

**[Report 1911] / Medical Officer of Health, Huddersfield County Borough.**

**Contributors**

Huddersfield (England). County Borough Council.

**Publication/Creation**

1911

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THE  
**ANNUAL REPORT**

TO THE  
**URBAN SANITARY AUTHORITY**  
OF THE  
**COUNTY BOROUGH OF HUDDERSFIELD**

FOR THE YEAR

**1911.**

BY

**S. G. H. MOORE, M.D., D.P.H.**

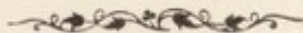
*Medical Officer of Health to the Borough,*

*Medical Superintendent of Hospitals,*

*Chief Medical Officer to the Education Authority*



PRINTED BY ORDER OF THE HEALTH COMMITTEE.



HUDDERSFIELD :

DAILY CHRONICLE PRINTING WORKS, LORD STREET.

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## HEALTH COMMITTEE.

Meets at the Town Hall on the second Wednesday in each month,  
at 3-45 p.m.

GEORGE THOMPSON, Esq., J.P., Mayor, and 21 Members.

Mr. Alderman B. BROADBENT, M.A., J.P. Chairman.

Mr. Councillor S. STEPHENS, Deputy Chairman.

### Aldermen :

A. Gee, J.P.

W. H. Jessop, J.P.

H. Pullon, M.B., C.M.

### Councillors :

J. T. Armitage.  
E. A. Beaumont.  
G. A. Boothroyd.  
B. Bottomley.  
S. Brearley.  
B. Calverley.  
A. Halstead.  
J. Haywood.

T. W. Hesketh.  
D. Midgley.  
J. H. Platts.  
A. Sykes.  
J. Sykes.  
Law Taylor.  
A. Whitworth.  
A. Willis.

### Duties and Powers.

To execute and perform in the name and on behalf of the Council, but subject to the Standing Orders of the Council and to confirmation by the Council, all the powers and duties of the Corporation in relation to the following:—

- Infectious and Epidemic Diseases.
- Hospitals for Infectious Diseases.
- Common Lodging Houses.
- Cleansing of Infected Houses.
- Prevention of Pollution of Rivers and Streams.
- Health Statistics and Sickness and Mortality Returns.
- Superintendence of the Department of the Medical Officer of Health.
- All the powers and duties imposed upon the Council by the Midwives Act, 1902.
- Removal and Disposal of Nightsoil and Refuse.
- Public Urinals and Conveniences.
- Nuisances.
- Offensive Trades.
- Control of Drains, Privies, Ashpits, and Cesspools.
- Buildings and Rooms unfit for Habitation
- Polluted Wells.
- Adulteration of Food and Drugs.
- Unwholesome Food.
- Cowsheds, Dairies, and Milkshops.
- Canal Boats.
- Factories and Workshops.
- Small Holdings and Allotments (pursuant to the Small Holdings and Allotments Act, 1908).

## Public Health Department.

### STAFF :

#### *Medical Officer of Health :*

S. G. H. MOORE, M.D., M.B., Ch.B., D.P.H.

#### *Assistant Medical Officers of Health :*

M. MACDONALD, M.D., D.P.H.

AGNES J. MACLAREN, M.B., C.M., L.M., D.P.H.

M. M. THOMSON, L.R.C.P., L.R.C.S., L.M., D.P.H.

#### *Public Analyst :*

L. GORDON PAUL, Ph.D., F.I.C.

#### *Veterinary Inspector :*

J. McKINNA, F.R.C.V.S.

#### *Hospital Matron :*

Miss M. STEVENSON.

#### *Chief Sanitary Inspector :*

WILLIAM MEDLEY DRAKE. †

#### *Deputy Chief Inspector :*

ALBERT BROOK. † § ‡

#### *Assistant Inspectors :*

M. G. H. TRESIDDER. †      OSCAR E. GRAHAM. †

M. V. SUTCLIFFE. †      JOHN W. BEAUMONT. † §

FRANK W. DUNSTAN. †

#### *Inspector under the Housing and Town Planning Act :*

ERNEST RICHARDSON. †

#### *Removal Officer :*

M. TURNER.

#### *Clerks :*

NORMAN LOCKWOOD.

H. TATE.

W. BREARLEY.

† Certificate of Royal Sanitary Institute for Inspector of Nuisances.

§ Certificate of Royal Sanitary Institute in Practical Sanitary Science.

‡ Certificate of Sanitary Inspectors Examination Board.

## ABSTRACT.

---

1. **Situation of the Borough.**—Latitude  $53^{\circ} 39' 7''$  N.;  
Longitude  $1^{\circ} 47' 30''$  W.
2. **Elevation**—Varies from 150 feet to 1200 feet above Sea Level.
3. **Area of the Borough.**—11,859 acres.
4. **Population.**—1911 Census, 107,825; estimated at middle of 1911, 108,144.
5. **Density of Population.**—For the Borough 9.1 persons per acre.
6. **Marriages.**—Number during the year, 971; rate per 1,000 of the population, 8.98.
7. **Births.**—
 

Males ...	...	1079	}	Total 2122.
Females ...	...	1043		

  
 Rate 19.69.
8. **Deaths.**—
 

Males ...	...	802	}	Total 1635.
Females ...	...	833		
9. **Natural Increase.**—For the year, 487.

Annual rate of mortality, 15.17.

Mean rate during years 1901-1910, 15.99.

Total deaths from zymotic diseases, 197.

Annual rate of mortality      do.      1.83.

Mean rate of mortality      do.      years 1901-1910, 1.29.

NOTE.—“Rate”= per 1,000 per annum. All rates are calculated on the Registrar General's figure.



TO THE CHAIRMAN AND MEMBERS OF THE HEALTH  
COMMITTEE OF THE COUNTY BOROUGH  
OF HUDDERSFIELD.

MR. CHAIRMAN AND GENTLEMEN,

I have the pleasure to submit herewith the 44th Annual Report on the work of the Public Health Department of the Borough.

Since the census of 1901 the County Borough of Huddersfield has been to some extent under a cloud, because in that year the census revealed the disappointing fact that the population of the Borough was declining, and consequently for 10 years after then all estimates of populations and mortality rates were based on this assumption. But for so long back as 1902, I have been of the belief that the population of the town was not decreasing, but on the contrary increasing, and a reference to my last nine annual reports will show the facts upon which I based my belief.

It is, of course, now common knowledge that the census taken in the early part of 1911 fully justified my opinion.

All the mortality rates for the past ten years had been calculated on erroneous figures which had an unfavourable effect on the rates for the Borough. These figures have all been adjusted in the present report, but I would again urge the great importance of instituting a quinquennial census.

During 1911 2,122 births were registered in the Borough, equal to a rate of 19.69. The number of marriages solemnized during the year was 971, equal to a rate of 8.98. The death rate for 1911 was 15.17, compared with 14.76 in 1910, 14.64 in 1909, and 15.54 in 1908.

The zymotic death rate was 1.83, compared with 1.00 the corresponding period last year. The rate during the ten years 1901 to 1910, 1.29 per 1,000.



The infant mortality rate was 132 per 1,000 births registered, compared with 99 for the year previous. On page 14 the reason for this increase is stated.

The death rates as a whole are rather higher than those of the previous year. This is accounted for by the very hot and dry summer experienced.

I desire to express my appreciation of the way in which all the members of the staff of the Department have carried out their duties, and I trust that this state of affairs will continue.

I am, Gentlemen,

Faithfully yours,

A handwritten signature in cursive script, reading "S. G. Moore". The signature is written in dark ink and is positioned above the printed name and title.

M.D., D.P.H.,

Medical Officer of Health.

Public Health Department,  
Huddersfield,  
August 29th, 1912.

# STATISTICS.

## Population.

The population on the basis of the Registrar-General's method of computation, estimated to mid-year, 1911, was 108,144, or an increase of 1,324 for the year, equal to 1.22 per cent of the total number of inhabitants.

The following table shows the changes in the population census by census since the year 1831, and the change per cent:—

Census.	Population.	Variation.	Rate per cent.
1831	36732	...	...
1841	44933	+ 8201	+ 22
1851	54073	+ 9140	+ 20
1861	60940	+ 6867	+ 12
1871	70253	+ 9313	+ 15
1881	81823	+ 11570	+ 16
1891	†95420	+ 13597	+ 16
1901	95047	- 373	- 0.39
1911	107825	+ 12778	+ 13

† Including the district of Longwood, which was added in 1890, and had a Census population in 1891 of 5,406 persons.

+ Increase.

- Decrease.

## Marriages.

The number of marriages solemnized in the Borough was 971, equal to 8.98 per 1,000 of the population.

The following table shows the average annual number of marriages in the Borough and in the Huddersfield Union in five yearly periods from 1876 to 1910, and the numbers for the year 1911.

Periods.	Borough of Huddersfield.	Huddersfield Poor Law Union.	Average Population of the Borough.
1876-80	820	1178	78919
1881-85	852	1247	84633
1886-90	843	1279	91440
1891-95	844	1298	95336
1896-00	882	1384	95149
1901-05	916	1422	97821
1906-10	914	1486	104192
1911	971	1494	108144

### Births.

In Tables A and No. 7 (post) will be found details of the birth-rates in the various districts of the Borough. The following short statement gives the population, births, and birth-rate for the years 1872, 1882, 1892, and 1902.

Year.	Population.	Births.	Birth-rate.
1872 ...	71,780 ...	2,682 ...	37.5
1882 ...	83,271 ...	2,562 ...	30.8
1892 ...	95,373 ...	2,214 ...	23.3
1902 ...	96,573 ...	2,354 ...	24.0

It will be seen that the birth-rate underwent a reduction of 38 per cent in 20 years, and that it has apparently become stationary at about 23 or 24 per 1,000 population.

A Table shewing the population, deaths, births, and natural increase of population year by year for the period 1872 to 1911 inclusive is given on page 17.

During the year 2,122 births were registered; less by 42 than during 1910. The sexes and rates for the year, and for each quarter are shown in the table below.

1911.	Males.	Females.	Totals.	Birth-rate.
1st Quarter.	261	284	545	20·23
2nd „	290	284	574	21·30
3rd „	265	235	500	18·56
4th „	264	243	507	18·82
Totals...	1080	1046	2126	19·73

This table is not corrected by the Registrar-General's transferable births.

## England and Wales, 1911.

### Birth Rates, and Infantile Mortality Rates.

	Estimated Population to Middle 1911.	Number of Births, 1911.	Birth-rate per 1,000 persons living at all ages.	Infant Mortality Annual Death- rate of Infants under 1 year per 1,000 Births.
England & Wales	36,168,750	881,241	24·4	130
77 Great Towns ...	16,157,797	411,666	25·5	141
136 Smaller Towns	4,979,634	116,451	23·4	133
Huddersfield ...	108,144	2,122	19·69	132



# Births in the Huddersfield Poor Law Union.

Sub. Reg. District.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911
Huddersfield ...	1269	1313	1293	1233	1292	1111	1127	1057	1114	1001	1062	950	1002	966	1099	1059	1133	1104	1042	1091	1090	1071	1078	1055	1094	1117	1101	1022	1010
Almondbury ...	404	440	410	363	394	374	383	359	362	321	355	302	332	352	393	485	622	638	574	597	559	547	545	582	530	530	540	510	496
Kirkheaton.....	298	374	448	391	397	412	394	349	367	380	372	335	334	322	359	282	135	139	149	154	140	161	159	151	142	131	138	152	136
Kirkburton ...	341	371	317	330	382	338	346	298	328	303	278	297	286	282	255	289	280	290	270	306	310	332	292	306	297	288	317	308	291
New Mill .....	207	196	196	202	185	167	174	154	183	157	159	140	162	151	160	156	149	152	135	135	149	145	133	151	141	141	119	122	129
Holmfirth .....	307	289	299	278	268	273	290	241	262	231	234	223	214	236	204	221	190	188	183	202	196	202	167	197	184	183	176	190	163
Honley .....	355	373	351	334	376	342	329	323	345	336	303	258	294	290	291	316	270	272	284	297	284	276	270	266	305	265	273	223	273
Lockwood .....	510	544	508	484	473	507	463	449	455	459	438	395	484	402	504	608	621	651	573	614	614	638	633	677	588	662	681	633	622
Slaithwaite.....	279	294	283	249	254	260	245	249	273	308	315	295	274	278	226	239	212	224	196	217	212	208	216	215	230	224	242	194	224
Golcar.....	707	680	651	662	660	640	657	552	582	610	591	493	502	527	547	421	436	413	416	370	400	387	381	397	433	377	396	377	412
Totals...	4677	4874	4756	4526	4681	4424	4408	4031	4271	4106	4107	3688	3884	3806	4038	4076	4018	4071	3822	3983	3954	3967	3874	3997	3944	3918	3983	3731	3756

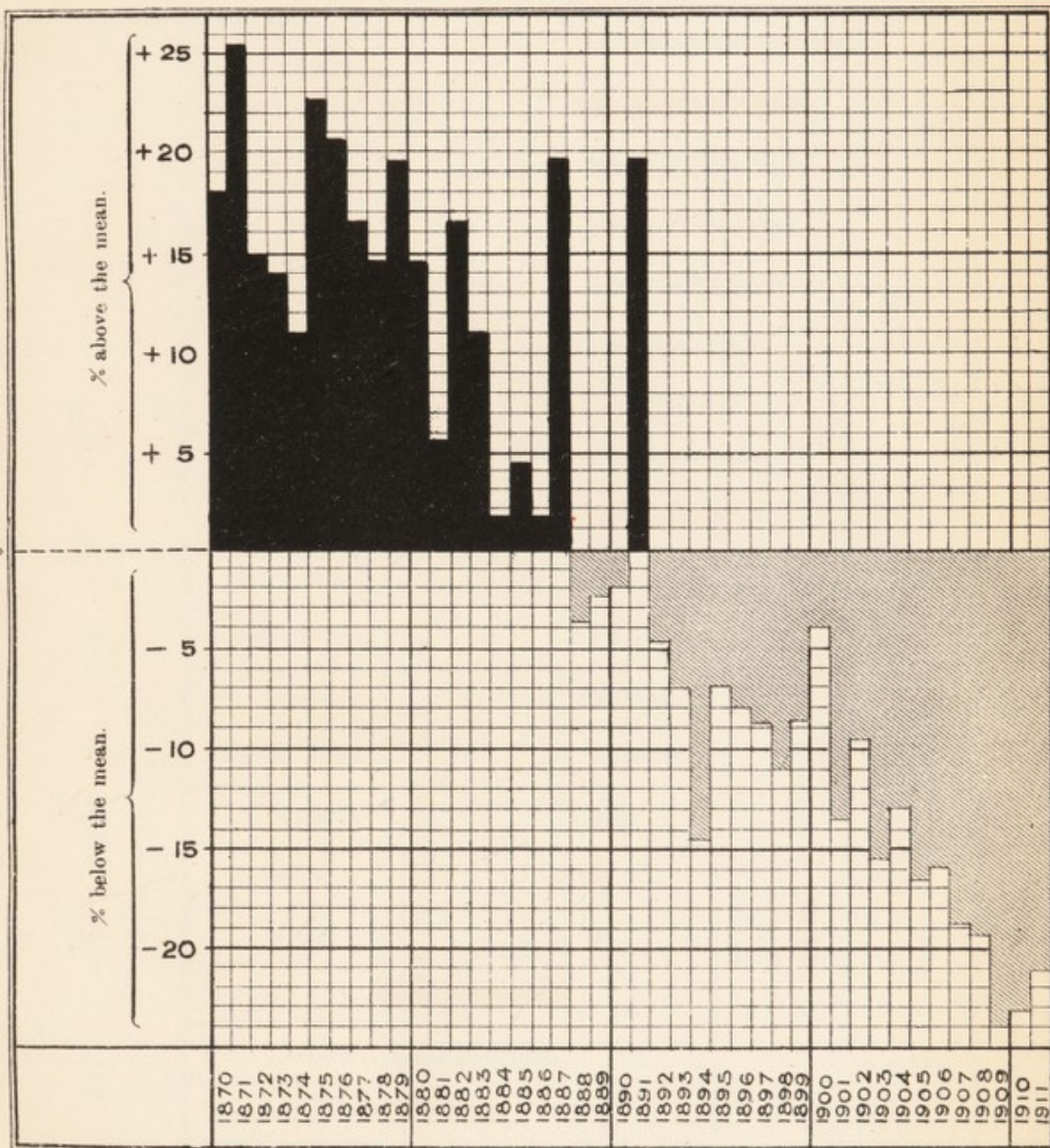
For the information relating to the Poor Law Union I am indebted to Mr. Rigby, Clerk to the Guardians.  
 Note.—In July, 1898, Dalton was transferred from Kirkheaton district to Almondbury, which will explain the serious decrease in the former and increase in the latter.  
 In March, 1898, Lindley and Longwood were transferred from Golcar to Lockwood.

