing thron City.	Scotland.	Exchange.	Abereronilg.	Everton	Kirkelale	West Derby (West).	Toxteth.	Walton,	West Deeby (East).	Waterires.	Serion Park date Toxteth Rural).	Garaton.	Fazakerley.	Public Institutions (Workhouses and Hospitals).	Emigrants, Se passing thr City
							İ			(w)	(II) (W)			(H-H)	(w)	(11)		(w)		(H)	Ì																9
Small-pox	19	2	5	1	2	12	***	2		1		143	1		1	***	6				5	3	2		1			1		1		6				3	
Cholera							***																														
Diphtheria	909	23	332	385	99	70		35	47	28	146	69	86	170	149	62	57	30	15	2	7	6	32	39	23	111	52	57	135	74	39	38	8	6	1	6	6
Membranous croup	20	2	16	2			***	4			8	4			8	1						***				4											
Erysipelas	790	18	38	79	105	511	39	121	85	60	121	56	87	94	62	24	21	16	14	4	23	2	8	2	10	7	6	7	12	2	2	4	1	1		4	1
Scarlet fever	2741	63	1228	1260	122	68	***	179	143	139	425	207	892	361	292	100	98	184	135	13	41	13	159	126	114	341	221	301	269	197	78	74	86	118	8	41	13
Typhus fever	116		10	41	27	38	***	46	8	2	37	1		19	1	1	211				1		46	8	2	37	1		19	1	1					1	
Enteric fever	482		24	103	98	197	***	57	28	19	77	47	64	53	36	18	17	15	5	1	9	36	33	14	10	39	21	29	31	15	9	7	7	1		2	30
Relapsing fever	1				1				1														***														
Continued fever	5		1		1	3	***	1	1		1	1				1							1	1		1	1										
Puerperal fever	58				17	41	***	10	3	6	9	3	9	7	6	2	1	1	1							2	1		3	2	1			1			
Plague							+++												***				***														
*Tuberculosis	2230	9	66	233	393	1504	26	477	439	233	353	105	167	257	78	48	11	13	13			41	7	2	4	6	1	2	5	3		5	1				
Totals	7871	117	1717	2163	865	2444	65	992	755	488	1177	558	806	961	623	266	211	209	183	20	86	101	288	192	164	548	304	397	474	295	125	134	103	127	9	59	58

