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Contributors

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COUNTY BOROUGH
OF
BARROW-IN-FURNESS.

MEDICAL OFFICER'S
REPORT AND STATISTICS.

YEAR ENDING DECEMBER 25TH, 1908.

BARROW-IN-FURNESS :
BARROW PRINTING COMPANY, HINDPOOL ROAD.
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AND SURGICAL

MEDICAL JOURNAL

FOR THE YEAR 1851

OF THE

OF THE

OF THE

MEDICAL OFFICER'S REPORT

FOR

YEAR ENDING DECEMBER 25TH, 1908.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH
COMMITTEE.

GENTLEMEN,

It is my pleasure to report to you on the Health conditions of your Borough during 1908.

STATISTICAL SUMMARY FOR 1908.

Population estimated in July, 1908	.. .. .	70,603
Density, or Population per acre	.. .. .	6.8
Inhabited Houses	.. .. .	12,173
Average House Population, estimated	.. .. .	5.8
Births	.. .. .	1,860
Deaths	.. .. .	802
Birth Rate	.. .. .	26.34
Death Rate	.. .. .	11.64
Infantile Mortality per 1,000 births	.. .. .	111
Illegitimate Births	.. .. .	47
Deaths in Illegitimate Children per 1,000 Births	.. .. .	276
Zymotic Death Rate (7 Principal Zymotics)	.. .. .	1.21
Increase of Population	.. .. .	870
Natural Increase of Population	.. .. .	1,058
Phthisical Death Rate	.. .. .	1.33
Respiratory Death Rate	.. .. .	2.11
Average Death Rate last 10 years	.. .. .	14.3

As for the last few years, I have again adhered to the figure 5.8 as the average house population. The number of inhabited houses in July being 12,173, the population works out at 70,603. The inhabited houses are more by 150 than for the year preceding, and as a consequence, the population of 1908 exceeds that of 1907 by 870 persons.

BIRTHS.—The number of births registered was 1860, and the rate per 1,000 of population was 26.34. In the preceding year the births were 1806, or less by 54, and the rate only 25.91.

For England and Wales the birth rate was 26.5 per 1,000.

DEATHS.—The deaths due to our district all told were 802, making a rate per 1,000 of our population of 11·64, the lowest death rate, I believe, we have ever had. In the preceding year the deaths exceeded these by 48, and the rate was 12·19.

In England and Wales the rate was 14·7 per 1,000.

INFANTILE MORTALITY.—Of the children born 207 died in the first year. In proportion to the whole number of deaths these made 25·8 per cent. Under the age of 5 years 277 children died, or 34·5 per cent. Based on the number of births, we find that out of every 1,000 children born there were 111 died in the first year. This is a comparatively low rate, and is exactly the same as in the year preceding.

For England and Wales the rate was 121 per 1,000 Births.

A comparison of rates for the last ten years :—

Year.	Estimated Population	Number of Births.	Number of Deaths.	Birth-rate per 1,000.	Death-rate per 1,000.	Natural increase of population
1899	56,412	1,713	864	30·3	15·3	849
1900	57,000	1,811	1,087	31·7	19·0	724
1901	58,478	1,790	887	30·6	15·1	905
1902	61,836	1,937	915	31·1	14·7	1022
1903	65,010	1,965	748	30·2	11·5	1217
1904	67,938	1,902	818	28·0	12·0	1084
1905	68,736	1,825	885	26·5	12·8	940
1906	68,237	1,886	852	27·6	12·4	1034
1907	69,733	1,806	850	25·9	12·19	956
1908	70,603	1,860	802	26·3	11·64	870

This ten years' table shews us that the deaths have decreased steadily along, which is satisfactory, but the births likewise have decreased in somewhat similar ratio, which is not so satisfactory ; but as we may be unable to influence the birth-rate, we can lower still further the death-rate. We must try to keep up the figures in the last column, which shews that for ten years our births have exceeded the deaths by more than two to one. So long as this continues we need not mind.

ILLEGITIMACY.—Children born out of wedlock numbered 47, and 13 children born illegitimate died within twelve months of birth. In these the death rate per 1,000 births is 276. In children born in wedlock the rate per 1,000 is 107.

In France the state looks after their illegitimate children when required, and the State is a good foster mother. They make good soldiers for France, and they would make good soldiers and sailors for us, and for imperial and other useful purposes they are quite worth keeping alive. They die from neglect, necessary neglect, not from any innate weakness. A little milk, keeping warm, and cleanliness is all they want.

The following Table gives the Deaths in each month, and in seven groups of ages :—

M onths.	Under 5 Years.							Total Deaths.	Total Births.	Deaths per Quarter.	Births per Quarter.	Death-rate per 1,000.	Birth-rate per 1,000.
	Under 1 Year.	1 Year & under 5.	5 years & under 15.	15 years & under 25.	25 years & under 60.	60 years & under 80.	80 years & upwards.						
Jan.	15	10	3	1	31	17	1	78	182	—	—	13·2	30·9
Feb.	25	7	1	5	21	20	4	83	165	—	—	14·1	28·0
March	15	6	4	3	19	14	5	66	147	227	492	11·2	24·9
April	16	8	5	4	25	18	5	81	141	—	—	13·9	23·9
May	18	10	5	4	25	14	3	79	183	—	—	13·4	31·1
June	13	6	1	5	16	16	2	59	157	219	482	10·0	26·7
July	11	4	7	5	13	11	1	52	160	—	—	8·8	27·1
Aug.	18	5	3	5	19	13	1	64	141	—	—	10·8	23·9
Sept.	18	—	2	5	14	13	1	53	161	169	462	9·0	27·5
Oct.	20	5	1	2	16	8	1	53	144	—	—	9·0	23·8
Nov.	26	6	3	6	29	17	2	89	160	—	—	15·1	27·1
Dec.	12	3	2	3	14	10	1	45	119	187	423	7·6	20·2
Totals	207	70	37	48	242	171	27	802	1860			11·6	26·3

The deaths were never high—the highest was a 15·1 rate in November—but strange to say the lowest rate was in December, with a rate of 7·6 per 1,000. It is rare for people to die from shortage of food, they seem freer from sickness, but it is rather excess that kills.

Death rates and causes compared :—

	All Causes	7 Zymotics	Smallpox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Fevers	Diarrhoea	Deaths under 1 year, 1,000 Births.
England and Wales..	14·7	1·29	—	·22	·08	·15	·27	·07	·50	121
76 Great Towns	15·8	1·59	—	·31	·10	·16	·29	·08	·65	128
142 Smaller Towns	14·7	1·26	—	·20	·06	·15	·25	·08	·52	124
Parts less	13·8	·99	—	·13	·06	·15	·25	·07	·33	110
Barrow-in-Furness ..	11·64	·93	—	·14	—	·05	·31	·07	·35	111

Barrow-in-Furness shews favourably with the different divisions. Small Town and Country has a one point less Infant death-rate than we have, but in death-rates we are 2 per 1,000 best, and slightly better in the Zymotic rate.

Death-rates and death causes in Divisions.

DISTRICTS.	Populations Estimated	Ages at Death.				Rates per 1000 of population			
		Under 1 Year.	1 and under 5 y'rs.	More than 5 years.	Total deaths	Under 1 year.	1 and under 5 y'rs.	Over 5 years.	All Ages.
Hindpool	14,251	46	17	117	180	3·2	1·2	8·2	12·7
Central	23,965	82	32	187	301	3·4	1·3	7·8	12·6
Walney	14,430	41	11	99	151	2·8	·7	6·8	10·4
Eastern	17,957	38	10	122	170	2·1	·5	6·8	9·5
Totals...	70,603	207	70	525	802	2·9	·9	7·4	11·6

There is not much difference in these comparative rates. Hindpool is the highest, closely followed by Central. The lowest rate is attained by Eastern, no doubt due to its being the most open Ward. Walney district is one degree higher than the Eastern. Some part of the favourable position of Walney is due to their being over-estimated in average house population. Many tenements in the block buildings on Old Barrow, and many of the houses on Walney Island are very small, so small that 5.8 people could not live in them without overcrowding.

CLASSIFICATION OF DEATH CAUSES.—Comparing the years 1907 and 1908.

Class.	1907.		1908.	
	Deaths.	Rates.	Deaths.	Rates.
I.—Zymotic	129	1.85	91	1.28
II.—Constitutional	121	1.73	130	1.84
III.—Local	398	5.71	377	5.34
IV.—Developmental	149	2.14	150	2.12
V.—Violence	30	.43	28	.39
VI.—Ill-defined	25	.35	26	.36

It will be seen from this Table that in the most important class, the Zymotic, the rate is low. In other respects there is little difference in the two years.

Deaths from the seven principal Zymotics in four years :—

DISEASES.	Deaths in 1905.	Deaths in 1906.	Deaths in 1907.	Deaths in 1908.	Rate in 1905.	Rate in 1906.	Rate in 1907.	Rate in 1908.
Smallpox	1	—	—	—	.01	—	—	—
Measles	57	1	35	10	.82	.01	.50	.14
Scarlatina	6	4	—	—	.08	.07	—	—
Diphtheria	12	13	13	4	.17	.18	.18	.05
Whooping Cough }	23	2	25	22	.84	.02	.35	.31
Fevers	3	2	5	5	.02	.02	.07	.07
Diarrhoea	17	61	12	25	.12	.89	.17	.35
Totals..	119	83	90	66	1.86	1.22	1.28	.93

The year 1908 shews up well in this table. There was no serious epidemic disease in any of this class. There was little fatal measles, no fatality in Scarlatina, less Diphtheria, and the same sporadic cases of Fever.

SMALL POX.—We have not had a case of Small Pox since 1905. Our liability through various channels of communication still remains. As a community we are well vaccinated, which is our greatest safeguard.

MEASLES.—We had ten deaths from Measles in the beginning of the year, the remains of an Epidemic left us by the preceding year. There was no School closure.

SCARLATINA.—It is a remarkable but satisfactory thing that we have not had a death from Scarlatina for two years. The notifications numbered 92, which, with 190 cases in 1907, makes 282 cases without a death. This is an evidence of the mildness of the disease.

