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REPORT
ON THE
SANITARY CONDITION

OF THE
County Borough
OF
Birkenhead,

FOR THE YEAR 1908,

BY

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Medical Officer of Health,

School Medical Officer, Physical Superintendent of the Fever and
Smallpox Hospital ; and Ferry Surgeon.

BIRKENHEAD :

WILSON & JONES, PRINTERS AND STATIONERS, 70 ARGYLE STREET.

1909.

HEALTH COMMITTEE
OF THE
BIRKENHEAD TOWN COUNCIL,
1908-1909.

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†*MR. ALDERMAN THOMAS SHAW, DEPUTY-CHAIRMAN.

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AND

HIS WORSHIP THE MAYOR
(JAMES HANNAY MCGAUL, Esq., J.P.)

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*Members of the Health Sub-Committee

†Members of the Hospital Sub-Committee

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OF THE
PUBLIC HEALTH DEPARTMENT,
1908.

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R. SYDNEY MARSDEN, D.Sc., M.B., MAST. SURG., D.P.H., F.I.C.

Borough Analyst.

J. CARTER BELL, ASSOC. ROY. SCH. MINES., F.I.C., F.C.S., &c.

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*WILLIAM DAWSON, ASSOC. SAN. INST.

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Junior Clerks.

*ROBERT BARNES, JOHN OWEN, LESLIE KIRK.

Inspector of Meat, Fish, and Slaughter Houses.

*JOHN M. CARNIE.

District Sanitary Inspectors.

*WILLIAM FITZGERALD. *JOHN LEE. *H. T. TAYLOR.

*W. H. TILSON

Inspector of Workshops and Bakehouses.

*S. H. MOORE.

Inspector of Common Lodging Houses and Houses let in Lodgings.

JOHN JONES.

Disinfecting Inspector.

ISAAC TAYLOR.

Keeper of Disinfecting House.

H. ELLIS.

Disinfecting Labourers.

ROBERT NIELD.

*JOHN JACKMAN.

Those marked thus * have passed the examination of the Sanitary Institute
or the Scottish Sanitary Institute.

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*To the Mayor, Aldermen, and Council of the
County Borough of Birkenhead.*

PUBLIC HEALTH DEPARTMENT,

TOWN HALL, BIRKENHEAD,

14th April, 1909.

GENTLEMEN,

I beg to submit to you my Seventeenth Annual Report to the Health Committee on the Sanitary Condition of Birkenhead, viz., that for the year 1908.

I have the honour to be,

Gentlemen,

Your obedient servant,

R. SYDNEY-MARSDEN,

MEDICAL OFFICER OF HEALTH.

COUNTY BOROUGH OF BIRKENHEAD

DURING 1908.

SHORT SUMMARY.

Area in Acres	3,850, or a little more than 6 square miles.
No. of Houses in the Borough, Dec. 31st	25,923
No. of Houses Uninhabited on Dec. 31st	1,700
No. of Uninhabited Houses at time of Census	1,428
Population (at Midsummer)	119,692
Rateable Value	£655,861
Id. in the £ yields for General Purposes	£2,580
Id. in £ yields for Sanitary purposes	£2,370
Number of Persons per Acre (Density of Population)	31·0
Number of Persons per House at time of Census	5·6
Birth Rate per 1,000 living	31·5
Death Rate do.	16·1
Zymotic Death Rate per 1,000-living	2·2
Average Death Rate last 20 years.	18·4
Deaths of Children under 1 year of age to 1,000 Births	136
Average Deaths under 1 year of age for 20 years	161
Percentage of Uncertified Deaths	0·77
Diarrhœal Death Rate	0·78
Average Diarrhœal Death Rate for 20 years	0·89

THE SANITARY CONDITION
OF THE
COUNTY BOROUGH OF BIRKENHEAD
DURING 1908.

*Report of the Medical Officer of Health to the
Health Committee.*

In presenting my Seventeenth Annual Report, viz:—that for the year 1908, I am again able to congratulate the Committee on the continued healthiness of the Borough. The Death Rate of 16·1 per 1000, although not quite so low as in 1907 (15·4 the lowest recorded) was still a very low one for the West Coast, the slight increase of 0·7 being chiefly due to an increase in the Infantile Mortality. The Infantile Mortality in 1907 was only 110 per 1000 births, also the lowest recorded, and in my last Report I gave reasons why I thought this had occurred. In 1908 the Infantile Mortality rose to 136, but in spite of this it was considerably below the average of 157·5 for the last 20 years.

It has been my custom from year to year to refer in my Annual Report to such things of interest as have occurred during the period under review.

The year 1908 was singularly devoid of anything which calls for special remark, but it is perhaps worth recording that the new Disinfecting House in Corporation Road, adjacent to the North End Refuse Destructor, was opened for use on the 19th May. The apparatus is one of Messrs. Goddard, Massey and Warners, and there are ample rooms for stores, in addition to sheds for keeping the ambulances and vans. A special room has been set aside and provided with a form of spray bath for disinfecting persons who apply to be disinfected under the provisions of the "Cleaning of Persons' Act," and its use has already been called into requisition.

In my last year's Report I called special attention to the dangers of house flies, and the desirability of removing such materials as provides them with breeding places as quickly as possible. In this connection I would again repeat that stable manure should not be allowed to remain stored in the neighbourhood of dwelling houses, at any rate during the warm summer months—for a longer period than seven to ten days. But here we are met with a considerable administrative difficulty. In most cases where only one horse is kept the amount of manure made in the time mentioned is not sufficient to make up a load, and consequently great difficulty is experienced in getting anyone to come and remove it, owing to the greatly added cost of cartage. If therefore the more frequent removal is to be carried out as a sanitary measure, it will be necessary for the Sanitary Authority to collect the manure from these smaller places and take it to some convenient Depôt from which it will pay farmers to fetch it in the larger quantities. This course I would personally recommend, but whether it can be reasonably carried out or not I must leave for the Committee's consideration. I consider, however, that the new Depôt for storing the manure from the street sweepings which has been constructed in Ivy Street ought to be abolished, as it is in my opinion a dangerous nuisance; the manure from this dip is

never *entirely* cleaned away, but remains as a fit nidus for the breeding of flies, and in face of the recent scientific work showing the dangers of such storage, I feel it my duty to again call the attention of the Committee to the matter.

Whilst speaking of things which it is desirable to get rid of, I must once more refer to the subject of boulder paved streets and passages. I have remarked a large number of times on the danger attaching to this form of paving—the spaces between the boulders become filled with manure, and other forms of decomposing filth, which cannot be swept out properly and this constitutes a nidus for the growth of germs and a danger to the public health; there has been a marked improvement in the health of such streets as Henry Street and William Street since this form of paving was abolished, and I would most strongly urge upon the Council the desirability of having it removed from all back streets and passages in the Borough where it still exists.

**DETAILED STATEMENT OF
THE WORK OF THE PUBLIC HEALTH DEPARTMENT
DURING 1908.**

Ordinary Sanitary Operations.—The ordinary sanitary operations of the Department have continued to receive unremitting attention. House-to-house inspections of the cottage property in the Borough have been regularly made. Gulleys and passage drains have been periodically cleansed, public fountains, &c., have been scoured and kept in order, and the systematic removal of ashpit refuse at stated intervals has been carefully superintended.

Summary of Nuisances, &c.—The summary of nuisances investigated and dealt with during 1908 is as follows:—

				1908.
Number of nuisances reported	...	...	...	6690
Number of formal notices given	...	...	...	2321

Number abated after formal notice and without proceedings	6690
Number of cases in which proceedings were taken for ordinary nuisances	0
Number abated after proceedings... ..	0
House disinfecting notices... ..	344
Nuisances at houses let in lodgings	215
Nuisances at common lodging houses	74
Notices for cleansing of filthy houses	4

A brief statement of the other measures taken in 1908 for correcting or getting rid of whatever appeared to be prejudicial to health is subjoined.

Sanitary defects reported by the Inspectors and referred for the action of the Borough Surveyor	295
Matters reported to Water Engineer	170
Houses or parts of houses specially disinfected by formalin or other disinfectants	711
Notice to whitewash and efficiently cleanse milk-houses, cowsheds and dairies, given and complied with	378
Offensive privies ordered for conversion into water-closets	28
Parcels of infected bedding and clothes disinfected at the Disinfecting House	510
Parcels of infected or discarded bedding and clothes destroyed	438
Library Books, collected and destroyed	52
Carcases of dogs and cats &c. removed from pools or waste land and buried	38
Deposits of putrid fish and other objectionable refuse removed	2
Total	2622

In addition to the above, the following work was done:—

Number of excavations made for the purpose of testing the condition of house drains	248
Number of smoke tests applied to drains of premises reconstructed under the supervision of this Department	... 206
Number of water tests applied to drains.	... 323
Number of smoke tests applied to the drains of new buildings, in conjunction with the Borough Surveyor's Department	555

It will be seen from the above that the work of the Department continues to increase, this is in part due to new Acts of Parliament, to the ever-increasing population and consequent greater crowding, and also on account of the more thorough manner in which examinations are now made. The latter tends to the advantage of the public, both as regards health and comfort, and every effort is made to keep down public or private nuisances dangerous to the community.

District Inspections.—The following is a statement of the work done by the District Inspectors of Nuisances and the Disinfecting Inspector during 1908.

	Number of Visits and Revisits made to Insanitary Property.
District I.—Inspector Fitzgerald	... 6211
„ II.— „ Lee	... 4035
„ III.— „ H. T. Taylor	... 4527
„ IV.— „ W. H. Tilston	... 6134
Disinfecting Inspector Isaac Taylor	... 4183
Total	... <u>25090</u>

Smoke Nuisances.—Observations were taken of the smoke emitted from the factory and other chimneys of the Borough during the year 1908. Seven notices were served for the abatement of nuisance.

**Inspection of Common Lodging Houses and Houses
let in Lodgings.**

The following is a statement of the work performed during the year 1908 by the Inspector of Common Lodging Houses and Houses let in Lodgings, viz :—

REGISTERED COMMON LODGING HOUSES.

Day Inspections	...	...	...	...	4206
Night Inspections	..	...	...	...	304
The total number of registered lodging houses is 15.					

REGISTERED HOUSES LET IN LODGINGS.

Day Inspections	...	...	...	...	3405
Night Inspections	...	...	...	..	171

The total number of houses let in lodgings on the register at the end of 1908 was 640.

**FACTORY AND WORKSHOP ACTS,
1878 to 1907.**

In connection with the carrying out of the provisions of these Acts, the following is a statement of the work done by the Inspector during the year 1908, viz :—

- 1225 visits have been made to workshops.
- 486 visits have been made to bakehouses.
- 64 visits have been made to workplaces.
- 107 visits have been made to homeworkers premises.
- 37 workshops, including 7 bakehouses, have been placed on the register during the year, making a total of 419 up to the end of 1908, of which 60 are bakehouses and 35 are confectioners' shops.
- 45 workshops have been closed.
- 21 workshops have been transferred to more suitable premises.
- 163 nuisances in connection with workshops have been reported and abated.
- 24 notices have been served for the abatement of nuisance arising out of defective drainage, and 2 for inefficient ventilation.

39 notices to cleanse and limewash the workshops have been served and complied with.

184 occupiers of workshops have limewashed their premises under inspection, but without waiting for the formal notice.

1 case of overcrowding has been reported during the year.

4 workshops have been provided with w.c. accommodation, where none previously existed.

28 failures to affix abstract of the Factory and Workshops Act (s. 133).

Lists of out-workers have been carefully kept, and notices in the form prescribed by the Secretary of State, as given in my Report for 1892 (pp. 57 and 58), have been served when necessary.

Laundries.—272 visits were made during the year to the 57 laundries at present on the register.

Bakehouses.—The duties involved in carrying out the provisions of the Acts relating to the sanitary condition of bakehouses have been put under a special Inspector, and during the year 486 visits have been made to bakehouses.

There has been a very great improvement secured by this systematic inspection.

“Shop Hours Acts, 1892 and 1895.”

In carrying out the provisions of these Acts the Inspector has paid 643 visits to different shops, and the occupiers' names and addresses have been placed upon a register specially kept for the purpose, together with the date of his visits.

Seats for Shop Assistants Act, 1899.

[62 and 63 Vict., ch. 21.]

78 premises have been visited under this Act, and 193 visits made during the year ending 1908.

SHOP HOURS ACT, 1904.

CLOSING ORDER WITH RESPECT TO HAIRDRESSERS.

In connection with this Order, 1097 visits have been made to see that the provisions of the Act are enforced.

Administration of the Factory and Workshop Act, 1901,

IN CONNECTION WITH

Factories, Workshops, Laundries, Workplaces and
Homework during 1908.

1. INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

Premises. (1)	Number of		
	Inspections. (2)	Written Notices. (3)	Prosecutions. (4)
Factories (including Factory Laundries) ..	20	2	—
Workshops (including Workshop Laundries)	1141	63	—
Workplaces (other than Outworkers' premises included in Part 3 of this Report) ..	64	—	—
Total	1225	65	—

2. DEFECTS FOUND.

Particulars. (1)	Number of Defects			Number of Prosecu- tions. (5)
	Found (2)	Remed'd (3)	Referred to H.M. Inspect'r (4)	
Nuisances under the Public Health Acts:—				
Want of cleanliness.. .. .	39	39	—	—
Want of ventilation.. .. .	2	2	—	—
Overcrowding	1	1	—	—
Want of drainage of floors	12	12	—	—
Other Nuisances	10	10	—	—
Sanitary accommodation { insufficient	Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted, and the standard of sufficiently enforced is in accordance with the Home Secretary's Order of the 4th Feb., 1903.			
{ unsuitable or defective				
{ not separate for sexes				
Offences under the Factory and Workshop Act:—				
Illegal occupation of underground bakehouse (s. 101)	—	—	—	—
Breach of special sanitary requirements for bakehouses (ss. 97 to 100)	—	—	—	—
Other Offences (excluding offences relating to outwork which are included in Part 3 of this Report	99	99	—	—
Total	163	163	—	—

3. HOME WORK.

NATURE OF WORK.*	OUTWORKERS' LISTS, SECTION 107.										OUTWORK IN UNWHOLE-SOME PREMISES, SECTION 108.			OUTWORK IN INFECTED PREMISES, SECTIONS 109, 110.			
	Lists received from Employers.					Prosecutions.		Number of Inspections of Outworkers' premises.			Instances.			Instances.			
	Twice in the year.		Once in the year.			Outworkers referred from other Councils.		Failing to keep or permit inspection of lists.		Failing to send lists.			Orders made (s. 110).			Prosecutions (s. 110).	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Wearing Apparel—	+			+					9								
(1) making, etc. ..	52	74	13	28	8	17			107								
[2] cleaning & washing	—																
Furniture & upholstery	—				1												
TOTAL ..	52	74	13	28	9	17			107								

INSTRUCTIONS.—*If an occupier gives out work of more than one of the classes specified in column 1, and subdivides his list in such a way as to show the number of workers in each class of work, the list should be included among those in column 2 (or 4 as the case may be) against the principal class only, but the outworkers should be assigned in column 3 (or 5) into their respective classes. A footnote should be added to show that this has been done.

+ The figures required in columns 2 and 3 are the total number of lists received 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 outworkers' name will often be repeated.

4. REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year.	Number.		Class. 1.	Number 2.
	1.	2.		
Bakchouses	Matters notified to H.M. Inspector of Factories :— Failure to affix Abstract of the Factory and Workshop Act, (s. 133) Notified by H.M. Inspector Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act, (s. 5) Other Underground Bakehouses (s. 101) :— Certificates granted during the year In use at the end of the year	60
Confectioners		35
Other Workshops		324
Total number of workshops on Register ..				419

5. OTHER MATTERS.

Important classes of workshops, such as houses may be enumerated here.	Number.		Class. 1.	Number 2.
	1.	2.		
Bakchouses	Matters notified to H.M. Inspector of Factories :— Failure to affix Abstract of the Factory and Workshop Act, (s. 133) Notified by H.M. Inspector Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act, (s. 5) Other Underground Bakehouses (s. 101) :— Certificates granted during the year In use at the end of the year	28
Confectioners		10
Other Workshops		None
Total number of workshops on Register ..				None 37

These matters were attended to at the time.

CLEANSING OF PERSONS ACT, 1897.

Provision for the cleansing of persons under this Act has now been made at the Disinfecting Station.

The Midwives Act, 1902.

In connection with the carrying out of the provisions of this Act, a great deal of work was done during the year: not only in visiting the homes of midwives, but in interviewing them in connection with their work and explaining the provisions of the Act and the rules laid down for their guidance by the Central Midwives Board.