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

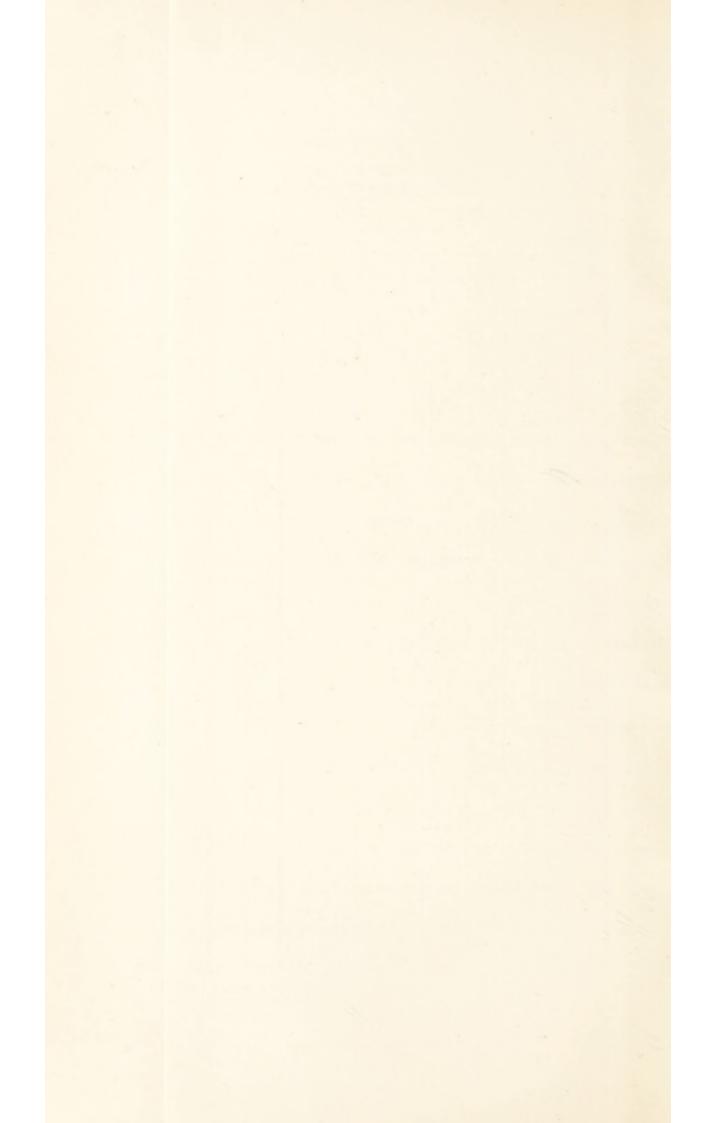


TABLE IV.

Causes of, and ages at, Death during Year 1907.

	DEATH				THE DI	ENTS" W	HETHER		D.	EATHS /	AT ALL A	OCCURE	RESIDE	R BEYON	D THE I	OISTRICT.	ALITIES	, where	I.E. AL		hs who
Causes of Death.	All ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.	Scotland	Ex-	Aber- cromby.	Ever- ton.	2 Kirkdalo	West Derby. (West).	Toxteth.	Walton.	West Derby. (East).	Waver- tree.	Sefton Park.	OGarston.	Fazaker-	Total Deat
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	L
dl-pox																					
sles	286	66	204	16	***	***	***	10	40	***	32	46	32	39	4	6	11	5	19	1	
let fever	132	4	98	33	2	***	***	40 19	46	5 8	22	14	10	22	12		5	3	11	****	
poping-cough	323	130	180	18		***	***				62	55	36	39	15	13	8	6	4		
htheria and membranous croup	107	3	67	38	1		***	57	20	8	12	15	10	17	11	18	5	2	4		
	8		6	2	1765	3	***	9	5	4	12			3	1		2				
Tranhus		***		2	4	11	***	***	***	1	1	***		6							
Typhus	17 80	***	1	10	17	11		5 9	2 3	***	14	8	11	7	7	7	5	2	3		
		***				52	***	70		4			3.5								
Other continued	O.F.	7	1	ï	1	0.0	30		***	***	***	7	7	16	3	4	2	3	***	***	
lemic influenza	65				100.00	36	19	3	1	8	11		500						***	***	
era	***	***	***	*10		***	****	***	***	***	***	***	***	***	***		***	***	***	***	
ue	FOR	017	149	***	***			100	0.5	FO.	101	200	27	110	4.4	30	iii	***	9	1	
rhosa	787	617	97	13	6	8	9	122	85	50	171	69	84	110	44 8	10	3	1	5	77	
eritis	165	***			0	30		9	13	11	45	16	15	29			1	- 27	1000	***	
rperal fever	12	***	***	****	1	11		2	2	1	1	1	8	1	***	1	-	****	***	***	
sipelas	13	10	8	200	4	6 24	6	2 7	3	1	5 14		7	10	****	***	***	2	***	***	
er septic diseases	78	18 7	20	20	162	877	18	00	100	4		8 88			57	79	2	3	4	***	
hisis (Pulmonary Tuberculosis).	1126		145	42	27			92	153	94	202		184	150			33	21	19	4	
er tubercular diseases	389	97		70	11	47	172	40	25 47	26	72	40	63	48	20	12	16	12	13	2	
cer, malignant disease	613	1	117	***	10	429		32 193		53	100	60	74	89	57	40	21	31	9	***	
nchitis	1533	304	388	8	51	576	518		149	114	294	142	159	201	92	92	34	23	39	1	
umonia	1277	268	8	47	2	414	109	158	106	72	243	126	140	182	82	51	37	24	55	1	
irisy	51	1	29	1	3	27	26	31	10	5	8 35	3	9	5	5	5	2	2	2	***	
er diseases of Respiratory organs	185	34		3	0	90			12	14		28	18	19	6	11	5	3	2	1	
holism and Cirrhosis of liver	220	8.0	3	+	1	203	15	20	40	15	39	23	24	29	9	9	5	4	3	***	
ereal diseases	64	56		10	1	4	***	6	9	4	15	5	8	4	5	3	1	***	4	***	
nature birth	454	454	***	***	10	4.1	****	34	25	28	89	61	59	66	34	28	13	7	14	1	
ases and accidents of parturition	51	***		***	10	41	900	5	3	3	9	9	5	11	5	2	2	1	1	***	1
rt diseases	1000	3	75	34	51	602	308	95	105	71	166	92	110	136	70	78	30	29	20	3	
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ther causes	13,722	3384	1918	508	508	4971	2438	1466	1278	929	2449	1315	1520	1954	892	777	393	341	367	41	

*See notes at back

NOTES TO TABLES IV. AND V.