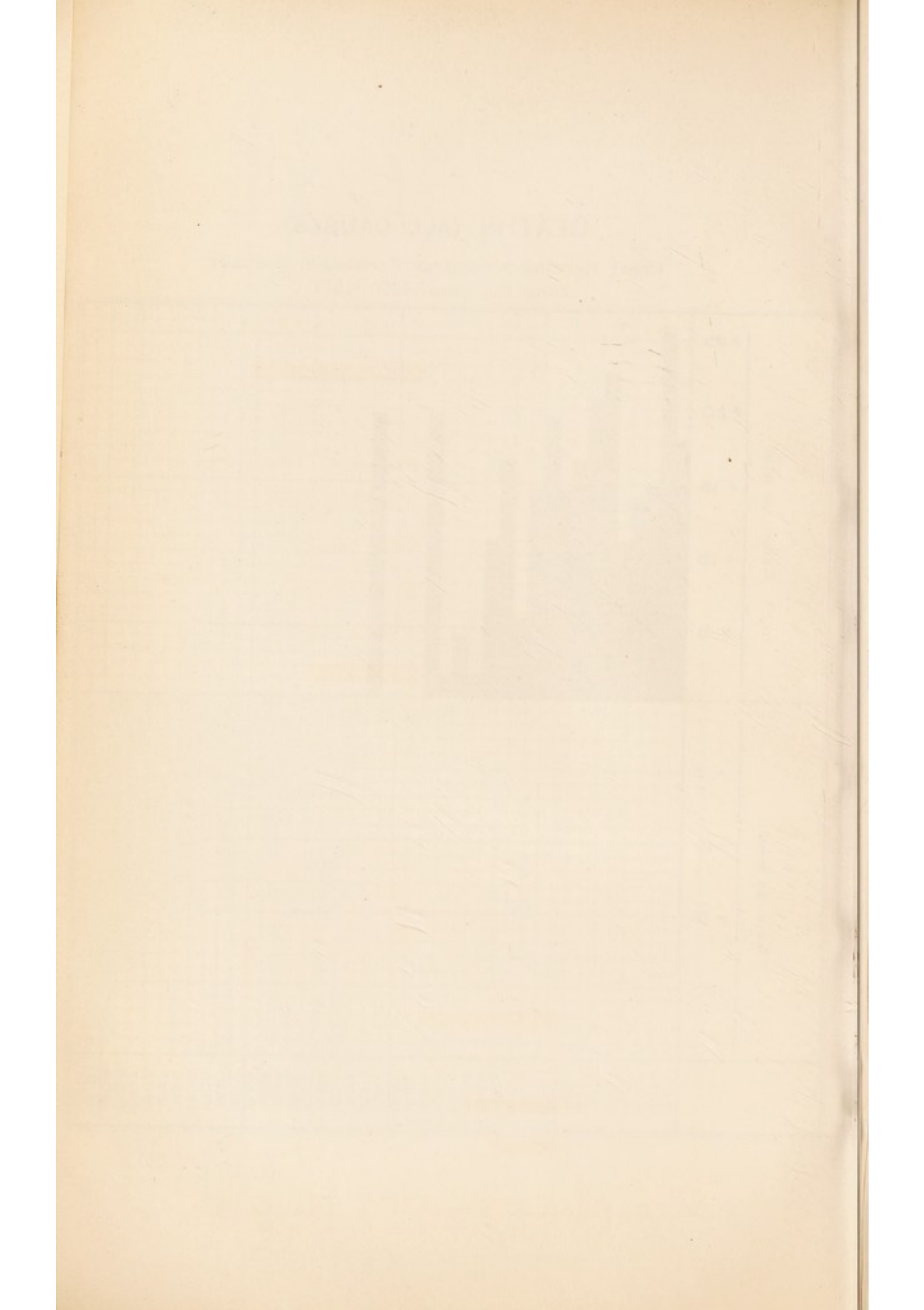


# DEATHS (ALL CAUSES).

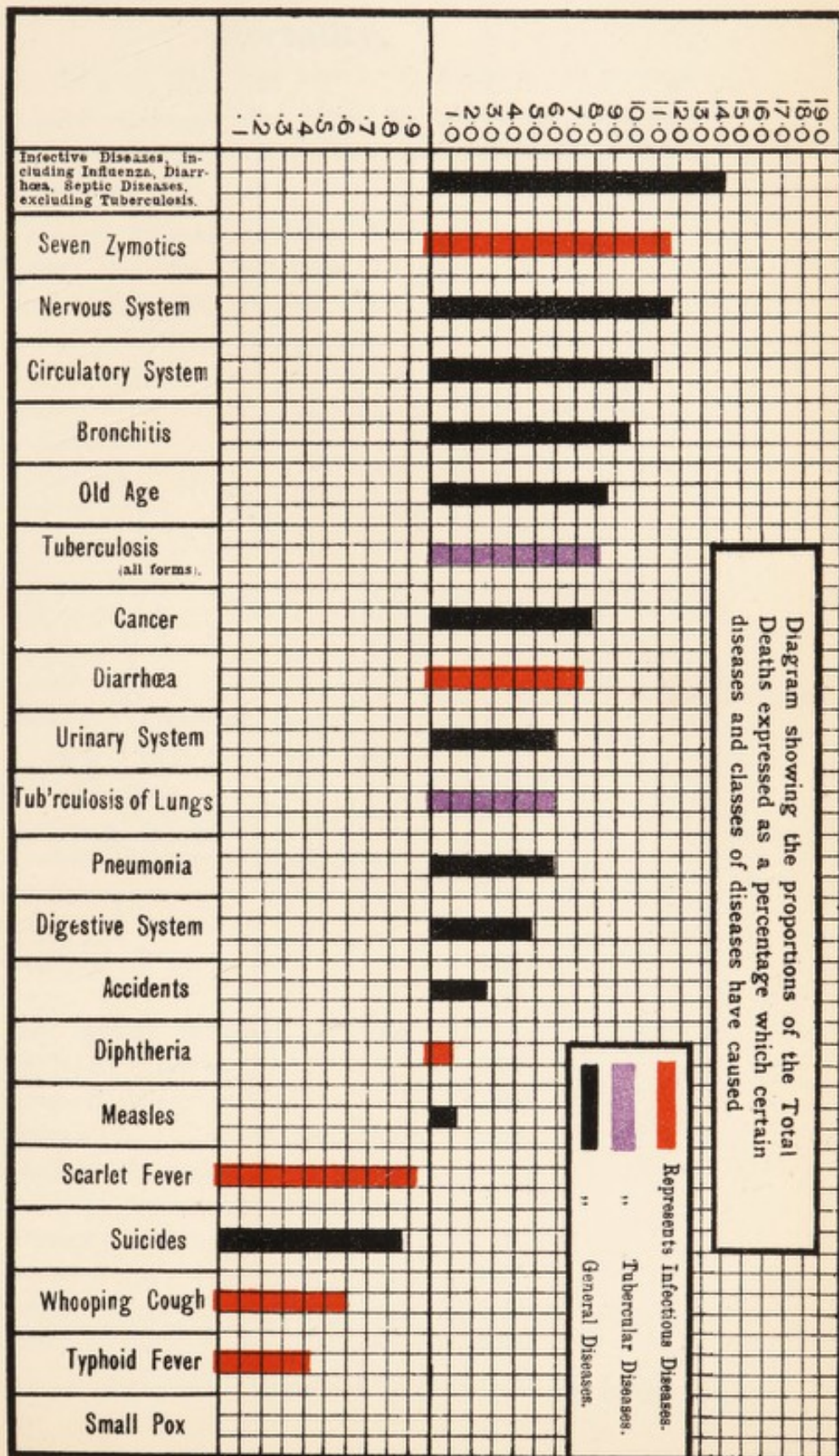
Chart showing percentage fluctuation annually  
from the mean 1870-1911.

Mean of Death-rates 1870-1911. = 19.23 per 1,000 living.













## Mortality.

During the year 1911 there were 1,635 deaths in the Borough.

The tabular statement below shows the proportion of the total deaths, expressed as a percentage, which certain diseases and classes of disease have caused:—

All Infective diseases, including the seven Zymotics, Influenza, In- fective Enteritis, Summer Diarr- hoea, Gangrene, and Pyaemia, but excluding all forms of Tuberculosis					14.01 per cent.
Seven Zymotics					12.05 „
Diarrhoea					7.52
Diphtheria					1.35
Measles					1.04
Scarlet Fever					0.98
Whooping Cough					0.67
Typhoid Fever					0.49
Small Pox					0.00
All diseases of Nervous System, in- cluding Convulsions, Apoplexy, and Epilepsy					11.31 „
All diseases of circulatory system, in- cluding all forms of Heart disease					10.52 „
Bronchitis					9.36 „
Old Age					8.75 „
Tuberculosis, all forms					8.07 „
Cancer					7.89 „
Urinary System, including all forms of Kidney Disease					6.12 „
Tuberculosis of Lungs					5.63 „
Pneumonia					5.63 „
All diseases of digestive system, in- cluding Intestinal Obstruction, Gastric Ulcer, and Appendi- citis					4.71 „
Accidents					2.45 „
Suicides					0.86 „

The above information is expressed graphically in the foregoing diagram.

Deaths at different age periods, expressed in percentages of the total deaths:—

TABLE II.

Aged under 1 year	...	...	...	...	17.19
„ 1 to 2 years	...	...	...	...	4.04
„ 2 to 5 years	...	...	...	...	3.85
„ 5 to 15 years	...	...	...	...	3.67
„ 15 to 25 years	...	...	...	...	3.67
„ 25 to 45 years	...	...	...	...	11.80
„ 45 to 65 years	...	...	...	...	26.79
„ 65 and over	...	...	...	...	28.99

### Deaths in Public Institutions.

of persons resident in the Borough.

In the Sanatorium for Infectious Diseases	30	deaths	occurred.
In the Huddersfield Royal Infirmary...	79	„	„
In the Nursing Home ...	4	„	„
In the Poor Law Workhouses ...	111	„	„
In the West Riding Lunatic Asylums	30	„	„

### Infantile Mortality.

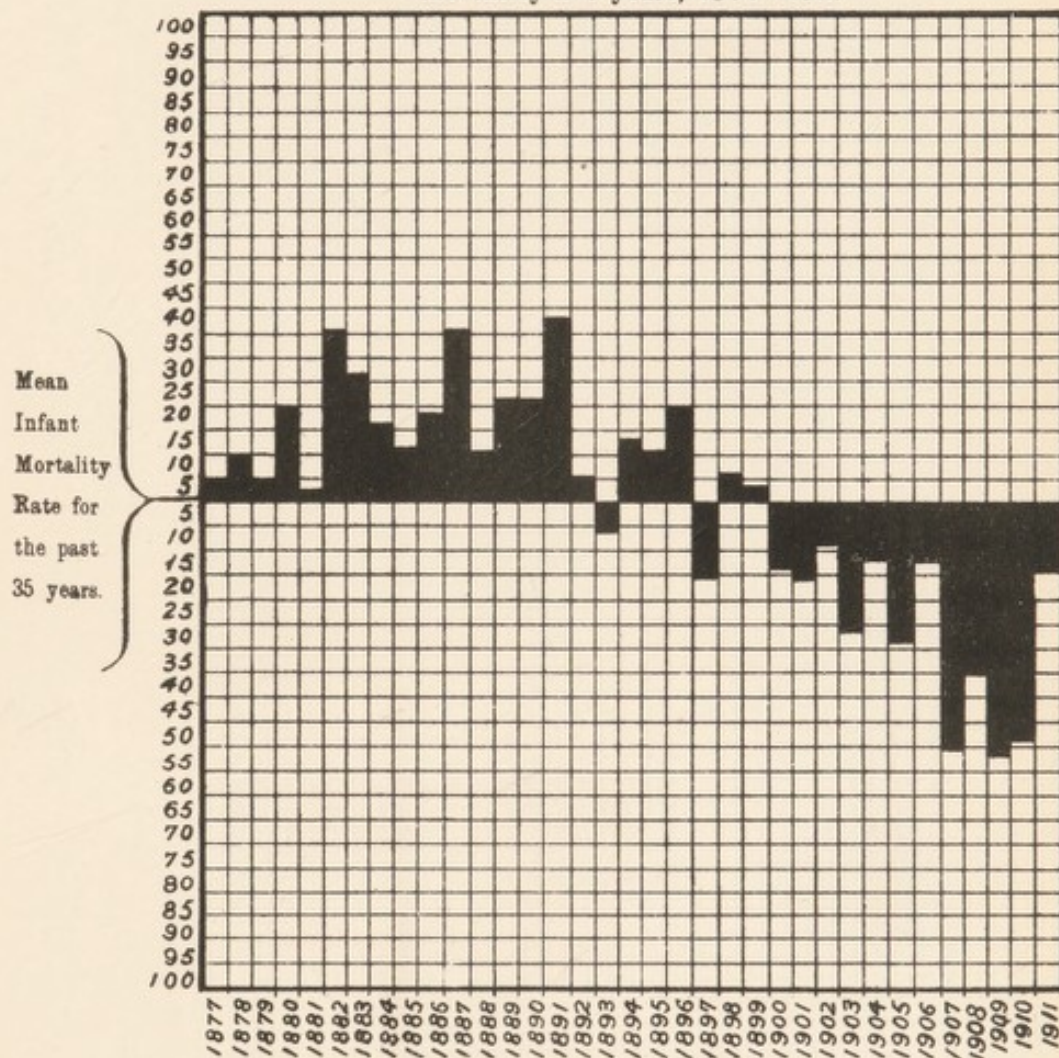
The rate of mortality among infants under one year of age during 1911 shows an increase of 33 on the figure for last year. Thus per 1,000 children born during 1910 the deaths numbered 99. During 1911 the figure was 132.