During the year 1908 some 56 midwives had entered their names on the local register as practising in the borough, being 7 more than in 1907, but names are constantly being added to the roll and there is reason to believe that this number will be considerably added to. Of the above 56, two of them subsequently left the district, and their names have been removed from the register accordingly.

Notices were received from midwives of 28 still births (7 male 16 female, and 5 not classed) having occurred; and 49 cases were notified, in which medical aid had been called in.

During the year I paid some 48 visits of inspection to midwives, and made a series of enquiries in one case of alleged neglect which, however, did not prove to justify further action being taken, beyond seriously warning the woman for the future.

Infectious Disease (Prevention) Act, 1890.

A number of Library books were collected and destroyed from houses where there had been infectious disease.

Seizure and Destruction of Unwholesome Meat, Fish, and Vegetables.

The Meat and Food Inspector has furnished the following particulars of meat, &c., unfit for human food, seized and destroyed during 1908.

The total weight of the meat destroyed amounted to 170,700 lbs, but of this a large proportion was voluntarily surrendered by the butchers, they having called the Inspector's attention to it.

As in all recent years, a considerable proportion of the meat taken was on premises in connection with the Foreign Animals Wharf, Woodside. The total number of oxen killed at Woodside and inspected by us during 1908 was 171, 157, and 9 sheep; and 95 oxen and 113 sheep were killed at Wallasey Stage and 189 sheep at No. 4 Shed, Wallasey, within our jurisdiction. At the Abattoirs in New Chester Road there were killed 1275 beasts, 6061 sheep, 4860 lambs, 614 calves, and 4119 pigs; a total at the Abattoirs of 16,929.

In addition to the above 1997-lbs of fruit and 4480-lbs vegetables, 110-lbs of rabbits were seized and destroyed as unfit for food.

Tuberculosis.

The following is a Statement of the number of cases dealt with during the year.

	WOODSIDE.	THE ABATTOIRS.	
		Cattle	Pigs
No. after whole carcasses taken	31	10	5
No. where part only was taken	35	2	..
No. when offal only was taken	68	1	..
TOTAL	134	13	5

Proceedings taken under the "Sale of Food and Drugs Acts, 1875 to 1899."

The Chief Inspector (Mr. William Dawson) gives the following summary of proceedings taken under these Acts during 1908.

The total number of samples taken during the year was 217, viz.—Milk 96, Butter 47, Lard 16, Cheese 11, Beer 9, Pepper 9, Sweets 6, Scotch Whisky 5, Cream 4, Malt Vinegar 3, Brandy 2, Gin 2, Irish Whisky 2, Coffee 1, Damson Jam 1, Plum Jam 1, Strawberry Jam 1, Tarragona Port Wine 1.

Out of the above, 7 samples of Milk, 5 of Butter, and 1 of Malt Vinegar, were reported adulterated, and proceedings were taken in the case of 6 samples of Milk, 5 of Butter, and 1 of Malt Vinegar, the particulars of which are as follows, viz.—

Quarter Ending	No.	Article.	Amount of Adulteration.	Fine Inflicted.	Costs Imposed.
				£ s. d.	£ s. d.
1908.					
March 31	1	Butter ..	Margarine	1 3 0	0 17 0
" "	22	Milk ..	4 % added of water ..	0 3 0	0 17 0
" "	47	Milk ..	3 % added of water ..	..	1 0 0
June 30	61	Milk ..	Deficient of 6 % of fat	..	0 15 6
" "	87	Milk ..	Deficient of 10 % of fat	1 2 0	0 18 0
September 30	124	Butter ..	Margarine	0 3 0	0 17 0
" "	125	Malt Vinegar ..	Acetic Acid coloured with Caramel	0 1 0	0 15 6
" "	128	Milk ..	15 % of added water..	2 0 0	0 17 0
December 31 .. .	161	Milk ..	Deficient of 6 % of fat	0 3 0	0 17 0
In addition to the above the following fines were inflicted under the provisions of Section 6 of the Margarine Act, 1887.					
December 31	1	Butter ..	Margarine not labelled so as to be clearly visible to purchaser	..	0 5 0
" "	3	Butter ..	Margarine not labelled so as to be clearly visible to purchaser, and Margarine sold in an unlabelled paper wrapper	1 3 0	0 17 0
June 30.. ..	80	Butter ..	Margarine not labelled so as to be clearly visible to purchaser.	0 10 0	..
" "	81	Butter ..	Margarine not labelled so as to be clearly visible to purchaser	0 10 0	..
September 30	124	Butter .	Margarine not labelled so as to be clearly visible to purchaser, and Margarine sold in an unlabelled paper wrapper	..	0 5 0
				..	0 5 0

Contagious Diseases (Animals) Act, 1886.

The Milkhouses.—The regulation of dairies, cowsheds, and milk-shops, and the supervision of milk-sellers, has had systematic attention for a number of years. Special care is taken that the ventilation, lighting, cleansing, draining, and water supply of premises used for milk-trade are thoroughly efficient. The register of milk-sellers is revised week by week. The total number of milk-shops is 190, in addition there are 12 cowsheds, and 59 farmers resident outside the Borough, registered to purvey milk inside the Borough.

Twice every year notice is sent to all the milk-sellers requiring that the walls and ceilings of every room in the occupation of Registered Milk-sellers, used for storage or sale of milk, shall be lime-washed, that is to say, in March and September; but if the walls are painted, then they must be washed and thoroughly cleansed twice every year, in March and September.

Meteorological Results.

The noteworthy features of the meteorology of the year are given in the following tabular statement, which has kindly been prepared by W. E. Plummer, Esq., M.A., F.R.A.S., Director of the Observatory, Bidston Hill, Birkenhead, who also furnishes particulars weekly of the daily observations taken under his directions, from which Table IV. in the appendix is compiled.

1908				Mean Tempera- ture	Mean Barometer	Rainfall 1 ft. above ground
				o	Inches	Inches
January	..	..	..	37.6	30.105	1.532
February	..	..	..	42.2	30.050	1.855
March	..	..	..	40.3	29.820	2.923
April	..	..	..	43.8	29.970	3.368
May	..	..	..	54.6	29.983	2.911
June	..	..	..	57.1	30.083	1.982
July	..	..	..	60.1	29.985	3.685
August	..	..	..	58.3	29.968	2.400
September	..	..	..	56.3	29.907	2.730
October	..	..	..	53.9	30.009	1.824
November	..	..	..	45.8	29.995	1.867
December	..	..	..	40.2	29.842	1.825

Mean Barometer for the whole year=29·984 inches.
 Mean Barometer for the past 40 years=29·922 inches.
 Total amount of rainfall at Bidston, 1908=28·902 inches.
 Number of wet days in the year 1908=190 days.
 Average rainfall for 40 years=28·600 inches

Barometer.—The mean barometer of 1908 (29·984 inches) was higher than last year and 0·062 higher than the average mean of the last 40 years. Detailed particulars respecting the barometric pressure, temperature, rainfall, wind, humidity of the air and the proportion of cloud to clear sky &c., will be found in Table IV.

Rainfall.—The rainfall of 1908, 28·902 inches, was higher than last year and 0·302 inches higher than the average of the previous forty years.

Year.	Total Amount Rainfall in inches at Bidston	No. of wet days in the year	Year.	Total Amount Rainfall in inches at Bidston	No. of wet days in the year
1897	28·580	189	1903	34·418	224
1898	25·719	183	1904	25·175	196
1899	27·907	186	1905	24·011	192
1900	32·054	208	1906	28·076	196
1901	25·192	190	1907	26·568	209
1902	25·566	200	1908	28·902	190

Average rainfall for 40 years=28·600 inches.

The figures for the years 1867 to 1899 are given in my Report for 1904.

Greenwich.

The Annual Rainfall at Greenwich was given in my past Reports as follows, viz.—

The figures for 1841—1885 will be found in my Annual Report for 1903, page 22,
 and from 1886—1907 in my Report for 1907, page 21.

For the relative mortality of different portions of the year, see under Births and Deaths.

PREVALENCE OF ZYMOTIC SICKNESS DURING 1908.

Notification of Cases of Dangerous Infectious Diseases.—The Infectious Disease Notification Act, 1889, requires householders and medical men in attendance to notify cases of dangerous infectious diseases to the Sanitary Authority, and gives facilities for supplementing the statement of the mortality from zymotic diseases with a statement of cases of sickness due to some of the chief zymotic diseases, month by month, as they were reported. The diseases which require to be notified to the Authority as “dangerous infectious diseases” are—

Small-pox	Fever	} Typhus Typhoid Continued Relapsing
Scarlatina		
Diphtheria		
Membranous Croup		
Erysipelas		
	Puerperal Septicæmia	
	Cholera	

The cases notified appear in the following return, showing that 777 cases were notified during the year, being 2176 less than the number notified last year; the non-notification of measles accounts for a very large proportion of these.

The notification of Measles was discontinued after 7th August, 1907.

The following Table gives the number of Notifications of Dangerous Infectious Diseases in each month of the year.

1908	Smallpox	Measles	Scarlatina	Diphtheria	Typhus Fever	Typhoid Fever	Puerperal Fever.	Fever	Cholera	Mem. Croup	Erysipelas	TOTAL
January....	..	..	25	15	..	1	..	..	..	1	12	54
February ..	..	..	17	14	..	2	1	..	..	1	13	48
March .....	..	..	30	11	..	2	..	2	..	1	10	56
April .....	..	..	17	12	..	4	1	..	..	2	8	44
May .....	..	..	41	12	1	4	..	..	..	1	4	63
June .....	..	..	27	10	..	6	1	..	..	1	6	51
July .....	..	..	26	9	..	3	1	..	..	..	3	42
August	2	..	28	9	..	16	..	..	..	1	9	65
September..	..	..	35	12	..	5	2	1	..	1	5	64
October ....	..	..	50	12	..	5	..	..	..	..	8	75
November..	1	..	71	8	..	8	1	..	..	1	6	96
December..	2	..	87	16	..	3	..	..	..	1	10	119
Totals	5	..	454	140	1	62	7	3	..	11	94	777

And the next Table the number of cases of the different diseases notified in each year during the last ten years.

The statement is as follows :—

Year	Smallpox	Measles	Scarlatina	Diphtheria	Typhus Fever	Typhoid Fever	Fever	Mem. Group	Cholera	Erysipelas	TOTAL
1899	..	2461	205	86	1	275	11	6	..	..	3068
1900	..	316	203	48	..	163	26	8	..	..	774
1901	..	2179	266	75	..	207	18	7	..	..	2791
1902	29	1356	407	114	1	327	20	16	..	35	2305
1903	88	420	658	101	..	79	14	12	..	78	1450
1904	40	2212	627	97	1	103	21	17	..	70	3188
1905	2	979	874	138	..	63	8	15	..	64	2143
1906	2	920	869	178	..	118	11	21	..	95	2214
1907	1	2287	288	212	..	70	7	15	..	73	2953
1908	5	..	454	140	1	62	10	11	..	94	777

The figures for the years 1882-1905 will be found at page 25 in my report for 1905, and for 1896-98 in last year's report.

VITAL AND MORTAL STATISTICS FOR THE YEAR.

Area.—The Borough has an area of 3850 acres, or a little more than six square miles.

Population.—The population as shown by the Census taken in England and Wales on April 1st, 1901, was 110,915, being 11,058 in excess of the number enumerated in the census taken on April 6th, 1891.

The number of persons living at Midsummer, 1908, as estimated by the usual method, was 119,692, and on this estimate I have based the following statistics.

The total number of houses in the Borough at the time of the 1901 census was 21,172, and the number built since that time up to 31st December 1903 was 5062, and the number demolished in the same period was 311, a net gain of 4751, giving a total for the Borough at end of the year 25,923. But there are a number of houses in different parts of the town which, though not demolished, have been converted from dwelling houses into factories,

stores or other workshops; of these I have no return and can only guess at their number, which I estimate will be between 200 and 300.

The number of new houses built during the eleven years, 1891-1901, was 2911, for which information I am indebted to the Borough Surveyor. The number of houses demolished during the same period being 493.

Number of New Houses erected in the Borough since last Census.

April 1st to December 31st, 1901	...	...	311
January 1st to December 31st, 1902	...	...	646
" " "		1903	897
" " "		1904	643
" " "		1905	848
" " "		1906	472
" " "		1907	685
" " "		1908	560
Total ...			5062

The number of houses demolished since taking of Census to end of 1907 was 259, and 52 were taken down during 1908, a total of 311. The number of new houses erected from January 1st to 30th June 1908 was 244.

Taking the total number of houses in the Borough as given above viz. 25,923, and allowing 1,710 as uninhabited, this figure being taken from the Chief Constable's return, (there were 1,428 uninhabited at the time of the Census), then we have 24,213 inhabited houses in the Borough on the 31st December, 1908—if we multiply this by 5·6 the number of persons per house at the time of the Census, then the population of the Borough at the end of the year ought to be 135,592, or about 15,900 more than the number estimated by the usual method of arithmetical progression employed by the Registrar General. Of course, if this is correct then our birth and death rates would be very considerably lower than those shown, which as stated above are calculated on the ordinary estimate. In my last Annual Report a curious but obvious mistake was made in some unexplainable manner in the corresponding paragraph to this.

The following table gives the revised estimated population of the Borough for the ten years 1901-1910, provided the rate of increase during the decade 1891-1901 be maintained.

Year.	Census Population.	Midsummer Population.	Year.	Census Population.	Midsummer Population.
1901	110915	111204	1906	116895	117203
1902	112086	112382	1907	118129	118441
1903	113270	113569	1908	119377	119692
1904	114465	114767	1909	120637	120955
1905	115674	115979	1910	121910	122232

The figures for 1891-1900 are given in my report for 1907, page 25.

Births and Deaths in Birkenhead.—During the year 1908 the returns of the local registrars recorded 3775 births and 1929 deaths in the Borough of Birkenhead. The natural increase in the population in 1908 was therefore 1846. Of the births 1914 were males and 1861 were females; of the deaths 958 were males and 971 were females.

Further particulars as to the births and deaths in the Borough registered in each quarter of the year, and in each township are given in the subjoined table. Those occurring in Union Workhouse are entered separately.

BIRTHS	1st Qr.		2nd Qr.		3rd Qr.		4th Qr.		1908		Total
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Birkenhead	275	273	308	256	283	276	226	322	1092	1027	2119
Cloughton	35	25	26	31	26	30	23	25	110	111	221
Tranmere	155	159	176	168	167	163	145	49	643	639	1282
Oxton	3	7	5	12	5	3	4	8	17	30	47
Rebington	7	5	8	5	8	4	6	5	29	19	48
Union Hospital	5	11	8	5	6	9	4	10	23	25	53
Birkenhead Borough ..	480	480	531	477	495	485	408	419	1914	1861	3775

DEATHS	1st Qr.		2nd Qr.		3rd Qr.		4th Qr.		1908.		Total
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Birkenhead	152	141	102	112	123	130	120	104	497	487	984
Claughton	9	14	6	9	9	9	4	13	28	45	73
Tranmere	81	81	68	80	53	70	70	56	272	287	559
Oxton.....	6	3	6	4	..	10	2	4	14	21	35
Bebington	2	5	2	1	..	6	4	5	8	17	25
Union Hospital	39	19	39	36	33	30	28	29	139	114	253
Birkenhead Borough ..	289	263	223	242	218	255	228	211	958	971	1929

The next table shews the revised estimated population of Birkenhead, the density of population and the number of births, deaths and zymotic deaths, and also the birth and death-rates deducible from these figures for the years 1899 to 1908. The figures for the years 1878 to 1898 were given in my report for the latter year.

Year	Estimated Population at Midsummer	Persons per acre.	BIRTHS.		DEATHS.		ZYMOTIC DEATHS.	
			Number of Births	Birth rate per 1000 per annum	Number of Deaths	Death rate per 1000 per annum	Number of Deaths	Death rate per 1000 per annum
1899	108894	28.28	3451	31.69	2214	20.33	328	3.01
1900	110042	28.58	3428	31.16	1965	17.85	209	1.89
1901	111204	28.88	3290	29.04	2061	18.53	353	3.17
1902	112382	29.18	3646	32.44	1989	17.78	270	2.40
1903	113569	29.49	3516	30.87	1937	17.05	260	2.28
1904	114767	29.80	3805	33.15	2282	19.88	465	4.05
1905	115979	30.12	3707	31.96	1833	15.80	239	2.06
1906	117203	30.30	3733	31.80	2078	17.72	371	3.16
1907	118441	30.70	3727	31.46	1829	15.44	253	2.13
1908	119692	31.08	3775	31.53	1929	16.11	267	2.23

Table showing Natural and Estimated Increase of Population &c.,
1902 to 1908.