DIPHTHERIA.—There were 27 notifications of Diphtheria, and 1 from Membranous Croup. The deaths numbered 4, a diminished fatality probably due to the use of Antitoxin. In well appointed towns Antitoxin is provided by the Health Authority.

FEVERS.—Under the heads of Enteric, Typhoid, and Continued Fevers, there were — reports. Two cases were evidently imported, and the rest were, as usual, sporadic cases. We have now no fever spot in our Borough, but the cases occur here and there in all the districts.

DIARRHŒA.—Diarrhœa was the cause of 25 deaths. The disease was prevalent in September, October, and November. Twenty-one deaths occurred under twelve months of age.

WHOOPIING COUGH.—This affection was particularly prevalent in April, May, and June, but it was represented on the death register in nearly all the months of the year. There were 25 deaths from this cause, exactly the same number as in 1907.

PUEPERAL FEVER.—Three cases were reported, and there was one fatality. It was impossible to prove any of the old time midwives responsible for any of these cases, but two were warned from attending other cases, and to disinfect their clothing, etc. This was carried out. The trained midwife is gradually replacing these old midwives, and their time is now short.

TUBERCULOSIS.—Phthisis or Consumption was the registered cause of 64 deaths, Hydrocephalus of 6, and other tubercular causes of 24 deaths, making altogether 94 deaths. But Atrophy and Debility causes, which are probably largely tubercular was the cause of 37 deaths. This is about our usual number. Sanatorium treatment of the diseases is becoming more general. The people seem to put great faith in Sanatoria, and are slow to believe that in large measure Sanatorium treatment can be carried out in their own homes, the principal item of treatment being pure fresh air by day and by night. This, alongside cleanliness and temperance in all things, would not only do good to the consumptive, but would largely prevent the disease.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1908.—These regulations are now in force. The Medical Officer of Health is notified by the Poor Law, of all cases of Pulmonary Tuberculosis occurring in the Borough or the institutions of the town. All these things help in the combat with the disease.

RESPIRATORY DISEASES.—Bronchitis was the cause of 80 deaths, and Pneumonia of 65. These are about our average numbers. We have not had anything like epidemic Pneumonia for years.

PORT SANITARY WORK.—With respect to Cholera in Russia, that is in the Baltic, and Black Sea latoral, we had a number of ships arriving from infected ports. All were found to be healthy. We had nothing infected or suspected. Plague is also to us an important disease. It might arrive in grain ships from India and the East, and it is not impossible that our rat population might become infected, which would be a serious danger.

SCHOOL INSPECTION.—I have little to report on this subject as to work accomplished. Preparations have been made, a Medical School Inspector has been appointed, and arrangements made so that the work may proceed in earnest with the new year. I will venture to give my advice as to how the work should be taken in hand. Those engaged in the work ought to believe in it. It ought to be taken in hand seriously as a means to an end, and that end is the physical and mental improvement of the school children, and later the men and women of our country.

- (1). In the first place see to the schools—Is the ventilation satisfactory? Don't crowd the schools, it is bad for the children. Eight feet per child of floor space has been found to be too little, ten feet is better. The children are not in contact, which is good, and the school is better ventilated.
- (2). Should there be children who come hungry to school, get to know the reason why, but do not add to the evil by trying to cram the three R's into a hungry child. Surely it would be better to feed the child first, and see who should pay for it afterwards.
- (3). The good to be expected from School Inspection will fail in its full effect if a School Nurse be not appointed. Education and the ultimate good of the child must begin at the homes of the children, their mothers, their guardians, and their surroundings. A School Nurse or Lady Health Visitor is the only person who can do this.

There are a great many other things I might suggest, a great many other things which might with advantage be done, but if the above be accomplished it would be no bad achievement for one year. To those who think of the cost may I suggest that from an imperial or national standpoint it would be the grandest and most paying investment possible.

DAIRIES, COWSHEDS, AND MILKSHOPS.

As to the improvement in Cowsheds and Dairies, I am in a position to support Mr. Kendall's report thereon. An improvement in air-space, ventilation and general sanitation of these places will shew itself in the better health of the cows, in diminished Tuberculosis, and in less danger to the milk supply. Mr. Kendall has done good work in this direction, as also in Meat Inspection. It will be seen also that Mr. Berry, through his officers, keeps watch over the milk itself, under the administration of the Food and Drugs Act.

In conclusion we can say that our town still maintains its high position as one of low death-rates and satisfactory health evidences. As a modern town it could hardly be otherwise with decent management. We have now a Public Disinfector little used, and lots of infectious diseases but little isolation, but we will improve on these, I hope, as time goes on. We have no Lady Health Visitor. With the institution of School Inspection a School Nurse becomes absolutely necessary. The appointment of a School Nurse would somewhat obviate the necessity of a Health Visitor, but one or other means a step forward which I trust will be taken in the coming year.

I am, Gentlemen,

Yours faithfully,

JOHN SETTLE,

Medical Officer of Health.

CHIEF SANITARY INSPECTOR'S REPORT.

TO THE CHAIRMAN AND GENTLEMEN OF THE HEALTH COMMITTEE.

I beg to lay before your Committee a list shewing the number and description of Nuisances which have been dealt with by your Committee during the past year ending December 31st, together with other sanitary work carried out in connection with the Sanitary Department.

In accordance with your Committee's instructions formal notices were served on the several owners or occupiers of the property for the early abatement of these Nuisances :—

30	Offensive and badly constructed Ashpits converted to Corporation Model.
38	Defective Slopstone Gullies replaced.
44	„ Surface Water Gullies replaced.
5	„ Cellar Gullies replaced.
63	„ Slopstone Pipes repaired or replaced.
65	„ Ventilating Pipes replaced.
11	„ W.C. Soil Pipes replaced.
180	„ Eaves and Downspouts repaired.
90	„ Yard Floors taken up and relaid.
119	„ Yard Floors repaired.
28	„ W.C. Drains repaired, etc.
5	„ Slopstone Drains repaired, etc.
3	„ Surface Water Drains repaired, etc.
2	„ Cellar Drains repaired, etc.
1	„ Cellar Floor relaid.
40	„ W.C. Pans taken and replaced.
18	„ W.C. Syphon Traps taken and replaced.
154	„ Sets of W.C. Fittings repaired.
80	„ W.C. Flushpipe Connections repaired.
55	„ Dwellinghouse Roofs repaired.
34	„ W.C. Roofs repaired.
41	„ Ashpits repaired.
2	„ Manure Pits repaired.
41	„ Chimneys repaired.
71	„ Kitchen and Scullery Floors relaid or repaired.
15	„ Drains ventilated.
13	„ Drainage Systems remodelled.
3	„ Bath or Lavatory Pipes disconnected from Drains.
3	„ Pan Closets replaced by model ones.

14	Defective Yard Walls rebuilt.
96	„ Slopstones repaired or replaced.
43	„ W.C.'s put in order.
28	„ Interior of Dwellinghouses repaired.
2	„ Cesspools repaired.
1	„ W.C. given continuous supply of water.
3	„ Bath Wastes repaired.
47	„ Brickwork of Main Walls repaired.
18	„ Ventilation of Houses improved.
2	„ Water Supply improved.
7	Nuisances from Overcrowding.
9	„ „ Objectionable Matter in Ashpits.
28	„ „ Backyards in bad condition.
26	„ „ Interior of Dwellings in bad condition.
81	„ „ Damp Inner Walls.
4	„ „ Pigswill in Yards.
4	„ „ Manure Accumulations.
5	„ „ Private Urinals.
8	„ „ Poultry in Back Yards.
18	„ „ Cellars in Flood.
81	„ „ W.C. Drains choked.
41	„ „ Slopstone Drains choked.
39	„ „ Surface Water Drains choked.
7	„ „ Cellar Drains choked.
13	„ „ Disconnecting Gullies choked.
3	„ „ Swine in insanitary conditon.
14	„ „ Offensive Accumulations.
68	„ „ W.C.'s in insanitary conditions.
74	„ „ Insanitary Premises (Lime Washing enforced).
2	„ „ Black Smoke.
1	„ „ Animals in Back Yards.
2	„ „ Cesspits.

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The foregoing list does not include many nuisances requiring immediate attention, which were remedied through letter or personal application.

STRUCTURAL DEFECTS.

During the past year Structural Defects have been remedied at 305 dwellinghouses, arising from the defective condition of the roofs, interiors, walls, chimneys, washing boilers, bedroom floors, etc., and the re-pointing of brickwork of main walls.

FACTORY AND WORKSHOPS INSPECTION.

There are at present 302 Workshops within the Borough, all of which are registered according to the Factory and Workshops Act, 1901, and have been regularly inspected during the year. The following is a classified list of the Workshops under inspection :—

Dressmakers and Milliners	60	Tinsmiths	4
Bootmakers	49	Bottlers	2
Tailors	40	Boat Builders	2
Coach Builders	3	Stonemasons	3
Joiners	18	Window Blind Makers	1
Cloggers	7	Picture Framers	3
Blacksmiths	10	Brushmakers	1
Saddlers	3	Sugar Boilers	1
Cabinet Makers	12	Dyers	1
Upholsterers	4	Plasterers	2
Coopers	2	Tripe Dressers	6
Cycle Makers	12	Gut Scrapers	1
Plumbers and Painters	24	Ice Cream Makers	2
Sailmakers	1	Wireworkers	1
Watchmakers	8	Botanic Beer Brewers	2
Photographers	2	Saw Sharpeners	1
Locksmiths	2	Bottle Sorting	1
Stocking-knitters	2	Hide and Skin Sorting	1
Marine Stores	3	Electrical Fittings	1
Scale Repairers	1	Basket Makers	1
Tallow Melters	1	Drawing Instrument Maker	1

OUTWORKERS.

Lists of Outworkers, 38, have been received during the year, comprising 65 Outworkers, in accordance with Sec. 107 of the Factory and Workshops Act, 1901. The dwellings of all the outworkers have been regularly visited—five were found to be in an insanitary condition. Notices were served for the cleansing and limewashing of these houses, which was carried out. The remaining dwellings were found to be in good sanitary condition. No case of infectious disease has been notified at any Outworker's dwelling during the year.