This increase was practically accounted for by the deaths from diarrhoeal diseases, which jumped from 23 in 1910, to 79 in 1911, owing to the phenomenal meteorological conditions which prevailed during the summer. This bears out the statement made in my annual report of last year to the effect that given unfavourable meteorological conditions the infant mortality rate would increase.



## INFANT MORTALITY.

Diagram showing Annual Departure from the Mean of  
the thirty-five years, 1877—1911.

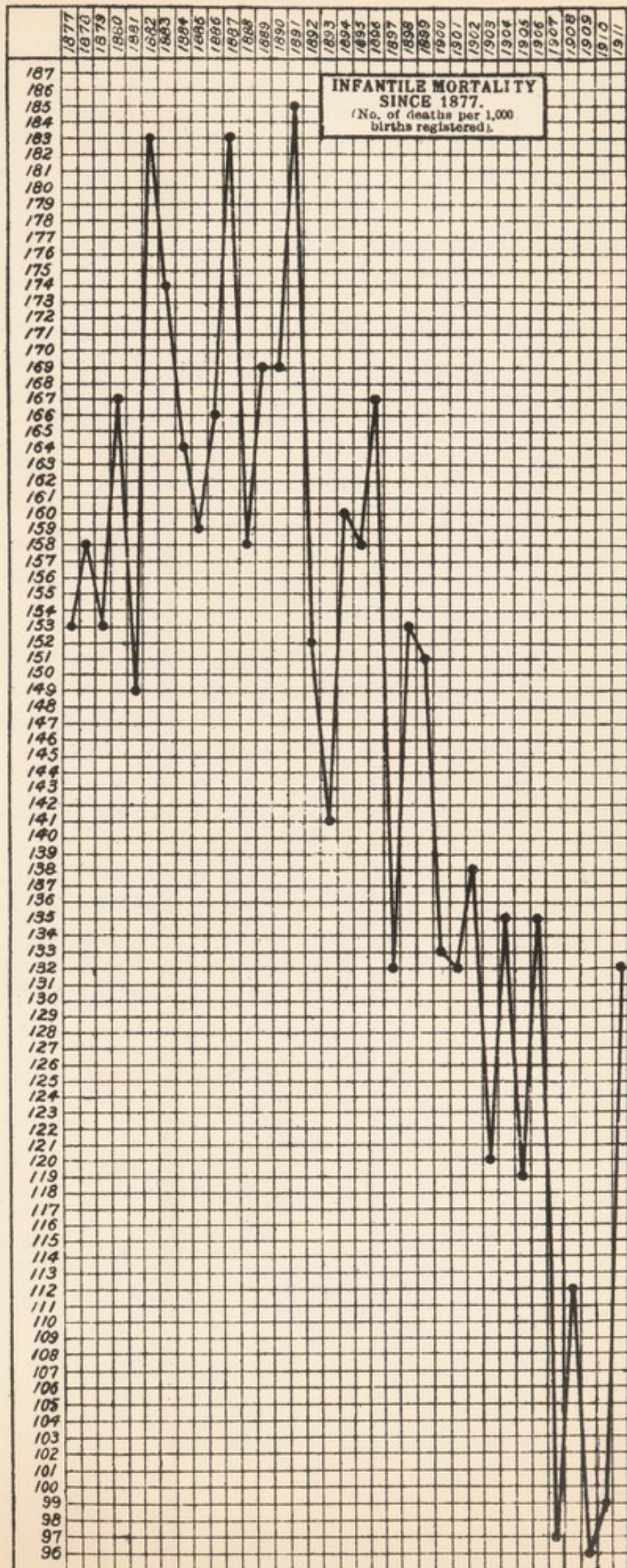


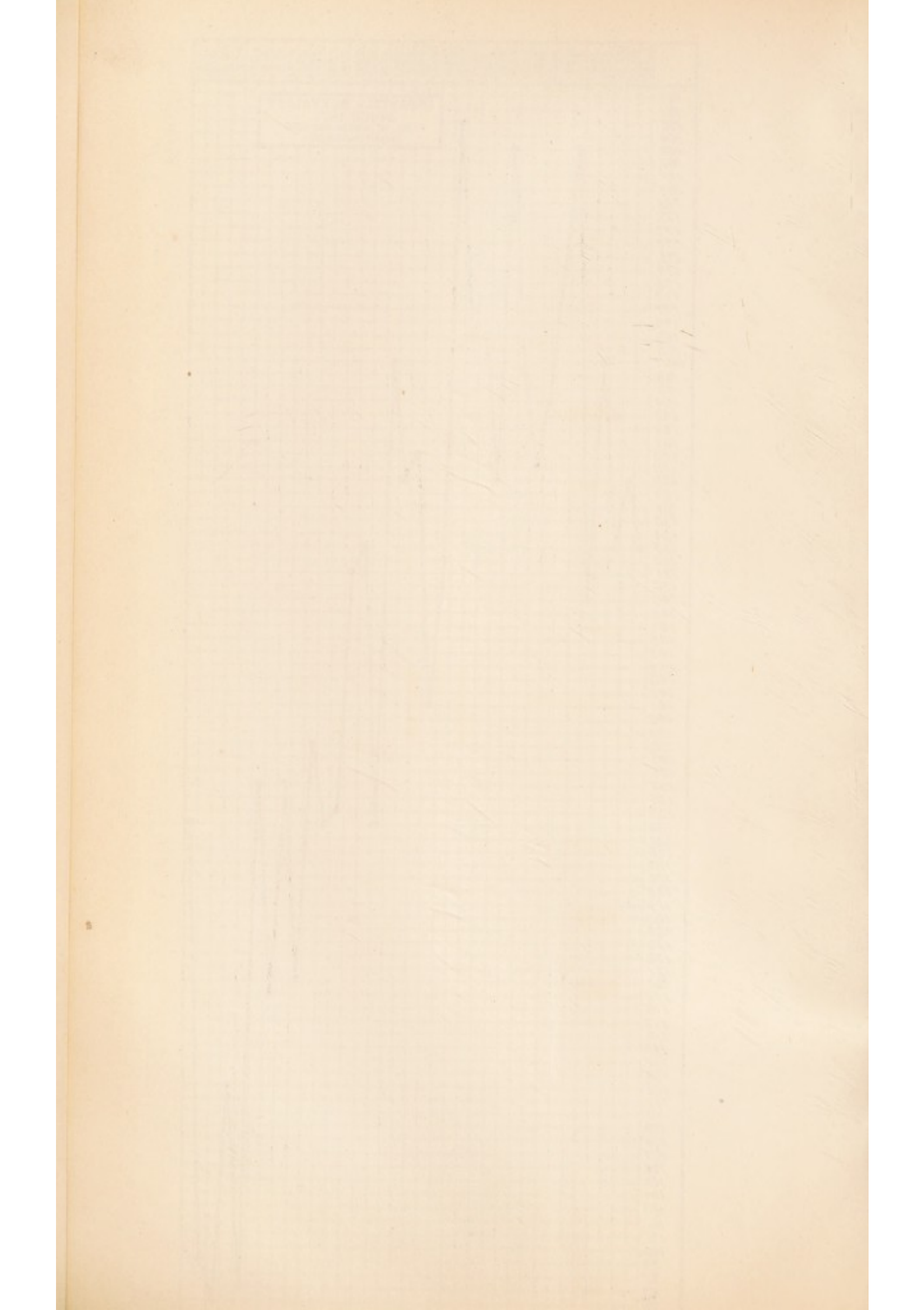


# WEAT MORTALITY

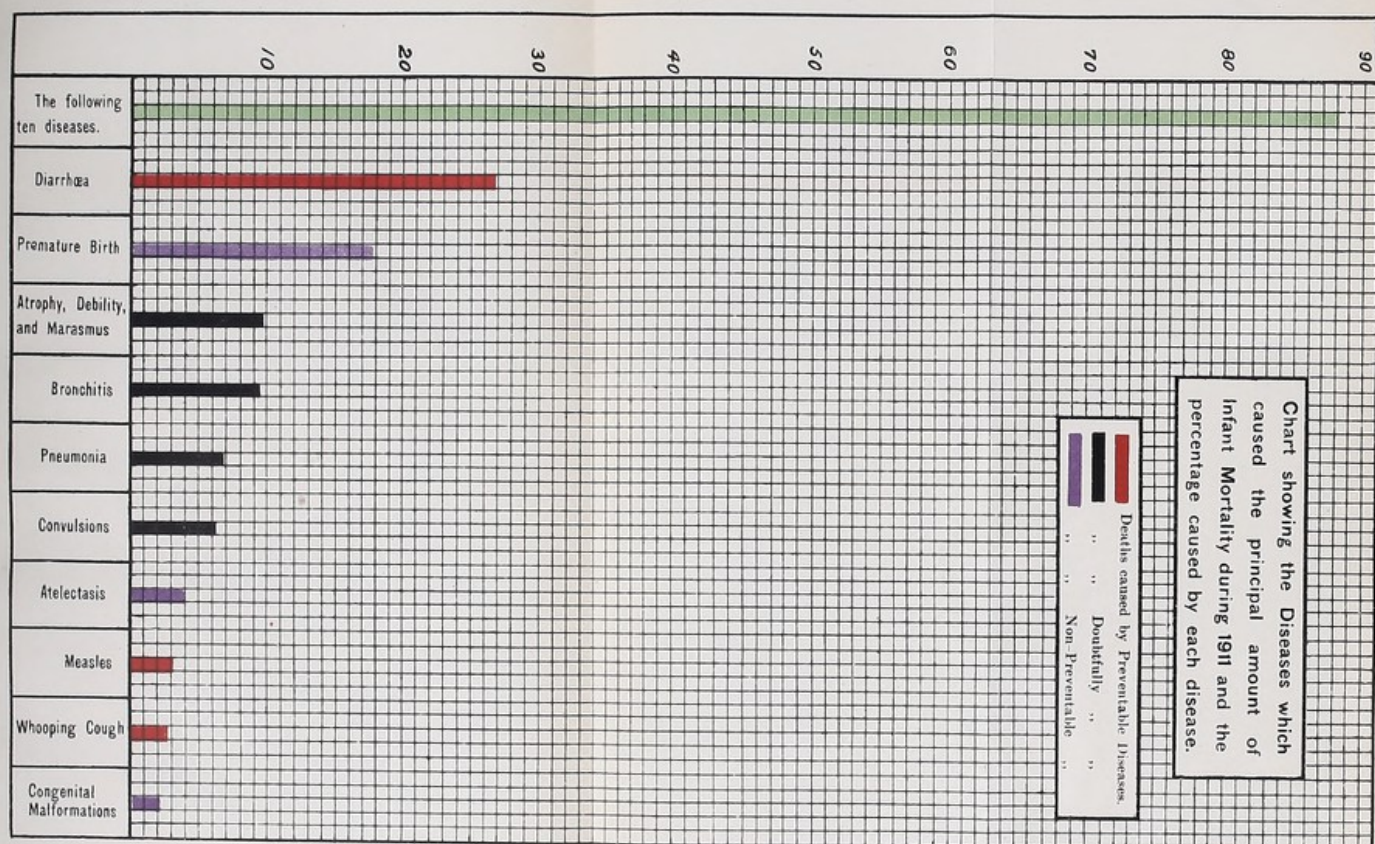
WEAT MORTALITY











THE UNIVERSITY OF CHICAGO

1910

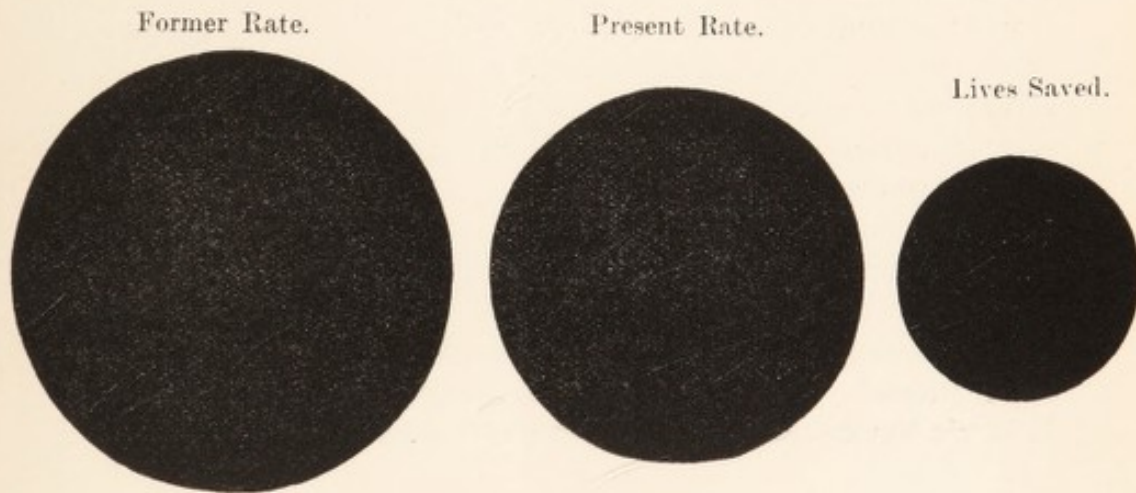
1911

The three graphic representations of the facts relative to infant mortality in Huddersfield, preceding this page, show :—(1) How the rate varies from the average of the 35 years 1877 to 1911 ; (2) the variation in the infant mortality rate year by year, and (3) the diseases which caused the principal amount of infant mortality during the year.

### Saving of Infant Life.

The number of children born during the years 1907-8-9-10-11 was 11,141. If the infant mortality figure during these five years had been 154, that is the average rate for the 30 years 1877-1906, the number of deaths under one year of age would have been 1,716. The number of deaths which actually occurred was 1,193. There is thus an apparent local saving of life of 523.

The following figures represent graphically the foregoing statement :—



Scale 1 sq. m. m. = 1 infant death, or life.