- (a) In Table IV., all deaths of "Residents" occurring in public institutions, whether within or without the district, are to be included with the other deaths in the columns for the several age groups (columns 2-8). They are also, in columns 9-21 to be included among the deaths in their respective "Localities" according to the previous addresses of the deceased as given by the Registrars. Deaths of "Non-residents" occurring in public institutions in the district are in like manner to be excluded from columns 2-8 and 9-21 of Table IV.
- (b) See notes on Table I. as to the meaning of "Residents" and "Non-residents," and as to the "Public Institutions" to be taken into account for the purposes of these Tables. The "Localities" in Table IV. should be the same as those in Tables II. and III.
- (c) All deaths occurring in public institutions situated within the district, whether of "Residents" or of "Non-residents," are, in addition to being dealt with as in note (a), to be entered in the last column of Table IV. The total number in this column should equal the figures for the year in column 9, Table I.
- (d) The total deaths in the several "Localities" in columns 9-21 of Table IV. should equal those for the year in the same localities in Table II., sub-columns c. The total deaths at all ages in column 2 of Table IV. should equal the gross total of columns 9-21 and the figures for the year in column 12 of Table I.
- (e) Under the heading of "Diarrhœa" are to be included deaths registered as due to Epidemic diarrhœa, Epidemic enteritis, Infective enteritis, Zymotic enteritis, Summer diarrhœa, Dysentery and Dysenteric diarrhœa, Choleraic diarrhœa, Cholera and Cholera Nostras.
 - In addition, and as regards deaths of children under one year of age, under the heading "Diarrhœa" in column 3 (Table IV.) are to be included all deaths classified as "Diarrhœal diseases" in Table V.
 - Under the heading of "Enteritis" in Table IV., are to be included only deaths over one year of age registered as due to Enteritis, Muco-enteritis, Gastro-enteritis, Gastric catarrh, Gastritis, and Gastro-intestinal catarrh, unless from information obtained by enquiry from the certifying practitioner or otherwise, the Medical Officer of Health should have reason for including such deaths under the specific term "Diarrhæa." Deaths from diarrhæa secondary to some other well-defined disease should be included under the latter.
- (f) Under the headings of "Cancer" and "Puerperal fever" should be included all registered deaths from causes comprised within these general terms. Thus: Under "Cancer" should be included deaths from Cancer, Carcinoma, Malignant disease, Scirrhus, Epithelioma, Sarcoma, Villous tumour, and Papilloma of bladder, Rodent ulcer. Under "Puerperal Fever" are to be included deaths from Pyæmia, Septicæmia, Sapræmia, Pelvic peritonitis, Peri- and Endo-Metritis occurring in the Puerperium.
- (g) Under "Congenital Defects" in Table V. are to be included deaths from Atelectasis, Icterus neonatorum, Navel hæmorrhage, Malformations and Congenital hydrocephalus.
- (h) Under "Tuberculous Meningitis" are to be included deaths from Acute hydrocephalus.
- (i) Under "Other Tuberculous Diseases" are to be included deaths from Tuberculosis, Tuberculosis of bones, joints and other organs, Lupus and Scrofula.
- (j) All deaths certified by registered Medical Practitioners and all Inquest cases are to be classed as "Certified"; all other deaths are to be regarded as "Uncertified."

TABLE V.

CITY OF LIVERPOOL.

INFANTILE MORTALITY DURING THE YEAR 1907.