79 Notices have been served on the owners or occupiers of Workshops and Factories for the early abatement of the following defects or infringements :—

Workshops Overcrowded.....	1.	Remedied.
" Requiring Limewashing	33.	"
" With Defective Sanitary Conveniences	4.	"
" Badly Ventilated.....	4.	"
" With Defective Floors.....	1.	"
" W.C.'s Insanitary Condition	4.	"
" With Cubic Capacity unposted	4.	"
" With proper W.C. Accommodation.....	6.	"
Employers Failing to Notify Outworkers	38.	"
Factories without Proper Sanitary Convenience	3.	"
" with Unsuitable W.C. Accommodation	2.	"
" W.C. Unscreened for Privacy.....	2.	"
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	102	
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BAKEHOUSES.

There are at present in the Borough 52 Bakehouses, all of which have been regularly inspected. Limewashing has been carried out at least twice at each Bakehouse in the year. Most particular attention has been paid to this class of Workshop. During the year four Bakehouses have been closed, including one Cellar Bakehouse. The number now on the register is nine. Thirty notices have been served on the occupiers of Bakehouses for the early abatement of the following nuisances and infringements :—

Bakehouses Overcrowded	2.	Remedied.
" Requiring Limewashing	30.	"
" With Defective Floors.....	1.	"
" With Insanitary W.C.....	1.	"
" With Insanitary Floors.....	2.	"
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NOTIFICATION OF INFECTIOUS DISEASES.

During the year 200 cases of Infectious Disease were notified by the medical gentlemen of the Borough, tabulated as follows :—

Scarlatina or Scarlet Fever	92
Typhoid or Enteric	31
Erysipelas	46
Diphtheria	27
Puerperal Fever	3
Membraneous Croup	1
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Total	200
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Number of Cases Notified	200
Number of Rooms Disinfected	124
Number of Patients Removed to Hospital	15
Number of Notifications to Secretary of Education	133
Number of Notifications to Borough Librarian ...	133

The whole of the foregoing cases of infectious diseases were visited, directly on being notified, and a liberal supply of disinfectant and Carbolic Soap were given in all cases where disinfectants were not in use already, with instructions as to their use and the best method of preventing infection being carried from one dwelling to another. In accordance with the Medical Officer of Health's instructions where infectious disease existed the parents were advised to withdraw all children from School who were from an infected dwelling. I may state that where any sanitary defects existed at or near any infected dwelling, the same was attended to and remedied without delay.

LIBRARY BOOKS.

In accordance with your Committee's instructions I have from time to time forwarded to the Borough Librarian and to the Secretary to the Education Committee the names and addresses of all persons notified to be suffering from infectious disease. The Assistant Inspectors and myself have also made inquiries at all the infected dwellings if any of the occupants had books from any Library in the Borough. If so the books were collected and fumigated before being returned to the Library.

DISINFECTION OF DWELLINGS, BEDDING, Etc.

In all cases where persons suffering from infectious disease have been removed to the Infectious Hospital, the dwelling, bedding, and all articles which had been exposed to infection, or likely to retain infection, have been thoroughly disinfected by fumigating the rooms and articles with sulphur. In cases where the patients were not removed to the Hospital, the dwelling, bedding, and all infected articles were disinfected with sulphur on the recovery of the patients.

DESTRUCTION OF BEDDING, Etc.

During the past year a large quantity of bedding, mattresses, etc., have been destroyed by burning at the wish of the owners, who did not ask for compensation.

INSPECTION OF PUBLIC BUILDINGS.

The Assistant Inspector and myself have made frequent visits to all the Board Schools and other Public Buildings within the Borough for the purpose of ascertaining the condition of the W.C.'s, Urinals, etc., and the prevention of Nuisances arising therefrom.

GENERAL INSPECTION.

As in previous years special care was taken during the summer months, and frequent inspections of the whole Borough were made with a view to the early detection of any accumulations of filth or deposits of noxious matter, and for the removal of such with the least possible delay.

OFFENSIVE TRADES.

The following is a list of the Offensive Trades established in the Borough :

Messrs. Hodgson	Tallow Melters, Soap Boilers, etc.	Ormsgill.
Barrow Co-operative Soc.	Tripe Dressers,	Corporation Abattoirs.
Mr. W. Holliwood,	"	" "
Mr. R. Sheldon	"	" "
Mr. C. Michaelbach	"	Leicester Street.
Mr. Gibson	"	Back Dalton Road.
Mr. M. Shackleton	"	2, Arthur Street.
Mrs. G. Vogel	Gut Scraper	Corporation Abattoirs.
Messrs. Mark and Sons	Hide, Fat, and Skin Merchants.	Ironworks Road.

HOUSES LET IN LODGINGS.

The houses let in lodgings have been regularly inspected during the year. The walls and ceilings of the rooms, passages, staircases, W.C.'s, and yards have been limewashed twice during the year, viz., in the months of April and October, and all the floors and woodwork thoroughly cleaned, according to Bye-law No. 38. All houses have been kept in a satisfactory condition.

INSPECTION OF SHIPPING.

During the year 393 vessels were inspected, viz., 1 ship, 7 barques, 19 schooners, 3 ketches, and 363 steamships. Of these 340 were British, and 53 foreign nationality. All were free from infectious disease. Where petty nuisances existed on any vessel I generally found the officer in charge ready to comply with all reasonable suggestions for the abatement of same. On my second visit to the vessel the nuisances in question were in most cases remedied.

During the Cholera Epidemic at St. Petersburg and other Russian ports, strict supervision was kept on all vessels arriving at Barrow from any other infected port. These vessels were immediately boarded, no person allowed on or off the boat until the officers and crew had been medically examined and passed by the Medical Officer of Health, all drinking water changed, and water vessels cleansed. Fortunately no case or suspected case arrived at the Port.

During the year notices were served on the chief officers in charge for the following Nuisances, which were remedied without further trouble.

Insanitary Condition of W.C.'s	38
Insanitary Condition of Forecastsles.....	27
Re-painting of Forecastle.....	2
Offensive Bilges	3
	<hr/>
	70
	<hr/>

I am, Gentlemen,

Your obedient Servant,

JOHN HALIFAX,

Sanitary Inspector.

MR. KENDALL reports as follows :—

Dear Sir,

I have to report that during the 12 months ending 31st December, 1908, the number of seizures of unsound meat has been 197, and from the following causes :—

Tuberculosis	150
Parasitic Diseases	26
Emaciation and Dropsy	9
Smothered	2
Actinomycosis	2
Abscesses	2
Immature	3
Injured	2
Fever	1
	<hr/>
	197
	<hr/>

Of the cases of Tuberculosis 12 were generalized, and the carcasses condemned. In the remaining cases the disease was localized, and the carcasses passed after the removal of the diseased parts and organs. In all the above cases the owners voluntarily surrendered the meat after the disease was demonstrated.

Periodical inspection has been made of the cows in the cowsheds within the Borough, and the health of the cattle has been found satisfactory. Two cows have been removed from the sheds on account of Tuberculosis. The condition of the cowsheds has been considerably improved during the 12 months. A number of new sheds have been built, and alterations have been made in others to bring them up to the standard required. In other cases promises have been made to put in hand the necessary alterations early this spring, and I trust by the end of the year the whole of the cowsheds will be in a sanitary condition.

I am, yours faithfully,

W. KENDALL, M.R.C.V.S.,

Inspector.

CHIEF CONSTABLE'S OFFICE,

BARROW-IN-FURNESS,

13TH FEBRUARY, 1909.

Dear Sir,

I have to acknowledge the receipt of your letter of the 12th inst., and beg to give below the particulars you ask for.

COMMON LODGING HOUSES.

These have been regularly inspected by the police during the past year. They have been maintained in a fair state of cleanliness and order. It has not been found necessary to take any legal proceedings against the proprietors.

FOODS AND DRUGS.

During the year 109 samples have been taken and submitted for analysis, which were mostly certified as genuine. One person was fined £5 and costs for selling adulterated milk, and two cases were taken against one person for similar offences, but were dismissed.

I am, yours faithfully,

JOHN BERRY,

Chief Constable.

DR. SETTLE,
Storey Square,
Barrow.

1.—INSPECTION OF FACTORIES, WORKSHOPS, AND WORKPLACES,

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
FACTORIES (Including Factory Laundries).	17	2	—
WORKSHOPS (Including Workshop Laundries).	501	109	—
WORKPLACES (Other than Outworkers' premises included in Part 3 of this Report).			
TOTAL	518	111	—

2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspector.	
NUISANCES UNDER THE PUBLIC HEALTH ACTS :—				
Want of Cleanliness ..	46	46		
Want of Ventilation ..	4	4		
Overcrowding ..	3	3		
Want of drainage of floors ..				
Other nuisances ..	4	4		
Sanitary accommodations {	6	6		
	3	3		
	4	4		
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). ..	30	30		
Other offences ..				
(Excluding offences relating to outwork which are included in Part 3 of this Report)				
Total ..	100	100		

3.—HOME WORK.

NATURE OF WORK.	Outworkers' Lists, Section 107.							Inspection of Outworkers' premises.	Outwork in Unwholesome Premises, Section 108.	
	Lists received from Employers.				Addresses of Out-Workers forwarded to other Councils.	Notices served on Occupiers as to keeping or sending lists.	In-stances.		Notices served.	
	Sending twice in the year.		Sending once in the year.							
	Lists	Out Work-ers.	Lists.	Out Work-ers.						
Wearing Apparel—										
(1) Making, &c.	36	63	2	2	2	38	63	5	5	
(2) Cleaning and Washing										
Total	36	63	2	2	2	38	63	5	5	

4.—REGISTERED WORKSHOPS.

Workshops on the Register (S. 131) at the end of the year.	Number.
Workshops	302
Workshop Bakehouses	52
Total number of workshops on Register . .	354

5.—OTHER MATTERS.