Year.	Census Population.	Estimated Population at Mid-summer.	No. of Births.	No. of Deaths.	Natural Increase excess of Births over Deaths.	Estimated Increase of Population from Census Returns.	Balance representing Emigration from the Borough.	Birth Rate per 1000 per annum.	Death Rate per 1000 per annum.	Infantile Mortality under 1 year to 1000 births.	Illegitimate		Proportion of Deaths of Illegi- mates to total Deaths under 1 yr.	Zymotic Death Rate.	Diarrhoea Death Rate.
											Births.	Deaths under 1 year.			
1902	112086	112382	3646	2021	1625	1178	447	32.52	17.7	151	123	51	9.26	2.40	0.56
1903	113270	113569	3516	1937	1579	1187	392	31.02	17.0	155	112	48	11.4	2.20	1.13
1904	114465	114767	3805	2282	1523	1198	325	33.14	19.87	180	133	43	6.25	4.05	1.62
1905	115674	115979	3707	1833	1874	1212	692	32.0	15.4	129	102	43	8.93	2.05	0.90
1906	116895	117203	3733	2078	1655	1234	431	31.8	17.72	151	115	38	14.86	3.16	1.70
1907	118129	118441	3727	1829	1898	1238	560	31.46	15.44	110	130	31	7.56	2.13	0.85
1908	119377	119692	3775	1929	1846	1251	595	31.33	16.11	136	108	27	5.23	2.23	0.78

The figures for 1891 to 1901 are given in my report for 1907, page 27.

The proportion of Deaths of Infants under One year to the Births registered.—The proportion in Birkenhead Borough in 1908 was equal to 136 per 1000. In the thirty-six great cities and boroughs in England and Wales, amongst which Birkenhead is classed, the average proportion of deaths under one year to births registered in 1908 was 132. It varied greatly in the different towns, ranging from 200 in Burnley to 77 in Leyton. In Liverpool it was 141, Wallasey 102, Bootle 147 and Stockport 168.

**Infantile Mortality in Birkenhead during 10 years,
1899 to 1908.**

Year.	No. of Births.	Total Deaths of Infants under 1 year.	Deaths from Diarrhoea under 1 year.	Total Deaths of Infants per 1000 Births.	Deaths of Infants from Diarrhoea per 1000 Births.
1899	3451	640	51	185	14·77
1900	3428	543	69	158	20·12
1901	3230	580	125	179	38·69
1902	3646	552	50	151	13·71
1903	3516	548	104	155	29·57
1904	3805	688	136	180	35·74
1905	3707	481	88	129	23·73
1906	3733	565	152	151	40·74
1907	3727	410	30	110	8·04
1908	3775	516	94	136	24·90

The Average Infantile Mortality per 1000 Births for the last 20 years=161
The figures for the years 1888 to 1898 are given in my report for 1907.

Average Rates for last 20 years.

Average Death Rate per 1000 per annum.	Average Birth Rate per 1000 per annum.	Average Infantile Mortality under one year to 1000 Births.	Average Diarrhoea Death Rate.
18·41	31·67	161	0·89

Birth-rates and Death-rates in thirty-seven great towns in England.—In order that the birth-rates and death-rates of the Borough of Birkenhead in 1908 may be compared with the corresponding rates of the most populous cities and boroughs in England, the following table has been compiled from the Registrar General's Quarterly Returns of Births, Deaths, and causes of death in London and the other great towns, 1908. The table gives the *estimated* population of the thirty-six large towns at Midsummer 1908. The birth-rates and death-rates are for the fifty-two weeks ending December 31st. For comparative purposes these figures are interesting as they are all calculated on the same basis. They are of course unrevised returns. (*See Table on page 30.*)

Tabular Statements.—In the appendix to this Report are tabular statements of the year's mortality within the Borough, classified according to the diseases, ages, and localities, a weekly register of deaths and of meteorological results, together with a return of deaths in the Birkenhead Union Hospital and Workhouse, &c.

Table I. shows the deaths registered in the whole Borough during 1908, arranged with reference to the age at which death occurred in each case. They are disposed in four sub-tables—the deaths in the townships of Birkenhead and Claughton in the first, deaths in Tranmere (exclusive of the Union premises) and Oxtun in the second, the deaths in the incorporated portion of Higher Bebington in the third, and the deaths in the Union Hospital and Workhouse in the fourth. The deaths of infants are entered up in three columns—those under one year, those of one year and under two years, and those turned two years and under five. Then follow the deaths of children and young persons, those turned five years and under twenty; and of adults those turned twenty and under forty, and those turned forty and under sixty. In the last two columns are the deaths of old people, those turned sixty and under eighty, and those of eighty and upwards. Reference to this table will show that, of the gross local mortality for 1908, the deaths of infants under one

Thirty-six Great Towns—Population, Births, Deaths, &c., for the Year 1908.

As estimated from the Registrar General's weekly returns and **unrevised** (for comparison only).

CITIES AND BOROUGH.	Estimated Population at Midsummer 1908	Births.	Deaths.	Annual Rate per 1000 Living			Deaths from										Deaths of Children under one year of age to 1000 Births.	Rate per cent of Uncertified Deaths.
				Births.	Deaths.	Principal Zymotic Diseases.	Small-Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-Cough.	Fever.	Diarrhoeal Diseases.	Deaths of Children under one year of age to 1000 Births.				
															Principal Zymotic Diseases.			
London ..	4735757	123844	67353	25.4	13.8	1.35	6399	..	1524	548	724	984	227	2592	113	0.1		
Croydon ..	157698	4070	2047	25.4	12.8	1.37	220	..	93	6	39	28	5	49	99	0.0		
West Ham ..	315000	9229	4439	28.8	13.9	2.39	763	..	225	51	54	84	28	320	128	0.0		
Leyton ..	125815	3300	1333	25.3	10.4	0.82	105	..	25	18	18	12	4	28	77	0.3		
Brighton ..	129667	2808	1945	21.3	14.7	0.64	83	..	22	1	9	18	4	29	104	0.1		
Portsmouth ..	211493	6110	2957	28.4	13.8	0.97	207	..	13	8	49	55	26	55	99	0.5		
Southampton ..	129196	2971	1690	23.9	12.9	1.17	145	..	2.9	5	16	35	5	64	113	..		
Norwich ..	122841	3152	1759	25.2	14.1	1.12	140	..	1	3	26	25	36	49	116	0.7		
Plymouth ..	122113	2750	1891	22.1	15.0	0.91	113	..	1	..	15	27	10	60	129	..		
Bristol ..	372785	8739	5139	23.1	13.6	1.16	435	..	97	10	63	128	9	128	126	0.2		
Wolverhampton ..	103318	2712	1501	25.8	14.3	1.22	137	..	6	9	32	24	10	46	132	0.3		
Birmingham ..	558357	16143	9028	28.4	15.9	1.86	1063	..	69	75	103	338	49	455	144	3.8		
Leicester ..	240172	5704	3165	23.4	13.0	1.33	375	..	179	26	8	31	8	123	131	1.1		
Nottingham ..	263449	7037	4030	26.6	15.2	1.25	31	..	11	11	30	62	29	169	145	0.7		
Derby ..	127583	3356	1633	25.9	13.1	0.95	122	..	20	2	36	15	5	44	112	..		
Stockport ..	102339	2885	1835	27.7	18.2	2.45	214	..	63	10	13	32	7	129	168	0.2		
BIRKENHEAD ..	119830	3524	1919	31.4	15.8	1.88	229	1	43	7	13	61	11	93	136	0.8		
Wallasey ..	68849	1763	949	25.2	13.6	1.51	106	..	28	12	8	25	5	28	102	1.2		
Liverpool ..	753293	24289	14686	31.7	19.2	2.19	1676	..	257	215	133	347	81	643	141	2.7		
Bootle ..	68248	2169	1265	31.3	18.2	2.50	173	..	31	20	15	40	5	62	147	3.5		
St. Helens ..	93812	3311	1498	34.7	15.7	1.52	145	..	..	30	17	7	13	78	122	3.3
Bolton ..	185358	4698	2910	24.5	15.4	1.70	319	..	4	21	18	79	37	160	148	0.4		
Manchester ..	619251	19217	12029	29.1	18.2	2.25	1483	..	367	95	122	220	74	699	151	0.7		
Salford ..	239294	7201	4334	29.6	17.8	3.04	738	..	167	65	123	103	41	239	152	0.5		
Oldham ..	142507	4558	2873	28.0	19.8	2.50	363	..	82	28	22	54	12	165	153*	0.1		
Burnley ..	105100	3015	1911	28.2	17.9	2.80	206	..	51	13	13	41	12	170	200	1.7		
Blackburn ..	135961	3459	2170	25.0	15.7	1.56	215	..	18	23	13	29	15	117	149	1.8		
Preston ..	117799	3311	2132	27.7	18.0	2.24	238	..	95	1	11	19	26	116	153	3.3		
Huddersfield ..	94776	2348	1646	24.4	17.1	1.61	156	..	67	3	9	14	10	52	111	1.0		
Bradford ..	292136	5935	4615	20.2	15.5	1.36	404	..	72	13	41	56	30	192	143	0.2		
Leeds ..	477107	12103	7412	24.8	15.3	1.49	723	..	179	14	46	138	25	325	137	0.1		
Sheffield ..	463222	14467	7457	30.7	15.8	1.85	897	..	103	37	37	248	26	410	140	2.5		
Hull ..	271137	8327	4456	30.2	16.2	2.19	695	..	96	3	50	57	23	376	145	0.8		
Sunderland ..	157683	5235	2849	33.0	17.7	1.86	296	..	25	6	27	118	15	105	146	2.3		
Newcastle-on-Tyne ..	277257	8379	4505	29.7	16.0	1.26	354	..	31	10	35	134	14	130	136	0.3		
Cardiff ..	191446	5172	2521	26.6	13.0	1.10	214	..	5	10	22	47	7	123	125	0.1		
36 Towns ..	12771869	349112	195893	27.0	15.4	1.65	29716	1	4108	1410	2013	3705	944	8835	192	0.9		

year of age accounted for 516, those over one year but under five years of age 238, children and young persons 103, adults 533, old people sixty years of age and upwards 509.

The relative proportion of deaths in 1908 among the infants, children and young persons, adults and old people, to the whole number of deaths, in certain sub-divisions of the borough, in the premises controlled by the Guardians of the Poor, and in the entire incorporated area, is readily shown in tabular form, thus:—

Percentage of Deaths at certain ages to Total Deaths.	Under 1 Year	Age between														85 years and upwards.
		1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55	55-65	65-75	75-85	
Birkenhead and Claughton	16.12	4.97	2.12	0.62	0.98	1.24	1.45	0.72	0.88	3.31	4.04	3.78	5.28	5.80	2.95	0.46
Tranmere & Oxtton	9.38	2.74	0.93	0.77	0.57	0.57	0.25	0.46	0.62	0.58	1.29	2.64	2.48	3.83	2.22	0.98
Bebington	0.10	..	..	..	0.05	..	..	0.10	..	0.20	0.10	0.05	0.31	0.10	0.25	..
Union Hospital and Workhouse	1.14	0.10	..	..	..	0.05	0.15	0.31	0.46	1.03	1.76	1.86	2.17	2.69	1.29	0.05
Birkenhead Borough	26.74	7.82	3.05	1.39	1.60	1.86	1.86	1.60	1.96	5.54	7.20	8.34	10.26	12.44	6.73	1.50

In this respect the local mortality compares favourably with the mortality in most great cities and boroughs. The percentages taken out for Bebington have little significance, the number of deaths being so small.

Table II. is the weekly register of deaths in the Borough of Birkenhead for 1908. The deaths are entered as in Table I., into four sub-tables, representing Birkenhead and Claughton, Tranmere, Oxtton and Bebington, and the Union Hospital and Workhouse. Table III. is a summary of the weekly register of deaths. Table IV. is a Weekly Condensed Register of Meteorological Results. Table V. is a street register of deaths.

The Classification of Death Causes.—The causes of death, as they appear in Tables I. and II. in the appendix, are systematically classified according to the principles laid down by the late Dr. W. Farr, the nosology being that adopted by the Registrar-General until within the last few years, which experience

has shown to be well suited for statistical purposes. The death causes are arranged under classes and orders, the latter corresponding to the families of Natural History. Genera, or what in diseases would be varieties, are not distinguished. All death causes are thus conveniently classified under 116 heads some of which, however, include diseases very distinct from one another.

At the beginning of Table I. are the totals of deaths from all causes, and on the next line the totals of deaths from specified causes. The deaths which it is necessary to refer to unspecified causes are not only those ascribed, in legal phraseology, to "visitation of God" or "natural causes," but also those which, with almost equal vagueness, are classified as due to "tumour," "coma," &c. The deaths from specified causes are then divided into five classes. Class I. (the zymotic) embraces all diseases, either epidemic, endemic, or contagious, which are induced by some specific body, or by want of, or by the bad quality of food. The diseases coming under Class II. (constitutional or cachectic) appear to be due to a bad habit of body, and possibly may sometimes be hereditary. Class III. takes in diseases the effects of which are manifest in disturbing or obliterating the function of particular organs or systems. Class IV. includes the conditions tending to produce death, which are the incidental results of the formative, reproductive, and nutritive processes. Class V. groups together all deaths which are the evident and direct result of physical or chemical forces.

Deaths from Zymotic Diseases.—The deaths from zymotic diseases include 79 by what have been termed the chief zymotics (certain diseases belonging to the miasmatic order), viz., small-pox 1, chicken-pox 1, measles 44, scarlatina 6, diphtheria 8, membranous croup 5, fevers 11, and puerperal septicæmia 3. The remaining 188 were entered to what have been called minor zymotics (diseases less prevalent, less fatal or less obviously zymotic in character), viz., whooping cough 60, erysipelas 4, influenza 25, diarrhœa 94, syphilis 3, and other zymotic diseases 2.

Relative Fatality of Chief Zymotic Diseases.

The following table shows at a glance the relative fatality of the chief zymotic diseases for the year on the corrected estimate of population.

Year	Deaths from Zymotic Diseases.								Death rate per 1000 living.							
	Smallpox	Measles	Scarlatina	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Diarrhoea	Smallpox	Measles	Scarlatina	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Diarrhoea
1899	...	50	5	21	22	1	48	71	...	0.43	0.04	0.18	0.71	...	0.41	0.62
1900	...	7	3	6	23	...	16	80	...	0.07	0.03	0.06	0.25	...	0.14	0.72
1901	...	45	8	24	57	...	24	132	...	0.40	0.07	0.21	0.51	...	0.21	1.45
1902	2	36	20	23	60	...	43	63	0.01	0.32	0.17	0.20	0.53	...	0.38	0.56
1903	6	9	21	9	39	...	15	119	0.05	0.07	0.18	0.07	0.34	...	0.13	1.13
1904	1	98	20	20	83	1	13	187	0.008	0.85	0.17	0.17	0.72	0.006	0.11	1.6
1905	...	32	28	22	1	...	6	115	...	0.27	0.24	0.18	0.001	...	0.005	0.99
1906	...	8	31	24	58	...	17	200	...	0.06	0.26	0.20	0.19	...	0.14	1.70
1907	...	129	10	21	16	...	11	42	...	1.08	0.08	0.17	0.13	...	0.09	0.35
1908	1	44	6	8	60	...	9	94	0.008	0.36	0.05	0.06	0.50	...	0.07	0.78

The figures for the years 1878-1898 are given in my report for 1898.

Deaths from Phthisis in Birkenhead

Year	Population	No. of Deaths	Death Rate	Year	Population	No. of Deaths	Death Rate
1891	100120	195	1.94	1900	110042	159	1.35
1892	101180	155	1.54	1901	111204	148	1.33
1893	102550	167	1.63	1902	112382	197	1.75
1894	103325	191	1.84	1903	113569	155	1.36
1895	104412	183	1.75	1904	114767	174	1.51
1896	105416	142	1.34	1905	115979	178	1.53
1897	106629	172	1.61	1906	117203	162	1.38
1898	107756	139	1.19	1907	118441	121	1.02
1899	108394	171	1.57	1908	119692	151	1.26

Birkenhead—Tuberculosis of the Lung (including Phthisis) and other Forms of Tuberculosis.