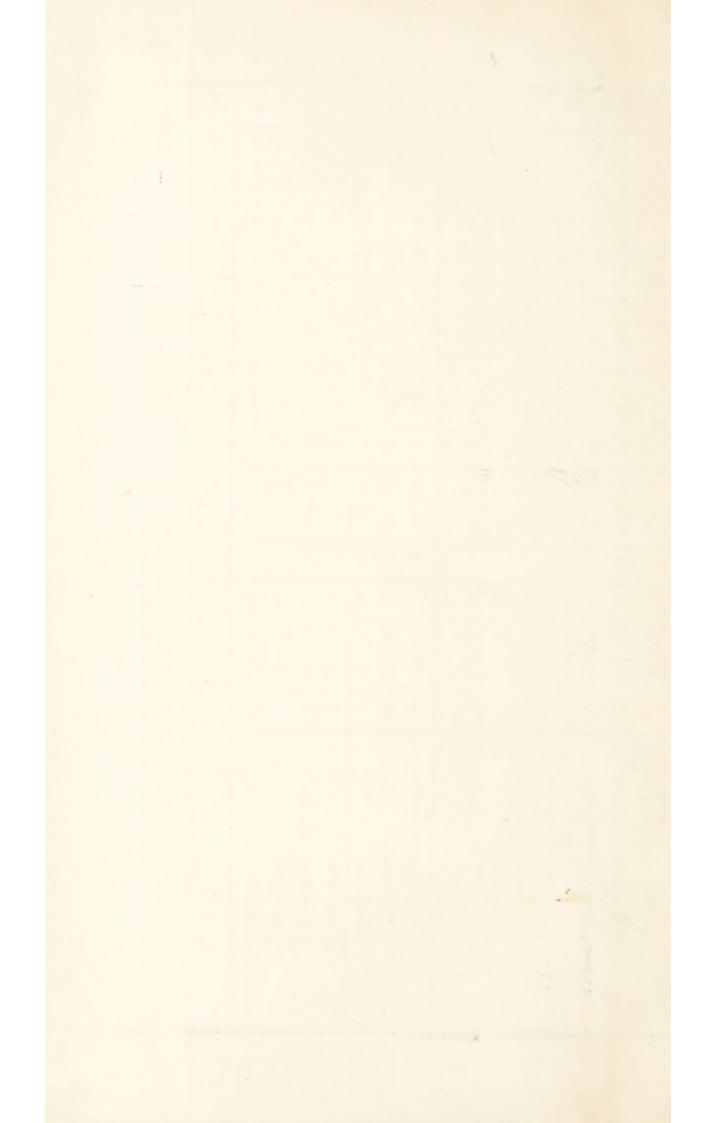
Deaths from stated Causes in weeks and Months under One Year of Age.

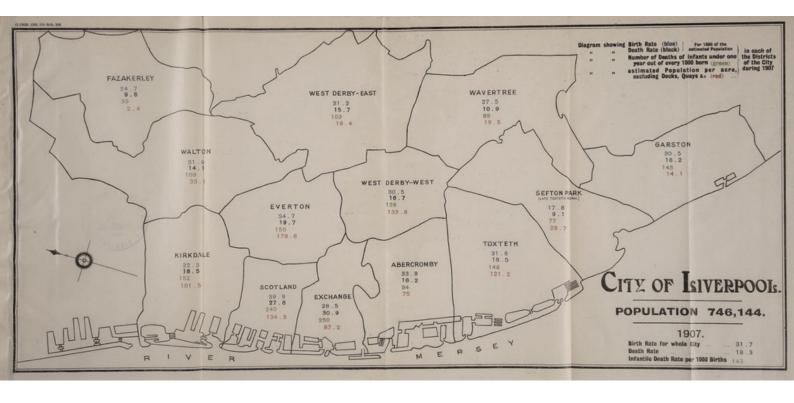
(See Notes at back of Table IV.)