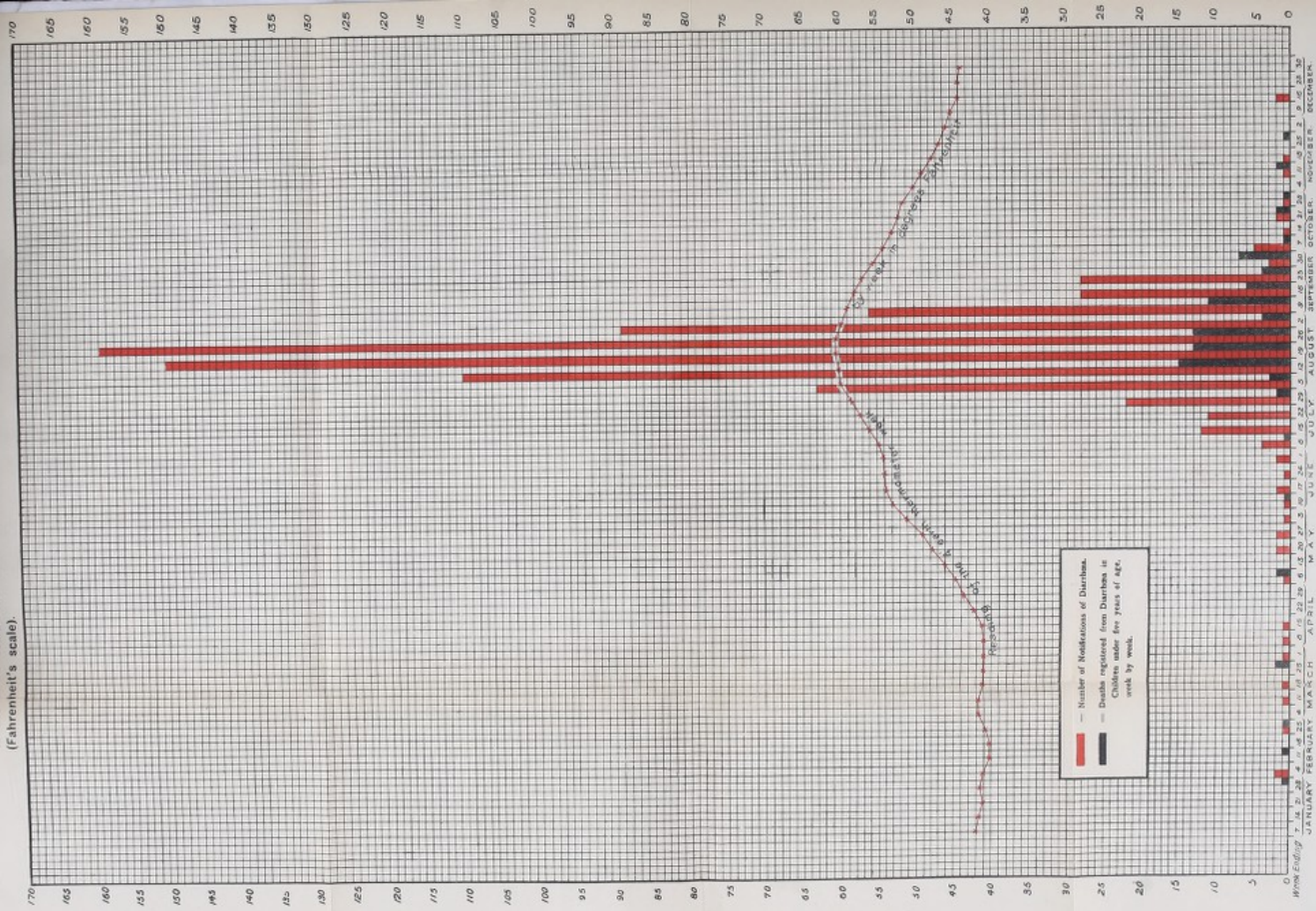
## Midwives Report, 1911.

During the year 1911 there were 23 registered midwives practising in the County Borough of Huddersfield, one of whom has since died. Three of these only acted as monthly nurses, leaving 20 who undertook cases on their own account. These 20 midwives have attended 865 cases. A doctor was present also at 269 of those—being in attendance at 225 cases, and sent for on account of abnormalities to 44 cases. The midwives alone managed 596 confinements.

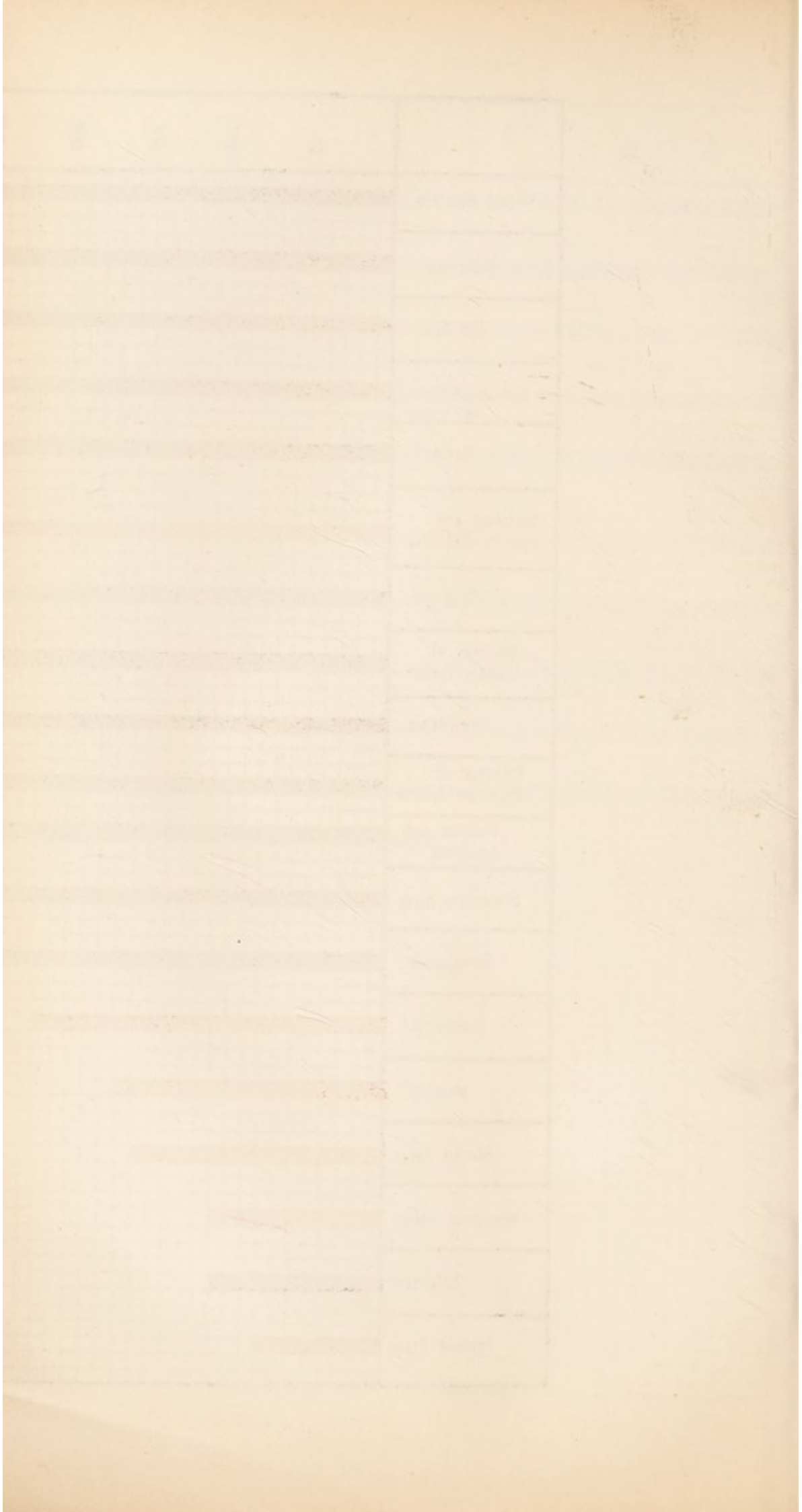
Since 1st April, 1910, the new regulations made under power conferred by the Midwives Act have been enforced in Huddersfield.

Only one death has occurred from Puerperal Fever in the midwives' practice, and in this instance a doctor also was present at the time of parturition. No deaths have taken place from Eclampsia. Of the 23 registered midwives only 10 are trained. The standard of cleanliness, however, is well maintained among the 13 untrained midwives. All are regularly visited by a medical officer, and the inspection prescribed by the Regulations adequately carried out; special attention is given to secure the surgical cleanliness of implements and apparatus employed at labours. The improvement secured by these inspections is satisfactory. Of those untrained six can neither read nor write. They are therefore dependent on friends, or relatives for the keeping of the official register of cases. Mrs. Bennett, one of the eldest practising untrained midwives attended 178 cases during 1911—no doctor being present. Miss Edge, certified midwife, Clare Hill Home (Victoria Nurses) attended 61 confinements alone.

Each Red Horizontal Line in the Chart represents one case of Diarrhoea notified, and each Black Horizontal Line one Death from that disease; the thermometer reading is drawn to the same scale, and each Red Horizontal Line represents 1 degree of temperature (Fahrenheit's scale).









The following table gives the Population, Births, and Deaths, with the excess of births over deaths for the past 40 years:—

Years.	Population.	Births	Deaths.	Excess of Births over Deaths.
1911	108144	2122	1635	487
1910	106820	2164	1571	593
1909	105492	2318	1539	779
1908	104178	2348	1645	703
1907	102877	2189	1601	588
1906	101591	2301	1638	663
1905	100317	2256	1605	651
1904	99056	2243	1657	586
1903	97808	2252	1584	668
1902	96573	2354	1710	644
1901	95351	2175	1581	594
1900	95074	2376	1752	624
1899	95112	2374	1671	703
1898	95149	2295	1625	670
1897	95187	2365	1666	699
1896	95224	2096	1712	384
1895	95261	2151	1699	452
1894	95299	1988	1563	425
1893	95336	2311	1695	616
1892	95373	2214	1746	468
1891	95410	2324	2189	135
1890	94253	2167	1804	363
1889	92825	2276	1738	538
1888	91419	2243	1686	557
1887	90034	2487	2063	424
1886	88670	2385	1727	658
1885	87327	2530	1745	785
1884	86004	2576	1707	869
1883	84450	2488	1799	689
1882	83271	2562	1857	705
1881	82113	2567	1665	902
1880	81780	2545	1797	748
1879	80245	2598	1871	727
1878	78900	2759	1733	1026
1877	77600	2705	1735	970
1876	76072	2664	1760	904
1875	75069	2735	1770	965
1874	74150	2571	1585	986
1873	72940	2641	1525	1116
1872	71780	2682	1674	1008

## General, Zymotic, Tubercular, and Infantile Mortality.

Table showing the rates of Mortality in Huddersfield for the year 1911 and **each of its quarters**, from all causes, from the seven Zymotic diseases, from all forms of Tuberculosis, and the ratio of the deaths in children under one year, to a thousand births in the same periods, with the infant mortality figure in the 77 great towns, and similar table for 1910.

Quarter	HUDDERSFIELD.				77 TOWNS.	
	All Causes.	Seven Zymotics.	Tuberculosis : all forms.	Children under one per 1,000 births.	All Causes.	Children under 1 per 1,000 births.
I.	15.29	0.89	0.78	114	16.8	115
II.	14.85	1.15	1.63	87	13.8	96
III.	15.66	4.19	1.34	236	16.6	225
IV.	14.88	1.08	1.15	101	14.7	125
Year 1911	15.17	1.83	1.22	132	15.5	141

SIMILAR TABLE FOR 1910.

Quarter.	HUDDERSFIELD.				77 TOWNS.	
	All Causes.	Seven Zymotics.	Tuberculosis : all forms.	Children under one per 1,000 births.	All Causes.	Children under 1 per 1,000 births.
* I.	16.95	1.01	1.58	110	15.7	115
II.	13.53	0.79	1.65	77	13.3	96
III.	13.15	1.24	1.20	101	12.3	112
IV.	15.40	0.98	1.31	110	15.4	137
Year 1910	14.76	1.00	1.44	99	14.2	115

\* The first quarter includes 76 Towns only.

## Infectious Diseases.

The death rate from the seven Zymotic Diseases during the year was 1.83 per 1,000, and the death rate from the same cause during the preceding year, 1910, was 1.00. For the 10 years ending 1910 the mean rate was 1.29.

A short statement is set out hereunder showing in what proportion the various Zymotic Diseases contributed to the total number during each year since 1906 :—

			1906	1907	1908	1909	1910	1911
Measles	...	...	61	10	66	18	10	17
Scarlet Fever	...	...	7	6	3	9	18	16
Diphtheria	...	...	13	8	8	20	15	22
Whooping Cough	...	...	32	18	14	15	29	11
Typhoid and other fevers	...	...	9	11	9	11	5	8
Zymotic Enteritis	...	...	81	20	59	26	30	123
Small Pox	...	...	0	0	0	0	0	0
			203	73	159	99	107	197

The percentage of the total Zymotic death rate caused by each Zymotic disease is shown in the following statement :—

	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Typhoid Fever.	Zymotic Enteritis.	Small Pox.
1910	9.3	16.8	14.0	27.1	4.7	28.0	...
1911	8.6	8.1	11.2	5.6	4.1	62.4	..

## Scarlet Fever.

This disease has been again very prevalent during the year, and although the number of notifications received compare very favourably with the number of cases notified in 1910, yet it is very much above the average for the past 31 years, as will be seen from the following figures :—

Number of cases during 1911	...	...	...	540
Cases notified during 1910	...	...	...	937
Average number of cases for the past 31 years				
1881 to 1911	...	...	...	356



There is a certain class of people in the Borough who either will not, or cannot, understand the necessity of calling in a medical attendant to cases of illness of a doubtful character, so long as the malady does not become dangerous to the life of the patient. Several times during the year under review outbreaks of scarlet fever have been traced to cases of illness of so slight a nature that the parents or guardians did not recognise the nature of the malady, and neglected to call in medical treatment.

The Sanatorium for infectious diseases at Dalton still continues to be a great value in combatting this disease. Of the total cases notified 521, equal to 96.48 per cent were treated in this institution. The remaining 19 being treated at home. The mortality per 100 cases treated in hospital was 2.9. Among home-treated cases it was 5.3.