Year.	Population at 31st December.	NUMBER OF DEATHS.											
		Total.			Tuberculosis of the Lung (including Phthisis)				Other Forms of Tuberculosis				
		Deaths	Death Rate	Males (all ages)	Rate per 1000	Females (all ages)	Rate per 1000	Males (all ages)	Rate per 1000	Females (all ages)	Rate per 1000	Children (under five)	Rate per 1000
1899	108894	171	1.57	93	0.85	78	0.71	24	0.22	17	0.15	35	0.32
1900	110012	159	1.35	84	0.76	75	0.68	25	0.22	24	0.21	38	0.34
1901	111204	148	1.33	82	0.73	66	0.59	8	0.07	11	0.09	18	0.16
1902	112382	197	1.75	109	0.96	88	0.78	12	0.10	7	0.06	17	0.15
1903	113569	155	1.36	84	0.74	71	0.62	6	0.05	4	0.03	7	0.06
1904	114767	174	1.51	93	0.81	81	0.70	6	0.05	5	0.04	10	0.08
1905	115976	178	1.53	100	0.86	78	0.67	16	0.13	2	0.01	16	0.13
1906	117193	162	1.38	59	0.51	63	0.53	93	0.79	10	0.08	25	0.21
1907	118441	121	1.02	66	0.55	55	0.46	35	0.29	26	0.21	37	0.31
1908	119632	151	1.25	89	0.74	62	0.51	37	0.30	28	0.23	40	0.33
Totals ..	11,02773	1616	1.41	899	0.78	717	0.62	196	0.17	143	0.12	243	0.21

Inquests.—The number of inquests held during 1908 was 156, thus 8·2 per cent. of the sum of the deaths in the Borough formed the subject of official enquiries. Out of the 156 inquests held, 7 were upon the bodies of infants whose deaths were due to being overlain.

Deaths not Certified.—Not all the death causes which are classified represent diseases or symptoms observed and certified by medical men in attendance during the last illness, or verdicts following official investigation. A significant proportion of the death causes are entered in the register on the doubtful testimony of deceased persons' relatives or friends, or fellow lodgers. The registrars have, therefore, been required to mark in the returns furnished, every death not certified by a registered practitioner, or made the subject of a coroner's inquest. In 1908, out of the 1,929 deaths registered, 15 were marked "not certified," that is 0·77 per cent. The causes of the deaths were entered in accordance with the statements of persons giving information to the registrars as follows:—

Heart Disease	...	...	...	...	...	6
Rheumatism	...	...	...	...	...	2
Epilepsy	...	...	...	...	...	1
Bronchitis	...	...	...	...	...	1
Congenital Specific Disease	...	...	...	...	...	1
Enteritis	...	...	...	...	...	1
Paralysis	...	...	...	...	...	1
Pneumonia	...	...	...	...	...	1
Dropsy	...	...	...	...	...	1

though how such conclusions were arrived at does not appear. In my opinion such deaths ought not to be registered without a Coroner's certificate.

The proportion of uncertified deaths to the sum of the deaths was as already stated, 0·77 per cent. as compared with 0·54 per cent. in 1907.

Deaths classified according to Localities.—Tables I., II., III., and IV., in the appendix, having been fully discussed, are followed by Table V., in which the deaths registered during 1908 are classified according to the localities in which they occurred. Opposite each street or place is the number of deaths from all causes and from zymotic diseases, registered as occurring in that street or place during the year. As it was felt that

particulars of the number of deaths from all causes and zymotic diseases in each ward would prove interesting, and as the Street Register does not afford this information, the Table here submitted has been drawn up.

1908	Estimated Population at Midsummer, 1908.	Deaths from All Causes		Deaths from Zymotic Diseases		Death rate per annum.
		M.	F.	M.	F.	
Cleveland Ward ..	21609	186	145	33	18	15·31
Cloughton	4230	28	45	1	2	17·25
Grange	28719	188	234	29	40	14·69
Argyle	16294	123	108	14	23	14·17
Oxton	4941	14	21	..	1	7·08
Egerton	14126	76	91	6	4	11·82
Clifton	19615	132	136	29	28	13·66
Mersey	6952	64	60	19	12	17·83
Bebington	3206	8	17	..	3	7·79
Birkenhead Borough including deaths in Union premises	119692	958	971	133	134	16·11

Illegitimacy.—Statistics relating to illegitimacy are important, not merely on account of the bearing which such a subject has upon the social life of the community, but also with a view ultimately of showing to some extent the influence which illegitimacy exerts upon the “chances of life” of infants, as it is well known that the death-rate of illegitimate children is considerably greater than that of those born in wedlock. I have thought it desirable, therefore, to continue these statistics in this report, as the subject is one of some interest.

The following table gives the total number of legitimate and illegitimate births, with the rates per 1000 of births and per 1000 living, and statistics relative to the deaths of such children under one year of age.

Illegitimate Births and Deaths, 1908.

Registrar's Sub-District	Estimated Population 1908.	BIRTHS		ILLEGITIMATE BIRTHS		Total deaths of children under one year of age	Deaths of illegitimate children under one year of age	Proportion of deaths of illegitimates to total deaths under one year of age
		Legitimate	Illegitimate	to 1000 living	to 1000 births			
Birkenhead ..	66622	2081	38	0·57	17·93	311	17	5·46
Tranmere, Oxton, Cloughton, and Bebington ..	53070	1596	70	1·31	42·27	205	10	4·87
Total	119692	3667	108	0·90	28·14	516	27	5·23

Illegitimacy.

	Births				Total	Deaths of Illegitimates under 1 year				Total
	1 Qr.	2 Qr.	3 Qr.	4 Qr.		1 Qr.	2 Qr.	3 Qr.	4 Qr.	
Birkenhead	12	8	10	8	38	5	1	8	3	17
Tranmere	22	15	16	17	70	2	6	2	..	10
Totals	34	23	26	25	108	7	7	10	3	27

**HOUSING OF THE WORKING CLASSES
ACT, 1890.**

Under the provisions of this Act during the year 1907, I made the following representations under Part II. of the Act respecting the condition of certain houses, which premises were in a very insanitary condition.

The representations were duly considered and approved by the Health Committee who gave instructions for the recommendation to be carried out. The areas dealt with are as follows:—

4th February, 1908.—17 and 19 Queen's Place, Tranmere.
31st March, 1908.—53 Abbey Street. 7th July, 1908.—Certain Houses situate on land situate off the south side of Holm Lane, and numbered 3, 4, 5 and 6.

All the above houses have been repaired and rendered fit for human habitation.

7th July, 1908. Certain Houses situate on the south side of Holm Lane, and numbered 2 off, and 14, 16, 18, 20 and 22. These houses have all been closed and pulled down.

R. SYDNEY-MARSDEN,
Medical Officer of Health.

PUBLIC HEALTH DEPARTMENT,
TOWN HALL,
APRIL 20th, 1908.

THE INFECTIOUS DISEASES HOSPITAL,
TOLLEMACHE ROAD.

Report for the Year 1908.

HOSPITAL VISITING SUB-COMMITTEE.

MR. ALDERMAN E. G. MASON, J.P., Chairman.

„ „ WILLIAM GETLEY, J.P.

„ „ THOMAS SHAW.

„ COUNCILLOR MICHAEL BYRNE.

„ „ H. L. PEARSON, M.R.C.S., J.P.

„ „ CHAS. S. BREWER, L.R.C.P.S., Edin.,
(on the death of Mr. Ald. Getley in
February, 1908).

MATRON :

MISS EMILY YEOMANS.

There has been no addition to the number of beds in the hospital during the year, nor has there been any change in the number of the Staff.

The total number of patients treated in the hospital during the year (January 1st to December 31st) was 339; of these, 314 were admitted during the year, and 25 remained in hospital from 1907. Out of those admitted 13 died, giving a death-rate of 4·1 per cent, a very low percentage.

The following table gives a summary of the cases treated in the hospital during the year 1908, along with the results obtained.

DISEASES	M.	F.	Re-covered		Died	
			M.	F.	M.	F.
Typhoid Fever—remaining ..	2	2	..	..	..	..
admitted ..	15	12	13	12	2	..
Scarlatina—remaining ..	7	7	7	7	..	..
admitted ..	114	120	112	127	2	3
Diphtheria—remaining ..	2	5	1	5	1	..
admitted ..	19	19	15	18	4	1
Quinsy .. .. .	..	1	..	1	..	..
Pneumonia	1	..	1	..	..	..
Measles	1	..	..	..	1	..
Uncerated Throat ..	..	2	..	2	..	..
Total	161	178	149	172	10	4

The smallpox hospital, containing 44 beds, stands in its own ground, and is provided with a separate administration block, washhouse, mortuary &c., and is entirely distinct from the other hospital.

The following are the statistics regarding

The Smallpox Hospital, 1908.

Number of Patients.	M.	F.	Died.	
			M.	F.
Admitted 1908	2	1	0	1
Total treated during year ..	2	1	0	1

THE E. P. SMITH MEMORIAL CONVALESCENT FUND.

Particulars relating to this fund were given in my Report for 1903.

The following is a list of the initials of the persons who have benefitted by the fund during the year 1908.

C.F.	H.L.
J.H.J.	J.C.
E.W.	W.R.
T.G.	G.L.
P.S.	F.H.
A.B.	M.M.

The fund is now regularly used as far as possible.

THE UNIVERSITY OF CHICAGO

PH.D. THESIS

1950

BY

APPENDIX.

1—Vital Statistics of Whole District during 1908 and previous Ten years.

2—Vital Statistics of Separate Localities in 1908 and previous years.

3—Causes of and Ages of Death during 1908.

4—Infantile Mortality during the year 1908.

TABLE I.—Deaths Registered in the County Borough of Birkenhead during the year ending December 31st, 1908, classified according to age.

TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the year ending December 31st, 1908.

TABLE III.—Weekly Condensed Register of Deaths for 1908.

TABLE IV.—Weekly Condensed Register of Meteorological Results for 1908.

TABLE V.—Street Register of Deaths—1908.

SUPPLEMENT TO TABLE V.—Return of Deaths in Birkenhead Union Hospital and Workhouse, registered in 1908.

Vital Statistics of Whole District during 1908 and previous Years.

Year	Population estimated to Middle of each Year	BIRTHS		TOTAL DEATHS REGISTERED IN THE DISTRICT				Total Deaths in Public Institutions in the District	Deaths of Non-residents registered in Public Institutions in the District	Deaths of Residents registered in Public Institutions beyond the District	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT	
		Number	Rate	Under 1 year of age		At all ages					Number	Rate
				Number	Rate per 1,000 Births registered	Number	Rate					
1898	107756	3432	31.8	641	186.7	1980	18.3	271	8	..	1971	18.2
1899	108894	3451	31.6	640	185.4	2214	20.3	342	12	..	2202	20.1
1900	110042	3428	31.1	543	158.4	1965	17.8	295	10	..	1965	17.7
1901	111292	3230	29.0	578	178.0	2061	18.6	348	20	..	2053	18.4
1902	112102	3646	32.5	554	151.0	2021	17.8	379	32	..	1989	17.7
1903	113343	3516	31.0	548	155.8	1937	17.0	119	32	35	1940	17.1
1904	114814	3805	33.1	688	180.8	2282	19.8	163	27	24	2244	19.5
1905	116040	3707	31.9	481	129.0	1833	15.7	135	22	31	1811	15.5
1906	117203	3733	31.8	565	151.3	2078	17.7	152	28	30	2050	17.4
1907	118441	3727	31.4	410	110.0	1829	15.4	135	17	31	1812	15.2
Averages for years 1898-1907	112683	3567	31.5	564	158.6	2020	17.8	233	20	..	2002	17.6
1908	119692	3775	31.5	516	136.6	1929	16.1	160	14	36	1915	15.9

Vital Statistics of separate Localities in 1908 and previous years.

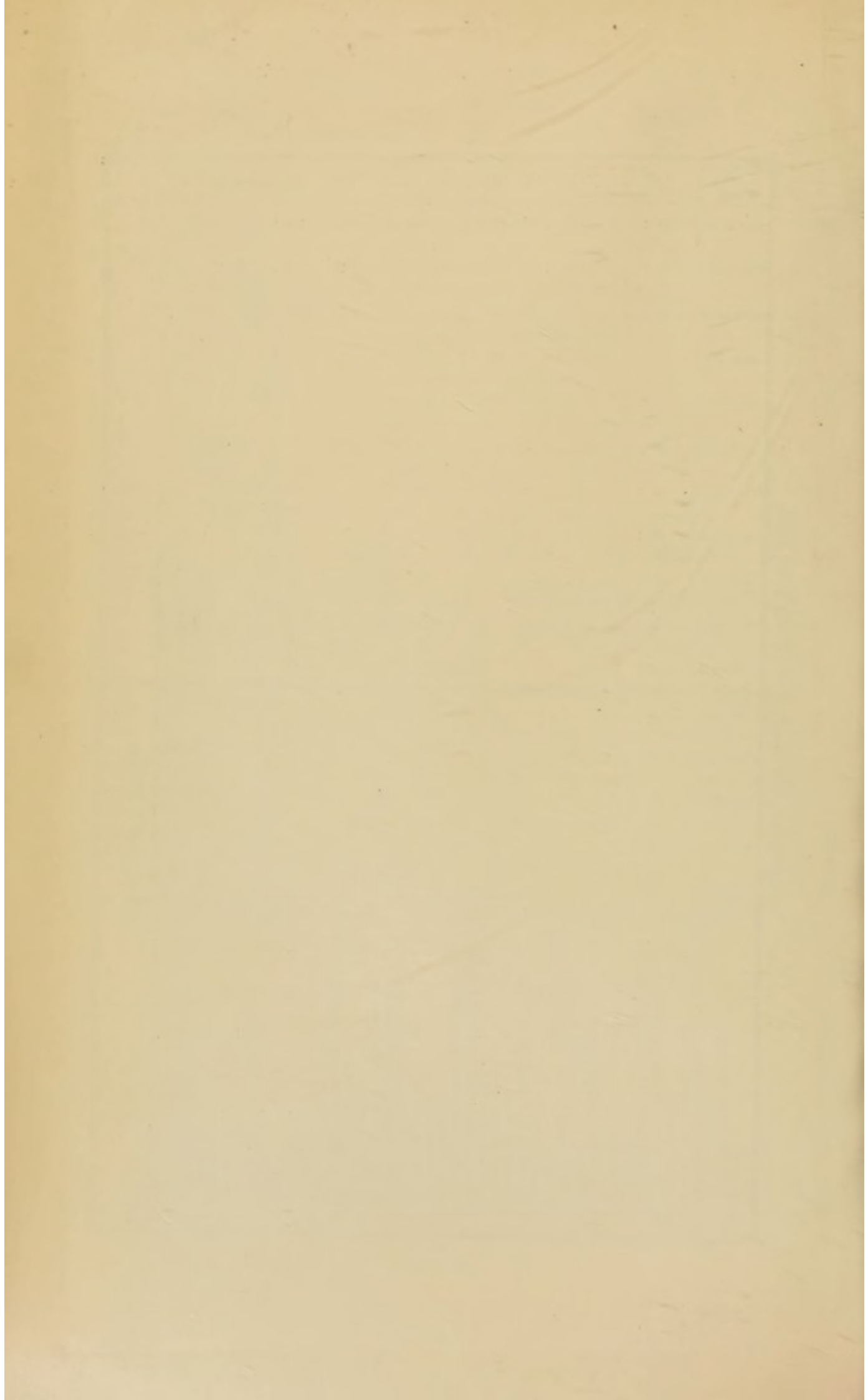
Year	BIRKENHEAD (whole Borough)				BIRKENHEAD SUB-REGISTRATION DISTRICT				TRANMERE				OXTON				CLAUGHTON				BEBINGTON				UNION WORKHOUSE			
	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population estimated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year
1898	107755	21321980	641	425	60802	21541132	425	35616	1039	549	178	4516	64	49	6	3809	76	52	13	2853	38	17	3	..	41	173	16	
1899	108894	34512214	640	428	61198	21501285	428	36352	1091	580	186	4537	64	39	7	3850	58	41	7	2956	47	37	5	..	41	211	7	
1900	110042	34281965	543	342	61321	21051067	342	37108	1124	584	170	4559	45	43	4	3891	72	47	9	2963	41	25	6	..	41	189	12	
1901	111204	32202061	578	379	61832	19511177	379	37888	1071	565	178	4583	51	41	2	3930	89	32	6	2971	38	21	1	..	30	217	12	
1902	112102	26462021	554	355	61936	22041156	355	38584	1209	517	162	4595	57	44	5	3957	99	38	7	2973	29	18	8	..	48	216	15	
1903	113033	22261567	548	342	62732	21131080	342	39034	1173	535	178	4634	57	25	2	3998	91	43	10	2975	37	31	0	..	45	213	16	
1904	114814	38052282	688	416	63738	22841300	416	39417	1292	630	225	4629	51	28	10	4043	84	56	17	2977	40	32	4	..	54	236	16	
1905	116040	37071833	481	298	64585	21851015	298	39455	1269	479	142	4791	48	40	5	4101	109	44	9	3108	40	35	4	..	56	220	23	
1906	117203	37332078	563	331	65236	21881181	331	39847	1265	521	162	4839	65	44	5	4142	127	64	11	3139	44	27	3	..	44	241	23	
1907	118441	37271829	410	270	65925	21591021	270	40268	1250	475	116	4890	45	33	1	4186	145	50	9	3172	64	32	6	..	64	217	8	
Average of years 1898 to 1907	119683	35672020	564	361	62962	21491142	361	38356	1180	544	169	4654	54	38	4	3990	95	46	9	3018	41	27	4	..	50	229	15	
1908	119692	37751925	516	295	66622	2119084	295	40633	1252	559	178	4941	47	35	3	4230	221	73	16	3206	48	25	2	..	58	253	22	

Causes of, and Ages at, Death during Year 1908.