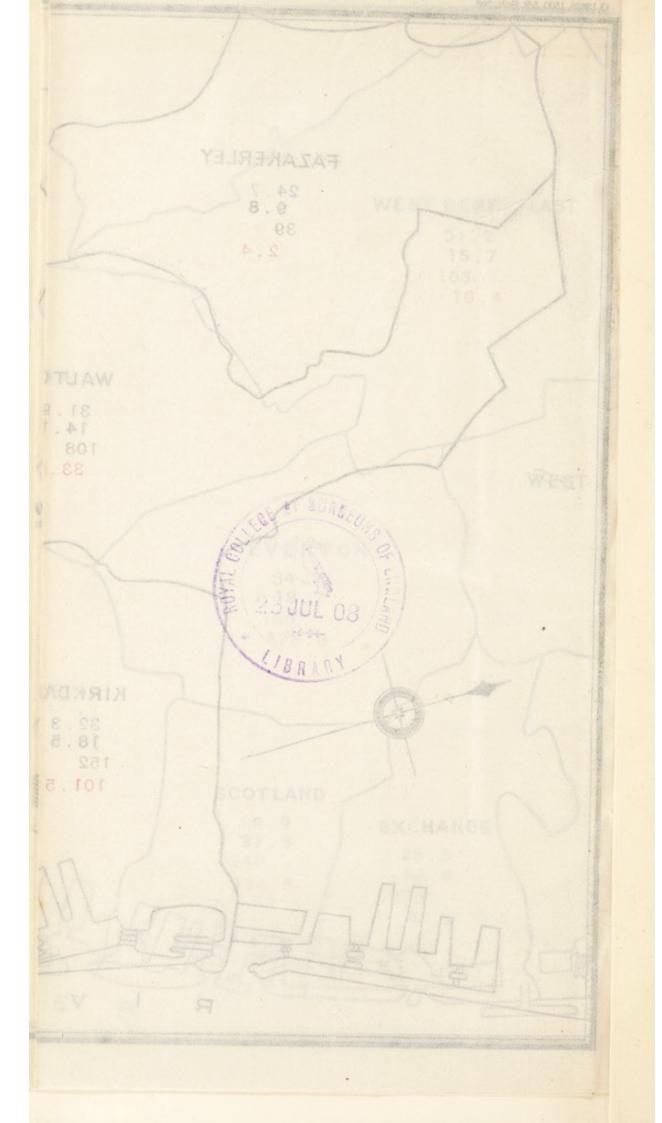
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	11-12 Months.	6 3	1	1	14	1	01	10	25	10	10	-	1	1	1	œ	00	00	10	1	1	01	6.3	+	13	1	00.7	1	12	159
	10-11 Months.	164	1	1	16	03	1	17	30	6	10	H	1	1	1	10	+	01	00	1	1	1	01	10	81	-	30	1	13	166
	sdraoM 01-6	167	1	-	1-	1	1	=	36	9	1-	H	1	1	1	10	-	61	-	1	1	1	=	00	119	1	31	1	21	170
ı	8-9 Months.	9 .1	1	01	=	1	1	12	30	t-	60	I	-	1	-1	1-	60	-	00	1	1	1	00	6	51		101	-	13	159
	7-8 Months.	158	1	1	10	1	1	10	30	15	1-	1	1	1	1	55	9	-	1	1		-	1-	52	61		18	01	14	165
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	2-3 Months.	313	1	1	-	1	1	=	34	77	7	0	60	1	-	78	-	9	-	1	15	1	60	41	37	-	01	14	18	323
	.sdfnolf 2-1	359	1	1	-	1	1	13	20	14	10	90	14	1	1	16	-	01	-	1	15	1	00	62	40	1	119	22	21	373
	Total under I Month.	915	1	1	-	1	1	00	15	=	10	401	80	1	01	174	-1	1	-	1	6.	1	03	132	30	1	57	31	48	986
	3-4 Weeks.	111	1	1	7	1	1	9	10	-	00	10	6	1	1	20	1	1	1	1	01	1	-	20	11	1	4	10	10	116
	2-3 Weeks	156	1	1	1	-	1	03	1-	10	10	28	13	1	-	30	1	1	1	1	10	1	1	26	00	1	+	10	14	165
	1-2 Weeks.	125	1	1	1	1	1	1	0.1	10	1	3.6	=======================================	1	-	29	1	1	1	1	1	1	63	53	10	1	+	00	10	131
	Under I Week.	523	1	1	1	1	1	1	1	-1	-	207	47	1	1	92	1	1	1	1	01	1	1	63	-	1	1	13	24	574
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Population, Estimated to middle of 1907, 746,144. Births in the year 23,654.

Deaths from all Causes at all Ages 13,676







DEATHS REGISTERED IN THE CITY OF LIVERPOOL,

DURING THE YEAR ENDING SATURDAY, 28TH DECEMBER, 1907.

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