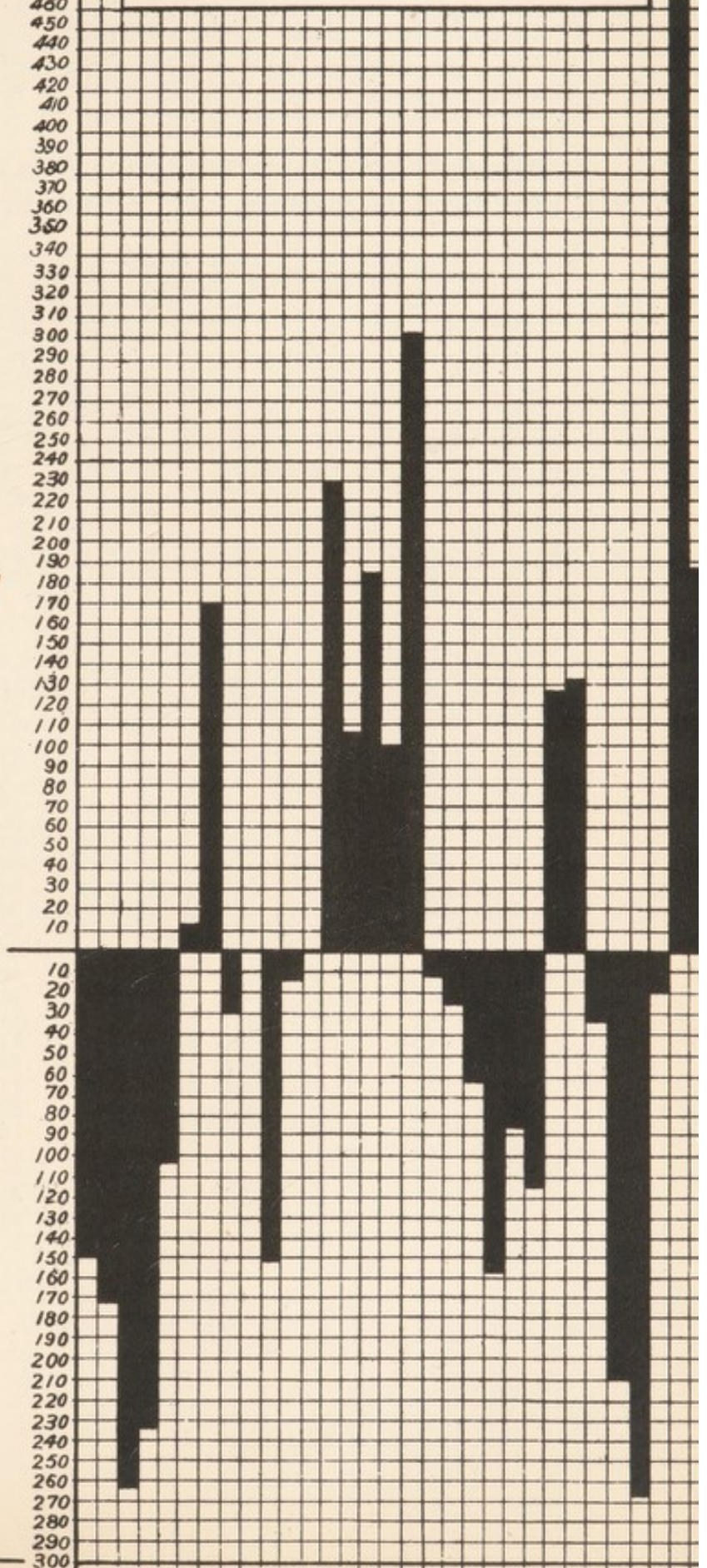
# SCARLET FEVER.

Diagram showing Annual Departure of Prevalence from the Mean of the thirty-one years, 1881-1911.

Mean  
number  
of cases  
for the  
past  
31 years  
1881  
—  
1911.

560  
550  
540  
530  
520  
510  
500  
490  
480  
470  
460  
450  
440  
430  
420  
410  
400  
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290  
300

1881  
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1906  
1907  
1908  
1909  
1910  
1911







**Notification of Scarlet Fever, first adopted in 1876**  
**Hospital Isolation of Scarlet Fever commenced about same time**

Year	Estimated population.	Total No. of Cases notified.	No. under 5 years of age.	Total No. of Deaths registered.	No. of Cases treated in Hospit'l	Attack rate per 1000 population.	Mortality per 1000 population.	Percentage removed to Hospital.	No of Deaths in Hospit'l	Notes.
1875	75069	..	..	45	..	..	0.6	..	..	Old reports by M.O.H. state that notification not yet carried out satisfactorily
1876	76072	..	..	83	..	..	1.1	..	..	
1877	77600	128	..	64	81	..	0.8	..	1	
1878	78900	250	..	48	177	..	0.6	..	4	
1879	80245	..	..	90	154	..	1.1	..	12	
1880	81780	138	61	23	30	1.69	0.28	21.73	6	This year the Medical Men without exception notified loyally. (See Annual Report of M.O.H.)
1881	82113	206	71	17	119	2.51	0.21	57.76	7	
1882	83271	184	51	22	119	2.21	0.26	64.67	9	
1883	84450	91	..	7	43	1.08	0.08	45.05	2	
1884	86004	123	..	7	94	1.43	0.08	76.42	2	
1885	87327	251	..	11	185	2.87	0.13	73.70	4	
1886	88670	369	109	33	243	4.16	0.37	65.85	12	
1887	90034	526	144	31	364	5.84	0.35	69.20	17	
1888	91419	326	85	26	233	3.57	0.29	71.47	13	
1889	92825	354	106	26	309	3.81	0.28	87.28	17	
1890	94253	204	48	7	169	2.16	0.07	82.84	5	
1891	95410	341	101	30	296	3.57	0.31	86.80	17	
1892	95373	354	67	18	322	3.71	0.19	90.96	15	
1893	95336	579	129	25	509	6.07	0.26	87.91	17	
1894	95299	462	107	23	397	4.85	0.24	85.93	16	
1895	95261	539	122	20	485	5.66	0.21	89.98	9	
1896	95224	456	103	18	406	4.79	0.19	89.04	11	
1897	95187	658	167	32	608	6.91	0.34	92.40	20	
1898	95149	344	116	10	314	3.62	0.10	91.25	6	
1899	95112	333	66	7	318	3.50	0.07	95.49	5	
1900	95074	294	84	18	268	3.09	0.19	91.16	15	
1901	95351	198	65	6	183	2.08	0.06	92.42	6	
1902	96573	270	65	11	250	2.80	0.11	92.59	10	
1903	97808	244	72	15	230	2.49	0.15	94.26	15	
1904	99056	485	102	10	457	4.90	0.10	94.23	9	
1905	100317	488	117	11	461	4.86	0.11	94.47	8	
1906	101591	322	80	7	287	3.17	0.07	89.13	7	
1907	102877	145	35	6	130	1.41	0.06	89.66	5	
1908	104178	88	29	3	76	0.84	0.03	86.36	3	
1909	105492	337	78	9	311	3.19	0.09	92.28	7	
1910	106820	937	238	18	907	8.77	0.17	96.80	15	
1911	108144	540	116	16	521	4.99	0.15	96.48	15	

Table shewing the number of cases of **Scarlet Fever** known to have existed in Huddersfield during the years 1900—1911, the number occurring in each quarter of these years, and the deaths registered from the same disease; also the average cases and deaths per quarter in the five years 1900—1904 and 1905—1909.

Quarters.	1900		1901		1902		1903		1904		Averages of five years 1900-1904.		1905		1906		1907		1908		1909		Averages of five years 1905-1909.		1910		1911	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
I.	66	2	25	2	49	..	69	4	78	1	57	2	172	3	97	1	41	1	27	1	35	2	74	2	249	7	148	3
II.	97	6	64	..	56	1	66	5	72	1	71	3	87	1	69	2	29	1	30	2	78	2	59	1	190	3	104	7
III.	68	6	69	4	83	4	60	5	138	2	84	4	87	2	97	1	30	2	15	..	51	1	56	1	268	5	105	3
IV.	63	5	40	..	82	6	49	1	197	6	86	3	142	5	59	3	45	2	16	..	173	4	87	3	230	3	183	3
Year.	294	19	198	6	270	11	244	15	485	10	298	12	488	11	322	7	145	6	88	3	337	9	276	7	937	18	540	16



## Typhoid Fever.

The incidence of Typhoid Fever in the Borough during the year has been satisfactory, but not so satisfactory as that which obtained during the preceding four years 1907-8-9-10. The number of cases reported during the year was 48, and during the years 1907-8-9-10 the numbers were 31, 26, 45, and 25 respectively. The average during the past five years was 35, and for the 14 years previous to 1907 it was 60.

Eight deaths from this disease occurred. The case mortality is thus 17 per cent. This is apparently high, but the probable arithmetical error becomes very great in calculating an average on so small a number.

The death rate per 1,000 persons living at all ages for the year was 0.07, being an increase of 0.02 on the rate for 1910, but a decrease of 0.03 from the average for the 10 years 1901-1910.

Of the 48 cases reported 40 were removed to hospital, and eight were treated at home. The case mortality in hospital treated cases was only 10 per cent, but for home treated cases it was 50 per cent. It would thus appear that cases which were treated in hospital had a greater chance of recovery amounting to five times that of cases treated at home. If the figures for the period during which the Sanatorium has been open be taken, the chance of recovery in hospital treated cases is  $2\frac{1}{2}$  times greater than in home cases.



Table shewing the number of cases of **Typhoid Fever** known to have existed in Huddersfield during the years 1900—1911, shewing the number occurring in each quarter of these years, and the deaths registered from the same disease, also the average cases and deaths per quarter in the five years 1900—1904 and 1905—1909.

Quarters.	1900		1901		1902		1903		1904		Averages of five years 1900-1904.		1905		1906		1907		1908		1909		Averages five years 1905-1909.		1910		1911	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
I.	9	3	4	1	8	1	8	3	9	1	8	2	10	4	11	3	10	7	1	1	24	4	11	4	7	2	6	..
II.	15	5	14	..	3	2	5	..	5	1	8	1	7	4	7	..	5	4	4	3	7	5	6	3	2	..	3	..
III.	13	6	30	10	7	..	10	1	26	1	17	4	31	6	25	3	9	..	3	..	6	..	15	2	8	3	15	1
IV.	16	6	37	7	8	2	14	3	21	4	19	4	24	3	32	3	7	..	18	5	8	2	18	2	8	..	24	7
Year.	53	20	85	18	26	5	37	7	61	7	52	11	72	17	75	9	31	11	26	9	45	11	50	11	25	5	48	8

## Diphtheria.

The number of cases of this disease notified during 1911 was 134, showing a very substantial increase on the number notified in 1910, namely 77. This, on the face of it, is very unsatisfactory, but it is to be borne in mind that this disease is on the increase in every urban community.

Of the total cases notified 109, equivalent to 81.34 per cent, were treated in hospital with a case mortality of 9.2 per cent. The remaining 18.66 per cent of the cases notified, namely 25, were treated at home, and resulted in a case mortality of 48.0 per cent.

The deaths for the year totalled 22 equivalent to a death rate of 0.20 per 1,000, comparing with 0.14 in 1910, 0.19 in 1909, and 0.08 in 1908. It will be noted from a reference to Table VI. in the Appendix that in 1911 the death rate from diphtheria was the highest recorded since the year 1897.

It is regrettable to have to report that few applications indeed are received for the supply of anti-diphtheritic serum for use as a prophylactic.

The following tabular statement gives the death rate per 1,000, and the case mortality from this disease during the past five years:

Year.				Case
	Death Rate.			Mortality.
1907	...	0.08	...	11.43
1908	...	0.08	...	8.60
1909	...	0.19	...	12.35
1910	...	0.14	...	19.48
1911	...	0.20	...	16.42

## Summer Diarrhœa.

This disease when occurring in children under the age of five years is notifiable in Huddersfield under the Huddersfield Improvement Act, 1880, Section 65. The notification of the disease commenced on July 1st, 1908. The following statement shows

the number of cases notified year by year since that date, together with the number of deaths caused by the disease:—

Year.	Cases.	Deaths.
1908 (since July 1st).	349	48
1909	156	24
1910	206	28
1911	769	94

A warning circular, of which a copy appears below, was distributed to every householder in the Borough during the hot weather:—

COUNTY BOROUGH OF HUDDERSFIELD.  
PUBLIC HEALTH DEPARTMENT.  
SUMMER DIARRHŒA.

During the prevalence of hot weather each year the above disease, and also other forms of stomach ailments, cause an undue number of deaths, especially among infants, children, and aged persons.

THESE DISEASES ARE PREVENTABLE.

Strict adherence to the following rules will secure immunity:—

Immediately on receiving the family milk supply boil it for two minutes. As soon as it boils place it in a clean jug, and close the mouth thereof with a clean cloth, taking care that the cloth does not touch the milk. (Unless the boiling is prolonged, it will not impair the digestibility, or nourishing power of the milk).

Do not use any form of food if it be not perfectly sound. Special care is necessary with regard to such as is taken uncooked: fruit, some kinds of shell fish, and vegetables, for example.

Avoid the use of well water; if it is the only available supply, boil it before use.

Keep scrupulously clean the person, the clothing, the house, and its surroundings.



**BURN AT ONCE** all vegetable and animal refuse, such as potato peelings, fish offal, and so forth.

Keep ashpits dry; empty slop water into the nearest drain, not on to the surface of the ground.

Have all accumulations of dirt removed at once. The Public Health Department will give prompt attention if notified; report forthwith defective closets, drains, traps, or any other form of nuisance.

Flush the drains, etc., with plenty of water from time to time.

Open all windows and doors whenever practicable, and keep them open.

### **FLIES.**

Consider the habits of flies. They lay eggs in any sort of filth. The eggs grow into maggots. The maggots develop into flies. The flies live on corruption, walk on it, and generally prefer it. Where flies are filth is.

Keep them off food at all cost. They carry about the germs of disease.

### **CARE OF INFANTS AND CHILDREN.**

Until a child is seven months old, it can digest nothing but milk, any other form of ordinary food does it harm.

Out of every 1,000 children born 20 die in one year if they are reared on the breast. If they are hand reared 200 to 250 die in one year. (In some localities the number is greater than in others.) The lesson is obvious.

If a child must be hand reared the greatest care is necessary. Artificial feeding can only be a poor substitute for the natural way.

Feeding bottles should have the teats fitted directly to the bottle. Tubing should on no account be used.

After each feed the bottle and teat should be washed carefully and at once, with soda and water and well rinsed in plenty of clean tap water.

Detailed instructions will be furnished forthwith by the Public Health Department on application. If in need of advice send a post card to the Medical Officer of Health.

During the first few weeks the food should be half milk and half water. Its strength can be gradually increased as the child's digestive power grows stronger. It is better to give more of a slightly weaker food than to give it perhaps so strong that it is not easily digested.

The assistance of medical skill should be obtained immediately if a child is attacked with vomiting, or purging.

By order of the Health Committee,

S. G. MOORE, M.D., D.P.H.,

Medical Officer of Health.

Public Health Department,  
Huddersfield.