CAUSES OF DEATH.	DEATHS IN OR BELONGING TO WHOLE DISTRICT AT SUBJOINED AGES.						DEATHS IN OR BELONGING TO LOCALITIES AT ALL AGES.					TOTAL DEATHS IN PUBLIC INSTITUTIONS IN THE DISTRICT			
	All ages	Under 1 year	1 and 5 under	5 and 15 under	15 and 25 under	25 and 65 under	65 and upwards	Wholesale	Birkenhead	Tranmere	Cloughton		Oxton	Bebington	Workhouse
Chickenpox	1	1						1	1						1
Smallpox	1							1							
Measles	44	11	31	2				44	25	19					3
Scarlet fever	6		5	1				6	3	3					
Whooping-cough	60	27	32	1				60	25	35					3
Diphtheria and membranous croup	13	1	7	5				13	9	4					2
Croup	3	1	2					3	3						
Fever { Typhus	9			1	4			9	5	3					3
{ Enteric	2		1	1				2	2	2				1	
{ Other continued	25		1	5	9	10		25	12	8	2	1	2		
Epidemic influenza															
Cholera															
Other Zymotic Diseases	5	4				1		5	2	1				2	
Diarrhoea	94	67	24	2				94	72	21	1				3
Enteritis	21	15	3					21	9	10			1	1	
Puerperal fever	3							3	1				1	1	
Erysipelas	4							4	2	1				1	
Phthisis (Pulmonary Tuberculosis)	151		3	4	24	116		151	58	27	7	2	5	52	
Other tubercular diseases	64	23	16	10	4	11		64	33	18	1		3	12	7
Cancer, malignant disease	101							101	47	25	4	3	2	20	10
Bronchitis	156	47	11	1				156	99	36	5	6	1	9	6
Pneumonia	185	51	55	7	7	43		185	111	56	1	1	1	15	17
Pleurisy	4							4	1	3					
Other diseases of Respiratory Organs															
Alcoholism—Cirrhosis of liver	20							20	9	7	2			2	
Veneral diseases															
Premature birth	81	81						81	34	33	8	1	1	4	4
Diseases and accidents of parturition															
Heart diseases	140	7	5	6	5	70		140	66	46	6	3	3	16	13
Accidents	16		2		1	12		16	10	4				2	11
Suicides	2					2		2	2						1
All other causes	704	180	69	31	15	198	211	704	331	196	36	18	8	115	76
All causes	1915	516	267	72	67	595	398	1915	970	559	73	35	25	253	160

Infantile Mortality during the year 1908.

CAUSE OF DEATH.	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 1 month	1-2 mos.	2-3 mos.	3-4 mos.	4-5 mos.	5-6 mos.	6-7 mos.	7-8 mos.	8-9 mos.	9-10 mos.	10-11 mos.	11-12 mos.	Total Deaths under 1-yr
	All Causes :—	80	20	20	20	140	62	56	49	31	31	23	27	15	21	30	28	513
Certified	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	9
Uncertified .. .. .	..	..	..	..	..	62	56	48	31	31	23	27	15	21	30	28	504
Common Infectious Diseases :—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Smallpox .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chickenpox .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria and membranous croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping Cough .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoeal Diseases :—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhoea, all forms .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteritis, Muco-Enteritis and Gastro-Enteritis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gastritis, Gastro-intestinal Catarrh .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wasting Diseases :—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Premature Birth	54	6	9	7	76	3	2	1	..	..	..	..	..	..	..	..	81
Congenital Defects	7	..	1	1	9	3	1	..	..	..	..	..	..	..	..	..	17
Injury at Birth .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Want of Breast Milk : Starvation	3	1	1	..	5	..	..	..	..	..	..	..	..	..	..	..	..
Atrophy, Debility, Marasmus	3	5	3	3	14	17	12	7	4	3	1	1	2	..	2	1	64
Tuberculous Diseases :—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuberculous Meningitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuberculous Peritonitis : Tabes Mesenterica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Causes—	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Syphilis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rickets .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Meningitis (not tuberculous) .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Convulsions	1	1	..	..	3	3	3	1	2	1	1	1	..	3	1	1	11
Bronchitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Laryngitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	1	1	1	1	4	5	6	7	2	2	2	6	1	5	3	6	51
Suffocation, overlaying	5	..	1	1	7	1	2	2	1	1	2	2	..	..	..	..	16
Other Causes	7	5	1	1	14	6	6	5	2	1	2	1	2	3	1	..	43
	81	20	20	20	141	63	56	50	31	31	23	27	15	21	30	28	516



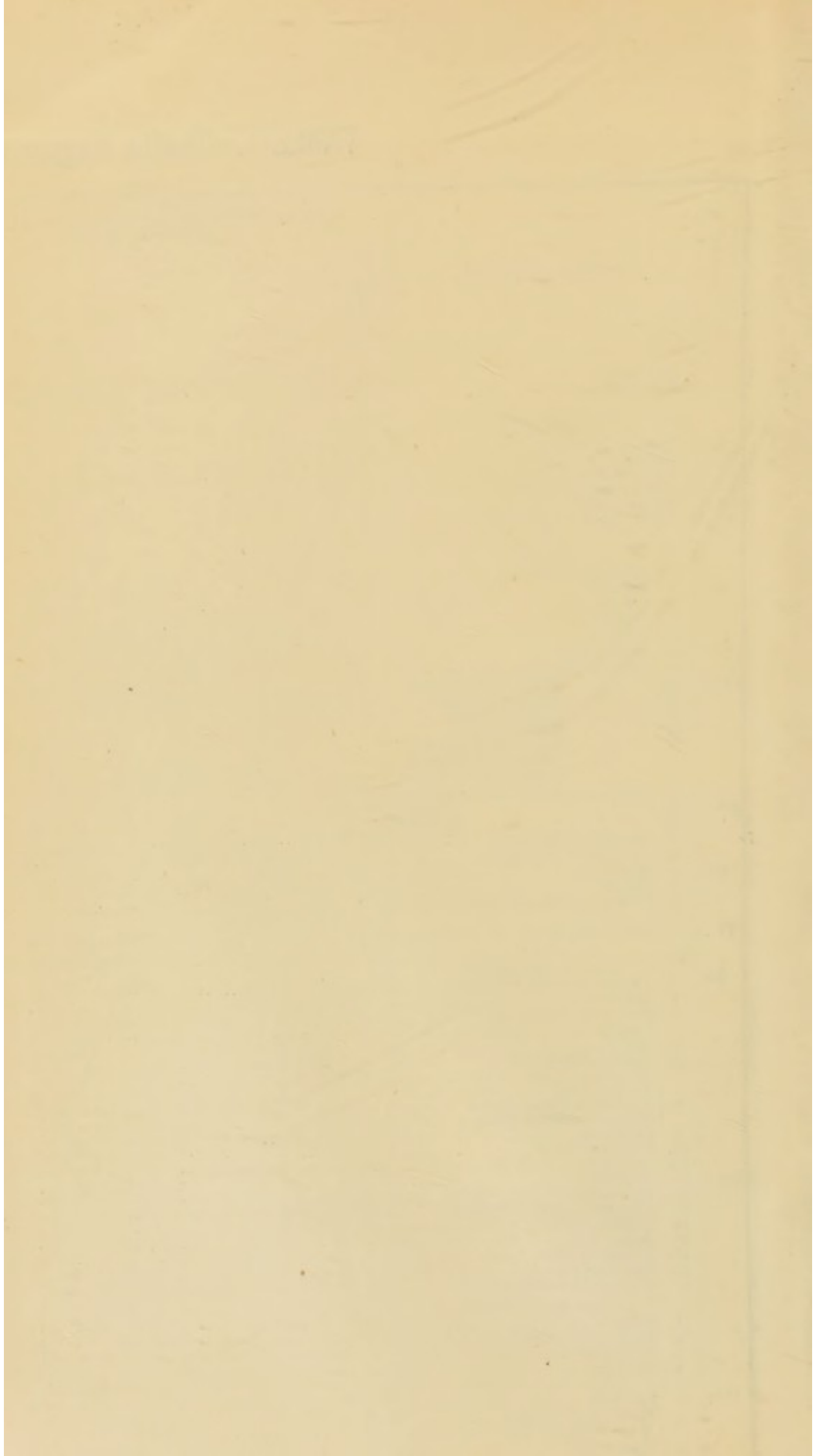
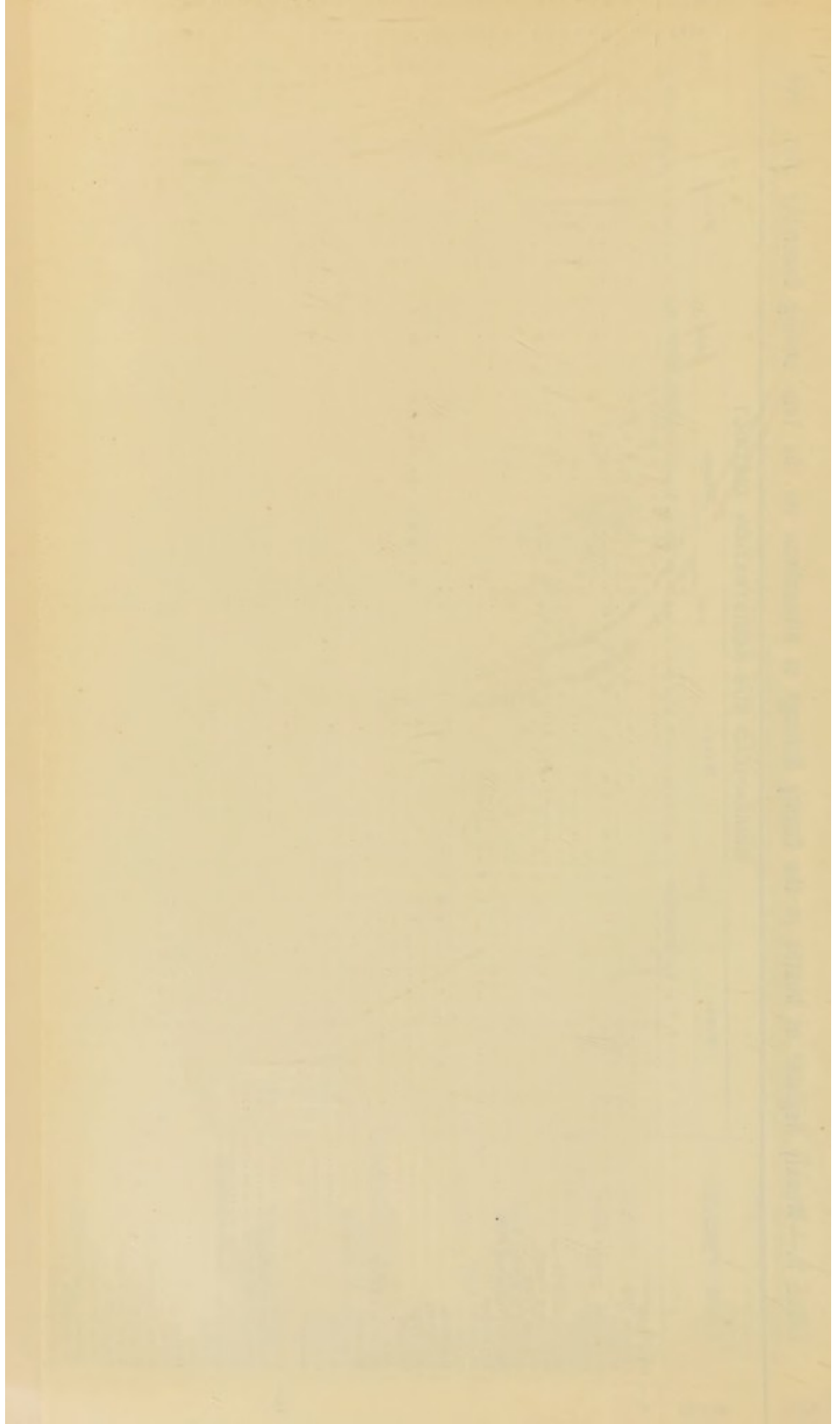


TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the Year ending December 31st, 1918.

CLASS	CAUSE OF DEATH	WEEKS.							TOTAL FOR YEAR
		1	2	3	4	5	6	7	
I.	Small pox								1
	Cholera								1
	Scarlet fever								1
	Diphtheria								1
	Measles								1
	Whooping cough								1
	Membranous croup								1
	Typhoid fever								1
	Typhus fever								1
	Septicæmic fever								1
	Septicæmic fever								1
	Septicæmic fever								1
	Septicæmic fever								1
	Septicæmic fever								1
	Septicæmic fever								1
II.	Fracture of pelvis								1
	Fracture of femur								1
	Fracture of humerus								1
	Fracture of radius								1
	Fracture of ulna								1
	Fracture of tibia								1
	Fracture of fibula								1
	Fracture of scapula								1
	Fracture of clavicle								1
	Fracture of sternum								1
	Fracture of vertebrae								1
	Fracture of ribs								1
	Fracture of skull								1
	Fracture of jaw								1
	Fracture of hand								1
III.	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
	Myelitis								1
IV.	Fracture of pelvis								1
	Fracture of femur								1
	Fracture of humerus								1
	Fracture of radius								1
	Fracture of ulna								1
	Fracture of tibia								1
	Fracture of fibula								1
	Fracture of scapula								1
	Fracture of clavicle								1
	Fracture of sternum								1
	Fracture of vertebrae								1
	Fracture of ribs								1
	Fracture of skull								1
	Fracture of jaw								1
	Fracture of hand								1
V.	Fracture of pelvis								1
	Fracture of femur								1
	Fracture of humerus								1
	Fracture of radius								1
	Fracture of ulna								1
	Fracture of tibia								1
	Fracture of fibula								1
	Fracture of scapula								1
	Fracture of clavicle								1
	Fracture of sternum								1
	Fracture of vertebrae								1
	Fracture of ribs								1
	Fracture of skull								1
	Fracture of jaw								1
	Fracture of hand								1

Total 1,114

Note.—The weeks end January 7th, 14th, 21st, &c., the last week in the year includes one day extra.