Class.	Number.
Matters notified to H.M. Inspectors of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act (S. 133)	—
Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act (S. 5)	<div> Notified by H.M. Inspector 4 </div> <div> Reports (of action taken) sent to H.M. Inspectors 4 </div>
Other	—
Underground Bakehouses (S. 101) :—	
Certificates granted during the year	—
In use at the end of the year	9

APPENDIX TO MEDICAL OFFICER'S YEARLY REPORT.

No. of Births within the Borough during the year ending, 25th

December, 1908... .. 1,860

Corresponding period last year 1,806

Increase 54

TABLE showing ages at death, from each cause of death, in the
Borough of Barrow-in-Furness, during year ending 25th
December, 1908.

	0-5		5-15	15-25	25-60	60-80	80 Years and upw'rds	Total at all Ages
	Under 1 Year	1 Year and under 5						
I.—								
1. Smallpox .....	...	...	...	...	...	...	...	...
Chicken Pox.....	...	...	...	...	...	...	...	...
Measles	2	7	1	...	...	...	...	10
Scarlatina .....	...	...	...	...	...	...	...	...
Diphtheria .....	...	2	1	...	...	...	...	3
Quinsy .....	...	...	...	...	...	...	...	...
Croup .....	...	1	...	...	...	...	...	1
Whooping Cough.....	11	9	2	...	...	...	...	22
Typhus .....	...	...	...	...	...	...	...	...
Enteric Fever .....	...	...	...	4	1	...	...	5
Simple Continued Fever .....	...	...	...	...	...	...	...	...
Erysipelas.....	1	...	...	...	1	...	...	2
Puerperal Fever(matria) .....	...	...	...	1	...	...	...	1
Carbuncle .....	...	...	...	...	...	...	...	...
Influenza .....	...	...	...	...	4	2	1	7
Dysentery .....	...	...	...	...	...	...	...	...
Diarrhœa	21	3	...	...	...	1	...	25
Cholera .....	...	...	...	...	...	...	...	...
Ague .....	...	...	...	...	...	...	...	...
Remittent Fever .....	...	...	...	...	...	...	...	...
Rheumatism .....	...	1	4	2	2	4	...	13
Other Zymotic Diseases .....	...	...	...	...	...	...	...	...
2. Syphilis.....	...	...	...	...	1	...	...	1
3. Delirium Tremens .....	...	...	...	...	...	...	...	...
Intemperance .....	...	...	...	...	1	...	...	1
4. Thrush .....	...	...	...	...	...	...	...	...
Worms .....	...	...	...	...	...	...	...	...
Carried forward ...	35	23	8	7	10	7	1	91

	0-5		5-15	15-25	25-60	60-80	80 Years and upw'rds	Total at all Ages
	Under 1 Year	1 Year and under 5						
Brought forward...	35	23	8	7	10	7	1	91
II.								
1. Dropsy .....	...	...	...	...	...	...	...	...
Cancer .....	...	...	...	1	24	10	1	36
Noma .....	...	...	...	...	...	...	...	...
Mortification .....	...	...	...	...	...	...	...	...
2. Phthisis.....	...	1	4	16	42	1	...	64
Hydrocephalus.....	3	2	...	...	1	...	...	6
Other Tubercular Dis- eases	3	7	6	2	5	1	...	24
III.—								
1. Cephalitis	6	3	3	...	5	1	...	18
Apoplexy .....	...	...	...	...	7	13	1	21
Paralysis .....	...	...	...	1	3	6	...	10
Epilepsy .....	...	1	...	...	...	...	...	1
Convulsions	17	3	...	1	...	...	...	21
Brain Disease, &c.	1	...	...	...	16	7	...	24
2. Heart Disease, &c. ....	...	...	1	5	25	39	...	70
3. Bronchitis.....	31	7	...	3	14	23	2	80
Pneumonia	15	10	4	3	22	11	...	65
Lung Disease .....	...	1	1	...	2	...	...	4
4. Enteritis	3	...	1	...	1	1	...	6
Peritonitis.....	1	...	...	...	3	...	...	4
Hepatitis .....	...	...	...	...	...	...	...	...
Disease of Stomach, Liver, Intestines, &c.	6	2	1	2	17	6	...	34
5. Kidney Disease, &c. ....	...	...	1	...	10	1	...	12
6. Ovarian and Uterine Disease .....	...	...	...	...	1	...	...	1
7. Joint Disease .....	...	...	...	...	1	1	...	2
8. Skin Disease	3	...	...	...	1	...	...	4
IV.—								
1. Premature Birth	26	...	...	...	...	...	...	26
Teething	11	5	...	...	...	...	...	16
Malformation	4	...	...	...	...	...	...	4
2. Childbirth.....	...	...	...	2	8	...	...	10
3. Old Age.....	...	...	...	...	...	35	22	57
4. Atrophy and Debility...	31	1	...	...	4	1	...	37
V.—								
1. Accident	1	2	6	4	10	1	...	24
2. Homicide .....	...	...	...	...	...	...	...	...
3. Suicide .....	...	...	...	...	4	...	...	4
Causes not specified or ill- defined ..	10	2	1	1	6	6	...	26
All causes at each age	207	70	37	48	242	171	27	802
Corresponding period of last year	211	112	30	40	240	194	23	850

Ratio of Deaths to Population per 1,000—11.64.

Corresponding period last year—12.19.

JOHN SETTLE,

Medical Officer of Health.

Dated this 1st day of March, 1909.

1897. 1898. 1899.

1900. 1901. 1902.

1903. 1904. 1905.

1906. 1907. 1908.

1909. 1910. 1911.

1912. 1913. 1914.

1915. 1916. 1917.

1918. 1919. 1920.

1921. 1922. 1923.

1924. 1925. 1926.

1927. 1928. 1929.

1930. 1931. 1932.

1933. 1934. 1935.

1936. 1937. 1938.

1939. 1940. 1941.

1942. 1943. 1944.

1945. 1946. 1947.

1948. 1949. 1950.

1951. 1952. 1953.

1954. 1955. 1956.

1957. 1958. 1959.

1960. 1961. 1962.

1963. 1964. 1965.

1966. 1967. 1968.

1969. 1970. 1971.

1972. 1973. 1974.

1975. 1976. 1977.

1978. 1979. 1980.

1981. 1982. 1983.

1984. 1985. 1986.

1987. 1988. 1989.

1990. 1991. 1992.

1993. 1994. 1995.

1996. 1997. 1998.

1999. 2000. 2001.

2002. 2003. 2004.

2005. 2006. 2007.

2008. 2009. 2010.

2011. 2012. 2013.

2014. 2015. 2016.

2017. 2018. 2019.

2020. 2021. 2022.

2023. 2024. 2025.

2026. 2027. 2028.

2029. 2030. 2031.

2032. 2033. 2034.

2035. 2036. 2037.

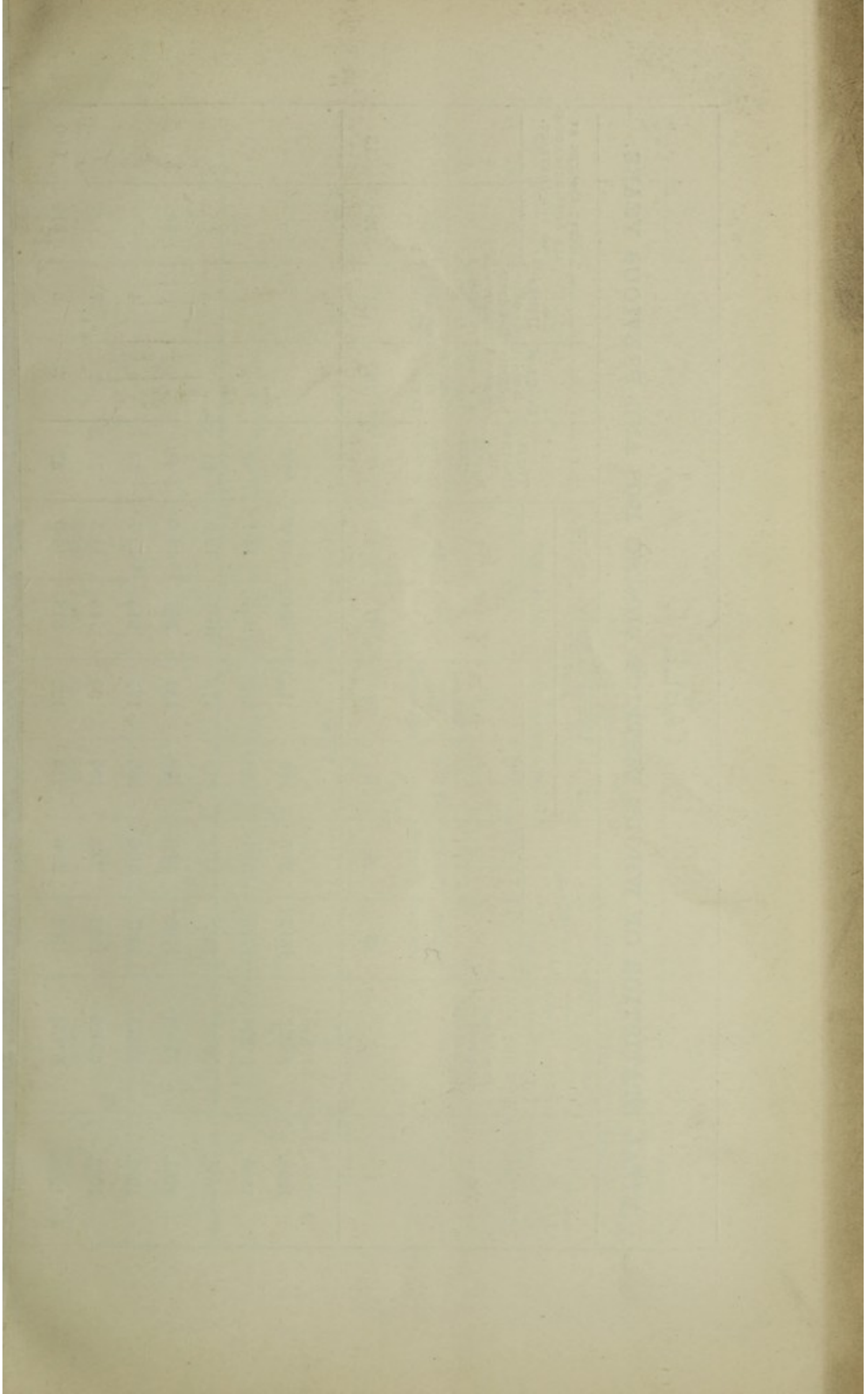


TABLE I.
VITAL STATISTICS OF WHOLE DISTRICT DURING 1908 AND PREVIOUS YEARS.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				TOTAL DEATHS IN PUBLIC INSTITU- TIONS IN THE DISTRICT.	Deaths of Non- residents registered in Public Institu- tions in the District.	Deaths of Residents registered in Public Institu- tions 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.*					
1	2	3	4	5	6	7	8	9	10	11	12	13
1898.	55237	1517	26·8	265	174	809	14·3	54				
1899.	55824	1713	28·1	280	163	864	14·1	42				
1900.	56412	1811	31·7	315	175	1087	19·0	61				
1901.	57000	1790	30·6	270	152	885	15·6	48				
1902.	58478	1937	31·6	266	137	915	15·7	54	4	4		
1903.	65010	1965	30·2	196	99	748	11·5	73	7	7		
1904.	67938	1902	28·0	233	122	818	12·0	87	7	6	817	12·0
1905.	68736	1825	26·5	245	134	885	12·8	89			885	12·8