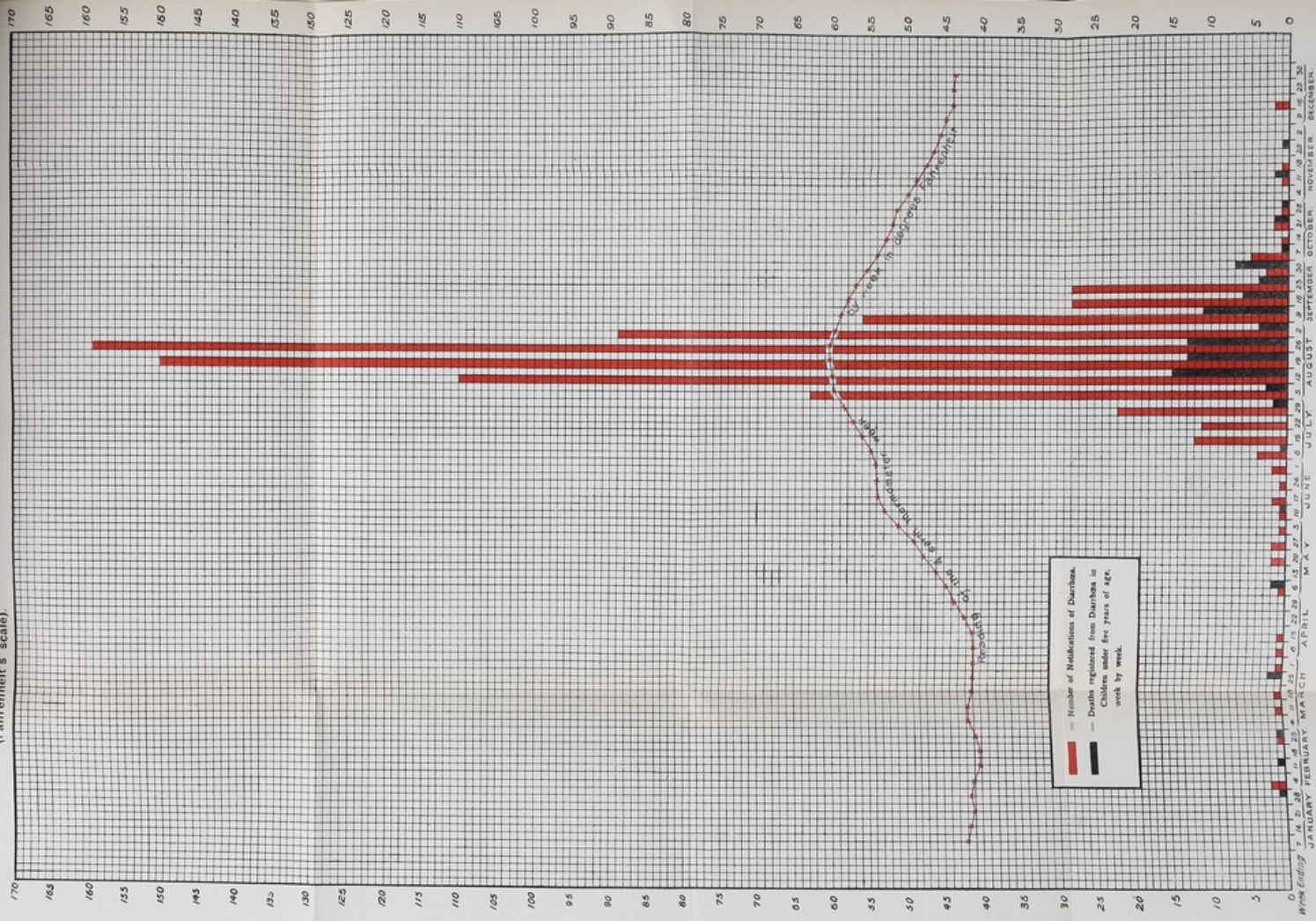
In addition special measures were undertaken to combat this disease. These measures were the thorough removal of all manner of refuse from the vicinity of dwelling houses, disinfection of all ashpits and closets where cases of the disease had occurred, and the flushing of all drains and yards in the denser parts of the Borough at frequent intervals.

In spite of all these precautions this class of disease caused 94 deaths in children under five years of age, equivalent to a case mortality of 12.22 per cent of cases notified. Of these 75 occurred in infants under one year of age, and of remainder, 19, in children between the ages of one year and five years. The case mortality being 22.73 and 4.33 respectively.

The chart on the following page is very interesting, and will repay some little study.



Each Red Horizontal Line in the Chart represents one case of Diarrhoea notified, and each Black Horizontal Line one Death from that disease; the thermometer reading is drawn to the same scale, and each Red Horizontal Line represents 1 degree of temperature (Fahrenheit's scale).







## **Tuberculosis.**

During the past few years very great attention has been devoted to this class of disease throughout the country, and it is becoming more and more recognised by the community at large that, if taken in time, the disease is curable.

The funds which will be available under the Insurance Act for treatment of cases of this disease will, no doubt, be the means of effecting a very considerable reduction in the mortality from tuberculosis.

The Pavilion at the Sanatorium, Mill Hill, has been of very great assistance in the treatment and training of early cases of consumption. The popularity of the institution with consumptives is such that the eight beds available have always been occupied during the year.

The table on the following page shows the list of the cases treated during the year, the dates of admission and discharge, the weight on admission and on discharge, the general condition at the latter date, together with so much of their subsequent history as can be ascertained.

The death rate from all forms of tubercular diseases during the year was 1.22 per 1,000, comparing with 1.44 for the previous year, and 1.64 the rate for the last ten years ending 1910.

# Cases of Consumption of the Lung admitted to Sanatorium during the year 1911.

No.	Name of Patient.	Date of Admission.	Weight on Admission.	Date of Discharge.	Weight on Discharge.	Condition on Discharge.	Subsequent History.
1	Thomas Flaherty	4th Feb., 1911	8 st. 10 lb.	16th Sept., 1911	9 st. 8½ lbs.	Improved	Well & working
2	Fred Oxby	20th Feb., 1911	7 st. 12¾ lbs.	20th May, 1911	9 st. 3 lbs.	Improved	Working. Chemist's warehouse-man
3	William Mannion	20th Feb., 1911	9 st. 10½ lbs.	8th Mar., 1911	9 st. 9½ lbs.	Dismissed	Died
4	Tom Moorhouse	17th Mar., 1911 (re-admission)	9 st. 2 lbs.	16th Sept., 1911	10 st. 1½ lbs.	Improved	Not working. Too weak
5	Stanley Lodge	17th Mar., 1911	7 st. 7½ lbs.	16th Sept., 1911	8 st. 6½ lbs.	Improved	Died
6	John Kelly	1st April, 1911	8 st. 2½ lbs.	27th June, 1911	10 st. 4½ lbs.	Improved	Selling papers on street
7	Thomas Shenton	13th April, 1911 (re-admission)	8 st.	6th June, 1911	9 st. 9½ lbs.	Improved	Not working. Able to get about
8	James Hardy	22nd May, 1911	8 st. 9½ lbs.	3rd Aug., 1911	8 st. 5½ lbs.	Not improved	Died
9	Moorhouse Jenkinson	14th May, 1911	9 st. 1¾ lbs.	19th Jan., 1912	10 st. 6 lbs.	Improved	Working
10	Archibald Harner	30th June, 1911	8 st. 5½ lbs.	22nd Sept., 1911	9 st. 5½ lbs.	Improved	Not working. Too weak
11	Ernest Sugden	5th July, 1911	8 st. 5¾ lbs.	22nd Sept., 1911	8 st. 12 lbs.	Improved	Died
12	Percy Sykes	8th July, 1911	8 st. 6½ lbs.	22nd May, 1912	10 st. 11½ lbs.	Improved	Was working recently
13	Fred Briggs	10th Aug., 1911	7 st. 4½ lbs.	28th Oct., 1911	8 st. 3½ lbs.	Improved	Died from cancer
14	Norman Stafford	18th Sept., 1911	10 st. 9 lbs.	9th Feb., 1912	11 st. 9 lbs.	Improved	Working as insurance agent
15	Ernest Bentley	30th Oct., 1911	9 st. 1¾ lbs.	27th Jan., 1912	9 st. 7 lbs.	Improved	Able to work. Wants light job
16	Daniel Kilgannon	6th Nov., 1911	8 st. ¾ lbs.	23rd May, 1912	Dying. Could not be weighed	Very ill	Died
17	Arthur Mitchell	22nd Nov., 1911	9 st. 11 lbs.	15th June, 1912	Very ill. Could not be weighed	Very ill	Died
18	Walter John Gilbert	8th Dec., 1911	7 st. 7 lbs.	17th May, 1912	7 st. 13¾ lbs.	Improved	Does a little work in house



The following tabular statement shows the number of cases of consumption coming under the notice of the department during the year, together with the source of the notifications:—

	No.	Admitted to Phthisis pavilion.
Voluntary Notifications ...	34	18*
Notifications under the L.G.B.'s Order of Dec. 18th, 1908 ... ..	22	...
Notified under Tuberculosis in Hospital Regulations	11	...
Total ... ..	67	18

\* Includes 2 re-admissions from Huddersfield Townships.

Among the 132 deaths from all forms of Tuberculosis during 1911, it was found that in 46 families deaths from the disease had previously occurred, thus:—

In 32 families 1 death had previously occurred.  
 In 10 families 2 deaths „ „ „  
 In 3 families 3 deaths „ „ „  
 In 1 family 5 deaths „ „ „

In the first quarter of the year there were 21 deaths.  
 In the second quarter there were 44 deaths.  
 In the third quarter there were 36 deaths.  
 In the fourth quarter there were 31 deaths.

The tabular statement below shows the number of deaths which occurred from Tuberculosis in houses containing 1, 2, 3, 4, 5, and over 5 rooms, and also the number of deaths which occurred in the Infirmary, Workhouses, and Asylums during the year:—

5 deaths occurred in 1 roomed houses.  
 18 „ „ „ 2 „ „  
 41 „ „ „ 3 „ „  
 18 „ „ „ 4 „ „  
 11 „ „ „ 5 „ „  
 10 „ „ „ houses with over 5 rooms.  
 5 „ „ „ Infirmary and Nursing Home.  
 24 „ „ „ Workhouses and Asylums.

# OCCUPATIONS OF PERSONS DYING FROM TUBERCULAR DISEASES.

			Males.	Females.	Total.
Millhands	...	...	16	18	34
Domestic Occupation	...	...	—	21	21
Children at home	...	...	12	5	17
Labourers and Masens	...	...	14	—	14
Children at School	...	...	3	5	8
Engineers and Mechanics	...	...	7	—	7
Tailer, Tailress	...	...	1	1	2
Shop Assistants	...	...	—	2	2
Rug Weaver	...	...	—	1	1
Clerk	...	...	1	—	1
Joiner	...	...	1	—	1
Grocer	...	...	1	—	1
Boot and Shoe Dealer	...	...	1	—	1
Cab Driver	...	...	1	—	1
Chemist	...	...	1	—	1
Soldier	...	...	1	—	1
Jeweller	...	...	1	—	1
Evangelist	...	...	1	—	1
Not Stated	...	...	11	6	17
			—	—	—
			73	59	132
			—	—	—

## Measles and German Measles.

There were 17 deaths from Measles, all of which occurred in the first half of the year, namely, six in the first quarter, and 11 in the second quarter. The death rate from this cause was 0.16, for 1910 0.09, and for the 10 years ending 1910, 0.31. An epidemic of these diseases is due in the coming year.

## Whooping Cough.

This disease caused the deaths of 11 children, seven under one year of age, and four between one and two years of age. The death rate was 0.10, and compares very favourably with the rate for last year, which amounted to 0.27. It also compares favourably with the mean rate of 0.21 for the years 1901-1910.

## Influenza.

There occurred during the year under review only 11 deaths from Influenza, being one more than last year:—

In the 1st Quarter there were 5 deaths.

„	„	2nd	„	„	4	„
„	„	3rd	„	„	1	„
„	„	4th	„	„	1	„

All of these deaths occurred in persons aged over 25 years, namely, 4 between 25 and 45, 3 between 45 and 65, and 4 over 65.

## Septic Diseases.

The mortality from these causes was lower than that which was experienced in 1910, and that in the preceding years 1907-8-9.



The following tabular statement shows how the various Septic Diseases contributed to the total year by year since 1907 :—

	1907	1908	1909	1910	1911
Phagedena ...	0	1	0	0	0
Erysipelas ...	6	1	1	5	2
Puerperal Fever ...	2	2	4	3	1
Pyæmia Septicæmia .	10	8	8	7	6
Other Septic Diseases	2	1	4	1	1
	—	—	—	—	—
	20	13	17	16	10
	—	—	—	—	—

#### Other Infectious Diseases.

The Borough was again free from Plague, Cholera, Small Pox, Typhus Fever, and Cerebro-Spinal Meningitis.

Comparison of Various Death Rates  
from 1870-1911

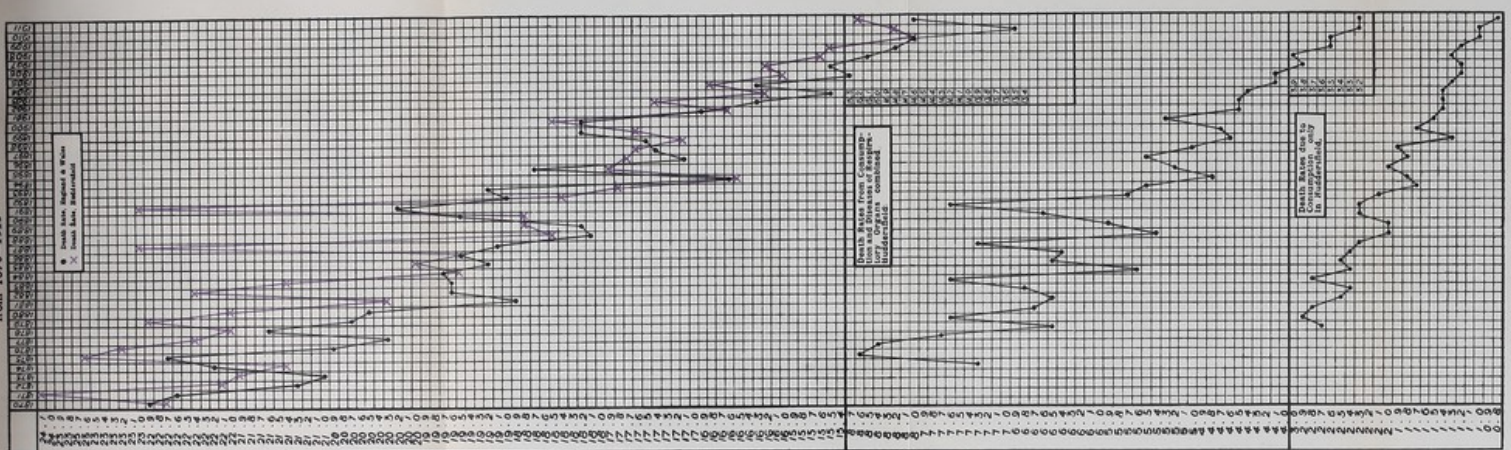






Table shewing the number of cases of Infectious Diseases notified and deaths therefrom in the whole of the Borough during the period 1883-1911.

YEAR.	Estimated Population.	Small-pox Cases.	Deaths.	Scarlet Fever Cases.	Deaths.	Diphtheria Cases.	Deaths.	Typhus Fever Cases.	Deaths.	Enteric Fever Cases.	Deaths.
1883	81450	1	...	91	7	8	3	...	...	41	13
1884	86004	...	...	123	7	8	4	...	...	87	12
1885	87327	3	...	251	11	4	4	...	...	66	10
1886	88670	39	...	369	33	29	12	...	...	45	12
1887	90034	...	...	526	31	83	41	...	...	48	9
1888	91419	15	2	326	26	40	14	...	...	56	12
1889	92825	...	...	354	26	40	12	...	...	50	10
1890	94253	5	1	204	7	21	5	1	...	62	24
1891	95410	...	...	341	30	19	5	...	...	38	15
1892	95373	16	1	354	18	21	7	...	...	22	6
1893	95336	48	2	579	25	13	3	...	...	57	13
1894	95299	5	...	462	23	26	27	1	...	31	11
1895	95261	...	...	539	20	34	19	...	...	60	6
1896	95224	1	...	456	19	43	26	...	...	70	13
1897	95187	...	...	658	33	56	21	1	...	64	16
1898	95149	2	...	344	10	46	14	...	...	77	10
1899	95112	...	...	333	7	26	5	...	...	69	24
1900	95074	...	...	294	19	14	2	...	...	53	20
1901	95351	...	...	198	6	24	6	...	...	85	18
1902	96573	13	1	270	11	37	15	...	...	26	5
1903	97808	53	2	244	15	79	14	...	...	37	7
1904	99056	39	1	485	10	60	14	...	...	61	7
1905	100317	2	...	488	11	45	11	...	...	72	17
1906	101591	...	...	322	7	64	13	...	...	75	9
1907	102877	...	...	145	6	70	8	...	...	31	11
1908	104178	...	...	88	3	93	8	...	...	26	9
1909	105492	...	...	337	9	162	20	...	...	45	11
1910	106820	...	...	937	18	77	15	...	...	25	5
1911	108144	...	...	540	16	134	22	...	...	48	8

Table shewing the number of cases of Diphtheria, Scarlet and Typhoid Fevers reported, treated at Home or in Hospital, with the respective case mortality during the years 1893-1911.