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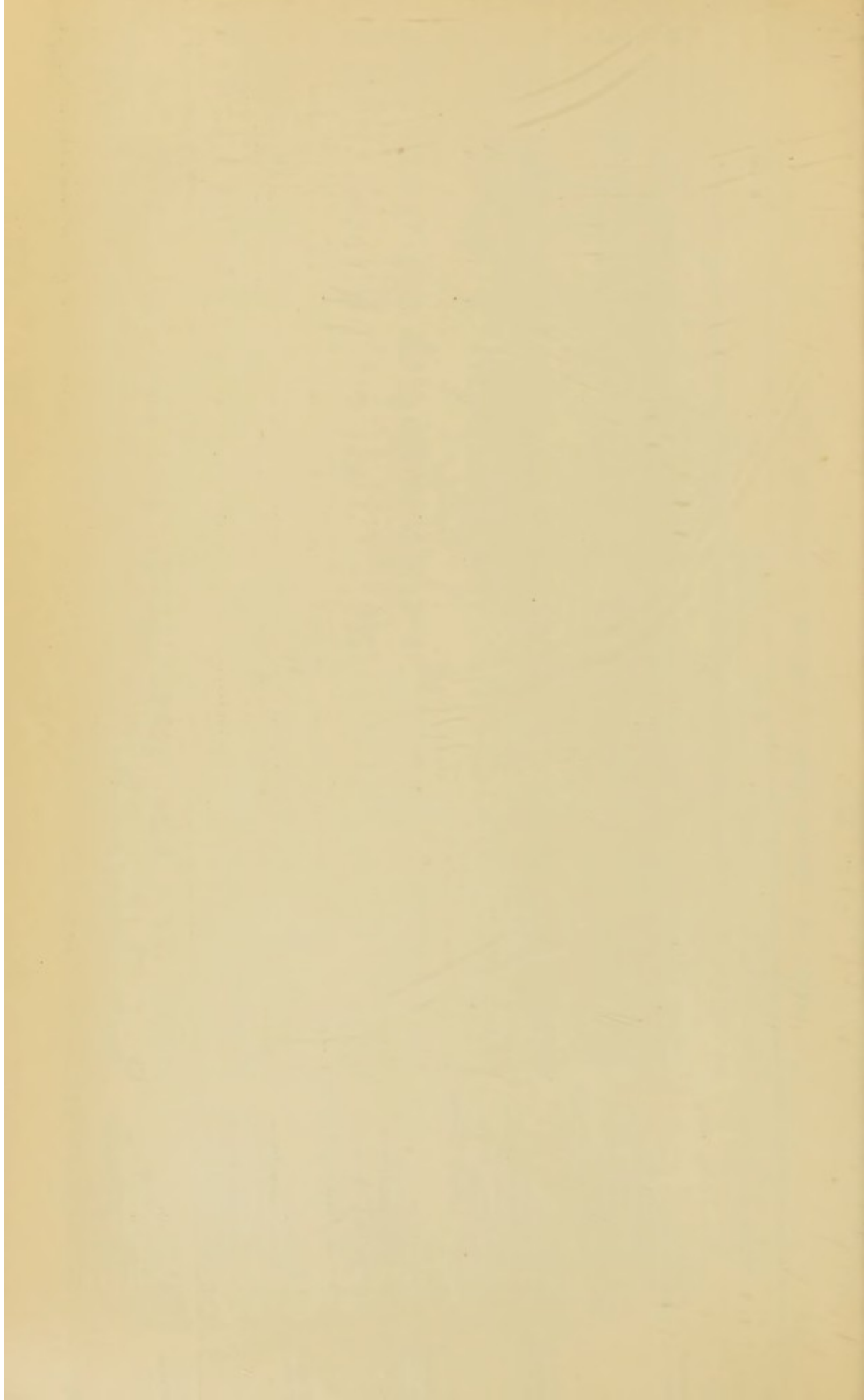
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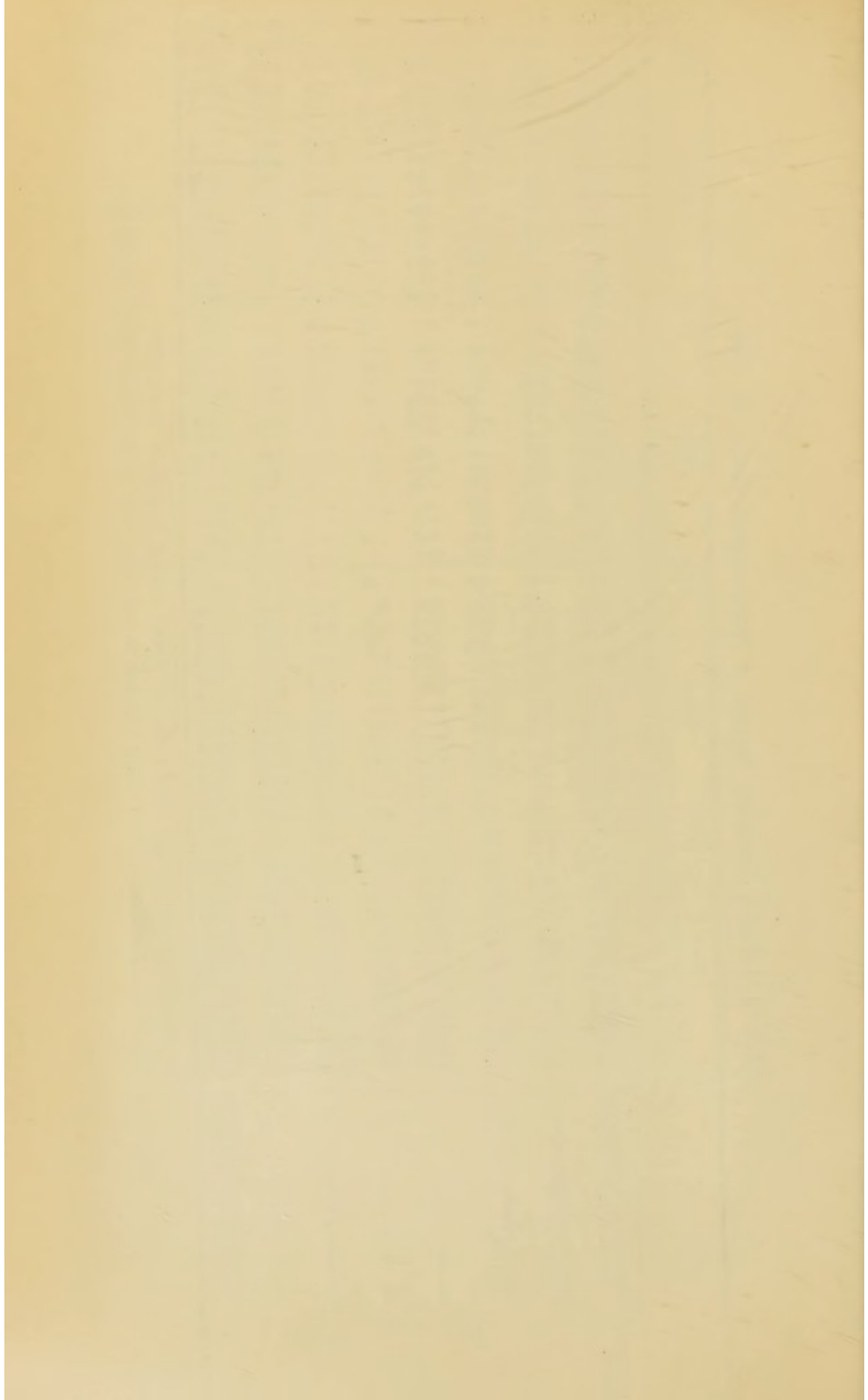


TABLE V.
STREET REGISTER OF DEATHS.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Abbey street			Back Livingstone street	1	1
Abbey terrace			Back Oliver street ..	1	
Abbot street	2		Back Oxtou road ..		
Aberdeen street.. ..			Back Pilgrim street ..		
Ackworth place.. ..			Back Portland street ..		
Adelaide road	1		Back Price street ..	1	1
Adelphi street	2	1	Back St. Anne street ..	3	
Albany Road	1		Balls road		
Albert place	4		Balls road east		
Albert road	2		Bankville road	1	
Albert street	2		Banning street	3	
Albert terrace			Barnard road	1	
Albion street	4		Barnston street.. ..	2	
Albion terrace			Barton street	1	
Allcot avenue			Baytree road	1	
Alexandra road.. ..	2		Beaconsfield road ..	1	1
Alexandra drive ..			Beaufort road	2	
Alfred road	2	1	Bebington road.. ..	3	
Alison street			Beckwith street . ..	21	2
Allerton grove	1		Bedford place	4	
Allerton road	2		Bedford road	13	2
Alma street			Bedford street	1	
Alton road	1		Beech road	1	
Alvanley place	1	1	Beech view (Sydney terr		
Alverstone avenue ..	4		Belgrave terrace ..	1	
Anglesea terrace ..	1		Belmont grove	1	
Apple grove			Bennetts hill	2	
Argyle street	2		Bentinck place	4	
Argyle street south ..	5		Bentinck street	10	1
Arno road	1		Bentinck terrace ..	1	
Arnside road	1		Bentley road	1	
Arrow place	1	1	Beresford road	3	
Arthur street	8		Berner street	1	
Ash road	1		Berry street	3	
Ashburton road.. ..	1		Bertha street	4	1
Ashford road	1		Bessborough road ..	1	
Ashley street			Bidston road	2	
Ashville road	1		Birch road	1	
Aspendale road	4	1	Birkenhead park ..	1	
Aspinall street	7		Blackpool street ..		
Asquith Avenue	1		Blanford street ..		
Atherton street	1		Blucher street	5	3
Athol street	1		Bold street	4	2
Athol terrace			Booth street	2	2
Back Beckwith terrace..	1		Borough road	27	4
Back Camden street ..	3	2	Boundary road		
Back George street ..					

TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Braid Street ..	1		Charlecombe street ..	1	
Brandon cottages ..	1		Charles street ..		
Brassey street ..	3	1	Charlesville ..	2	1
Brattan road ..			Chatham road ..	3	
Bray street ..			Chatsworth road ..	1	
Briardale road ..	4	1	Chesnut grove ..	2	
Bridge street ..	10	3	Chester street ..	7	1
Bridge End terrace ..			Christchurch road ..	1	
Bright street ..	1		Church place ..	1	
Brill street ..	3		Church road ..	5	2
Brimstage street ..	2		Church street ..	5	
Brook place ..	2		Church terrace..	1	
Brook square ..	1	1	Churchill avenue ..		
Brook street ..	27	4	Circular road ..	2	
Brookland road ..			Clare street ..	2	
Broom Hill ..	1		Clarence road ..		
Brougham street ..	11	6	Clarendon street ..	3	
Brunswick street ..	1		Cloughton firs ..	5	
Budworth road ..			Cloughton place ..		
Bulwer street ..	1		Cloughton road..	15	4
Burton Street ..	1		Clayton street ..	1	
Buxton road ..	1		Cleveland avenue ..	1	
Caerwys grove ..			Cleveland street ..	16	1
Cambridge place ..	5	1	Clifford street ..	4	
Camden street ..	9	1	Clifton crescent ..	3	1
Campbell terrace ..	1	1	Clifton road ..	2	
Camperdown street ..	1		Club row ..		
Canning street ..			Ciwyd street ..		
Canterbury road ..	2		Clyde street ..		
Cardigan street...	2		Colden place ..		
Carlisle street ..	2	1	Cobden street ..	8	
Carlton mount ..	1		Coburg street ..	1	
Carlton road ..	2		Collingwood street ..	1	
Carnforth street ..	4	2	Columbia road ..		
Carnforth terrace ..	2		Combermere terrace ..		
Caroline place ..	2		Comet street ..	3	
Carpenter's row ..			Connaught street ..	2	
Castle street ..	4		Connor's court ..		
Cathcart street ..	11	2	Conway place ..	1	
Catherine street ..			Conway street ..	14	1
Cavendish drive ..	2		Cook street ..	1	
Cavendish road..			Corinthian street ..	1	
Cavendish street ..	1		Corporation road ..	5	
Cearns road ..	3		Cottage street ..	2	1
Cedar street ..			Coventry street..	1	1
Challis street ..			Cranbourne avenue ..	1	
Chamberlain street ..	1		Craven place ..	2	
Chapel place ..			Craven street ..	9	
Chapel square ..			Crofton road ..	2	
Chapel street ..	4	1	Crown street ..	2	

TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Croxteth street ..	1		Falcon road ..		
Cumberland place ..	2	1	Fairclough lane ..		
Cyprus street ..			Fairfax road ..	4	
Dacre street ..	6	1	Fairfield road ..	1	1
Dale street ..			Fairview road ..	1	
Davies street ..	3	1	Farm road ..	5	1
Dee street ..	3		Fearnley road ..	1	
Dell road ..			Field street ..	5	2
Derby park ..			Flamank street ..	5	
Derby road ..	8		Flaybrick hill ..		
Derby street ..	3	1	Flint street ..	4	
Derwent road ..			Florence street ..	1	
Devonshire road ..	1		Fore street ..		
Dial road ..	1		Forest road ..		
Dingle road ..	2		Fountain street ..	3	
Donegal street ..			Fox street ..	3	
Douglas street ..			Francis avenue ..		
Dover street ..	4		Frederick street ..	3	1
Downham road ..	4		Frodsham street ..	2	
Duke street ..	6		Garfield place ..	1	1
Duncan street ..			Garner's place ..		
Dundonald street ..			Garnet street ..	1	
Eagle court ..			George street ..	5	1
Earl street ..	5	1	German ter. (Price st.) ..	1	
Eastbourne road ..	2		Gertrude street ..		
Eastham street ..	2	1	Getley street ..	4	
Ebenezer street ..	3	1	Gladstone road ..	5	1
Edgar street ..	3		Gladstone street ..	7	2
Egerton park ..	3		Glasgow street ..		
Egerton road ..	1		Glover street ..	1	
Egerton street ..	1	1	Gomer street ..	2	
Eldon place ..	7	4	Gordon street ..	1	1
Eldon road ..	1		Gore street ..		
Eldon street ..	3		Gothic street ..	2	
Elgin street ..	7	1	Grace street ..	2	
Elizabeth place ..			Grace terrace ..		
Elm grove ..			Grange mount ..	2	
Elm road ..			Grange place ..	1	
Elm street ..			Grange road ..	4	
Elmswood road ..	6	1	Grange road west ..	3	
Enfield terrace ..			Grange street ..		
Erskine street ..	3	1	Grasville road ..	3	
Esplanade south ..			Green lane ..	4	1
Etna street ..			Green lawn ..	1	
Eton place ..			Greenbank road ..	5	
Euston grove ..	2		Greenfield street ..		
Evan's court ..			Greenway road ..	4	
Evan's place ..			Grenville road ..	4	1
Exmouth street ..	8	2	Grosvenor place ..		

TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only	STREETS.	Total from all Causes.	From Zymotic Diseases only
Grosvenor road ..	..		Holt road ..	5	
Grosvenor street ..	4	2	Holt terrace ..	..
Grosvenor terrace ..	..		Hope street ..	1	
Grove mount ..	..		Horatio street ..	..
Grove road ..	6		Hornby street ..	1	
Haddon road ..	1		Houldin's place ..	..
Halcyon road ..	3		Howard street ..	1	
Haldane avenue ..	1		Howbeck road ..	..
Hamilton lane ..	..		Howe street ..	2	
Hamilton square ..	3		Howson street ..	5	
Hamilton street ..	2		Hoylake road ..	1	1
Hamilton view ..	1		Hughes' buildings ..	1	
Hampden grove ..	..		Huskisson street ..	1	1
Hampden road ..	..		Ingestre road ..	2	
Hampton street ..	..		Ivy court ..	..
Harcourt street ..	1		Ivy street ..	4	
Harland road ..	3		Ivydale road ..	1	
Harriet street ..	..		James street ..	1	
Harrowby road ..	8	1	Jessamine road ..	2	
Harrowby road south ..	1		Jackson street ..	3	2
Hartington Avenue ..	..		Keightley street ..	1	
Hatherley street ..	1		Kellett's place ..	1	
Havelock street ..	2		Kelvin road ..	..
Hawarden avenue ..	3		Kimberley street ..	1	
Haymarket ..	1		Kent place ..	2	1
Hazel road ..	3	1	Kent street ..	..
Heath bank road ..	1		King street ..	1	
Heath terrace (Bennett's hill)	..		King's mount ..	3	1
Helmingham road ..	3		Kingsland road ..	2	
Hemingford street ..	..		Kingsmead road north ..	..
Hemingford terrace ..	..		Kingsmead road south ..	..
Henry street ..	7	1	Kipling avenue ..	2	1
Henthorne street ..	1		Kinmel street ..	4	1
Herbert place ..	1		Kirkland avenue ..	2	
Highfield crescent ..	2		Knowles street ..	..
Highfield grove ..	1		Kylemore road ..	1	
Highfield grove north ..	4	1	Laird street ..	7	1
Highfield road ..	4		Lansdowne road ..	..
Highfield south ..	1		Larch road ..	5	1
Hilbre street ..	4	1	Laurel road ..	1	
Hilton street ..	6		Laxey terrace ..	..
Hind street ..	5		Lee's avenue ..	1	
Hindertons road ..	2		Leicester street ..	6	2
Holborn hill ..	3		Leicester terrace ..	..
Holborn square ..	3	1	Leighton road ..	..
Holly bank road ..	..		Leinster street ..	1	1
Holme lane ..	1		Leta street ..	2	1
Holt hill ..	2		Lever terrace ..	..
Holt hill terrace ..	..		Lilly street ..	2	2
			Lingdale road ..	1	

TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Lingdale road north ..			Milner street ..	2	
Linwood road ..	2		Milton road ..	2	1
Livingstone road ..	4		Milton street ..	2	
Livingstone street ..	4	1	Miriam place ..	1	
Liversidge road ..	1		Mollington street ..	6	5
Lord street ..	5	1	Mona street ..	3	
Lorn street ..			Moon street ..	5	1
Lowe street ..	1		Moorland road ..	4	1
Lower Ivy street ..	1		Moreton street ..	2	1
Lower George street ..			Morecroft road ..	1	
Lowther street ..	3		Morley avenue ..		
Lowwood grove ..	1		Mornington street ..	5	1
Lunar street ..	2		Morpeth buildings ..	7	1
Lydia terrace ..	1		Mortimer street ..		
Lloyd avenue ..	2	1	Moss grove ..	1	
Lynas street ..	1	1	Mount grove ..	5	
Maddock street ..	1		Mount Pleasant ..		
Maple street ..	1	1	Mount road ..	3	
Mallaby street ..	1		Mount street ..	1	
Manor hill ..	1		Munster street ..	3	2
Manor road ..			Myrtle court ..	1	
Marcus street ..			Myrtle place ..	1	
Marion grove ..	1	1	Myrtle street ..	3	
Marion street ..	5		Napier street ..	2	1
Market street ..	7	1	Nelson road ..	2	
Marlborough grove ..	1	1	Nelson street ..	3	
Marquis street ..			Nelson place ..	1	
Marsden villas ..			Neptune street ..	1	1
Marshall place ..			Neston street ..	3	
Mason's court ..			New Chester road ..	10	1
Mason street ..	2	1	Newling street ..	2	
Mather road ..			Newton street ..		
Maybank road ..	3	1	Norman street ..	1	
Meadow lane ..	7	1	North road ..		
Meadow place ..			Oak street ..	5	2
Meadow street ..	2		Oakfield view ..	2	
Medway road ..	1	1	Oak tree cottages ..	1	
Mellor road ..			Oak tree place ..	2	
Menai street ..	2	1	Old Bidston road ..	11	1
Mersey lane south ..			Old Chester road ..	17	4
Mersey road ..	2	1	Old Priory ..		
Mersey street ..			Olive crescent ..	1	
Merton place ..	1		Olive mount ..	3	
Meteor street ..			Oliver place ..	2	1
Methuen street ..			Oliver street ..	17	
Midland street ..	1		Orchard road ..	3	1
Mill street ..	1		Orderly avenue ..		
Miller's place ..	3	1	Orderly home ..		
Millbank cottages ..					

TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Orderly place			Quarry bank street		
Oriel road	5	1	Queen's buildings (Ato K)	16	2
Osborne road	2		Queen's Buildings (Tran)	1	1
Osmond street	5		Queen's place	2	
Oxton road	9		Queen's street	3	
Palm hill	2		Queensbury street		
Palmerston street	1		Quigley street		
Parkfield avenue	25		Radnor place	2	
Parkfield place			Raffles road	4	
Parkside road	4	2	Railway road	4	2
Park grove	1		Randle street	2	
Park road	2		Ravenscroft road	2	
Park road east	2		Rawcliffe road	2	
Park road north	10		Redmond street		
Park road south	2	1	Reedville	4	
Park road west			Rhoden's place		
Park street	5	1	Rhyl street	3	
Parr's lane			Richmond cottages		
Paterson street	5		Richmond terrace	1	
Patten street	3	1	Ridley street	3	1
Payson street	6	1	Rimmer's court	1	
Pearson road	1		Ripon street		
Peel street	7	3	Roberts street	3	1
Pensby street	1		Rochester road	4	1
Penrith street	1	1	Rock lane east	1	
Percy place			Rock lane west	2	2
Pilgrim street			Rock park	2	
Pitt street	2		Rockville street	3	
Planet street	1		Rocky bank road	1	
Pleasant street	4		Rodney street	7	1
Plymouth place			Roe street	2	
Pool street	2	1	Romilly street	2	1
Poplar grove			Rose brae	1	
Post Office place	1		Rose cottages	1	1
Powell street	1		Rose mount	2	
Prenton road east			Rose place	1	1
Prenton road west	1		Rose street	3	2
Price street	30	7	Rosedale road	2	
Prince Edward street	1	1	Roslyn street	3	1
Princes place	5	1	Rowland street	1	
Princes street			Rundle street	3	
Princes terrace			Ruskin avenue		
Princess terrace	1		Russell place	2	1
Priory street	2		Russell road	12	3
Prospect place	2	1	Russell street	1	
Portland street	2		St. Andrew's road		
Plumer street	1		St. Anne street	29	6
Quarry bank	1		St. Anne's terrace		
Quarry bank place	4	2	St. George's avenue		

TABLE V.— *Continued.*

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
St. John street ..			Stewart's place ..	3	2
St. Mary's street ..	1		Stewart street ..		
St. Mary's avenue ..	1		Stoke street ..	2	
St. Mary's gate ..			Storeton road ..	2	
St. Paul's place ..	2		Stuart road ..	3	
St. Paul's road ..	12	4	Sun street ..	6	
St. Peter's road ..			Sussex street ..	2	1
Salem view (Storeton rd.)	1		Swan's court ..		
Salisbury street ..	4	1	Swan's place ..		
Sandy Way ..	1		Sycamore road ..	1	
Sandford street ..			Talbot road ..		
Saxon street ..	2		Tatton road ..	1	
School place ..	5		Taylor's buildings ..		
Scott's place ..			Taylor street ..	2	
Sea bank cottages ..	1		Temple road ..	1	
Sea bank road ..			Tennyson Avenue ..	1	
Seaton road ..	1		Thomas court ..	1	
Sefton road ..			Thomas street ..	9	1
Seymour street ..	2	1	Thompson street ..	1	
Shakespeare avenue ..	1	1	Thornton Street ..	1	
Shaw place ..	2	1	Tollemache road ..	2	
Shore road ..			Tory place ..		
Shotwick street ..	1		Tower hill ..		
Shrewsbury road ..	4	1	Tower road ..	1	
Shrewsbury road north ..			Trinity street ..	2	
Sidney buildings ..			Tudor road ..	2	1
Sidney road ..	4	2	Tunnel road ..	1	1
Sidney street ..	1		Turner street ..	1	
Sidney terrace ..	1	1	Union street ..	6	1
Silverdale road ..	2		Upper Beckwith street ..	1	
Simpson street ..			Upper Brassey street ..	2	
Slaty road ..	7		Upton road ..	3	
Somerville street ..	4	2	Vernon place ..		
South bank ..	1		Vicar's court ..		
South hill road ..	4		Victoria drive ..		
South Reserve ..			Victoria mount ..		
South road ..			Victoria road ..	8	1
Southwick road ..	2	2	Village road ..	2	
Spring street ..			Village terrace ..		
Spring villas ..			Vincent street ..		
Stafford street ..	2	1	Vine street ..	7	3
Standard place ..	1		Vittoria street ..	11	3
(St. Paul's road)			Vulcan street ..	3	
Stanley court ..	1		Walker place ..	1	
Stanley place ..			Walker street ..	1	
Stanley road ..			Walton street ..	1	
Stanley street ..			Varing avenue ..		
Stanway place ..			Varrington street ..		
Star street ..	1		Warwick street ..	4	

TABLE V.—Continued.

STREETS.	Total from all Causes.	From Zymotic Diseases only.	STREETS.	Total from all Causes.	From Zymotic Diseases only.
Water street	5		William street	7	2
Waterford road.. ..	1		William's cottages	1	
Waterloo place	1		Willmer road	4	
Watson street	6	2	Willow bank road	3	
Waverley grove	1		Willow street		
Well lane	2		Willy street	2	1
Wellesley street	3	1	Wilson street	1	
Wellington road	1		Wilton road		
Wellington terrace	1		Wilton street	1	
Wesley street	2		Windsor place		
Wesley terrace			Windsor street	3	
West view	2	1	Wirral street	1	
West bank road	3		Woburn place	1	
Westbourne road	4	2	Wood street	7	5
Westbury street	2	1	Woodchurch lane	1	
Westminster road	3		Woodchurch road	7	
Wexford road			Woodland avenue		
Whalley road			Woodlands grove		
Whetstone lane	4		Woodlands road		
Whetstone view			Woodland terrace	3	2
White street	4		Woodlands	6	
Whitfield place.. ..	1		Woodville road	4	1
Whitfield street.. ..	2		Wordsworth avenue		
Whitford road			Wycherley road	3	1
Wilbraham street	1		Wycliffe street	2	
Wilbraham terrace			Wye street		
Wilkinson street	6		Yelverton road	4	1
Wilk's court			York place		
Willan street			Zetland road		
Willaston place.. ..	2				

SUPPLEMENT TO TABLE V.

**RETURN OF DEATHS in Birkenhead Union Hospital and
Workhouse during 1908.**

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Jan. 1	M	44	Car conductor ..	Phthisis pulmonalis	28-12-07 20 Parkfield av
4	F	56	Groom's widow ..	Phthisis pulmonalis	24 12-07 20 Clarendon st
3	F	62	Gen lab'rer's wife	Phthisis pulmonalis	4-2-07 36 Queen's place
6	M	36	Gen labourer ..	Cardiac disease ..	10-8-07 88 Woodc'h lane
9	M	72	Timber yard lab	Senile decay ..	18-10-07 66 Park street
6	F	40	Gen lab'rer's wid	Bright's disease ..	4 1-08 204 Chester street
12	M	63	Night watchman	Tuberculosis cancer	14-11-08 33 Brook street
10	M	71	Shipwright ..	Scalds	1-1-08 158 Oliver street
11	M	73	Army pensioner..	Diabetes	28-12-07 41 Rowland street
19	M	50	French polisher..	Bright's disease ..	17-1-08 75 Market street
21	M	55	Butcher's labourer	Bright's disease ..	15-1-08 3 Bridge street
22	F	68	Fireman's wife ..	Cerebral apoplexy..	14-10-03 3 Club row
24	F	54	Dec'd w'man dau	Phthisis pulmonalis	12-1-08 60 Roslyn street
25	M	61	Gen labourer ..	Cancer	9-1-08 28 Barnston st
25	F	74	Jam packer's wife	Brain disease ..	15-12-06 10 Fairfield road
23	F	3d	Dec painter's dau	Convulsions ..	20-1-08 43 Gladstone st
30	M	45	Iron erector's lab	Pneumonia	1-1-08 155 Green lane
28	M	68	Gardener	Strangul'td hernia	16-9-07 18 Roseberry grve
Feb. 3	F	35	Carter's wife ..	Cirrhosis of liver ..	8-11-07 109 Back Price st
4	M	58	Storekeeper ..	Cerebral apoplexy..	4-2-08 9 Sefton road
4	M	39	Cab driver	Heart disease ..	14-10-07 10 Waterloo place
1	M	9	Floor layer's son	Tabes mesenterica	24-12-07 17 Howard street
5	M	21	Gen labourer ..	Phthisis pulmonalis	16-12-07 12 Kellett's place
5	M	42	Gen labourer ..	Diabetes mellitus ..	26-8-07 Birkenhead
6	F	79	Stone mason's wid	Senile decay ..	6-12-07 9 Rose mount
8	M	47	Ship's steward ..	Cirrhosis of liver ..	4-2-08 74 Price street
12	F	76	Ship c'p'nter's wid	Senile decay ..	20-6-07 9 Churnill av
9	F	12h	— daughter ..	Premature birth ..	8-2-08 56 Church road
16	M	67	Bootmaker	Chron cere softening	30-7-07 9 Falcon road
17	M	44	Bl'ksmith's striker	Phthisis pulmonalis	31-1-08 159 St Anne st
14	M	50	Carter	Acute pneumonia ..	10-2-08 2 Waterloo place
19	F	54	Gen lab'rer's wid	Uraemia, coma ..	7-2-08 2 Camperdown st
21	M	84	Travelling draper	Senile decay ..	28-1-08 80 Bentinck street
20	F	49	H'se painter's wid	Cerebral apoplexy..	18-2-08 84 Cobden street
22	M	17	St'rek'per's as son	Phthisis pulmonalis	6-2-08 40 Yelverton road
22	M	65	Machine driller ..	Bronchitis	20-2-08 202 Beckwith st
20	F	78	C'p'nter's lab wid	Senile decay ..	12-1-01 88 Cobden street
21	F	60	Carter's widow ..	Phthisis pulmonalis	18-2-08 19 Bk St Anne st
28	M	62	Lairage labourer	Cerebral apoplexy..	7-9-07 28 G Queen's bdgs
29	M	70	Dock labourer ..	Strangulated hernia	13-7-07 173 Brook street
Mar. 3	M	58	Gen labourer ..	Cerebral apoplexy..	6-2-07 116 Brook street
3	M	32	Gen labourer ..	Phthisis pulmonalis	13-1-08 35 Abbot street
4	M	48	Gardener	Acute pneumonia ..	24-2-08 Tranmere
5	M	30	Seaman	Erysipelas	4-3-08 S.S. Gauzee, Bhd
6	M	62	Stonemason ..	Chronic bronchitis	12-10-06 2 Waterloo place
6	F	47	N't w'ehm'n's wid	Caries of spine ..	21-1-08 55 Old Bidston rd
5	M	16	Dec boilermk's son	Meningitis	1-3-08 22 Oaktree place
7	F	20d	Mar fireman's dau	Premature birth ..	16-2 08 56 Church road
12	F	73	Dock B'd lab wid	Morbus cordis ..	12-12-07 6 Cyprus street

SUPPLEMENT TO TABLE V.—Continued.

Date.	Sex	Age.	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Mar 13	M	76	Marine store carter	Senile decay, mania	22-2-08 26 Queen's place
15	M	35	No occupation ..	General paralysis ..	14-12-07 22 Russell road
16	M	56	Hospital porter ..	Phthisis pulmonalis	13-11-02 Kent place
18	M	37	Ship's fireman ..	Locomotor ataxia ..	25-4-06 27 Eldon place
18	M	55	Stonemason ..	Chron br'nchiectasis	12-3-08 34 D Queen's bdgs
22	M	44	Steam winchman	Phthisis pulmonalis	14-3-08 48 Roslyn street
24	M	51	Seaman ..	Abscess liver (oper'n)	30-7-07 12 Lorne street
28	M	49	Boiler cleaner ..	Phthisis pulmonalis	13-3-08 34 Leicester st
29	F	20	Dock lab's daughter	Phthisis pulmonalis	4-10-06 69 Bentinck st
April 2	M	38	Corporation lab..	Phthisis pulmonalis	23-3-04 38 Salisbury st
5	M	41	Water-main layer	Aneurism of abdom	30-3-08 10 Quarrybank pl
3	M	3m	Mar fireman's son	Malnutrition ..	23-3-08 10 Comet street
6	F	73	Bootmaker's wid	Senile decay ..	31-3-08 29 Lowther street
5	M	81	Dock labourer ..	Senile decay ..	31-10-02 7 Duncan street
13	F	65	Dec shipwr't's dau	Phthisis pulmonalis	7-12-75 Abbey street
11	M	53	Carter ..	Acute pneumonia ..	11-4-08 Birkenhead
10	M	57	Gen labourer ..	Bronchiectasis ..	1-4-08 Birkenhead
12	M	49	Gen labourer ..	Cardiac disease ..	3-2-08 13 Walker place
13	F	84	Farmer's widow..	Senile decay ..	10-3-08 163 St Anne st
13	F	1m	Servant's daugh	Congenital syphilis	26-2-08 56 Church road
17	F	64	Waterman's wid	Cerebral apoplexy..	11-4-08 54 Patten street
16	F	69	Dec stonem'n's dau	Carcinoma breast ..	9-9-07 1 Park view
19	F	36	Gen lab'rer's wife	Phthisis pulmonalis	31-3-08 6 Oakfield view
16	F	73	Gatekeeper's wid	Intestinal obstruct'n	6-3-08 128 Argyle street S
19	M	65	Army pensioner..	Bright's disease ..	19-3-08 66 Henry street
21	F	66	Gen lab'rer's wife	Senile decay ..	10-4-08 27 Greenway road
15	F	57	Farm lab'rer's wid	Bright's disease ..	9-1-08 30 Wfkinson st
19	F	70	Dock lab'rer's wid	Morbus cordis ..	9-11-01 16 Payson street
21	F	58	Dock lab'rer's wid	Morbus cordis ..	14-4-06 167 Brook street
21	M	2m	— son ..	Debility from birth	7-2-08 56 Church road
24	F	3m	Servant's daugh	Congenital syphilis	26-3-08 56 Church road
24	M	23	Fish hawker ..	Phthisis pulmonalis	7-4-08 3 Oakfield view
25	F	29	Dock lab'rer's wife	Phthisis pulmonalis	6-3-08 219 Market street
27	M	60	Commercial clerk	Phthisis pulmonalis	18-4-08 5 Spring villas
28	M	27	Coachman ..	Phthisis pulmonalis	3-4-08 31 Woodville road
May 1	M	11m	Seaman's son ..	Infantile convuls'ns	14-10-08 3 Hampton street
1	F	65	Pensioner's widow	Cerebral apoplexy..	1-2-08 33 Carnforth st
1	M	39	Gen labourer ..	Phthisis pulmonalis	23-4-08 5 Kent place
Apr. 29	M	37	Dock labourer ..	Syncope ..	6-6-02 Birkenhead
May 4	M	82	Slater & piasterer	Senile decay ..	13-11-00 6 Princes terrace
2	M	64	Tugboat seaman	Chron cere softening	30-8-07 53 St Anne street
7	F	83	Constable's widow	Bronchitis, senility	15-8-98 43 Gilbrook
Mar 25	F	74	Chandler's widow	Syncope ..	25-3-08 18 Lowther street
May 9	F	67	Book-keeper's wid	Acute pneumonia ..	6-5-08 2 G Queen's bdgs
11	F	76	Tinsmith's wife..	Carcinoma vulva ..	6-5-08 241 Price street
12	F	24	H'se painter's dau	Tubercular pleurisy	7-4-08 26 Parkside road
13	M	65	Watchman ..	Cellulitis feet ..	23-4-08 15 Sidney road
13	M	53	Brewer's drayman	Tuberculosis lungs	8-2-08 10 Hughes bldgs
13	F	68	Gardener's widow	Chron bronc asthma	22-9-06 20 Russell road
14	F	33	Labourer's wife..	Phthisis pulmonalis	27-3-08 16 Rowland street
17	M	12	Labourer's son ..	Rne'tic endocarditis	24-4-08 Albert Ind Schools
19	F	75	Master mar widow	Senile decay ..	16-12-07 32 Euston grove

SUPPLEMENT TO TABLE V—Continued.