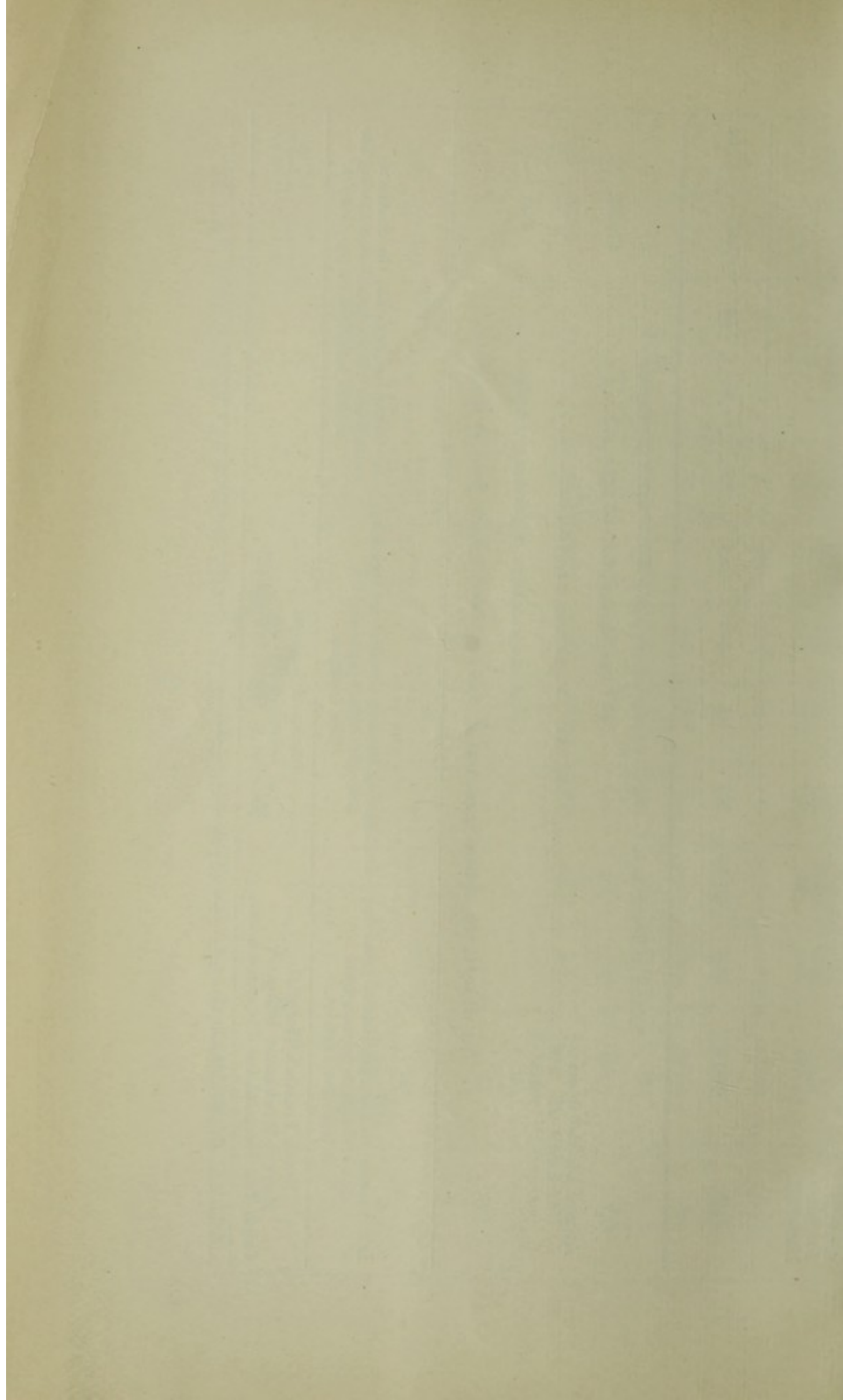
Averages for years 1898-1907.	61127	1800	29.1	249	142	841	13.6						
1908.	70603	1860	26.34	207	111	792	11.2	9	6	16	802	11.64	

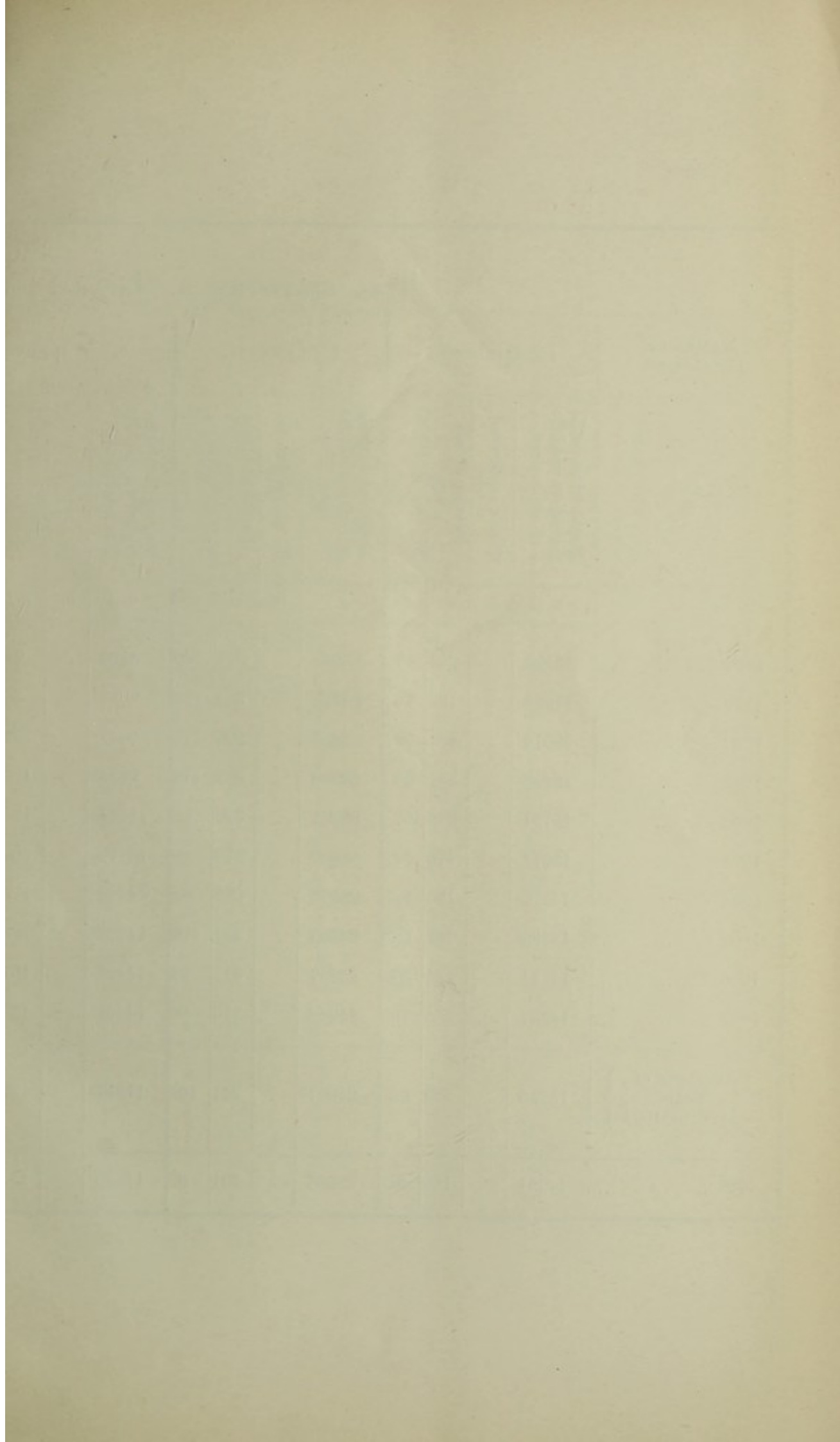
* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water).	10,000	Total population at all ages	57,586	At Census of 1901.
		Number of inhabited houses	9,536	
		Average number of persons per house	6.03	

The Government method gives this as 6.66 by counting each court as one house.

I.	II.	III.
Institutions within the District receiving sick and infirm persons from outside the District.	Institutions outside the District receiving sick and infirm persons from the District.	Other Institutions, the deaths in which have been distributed among the several localities in the district.
North Lonsdale Hospital. Barrow Workhouse Infirmary. Small-Pox Hospital for Ulverston Cases.	Lancaster Asylum. Lancaster Prison. Manchester Royal Infirmary.	