Year.	Disease.	Total.	Home Cases.	Hospital Cases.	Case Mortality per cent.	
					Home.	Hospital.
1893	Scarlet Fever ...	579	70	509	11.4	3.3
1894	"	462	65	397	10.8	4.0
1895	"	539	54	485	20.4	1.9
1896	"	456	50	406	14.0	2.7
1897	"	658	50	608	24.0	3.3
1898	"	344	30	314	13.3	1.9
1899	"	333	15	318	13.3	1.6
1900	"	294	26	268	11.5	5.6
1901	"	198	15	183	0	3.3
1902	"	270	20	250	5.0	4.0
1903	"	244	14	230	0	6.5
1904	"	485	28	457	3.6	1.9
1905	"	488	27	461	11.1	1.7
1906	"	322	35	287	0	2.4
1907	"	145	15	130	6.7	3.8
1908	"	88	12	76	0	3.9
1909	"	337	26	311	7.7	2.2
1910	"	937	30	907	10.0	1.6
1911	"	540	19	521	5.3	2.9
1893	Typhoid Fever...	57	47	10	21.3	10.0
1894	"	31	26	5	38.5	20.0
1895	"	60	49	11	10.2	9.1
1896	"	70	52	18	23.1	5.6
1897	"	64	40	24	25.0	25.0
1898	"	77	30	47	20.0	8.5
1899	"	69	21	48	52.4	22.9
1900	"	53	20	33	50.0	27.3
1901	"	85	23	62	30.4	17.7
1902	"	26	9	17	44.4	5.9
1903	"	37	9	28	22.2	17.9
1904	"	61	10	51	10.0	11.8
1905	"	72	16	56	50.0	16.1
1906	"	75	7	68	42.9	8.8
1907	"	31	13	18	38.5	33.3
1908	"	26	10	16	60.0	18.7
1909	"	45	7	38	42.9	21.1
1910	"	25	2	23	0	21.7
1911	"	48	8	40	50.0	10.0
1900	Diphtheria .....	14	7	7	28.6	0
1901	"	24	17	7	23.5	28.6
1902	"	37	22	15	54.5	20.0
1903	"	79	13	66	53.8	10.6
1904	"	60	30	30	30.0	16.7
1905	"	45	41	4	26.8	0
1906	"	64	39	25	25.6	12.6
1907	"	70	17	53	17.6	9.4
1908	"	93	23	70	13.0	7.1
1909	"	162	31	131	19.4	10.7
1910	"	77	15	62	40.0	14.5
1911	"	134	25	109	48.0	9.2

## STREET LIST.

Arranged under the heading of each infectious disease.

Deaths which occurred in public institutions, or of residents occurring outside the Borough, are allocated to the districts from which the cases were formerly residents.

PLACE OF DEATH.	DISTRICT.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhoea.
1. Ashbrow Road... ..	Budd Township...	..	..	..	..	..	..	1
2. Eack Union Street ... ..	" ..	..	1	..	..	..	..	..
3. Bankfield Road ... ..	" ..	..	..	..	..	1	..	..
4. Belgrave Terrace ... ..	" ..	..	..	..	..	..	1	..
5. Birkby Hall Road, Sunset Terrace ... ..	" ..	..	..	..	..	..	..	1
6. Bradford Road, Iredale's Yard ... ..	" ..	..	1	..	..	..	..	..
7. Bradford Road North ... ..	" ..	..	..	..	..	..	..	1
8. Bradford Road North ... ..	" ..	..	..	..	..	..	..	1
9. Bradford Road North ... ..	" ..	..	..	..	..	..	..	1
10. Bradley Street South... ..	" ..	..	..	..	..	..	..	1
11. Bradley Street South ... ..	" ..	..	..	..	..	..	..	1
12. Brickbank, Northgate ... ..	" ..	..	1	..	..	..	..	..
13. Broomfield Road ... ..	" ..	..	..	..	..	..	..	1
14. Broomfield Road ... ..	" ..	..	..	..	..	..	1	..
15. Castlegate ... ..	" ..	..	..	..	..	..	..	1
16. Castlegate ... ..	" ..	..	..	..	..	1	..	..
17. Castlegate, Swift's Yard ... ..	" ..	..	..	..	..	..	..	1
18. Chapel Hill, Leech's Yard ... ..	" ..	..	..	..	..	..	..	1
19. Chapel Hill, Leech's Yard ... ..	" ..	..	..	..	..	..	..	1
20. Chapel Hill, Royal Oak Yard ... ..	" ..	..	..	..	..	..	..	1
21. Church Street ... ..	" ..	..	..	..	..	..	..	1
22. Church Street ... ..	" ..	..	..	..	..	..	..	1
23. Church Street ... ..	" ..	..	..	..	..	..	..	1
24. Colne Street, Aspley ... ..	" ..	..	..	..	..	1	..	..
25. Colne Bridge ... ..	" ..	..	..	..	..	..	..	1
26. Croft Cottage Lane ... ..	" ..	..	..	..	..	..	..	1
27. Cross Church Street ... ..	" ..	..	..	..	..	..	..	1
28. Cross Lane, Marsh ... ..	" ..	..	1	..	..	..	..	..
29. Cross Lane ... ..	" ..	..	..	..	1	..	..	..
30. Deighton Road ... ..	" ..	..	..	..	..	1	..	..
31. Deighton Road ... ..	" ..	..	..	..	..	..	..	1
32. Dock Street ... ..	" ..	..	..	..	..	..	..	1
33. Dock Street ... ..	" ..	..	..	..	..	..	..	1
34. Dock Street ... ..	" ..	..	..	..	..	..	..	1
35. Dock Street, Pollitt's Yard... ..	" ..	..	..	..	..	..	..	1
36. Drake's Yard, Paddock ... ..	" ..	..	..	..	..	..	..	1
37. Fitzwilliam Street ... ..	" ..	..	..	..	..	..	..	1
38. Fountain Street ... ..	" ..	..	..	..	..	..	..	1
39. Grasscroft Road ... ..	" ..	..	..	..	..	..	..	1



## STREET LIST—Continued.

PLACE OF DEATH	DISTRICT.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhoea.
40. Great Northern Street, Wilson's Buildings...	Hudd Township...	..	1	..	..	..	..	..
41. Hebble Street ...	" ..	..	..	..	..	..	..	1
42. High Street, Love's Yard ...	" ..	..	..	..	..	..	..	1
43. Hillhouse Lane ...	" ..	..	..	..	..	..	..	1
44. Hope Street, Turnbridge ...	" ..	..	..	..	..	..	..	1
45. Kirkgate, Old Post Office Yard ...	" ..	..	..	..	..	..	..	1
46. Leeds Road ...	" ..	..	..	..	..	..	..	1
47. Leeds Road, Tindall's Yard...	" ..	..	..	..	..	..	..	1
48. Leeds Road North ...	" ..	..	1	..	..	..	..	..
49. Linden Road, Birkby...	" ..	..	..	..	1	..	..	..
50. Longroyd Lane ...	" ..	..	..	..	..	..	..	1
51. Longroyd Place ...	" ..	..	..	..	..	..	..	1
52. Lord Street ...	" ..	..	..	..	..	..	..	1
53. Lowerhead Row, Atkinson's Yard ...	" ..	..	..	..	..	..	..	1
54. Luck Lane ...	" ..	..	..	..	..	..	..	1
55. Manchester Street ...	" ..	..	..	..	..	..	..	1
56. Millgate ...	" ..	..	..	..	..	..	..	1
57. Millgate ...	" ..	..	..	..	..	..	..	1
58. Moorfield Road ...	" ..	..	1	..	..	..	..	..
59. Netheroyd Hill ...	" ..	..	1	..	..	..	..	..
60. Netheroyd Hill ...	" ..	..	..	..	..	..	..	1
61. New Street, Imperial Build- ings ...	" ..	..	..	..	..	1	..	..
62. Northumberland Street ...	" ..	..	..	..	..	..	1	..
63. Northumberland Street ...	" ..	..	..	..	1	..	..	..
64. Occupation Road ...	" ..	..	..	..	..	..	..	1
65. Page Street ...	" ..	..	..	..	..	..	..	1
66. Quay Street, Kaye's Square...	" ..	..	..	..	..	..	..	1
67. Quay Street, Kaye's Square...	" ..	..	..	..	..	..	..	1
68. Rawcliffe Yard, Paddock ...	" ..	..	..	..	..	..	..	1
69. Reed Street ...	" ..	..	..	..	..	..	..	1
70. Robinson Street, Aspley ...	" ..	..	..	..	..	..	..	1
71. Sand Street ...	" ..	..	..	..	..	..	..	1
72. Sheepridge Road, Woodhead's Buildings ...	" ..	..	1	..	..	..	..	..
73. Sheepridge Road, Woodhead's Buildings ...	" ..	..	..	..	..	1	..	..
74. Sheepridge Road ...	" ..	..	..	..	..	..	..	1
75. Smith's Row ...	" ..	..	..	..	..	..	..	1
76. South Cross Road, Cowcliffe...	" ..	..	1	..	..	..	..	..
77. Spring Street ...	" ..	..	1	..	..	..	..	..
78. Stone Pit Hill ...	" ..	..	1	..	..	..	..	..
79. Tanfield Road ...	" ..	..	..	..	..	..	..	1
80. Thomas Street, Haigh's Buildings ...	" ..	..	..	..	..	..	..	1
81. Thomas Street, Hirst's Yard	" ..	..	..	..	..	..	..	1

## STREET LIST—Continued.

PLACE OF DEATH.	DISTRICT.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhoea.
82. Upper Brow Road ... ..	Hudd. Township..	..	..	..	..	..	..	1
83. Upperhead Row ... ..	" ..	..	..	..	..	..	..	1
84. Violet Street, Turnbridge ...	" ..	..	..	..	1	..	..	..
85. Wasp Nest Road, Hillhouse	" ..	..	..	..	..	1	..	..
86. Watergate ... ..	" ..	..	..	..	..	..	..	1
87. Westbourne Road ... ..	" ..	..	..	..	..	..	..	1
88. Wren Street ... ..	" ..	..	..	..	..	..	..	1
89. Wren Street ... ..	" ..	..	..	..	..	..	..	1
90. Woodbine Road ... ..	" ..	..	..	..	..	..	..	1
91. York Street ... ..	" ..	..	..	..	..	..	..	1
92. York Street ... ..	" ..	..	..	..	..	..	..	1
93. Infirmary ... ..	" ..	..	..	..	..	..	..	1
94. Infirmary ... ..	" ..	..	..	..	..	..	..	1
95. Infirmary ... ..	" ..	..	..	..	..	..	..	1
96. Infirmary ... ..	" ..	..	..	..	..	..	..	1
97. Infirmary ... ..	" ..	..	..	..	1	..	..	..
98. Sanatorium ... ..	" ..	..	..	1	..	..	..	..
99. Sanatorium ... ..	" ..	..	..	..	..	..	1	..
100. Sanatorium ... ..	" ..	..	..	..	..	..	1	..
101. Sanatorium ... ..	" ..	..	..	..	..	..	1	..
102. Sanatorium ... ..	" ..	..	..	..	1	..	..	..
103. Sanatorium ... ..	" ..	..	..	..	1	..	..	..
104. Sanatorium ... ..	" ..	..	..	..	..	..	1	..
105. Sanatorium ... ..	" ..	..	..	1	..	..	..	..
106. Sanatorium ... ..	" ..	..	..	..	1	..	..	..
107. Sanatorium ... ..	" ..	..	..	..	1	..	..	..
108. Union Workhouse ... ..	" ..	..	..	..	..	..	..	1
109. Union Workhouse ... ..	" ..	..	..	..	..	..	..	1
110. Outside Borough— " Resident " ... ..	" ..	..	..	..	..	..	..	1
1. Back Ivy Street ... ..	Dalton ..	..	..	..	..	..	..	1
2. Bradley Mills ... ..	" ..	..	..	..	..	..	..	1
3. Bradley Mills ... ..	" ..	..	..	..	..	..	..	1
4. Brook Street ... ..	" ..	..	..	..	..	..	..	1
5. Brook Street ... ..	" ..	..	..	..	..	..	..	1
6. Chapel Street ... ..	" ..	..	..	..	..	1	..	..
7. Eastwood Street ... ..	" ..	..	..	..	..	..	1	..
8. Hole Bottom ... ..	" ..	..	..	1	..	..	..	..
9. Jagger Lane ... ..	" ..	..	..	..	..	..	..	1
10. Kilner Bank ... ..	" ..	..	..	..	..	..	..	1
11. Long Lane ... ..	" ..	..	..	..	..	..	..	1
12. Nab Hill ... ..	" ..	..	..	..	..	..	..	1
13. Nab Hill ... ..	" ..	..	..	..	..	..	..	1
14. Senior Street ... ..	" ..	..	..	..	..	..	..	1
15. Standforth Buildings ... ..	" ..	..	..	..	..	..	..	1
16. Trevelyan Street ... ..	" ..	..	..	..	..	..	..	1
17. Sanatorium ... ..	" ..	..	..	1	..	..	..	..
18. Sanatorium ... ..	" ..	..	..	1	..	..	..	..