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
May 19	M	16m	Carter's son ..	Tuber meningitis ..	31-2-08 13 Laxey terrace
19	M	74	Gen labourer ..	Chron bronchiect'sis	20-7-97 Birkenhead
16	M	3h	Soap wr'per's son	Premature birth ..	16-3-98 56 Church road
21	F	21	Dec pat make dau	Phthisis pulmonalis	2-5-08 All Saints' Home
25	F	45	Pro cricketer's wid	Phthisis pulmonalis	2-3-08 2 Rhodens place
21	F	26d	Dock lab daughter	Prem birth, convul	13-5-08 33 Arthur street
24	M	4m	Dock lab'rer's son	Gastro intest catarrh	15-4-08 7 Oak street
25	M	34	Gen labourer ..	Phthisis pulmonalis	6-1-08 3 Kendal street
27	M	27	Dock labourer ..	Phthisis pulmonalis	18-5-08 63 St Anne street
24	M	48	Gen labourer ..	Cancer of neck ..	14-8-07 17 Cambridge pl
27	M	17	— son ..	Spontaneous frac's	13-4-98 20 St Mary's gate
31	M	34	Stonemason ..	Phthisis pulmonalis	25-2-08 7 Canning street
June 2	M	64	Dock B'd platel'y'r	Epilepsy, card'c fail	22-5-08 315 Brook street
3	F	45	R'l'y clerk's wife	Delusional insanity	30-5-08 79 Watson street
4	M	57	Boilermaker ..	Phthisis pulmonalis	13-4-08 7 Bedford street
5	F	38	M'ch'e driller's w'f	Delusional insanity	23-4-08 6 Eagle court
9	M	47	Ironsmth's striker	Enteric fever ..	3-6-08 98 Oliver street
10	F	54	Dock lab widow..	Senile decay ..	16-4-08 35 St Anne street
8	F	48	Seaman's widow	Heart disease ..	25-5-08 66 Price street
13	F	17	Labourer's daugh	Phthisis pulmonalis	16-4-08 35 Carnforth st
14	M	36	Mec engineer ..	Phthisis pulmonalis	20-3-08 179 Church road
14	F	58	Farm lab widow	Chron cere softening	28-8-07 116 Old Bidston rd
15	F	80	Mec engineer's wid	Chron cere softening	30-11-97 13 Whetstone lane
16	F	72	Insurance ag wife	Carcinoma of bowels	22-5-08 102 Claughton rd
16	M	67	Leather cutter ..	Senile decay ..	9-6-08 56 Livingstone rd
17	M	75	Commercial clerk	Carcinoma of stom	4-6-08 12 Highfield road
17	M	67	Milk dealer ..	Paralysis ..	7-10-04 19 Cadisile street
22	M	55	Dock labourer ..	Phthisis pulmonalis	15-6-08 22 Wood street
22	M	44	Corporation lab..	Bronchial asthma..	22-6-08 26 Vine street
21	M	42	Boilermaker ..	Phthisis pulmonalis	10-2-08 30 Oliver street
25	F	36	Fr'l'y Soc Inspect'r	Acute mania ..	7-6-08 36 Highfield grove
28	F	40	Coalheaver's dau	Septicæmia ..	9-6-08 St Margaret's H.
30	F	81	Watchman's wid	Senile decay ..	23-3-97 43 Gilbrook street
July 2	M	56	Carter ..	Bright's disease ..	26-6-08 39 Payson street
2	F	8m	Farm lab daugh	Tabes Mesenterica	17-6-08 44 Bright street
4	M	57	Machine turner..	Bronchiectasis ..	14-6-08 29 Edgar street
Jun. 26	F	58	Charwoman ..	Carcinoma uteri ..	17-10-07 6 Keightley street
July 3	F	70	— wife ..	Bronchitis ..	17-12-01 4 Stoke street
8	F	75	Dec ship's ck's wid	Chron cere softening	29-7-04 14 Payson street
9	F	68	Flour dr as't wid	Senile decay ..	7-7-08 10 Chapel place
13	F	37	Gen lab'rer's wife	Phthisis pulmonalis	5-5-08 41 Meadow lane
13	M	34	Waterman ..	Chronic cystitis ..	8-7-08 1 Hamilton view
14	F	83	Tailor's widow ..	Senile decay ..	28-12-01 6 Penrith street
11	F	40	Gen lab'rer's wife	Cerebral apoplexy..	13-6-08 95 Brook street
15	M	70	Whitesmith ..	Senile decay ..	14-7-08 124 Conway street
18	F	63	Plater's lab wid ..	Heart disease ..	18-4-08 11 Priory place
23	M	30	Gen labourer ..	Phthisis pulmonalis	3-1-08 482 Cleveland st
29	M	36	Boilermaker ..	Perityphilitic abcess	25-7-08 3 Quarry bank pl
28	M	72	Carter ..	Acute pneumonia ..	17-8-00 Birkenhead
Aug. 1	F	42	Stonemason's wife	Phthisis pulmonalis	29-8-07 29 St Mary's gate
3	F	57	Dr'per's p't'rs wife	Carci'ma of sigmoid	24-7-08 13 Penrith street
4	M	3m	Gen lab'rer's son	Marasmus ..	29-7-08 1 Flamank street

SUPPLEMENT TO TABLE V.—Continued.

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Aug. 2	M	26d	Dock lab'rer's son	Debility ..	21-7-08 Birkenhead
5	M	75	Insurance agent	Chron cere softening	11-8-07 27 Borough road
7	M	77	Dock labourer ..	Chronic bronchitis	6-6-02 33 Mill street
7	M	47	Gen labourer ..	Gastro enteritis ..	7-8-08 17 Waterloo place
9	M	26	Marine fireman..	Fracture of spine ..	8-8-08 Birkenhead
11	M	58	Market porter ..	Phthisis pulmonalis	12-6-08 2 Waterloo place
13	F	68	Form w'hm'n wife	Cerebral apoplexy..	15-5-08 4 Wood street
12	F	53	Wine m'ch't's wid	Chron cere softening	15-9-05 109 St Anne street
15	M	34	Plater's labourer	Meningitis ..	6-4-08 4 Percy place
16	M	50	Gen labourer ..	Cere hæmorrhage ..	16-7-08 82 Cathcart street
17	F	47	Painter's widow..	Phthisis pulmonalis	8-7-08 62 Chestnut grove
21	M	47	Stonemason ..	Tubercular pleurisy	30-7-08 437 New Chester r
20	M	15	Dec w'term'n's son	Endocarditis ..	11-4-08 2 Stoke street
22	M	51	Corporation lab..	Phthisis pulmonalis	17-7-08 23 Woodville road
21	F	84	Shopkeeper's wid	Cere hæmorrhage ..	17-8-08 7a Heathfield rd
27	M	81	Form dockg'tem'n	Carcinoma arm ..	8-8-08 10 Combermere tr
31	M	68	Boilermaker ..	Carcinoma sigmoid	18-3-01 27 Warwick street
Sept. 1	F	19	Dock lab'rer's wife	Phthisis pulmonalis	13-5-08 20 Sun street
Aug 29	F	2m	— daughter ..	Hydrocephalus ..	8-6-08 56 Church road
Sept. 2	M	47	Gen labourer ..	Phthisis pulmonalis	17-8-08 53 Patten street
Aug 28	F	11	Dec lab'rer's dau	Tuber meningitis ..	18-8-08 14 Lunar street
Sept. 2	F	45	Dec lab'rer's dau	Pneumonia ..	29-3-94 5 Williams cott'g's
2	M	30	Carter ..	Phthisis pulmonalis	21-8-08 Tramp Ward
5	M	64	House painter ..	Intestinal obstruct'n	18-8-06 6 Oliver place
4	F	42	Boilermaker's wife	Cancer ..	18-6-08 99 Harrowby road
6	F	35	Street hawker &c	Cancer ..	1-6-08 9 Ebenezer street
6	F	24	Gen lab'rer's wife	Nephritis ..	6-9-08 10 Frederick st
6	M	70	Shoemaker ..	Pulm. hæmorrhage	12-4-08 214 Chester street
8	F	67	Boilermaker's wid	Senile mania ..	2-9-08 44 Ilchester road
9	M	70	Bricklayer's lab..	Cardiac disease ..	25-5-08 4 Waterloo place
9	M	54	Ship rigger ..	Extrav of Urine ..	31-8-08 97 Wood street
10	M	30	Dock labourer ..	Phthisis pulmonalis	13-8-08 2 Shaw's place
9	M	83	Gen labourer ..	Acute pneumonia ..	20-9-07 38 Aspinall street
13	F	9d	Labourer's daugh	Debility from birth	6-9-08 10 Frederick st
12	M	66	Engine driver ..	Senile mania ..	1-9-08 51 Market street
14	F	9m	Cab driver's dau	Meningitis ..	3-9-08 35 Mona street
19	F	41	Flat captain's wife	Carcinoma of uterus	15-2-08 54 Bk St Anne st
23	F	34	Milk dealer's wife	Phthisis pulmonalis	16-9-08 28 Menai street
19	M	40	Gen labourer ..	Acute pneumonia ..	17-9-08 60 Thomas street
19	F	1m	Servant's daugh	Debility ..	12-9-08 ———
25	F	45	Baker's wife ..	Cerebral apoplexy..	11-6-06 17 Field street
25	M	71	Dock labourer ..	Senility ..	8-1-08 93 Cleveland st
26	M	46	Dock labourer ..	Phthisis pulmonalis	14-9-08 9 Campbell ter
29	M	71	Gen labourer ..	Heart disease ..	9-9-08 44 Cathcart street
30	F	59	Labourer's wife ..	Malignant dis of liver	21-9-08 61 St Anne street
30	F	22	Signwriter's wife	Puerp'l septicæmia	21-9-08 72 Harrowby road
28	F	23d	Labourer's daugh	Debility from birth	6-9-08 10 Frederick st
Oct. 2	M	33	Gen labourer ..	Tuberculosis larynx	22-8-08 11 Bridge street
7	F	66	Clerk's daugh ..	Sarcoma of sternum	19-3-08 25 Barnston street
11	M	49	Cab driver ..	Paralysis of insane	28-10-07 49 Adelphi street
10	M	77	Naval pensioner	Carcinoma of throat	15-4-08 134 New Ch'ter rd
13	F	44	Dock lab'rer's wife	Apoplexy ..	5-3-08 40 Wood street

SUPPLEMENT TO TABLE V.—Continued.

Date.	Sex	Age	Occupation &c.	Cause of Death.	Date and Address of Deceased when admitted.
Oct. 13	F	11 m	Carter's daughter	Pneumonia ..	8-6-08 Henry street
21	F	64	Labourer's widow	Bronchitis ..	20-10-08 87 Thomas street
11	F	13 m	Labourer's daugh	Tuber meningitis ..	7-7-08 25 Hope street
21	M	60	Shipwright ..	Carcinoma of stom	28-8-08 77 Borough road
21	M	70	Gen labourer ..	Diabetes ..	29-6-99 101 Beckwith st
25	M	1m	Labourer's son ..	Debility ..	7-9-08 56 Church road
27	M	27	Dec butcher's son	Phthisis pulmonalis	10-3-00 30 Balls road east
27	M	63	Draper ..	Acute pneumonia ..	18-10-08 14 Chatham road
30	F	1m	Labourer's daugh	Debility ..	7-9-08 56 Church road
Nov. 1	M	48	Dock labourer ..	Tubercul'r laryngitis	10-10-08 134 Price street
1	M	79	Ship's carpenter	Senile decay ..	15-4-08 22 Gladstone st
3	M	58	Dock labourer ..	Tuber dis of spine	18-2-01 168 Chester street
5	F	70	Coalheaver's wid	Senile decay ..	4-8-08 38 Vine street
13	F	39	Carter's wife ..	Phthisis pulmonalis	6-10-08 29 Field street
15	F	62	Accountant's wid	Carcinoma uteri ..	26-7-08 20 Birch road
19	M	42	Badge porter ..	Paralysis of insane	5-9-08 92 Dacre street
19	M	57	Upholsterer ..	Chronic cystitis ..	5-11-08 24 Leicester street
21	F	36	Labourer's wife ..	Carcinoma of uterus	11-8-08 127 St Anne st
20	F	63	Labourer's wife ..	Carcinoma of throat	9-11-08 106 Oliver street
21	F	65	Seaman's widow	Cardiac disease ..	16-11-08 46 Douglas street
22	F	23	Labourer's daugh	Phthisis pulmonalis	3-1-08 36 Frederick st
27	M	12	Carter's son ..	Otitis media &c ..	21-11-08 5 Kellett's place
27	M	70	Gen labourer ..	Phthisis pulmonalis	3-2-08 57 Abbey street
24	M	40	Able seaman ..	Paralysis of insane	19-8-08 1 German terrace
30	M	65	Gen labourer ..	Cardiac disease ..	24-8-08 139 Oliver street
30	F	72	Boilermaker's wid	Chronic bronchitis	11-5-03 23 Garnet street
29	M	53	Coppersmith ..	Chron cere softening	1-1-08 21 Field street
Dec. 3	M	73	Gardener ..	Epilepsy &c ..	15-9-98 19 Blucher street
2	M	52	Ship's fireman ..	Aneurism of neck ..	24-6-08 23 Blucher street
9	M	77	Shipwright ..	Senile mania ..	21-11-08 5 Shaw street
5	F	47	Dec painter's dau	Carcinoma of breast	30-10-08 Birch road
6	M	30	Butcher's labourer	Phthisis pulmonalis	14-10-07 11 Bridge street
9	M	52	File cutter ..	Acute pneumonia ..	5-12-08 17 Albert place
10	F	73	Flagger's widow	Senile decay ..	17-11-00 36 Bk St Anne st
11	M	69	Shoemaker ..	Bright's disease ..	20-11-08 2 Waterloo place
13	M	71	Dock labourer ..	Chronic bronchitis	29-4-07 140 Chester street
16	F	84	Blacksmith's wid	Senile decay ..	10-9-08 41 Ivy street
16	F	67	Book-keeper's wid	Gangrene leg ..	24-9-08 Parkfield avenue
17	M	69	Gen labourer ..	Acute pneumonia ..	15-12-08 2 Elizabeth place
20	M	62	Able seaman ..	Senile mania ..	9-12-08 31 Borough road
19	F	60	Ship's stew'd's wid	Septic pneumonia ..	15-12-06 5 Bennett's Hill
22	F	61	Platelayer's wid..	Bronchitis ..	17-12-08 15 C Queen's blds
23	F	30	Labourer's wife ..	Phthisis pulmonalis	15-12-08 4 Queen's place
24	F	55	Army pens'n's dau	Addison's disease ..	20-6-06 27 Grasville road
27	F	88	Baker's widow ..	Arterio sclerosis ..	12-8-07 54 Derby street
30	F	78	Labourer's widow	Senile decay ..	21-12-08 26 Myrtle street
30	F	24	Labourer's wife ..	Phthisis pulmonalis	6-11-08 10 in 21 Fox st
29	F	55	Stoneb'k's daugh	Shock—fract'd thigh	28-12-08 17 Wilson street