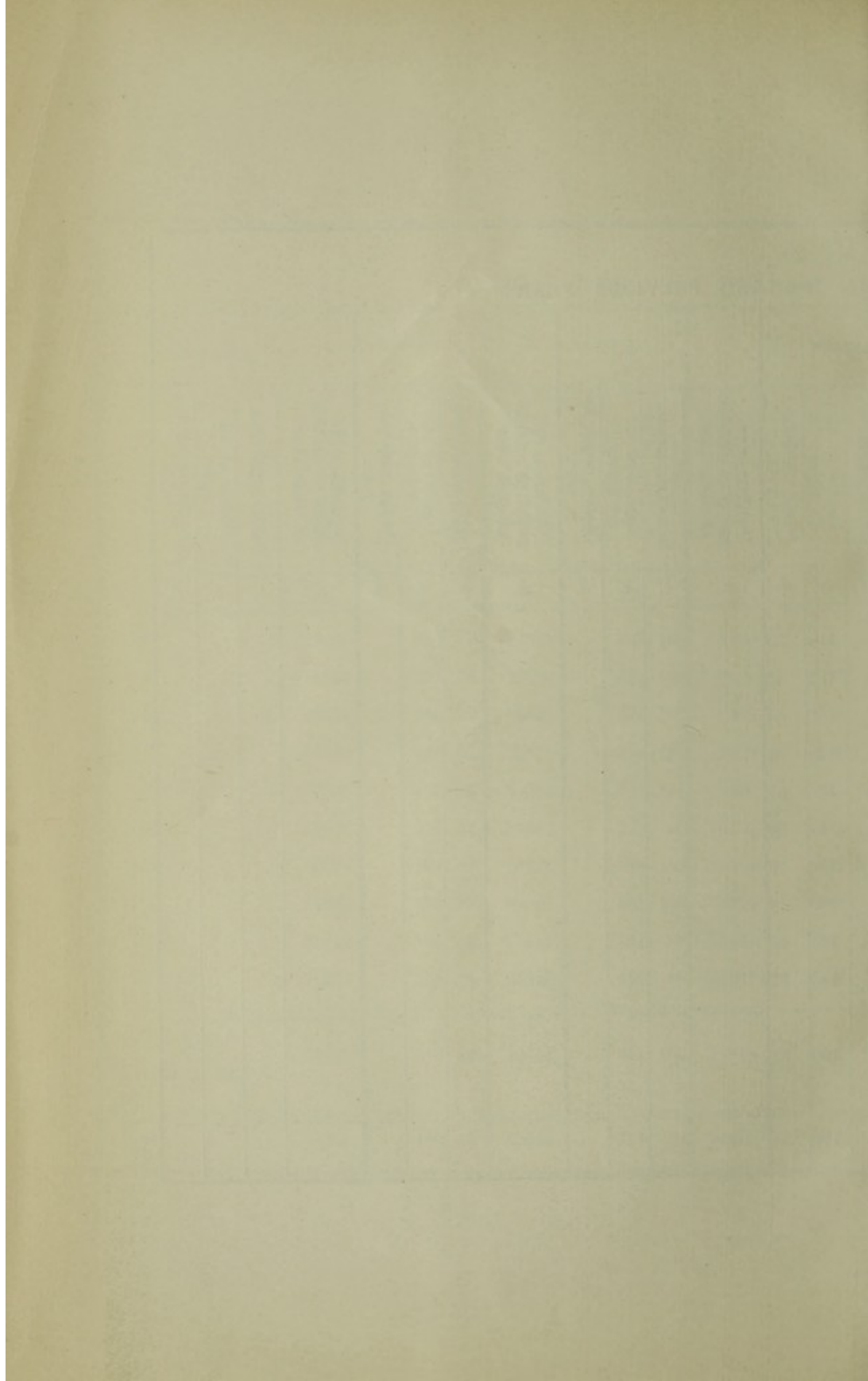


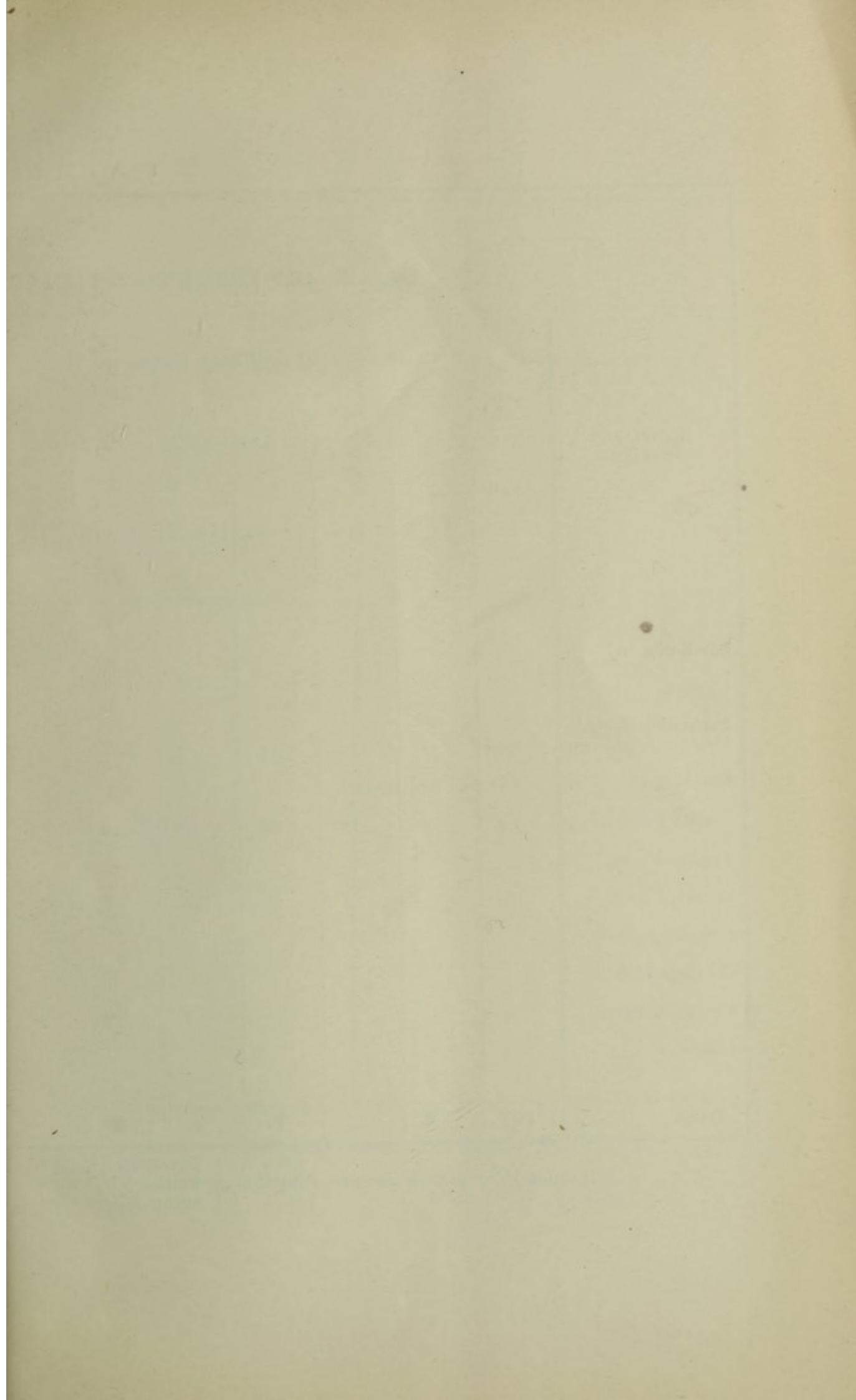


TABLE

VITAL STATISTICS OF SEPARATE LOCALITIES.

NAMES OF LOCALITIES.			1.—HINDPOOL.				2.—CENTRAL.				3.—WALNEY.			
YEAR.			Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each Year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each Year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
			a.	b.	c.	d.	a.	b.	c.	d.	a.	b.	c.	d.
1898	...	...	13106		211	87	23945		346	109	8190		94	31
1899	...	...	14098		197	76	25720		383	128	9081		66	30
1900	...	...	13374		251	72	23837		506	148	8647		148	41
1901	...	...	13428		241	65	23909		362	119	9654		136	38
1902	...	...	13791		249	67	23981		370	86	11584		135	56
1903	...	...	13974		176	42	23862		270	80	13476		160	38
1904	...	...	14170		194	52	23826		286	82	14544		179	46
1905	...	...	14382		199	58	24000		331	100	14682		166	45
1906	...	...	14111		191	56	23687		317	94	14424		161	46
1907	...	...	14337		255	56	23942		316	80	14401		136	36
Averages of Years 1898 to 1907 }			13795		216	62	24067		341	101	11314		127	39
1908	...	...	14251		180	46	23965		301	82	14430		151	41





TA

CASES OF INFECTIOUS DISEASE

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							Isolated
	At all Ages.	At Ages—Years.						
		Under 1	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards	
Small-pox								
Cholera								
Diphtheria (includ'g Membranous Croup)	28	1	14	11	2			
Erysipelas ..	46	Not	taken.					
Scarlet Fever ...	92	1	12	56	20	3		2
Typhus Fever ...								
Enteric Fever ...	31		1	10	15	5		1
Relapsing Fever ...								
Continued Fever ...								
Puerperal Fever ...	3				1	2		
Plague								
Totals	200	2	27	77	38	10		4

ISOLATION HOSPITAL—Name and Situation { Devonshire Road Hospital
Raikes Moor Hospital.
Sheep Island Hospital.

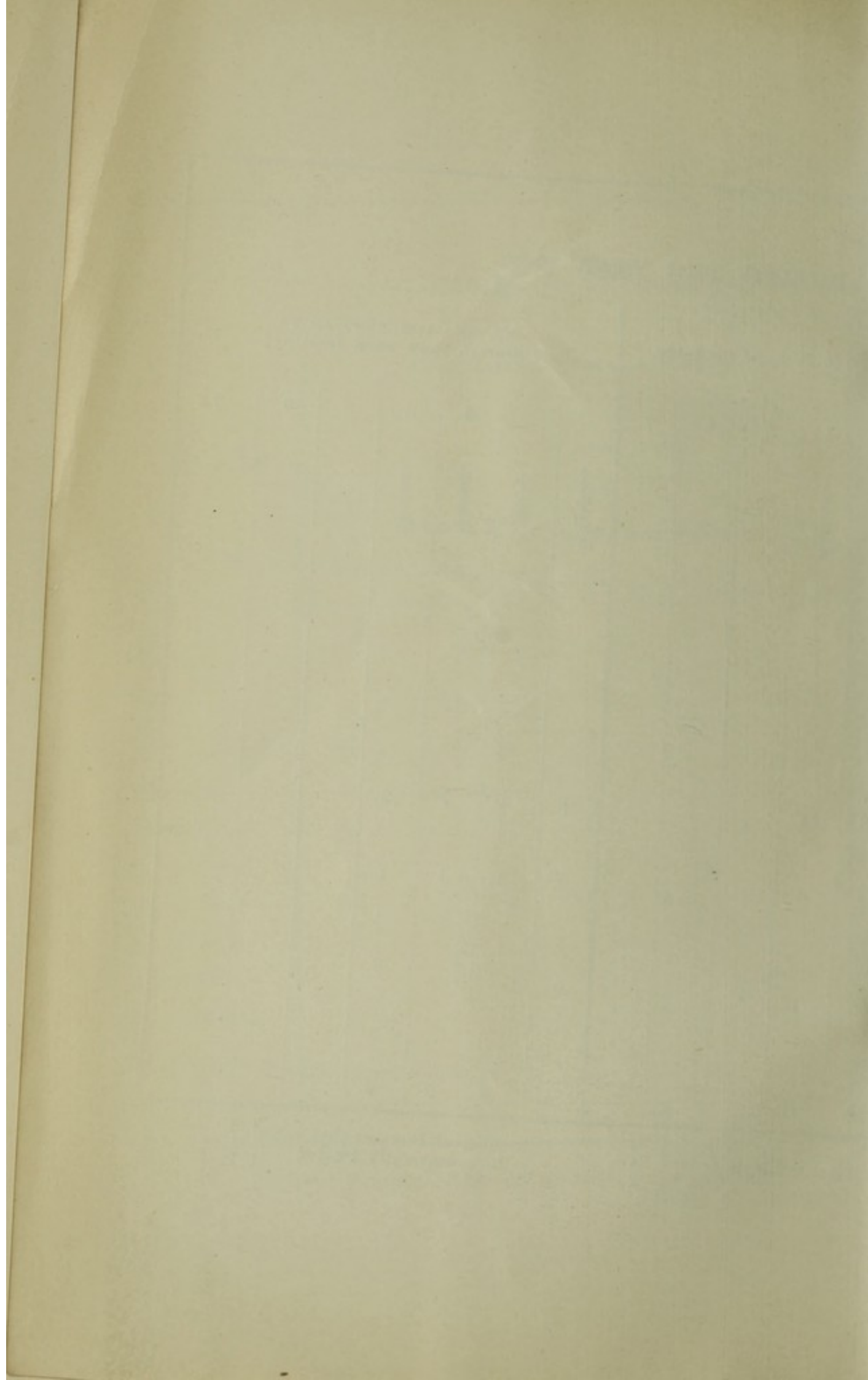
E III.

NOTIFIED DURING THE YEAR 1908.

AL CASES NOTIFIED IN EACH LOCALITY.						No. of Cases removed to HOSPITAL FROM EACH LOCALITY.						
2	3	4	5	6	7	1	2	3	4	5	6	7
Central.	Walney.	Eastern.				Hindpool.	Central.	Walney,	Eastern.			
14	4	3										
35	18	14				1	3	1	2			
13	4	4				3	2	1	1			
1		1										
63	26	22				4	5	2	3			

Total available Beds { 22
24
2

Number of Diseases that can
be concurrently treated { 2
1
1



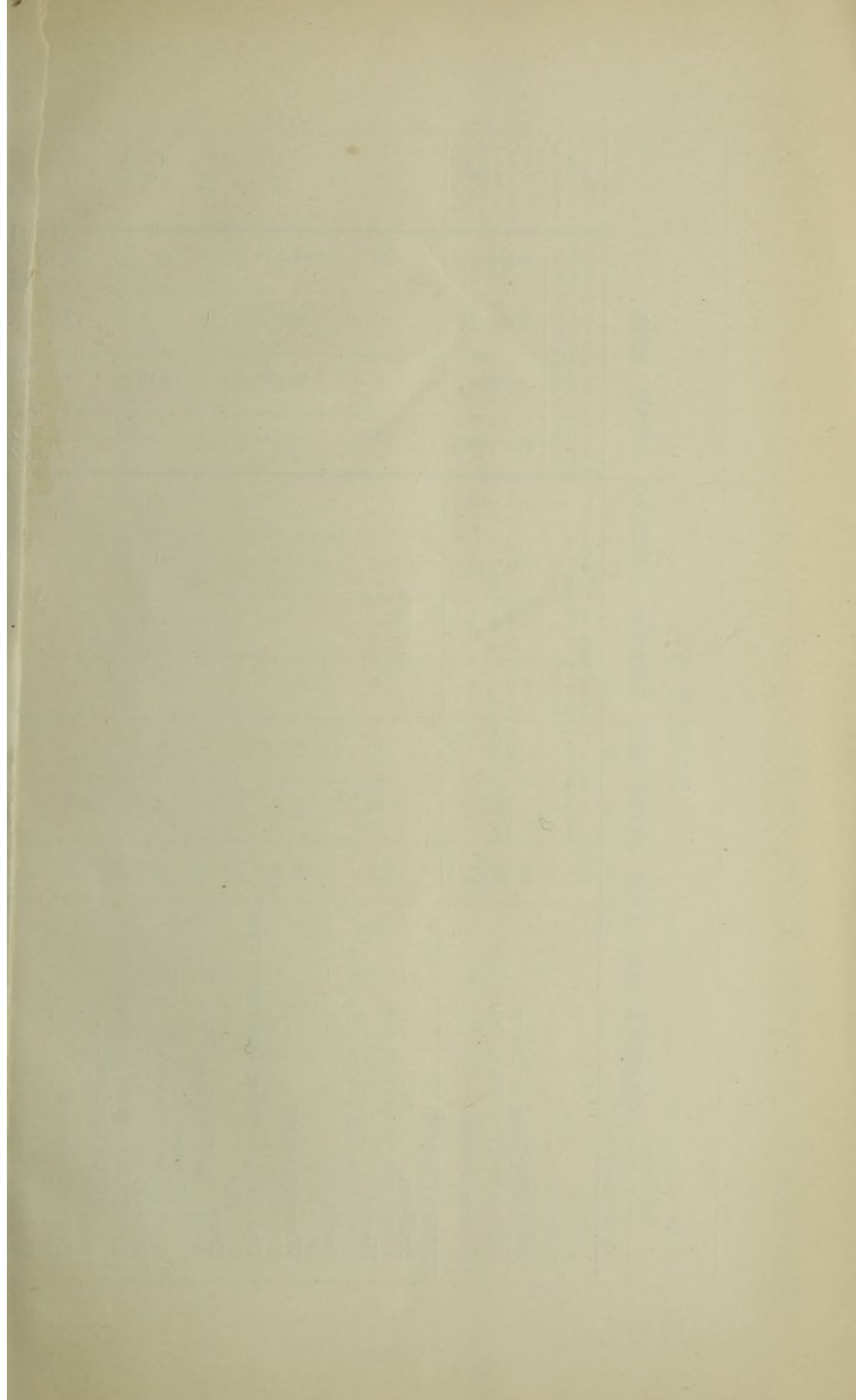
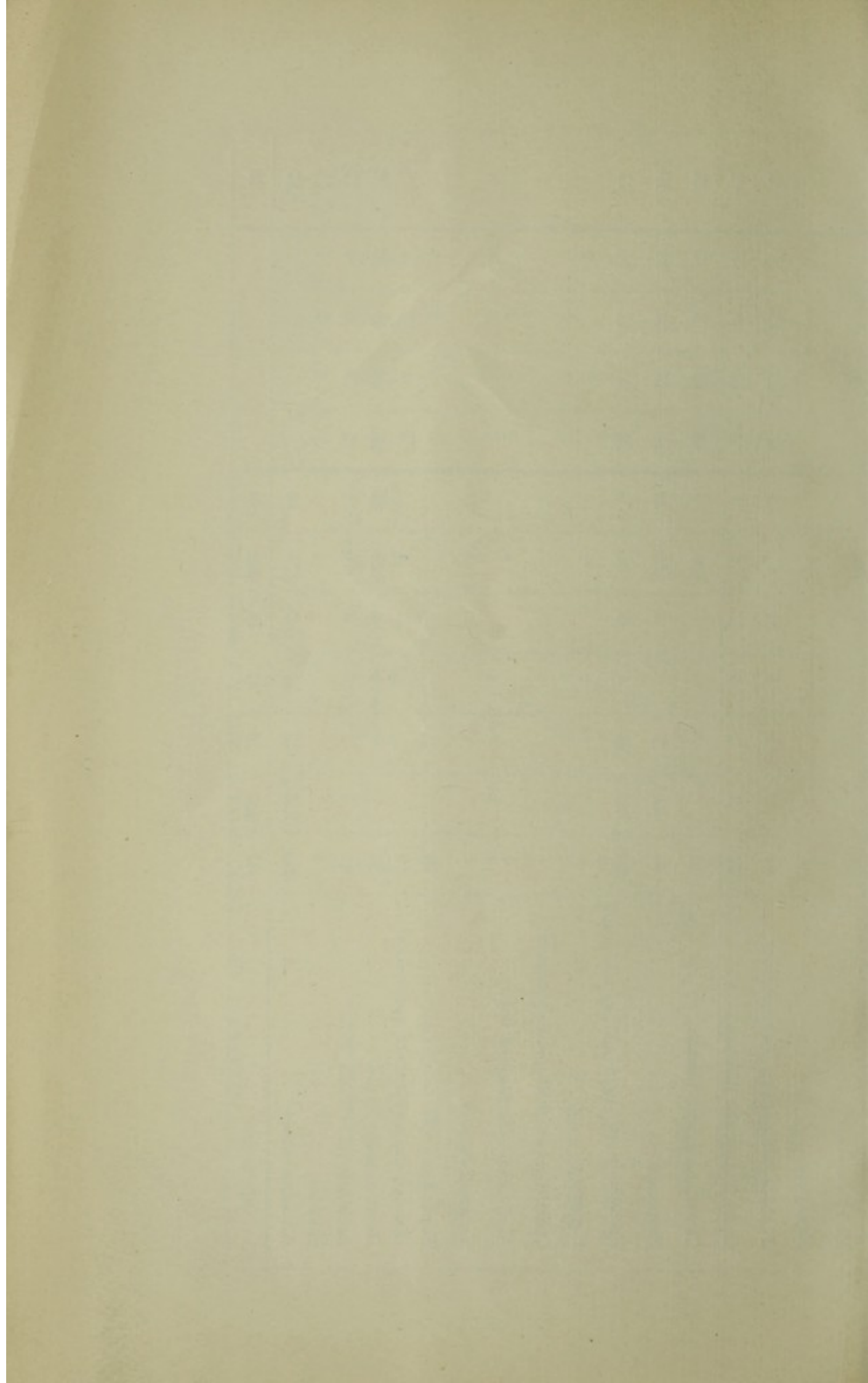
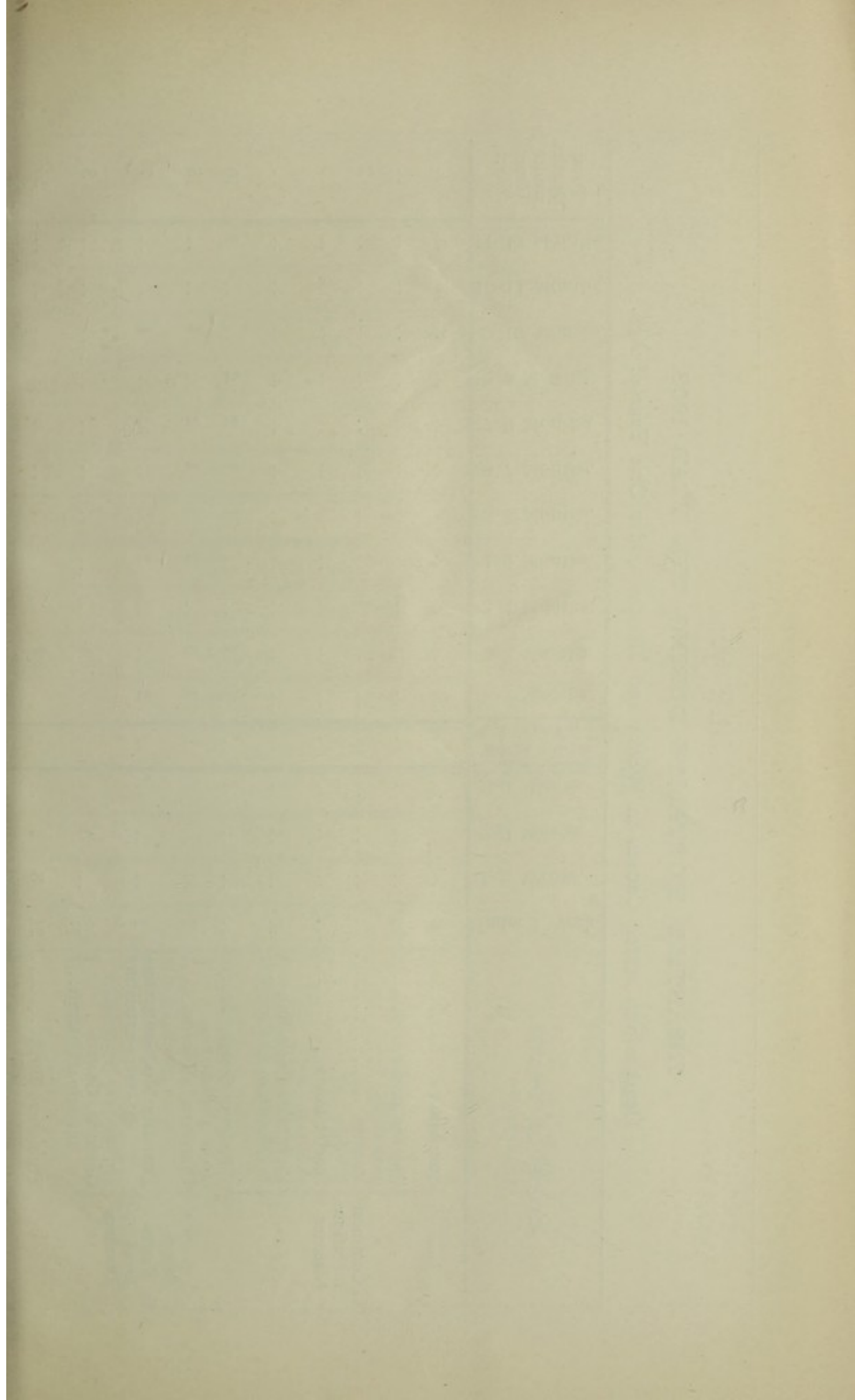


TABLE IV.
CAUSES OF, AND AGES AT, DEATH DURING YEAR 1908.

CAUSES OF DEATH.	DEATHS AT THE SUBJOINED AGES OF "RESIDENTS" WHETHER OCCURRING IN OR BEYOND THE DISTRICT.							Deaths at all Ages of 'Residents' belonging to Localities, whether occurring in or beyond District.				Total Deaths whether of "Residents" or "Non- Residents" in Public Institutions in the District.
	All ages.	Under 1	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and up- wards.	Hindpool.	Central.	Walney.	Eastern.	
Small-pox ... ..	...	...	...	...	...	...	...	2	3	3	2	
Measles	10	2	7	1								
Scarlet fever ... ..	...	...	...	...	...	...	...	6	9	4	3	
Whooping-cough	22	11	9	2				1	2		1	
Diphtheria, including Membranous croup	4		3	1								
Croup ... ..	...	...	...	...	...	...	...
(Typhus ... ..	...	...	...	...	...	...	...
Fever { Enteric	5				4	1		2	2	1		1
{ Other Continued ... ..	...	...	...	...	...	...	...
Epidemic influenza	7					4	3	1	1	3	2	2
Cholera ... ..	...	...	...	...	...	...	...
Plague ... ..	...	...	...	...	...	...	...

Enteritis ... ..	...	...	...	...	1	...	...	1	2	2	1	1	1
Puerperal fever ... ..	...	...	...	...	1	...	1	...	...	1	...	...	...
Erysipelas ... ..	...	...	...	...	2	1	...	1	...	...	1	...	...
Phthisis (Pulmonary Tuberculosis)	64	...	1	4	16	40	3	17	24	12	11	3	...
Other Tubercular diseases	30	...	9	6	2	6	1	9	11	5	5	2	...
Cancer, malignant disease	36	...	...	...	1	26	9	10	12	8	6	13	...
Bronchitis	80	...	7	...	3	16	23	17	25	20	18	10	...
Pneumonia	65	...	10	4	3	24	9	24	20	11	10	11	...
Pleurisy	4	...	1	1	...	2	...	...	2	...	2	...	...
Other diseases of Respiratory organs ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
Alcoholism—Cirrhosis of liver	4	...	...	...	...	4	...	2	...	2	...	...	...
Venereal diseases	1	...	...	...	...	1	...	...	1	...	...	...	...
Premature birth	26	...	...	...	...	...	...	6	8	8	4	...	...
Diseases and accidents of parturition	10	...	...	...	...	8	...	3	3	3	1	...	...
Heart diseases	70	...	...	1	5	28	36	20	24	10	16	6	...
Accidents	24	...	2	6	4	10	1	7	8	5	4	13	...
Suicides	4	...	...	...	...	4	...	...	2	1	1	...	...
All other causes	302	...	18	10	7	75	86	...	...	...	...	27	...
All causes	802	...	70	37	48	252	188	...	...	...	...	88	...





INFANTILE MORTALITY DURING THE YEAR 1908.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.		Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under One Year.
i. Common Infectious Diseases	Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chicken-pox.. .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Measles .....	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2
	Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diphtheria (including Membranous Croup) }	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
ii. Diarrhoeal Diseases	Whooping Cough .....	..	..	..	1	..	1	1	..	..	1	1	2	2	..	..	1	10
	Diarrhoea, all forms	1	..	..	1	..	3	3	..	2	1	1	2	..	1	..	..	15
	Enteritis, Muco-enteritis } Gastro-enteritis }	1	..	..	..	..	2	..	..	3	..	..	..	..	1	..	..	7
	Gastritis, Gastro-intestinal Catarrh... }	..	..	1	1	..	..	1	..	..	..	..	..	..	..	..	..	3
	Premature Birth.....	21	3	1	..	..	..	1	..	..	..	..	..	..	..	..	..	26
	Congenital Defects.....	6	1	..	1	..	2	1	..	1	..	..	..	..	..	..	..	12

Diseases	Deaths in the year of										Population—Estimated to middle of 1908.....									
	194	194	194	194	194	194	194	194	194	194	70603	70603	70603	70603	70603	70603	70603	70603	70603	70603
iv. Tuberculous Diseases	6	3	..	..	..	..	..	..	..	..	6	6	6	6	6	6	6	6	6	6
Want of Breast Milk, Starvation	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Atrophy, Debility, Marasmus	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuberculous Meningitis...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tuberculous Peritonitis: Tabes Mesenterica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Syphilis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rickets	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Meningitis (not Tuberculosis)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Convulsions	6	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bronchitis	3	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Laryngitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Suffocation, overlying	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Causes	6	2	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	50	11	8	6	..	..	..	..	..	..	34	20	9	15	8	9	11	6	9	8
	207	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Births in the year { Legitimate.....1813
 Deaths from all Causes at all Ages..... 47

Population—Estimated to middle of 1908.....70603
 Deaths in the year of { Legitimate Infants... 194
 Illegitimate Infants.. 13