## STREET LIST—Continued.

PLACE OF DEATH.				DISTRICT.		Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhoea.
19.	Sanatorium	...	...	Dalton	..	..	..	1	..	..	..	..
20.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
21.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
1.	Bridge Street	...	...	Almondbury	..	..	1	..	..	..	..	..
2.	Chapel Street	...	...	"	..	..	..	..	..	..	..	1
3.	Cross Lane	...	...	"	..	..	..	..	..	..	..	1
4.	Damside Road...	...	...	"	..	..	..	..	..	..	..	1
5.	Damside Road...	...	...	"	..	..	..	..	..	..	..	1
6.	Dodd's Royd	...	...	"	..	..	..	..	..	..	..	1
7.	Laithcroft	...	...	"	..	..	..	..	..	..	..	1
8.	Wood End	...	...	"	..	..	..	..	..	1	..	..
9.	Wormald Street	...	...	"	..	..	..	..	..	..	..	1
10.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
11.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
1.	Albert Street	...	...	Lockwood	..	..	..	..	..	..	..	1
2.	Albert Street	...	...	"	..	..	..	..	..	..	..	1
3.	Back Albert Street	...	...	"	..	..	..	..	..	..	..	1
4.	Back Stanley Street	...	...	"	..	..	..	..	..	..	..	1
5.	Charles Street...	...	...	"	..	..	..	..	..	1	..	..
6.	Fenton Road	...	...	"	..	..	..	..	1	..	..	..
7.	Lockwood Road	...	...	"	..	..	..	..	..	..	..	1
8.	Lockwood Road	...	...	"	..	..	..	..	..	..	..	1
9.	Marsden Road...	...	...	"	..	..	..	..	..	..	..	1
10.	Marsden Road...	...	...	"	..	..	..	..	..	..	..	1
11.	Marsden Road...	...	...	"	..	..	..	..	..	..	..	1
12.	Marsden Road...	...	...	"	..	..	..	..	..	..	..	1
13.	May Street	...	...	"	..	..	..	..	..	..	..	1
14.	Mount Street	...	...	"	..	..	..	..	1	..	..	..
15.	Park Road West	...	...	"	..	..	..	..	..	..	..	1
16.	Springdale Street	...	...	"	..	..	..	1	..	..	..	..
17.	Springdale Street	...	...	"	..	..	..	1	..	..	..	..
18.	Summer Street	...	...	"	..	..	..	1	..	..	..	..
19.	Swan Lane, Blamire's Yard...	...	...	"	..	..	..	..	..	..	..	1
20.	Swan Lane	...	...	"	..	..	..	..	..	..	..	1
21.	Thornton Road	...	...	"	..	..	..	..	..	..	..	1
22.	Thornton Road	...	...	"	..	..	..	..	1	..	..	..
23.	Victoria Road	...	...	"	..	..	..	..	1	..	..	..
24.	Victoria Road	...	...	"	..	..	..	..	1	..	..	..
25.	Victoria Road	...	...	"	..	..	..	..	1	..	..	..
26.	Yews Hill Road	...	...	"	..	..	..	..	..	..	..	1
27.	Sanatorium	...	...	"	..	..	..	..	1	..	..	..
28.	Sanatorium	...	...	"	..	..	..	..	1	..	..	..
29.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
30.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
31.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
32.	Sanatorium	...	...	"	..	..	..	1	..	..	..	..
33.	Sanatorium	...	...	"	..	..	..	..	1	..	..	..



## STREET LIST—Continued.

PLACE OF DEATH.				DISTRICT.	Small Pox.	Measles	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric.	Diarrhoea.
34.	Sanatorium	...	...	Lockwood	..	..	..	1	..	..	..
35.	Sanatorium	...	...	"	..	..	..	1	..	..	..
1.	Brier Lane	...	...	Lindley	..	..	..	..	..	..	1
2.	Cliffe End Hill...	...	...	"	..	..	..	..	..	..	1
3.	East Street	...	...	"	..	..	..	..	..	..	1
4.	Gibson Street	...	...	"	..	..	..	1	..	..	..
5.	Halifax Road	...	...	"	..	..	..	..	..	..	1
6.	Laund Road	...	...	"	..	..	..	..	..	..	1
7.	Luck Lane	...	...	"	..	..	..	1	..	..	..
8.	Reinwood Road	...	...	"	..	..	..	..	..	..	1
9.	Reinwood Road, Clarice Terrace	...	...	"	..	..	..	..	..	..	1
10.	Thorncliffe Street	...	...	"	..	..	..	..	..	..	1
11.	Wellington Street	...	...	"	..	..	..	1	..	..	..
12.	West Street	...	...	"	..	..	..	..	..	..	1
13.	West Street	...	...	"	..	..	..	..	..	..	1
14.	Sanatorium	...	...	"	..	..	..	1	..	..	..
1.	Haigh House Hill	...	...	Longwood	..	..	..	..	..	..	1
2.	Kew Hill	...	...	"	..	..	..	..	..	..	1
3.	Longwood Gate	...	...	"	..	..	..	..	..	..	1
4.	New Hey Road	...	...	"	..	..	..	..	..	..	1
5.	Sanatorium	...	...	"	..	..	..	1	..	..	..
6.	Sanatorium	...	...	"	..	..	..	1	..	..	..

## Cancer and Malignant Diseases.

These diseases have caused 129 deaths, as will be seen from the subjoined table, which shows the number of deaths and death rates since 1881.

### Mortality from Cancer and Malignant Diseases.

Year.	Population.	Number of Deaths from Cancer.	Death Rate per 1,000 of the Population.
1881	82,113	26	0.32
1882	83,271	32	0.51
1883	84,450	48	0.57
1884	86,004	57	0.67
1885	87,327	54	0.62
1886	88,670	50	0.57
1887	90,034	57	0.63
1888	91,419	70	0.77
1889	92,825	58	0.62
1890	94,253	75	0.79
1891	95,410	78	0.82
1892	95,373	75	0.79
1893	95,336	80	0.84
1894	95,299	82	0.86
1895	95,261	95	1.00
1896	95,224	88	0.91
1897	95,187	94	0.99
1898	95,149	80	0.84
1899	95,112	70	0.74
1900	95,074	95	1.00
1901	95,351	107	1.13
1902	96,573	93	0.95
1903	97,808	89	0.91
1904	99,056	97	0.98
1905	100,317	94	0.94
1906	101,591	108	1.07
1907	102,877	96	0.94
1908	104,178	109	1.03
1909	105,492	112	1.06
1910	106,820	150	1.41
1911	108,144	129	1.20

### Dietic Diseases.

There were only two deaths from Dietic Diseases; one from scurvy and one from alcoholism. During 1910 three deaths from these causes were registered, all of which were due to alcoholism of one form or another.

### Constitutional Diseases.

One hundred and fifty-two deaths were recorded from the above class of diseases. The death rate was 1.41, and that for 1910 1.72. Cancer caused the greatest mortality in this class, i.e., 129 or 85 per cent.

### Developmental Diseases.

The deaths from these causes are set out hereunder:—

Old Age	...	...	...	...	...	142
Premature Birth	...	...	...	...	...	49
Atrophy, Debility, and Marasmus	...	...	...	...	...	25
Atelectasis	...	...	...	...	...	11
Congenital Defects	...	...	...	...	...	7
Rickets	...	...	...	...	...	6
Debility at Birth	...	...	...	...	...	5
Dentition	...	...	...	...	...	3
Injury at Birth	...	...	...	...	...	1
Want of Breast Milk	...	...	...	...	...	—
						249



### **Bacteriological Laboratory.**

The Laboratory at the Sanatorium, Mill Hill, continues to be of very great service to the department, and is also of great utility in the working of the Sanatorium.

During the year 1911, 285 specimens were submitted for bacteriological examination. These were made up as follows:—

235 "swabs" for presence of Diphtheria Bacilli.

40 "sputums" for presence of Tubercle Bacilli.

10 "bloods" for estimation of Widal's reaction for diagnoses of Typhoid Fever.

The resulting diagnosis was confirmed in every case in which it was possible to do so.

## Hospitals.

In the administration of a hospital to which patients are removable compulsorily, it is likely *a priori* that complaints and difficulties will arise from time to time, and experience verifies this anticipation universally. Even the great voluntary hospitals of the country do not altogether escape from this sort of thing. But a consideration of the following simple figures demonstrates quite clearly the advantages of the Isolation Hospital in Huddersfield to the inhabitants, and that these excellent results are not accidental or occasional is shown from a consideration of the figures for the period covering more than 10 years during which the Sanatorium has been opened:—

### YEAR 1911.

	Percentage of total cases notified removed to Hospital.	Case mortality in Hospital.	Case mortality at Home.
Scarlet Fever ...	96.48	2.9	5.3
Typhoid Fever ...	83.33	10.0	50.0
Diphtheria ... ..	81.34	9.2	48.0

### SCARLET FEVER.

Since April, 1899, to December 30th, 1911, 4,326 cases of Scarlet Fever have been admitted. Out of this large number only 118 died; that is to say at the rate of 2.7 per cent. During the same period 276 cases were treated at home, and of those 17 died, that is at the rate of 6.2 per cent. One out of every 16 patients treated at home died, but no fewer than 37 cases were treated in the Sanatorium for each death. That is to say the death rate in home treated cases is 130 per cent greater than in hospital treated cases.

### DIPHTHERIA.

The cases notified numbered 879, of these 579 were treated in hospital, leaving 300 treated at home. Of those treated in hospital 63 died, showing a case mortality of 10.9. Of those treated at home 88 died, showing a case mortality of 29.3. Two out of every

seven patients treated at home died, but no fewer than nine cases were treated in the Sanatorium for each death. That is to say the death rate in home treated cases is 169 per cent greater than in hospital treated cases.

### TYPHOID FEVER.

The cases notified numbered 643, and of these 490 were treated in hospital, leaving 153 to be treated at home. Of those treated in hospital 81 died, showing a case mortality of 16.5. Of those treated at home 64 died, showing a case mortality of 41.8. Two out of every five patients treated at home died, but six cases were treated at the Sanatorium for each death, that is to say the death rate in home treated cases is 153 per cent greater than in hospital cases.

The foregoing facts are tabulated hereunder:—

Disease.	Cases Notified.	Removed to Hospital.	Cases treated at home.	Mortality per cent in Hospital	Mortality per cent at home.
Scarlet Fever.	4602	4326	276	2.7	6.2
Diphtheria....	879	579	300	10.9	29.3
Typhoid .....	643	490	153	16.5	41.8

On the opposite page are given the details of cases admitted, discharged, and the number remaining under treatment at the end of the year, while in Table B Appendix is shown the number of cases treated during the year, together with the localities in which the cases occurred, and the ages of the patients. It will well repay some little study.



**The following is the Report of Patients in the Hospital for 52 Weeks  
ended Saturday, 30th December, 1911.**

	Small Pox	Scarlet Fever	Diphtheria	Enteric, or Typhoid Fever	Phthisis,	Other or Doubtful Cases.	Total
Number in hospital on Saturday, 31st December, 1910 ... ..	...	65	2	2	8	...	77
Number since admitted* ... ..	...	522	109	41	18	1	691
Number discharged ... ..	...	497	92	28	19	...	636
Number Died ... ..	...	16	10	4	...	1	31
Number remaining in hospital ...	...	74	9	11	7	...	101

\* Includes one case of scarlet fever from Kirkheaton, and one of typhoid fever from Golcar.

# HUDDERSFIELD UNION—VACCINATION RETURNS.

Registration Sub-Districts in County Borough comprised in the Vaccination Officer's District.	Number of Births returned in the "Birth List Sheets."	Number of these Births duly entered in columns 1, 2, 4, and 5 of the "Vaccination Register" (Birth List Sheets), viz:—				Number of these Births remaining unentered in the "Vaccination Register," on account of				Number of these Births neither duly entered in the "Vaccination Register," (columns 3, 4, 5, and 6 of this Return), nor temporarily accounted for in the Report Book (columns 8, 9, and 10 of this Return).
		Col. 1. Successfully Vaccinated.	Col. 2.		Col. 4. Number in respect of whom Certificates of Conscientious Objection have been received.	Col. 5. Dead Unvaccinated	Postponement by Medical Certificate.	Removal to districts the Vaccination Officer of which has been duly appraised.	Removal to places unknown, or which cannot be reached, and Cases not having been found.	
			Insusceptible of Vaccination.	Had Small Pox.						
Huddersfield.	533	206	3	...	246	35	11	1	18	13
Almondbury.	254	90	1	...	134	17	3	...	3	6
Lockwood ...	329	100	2	...	194	15	3	...	3	12
Total.....	1116	396	6	...	574	67	17	1	24	31
Huddersfield.	544	212	2	...	239	50	9	...	12	20
Almondbury.	232	77	3	...	121	17	1	1	5	7
Lockwood ...	335	97	1	...	194	21	10	...	5	7
Total.....	1111	386	6	...	554	88	20	1	22	34

Jan. to June, 1911.

July to Dec. 1910.

### **Abattoirs.**

The number of private slaughter-houses in occupation in the Borough still remains the same. There are 14 such places, in addition to the public abattoir in Great Northern Street. No cause for complaint has been found in the manner in which these places are conducted, but it cannot be lost sight of that the continuation of private slaughter-houses in the Borough adds materially to the work of the department in the inspection of carcasses of animals intended for human consumption. They are difficult to supervise, and do not afford the facility of inspection obtained in the Public Abattoir.

The number of animals slaughtered in the public slaughter-house and private slaughter-houses respectively are set out in the table on the following page.



The following figures relating to the meat trade have been kindly supplied by  
Mr. Harris, the Markets Inspector.

Abattoir.	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896
Carcases brought in	1520	1822	1971	1960	2606	2853	2944	4252	3523	3687	3362	3494	3534	2916	2987	1901
Beasts slaughtered	4758	4327	3670	3471	3105	2962	2911	2933	2819	3528	3505	3772	3813	3880	3412	3445
Calves	3161	3213	3124	2739	2684	2678	2477	2449	2409	2695	2980	3217	2493	2124	2031	1990
Sheep	20247	20201	19766	15809	14554	15417	14886	12275	12769	12944	12799	12443	12902	13102	12801	12846
Pigs	7878	6983	7820	7959	7506	6546	6423	6772	6942	6396	5706	6333	6829	5682	6579	6908
<b>Private Slaughter Houses.</b>																
Beasts slaughtered	700	831	786	599	650	570	654	638	647	843	717	805	757	833	870	743
Calves	354	352	406	337	456	438	404	373	422	562	434	479	628	597	474	354
Sheep	2095	2217	2260	1479	1781	1523	1734	1748	1894	1997	1594	1976	2647	2387	2640	2211
Pigs	2258	2294	1921	1932	1953	1838	2010	2256	1837	1842	1531	1602	1688	1522	1306	1123
<b>Total</b>	42971	42240	41724	36285	35295	34825	34443	33696	33262	34494	32628	34121	35291	33043	33100	31521

## Abstract of Monthly Meteorological Observations for the Year 1911.

1911. MONTH.	Baromet- ter, corres- ponding to sea level, inches.	Temperature, Degrees F.				Wind Maximum miles per hour.	Sunshine, hours, (Total)	Rainfall inches (Total)	Moisture of air, 100 = saturation	Mean tempera- ture in air.	Mean tempera- ture at 3 ft. on. in ground	Mean tempera- ture at 4 ft. on. in ground	Total sunshine, per cent. of possible	Total horizontal movement of the wind, Miles.
		Lowest		Highest										
		Grass	Air	Shade	Sun									
January . . . .	30.301	18.7	24.0	52.0	82.0	35	21.8	1.48	87	38.7	38.4	41.4	9	3980
February . . . .	30.087	13.7	20.0	53.5	90.0	55	54.1	4.48	79	40.1	37.9	40.5	19	5510
March . . . . .	29.962	27.2	30.3	53.7	96.0	45	81.0	1.97	80	39.5	40.1	41.3	20	7110
April . . . . .	29.945	23.2	27.0	59.3	110.0	38	115.3	1.86	69	45.8	44.6	42.1	30	5690
May . . . . .	30.004	30.0	37.8	74.8	123.0	35	173.8	1.64	64	54.4	53.4	46.8	40	5150
June . . . . .	29.971	31.7	37.0	81.2	127.3	28	216.3	3.25	64	56.7	59.5	53.1	39	4560
July . . . . .	30.147	36.6	43.6	84.0	132.7	32	244.4	0.50	57	64.9	65.0	56.5	57	3000
August . . . . .	29.967	41.3	46.0	91.5	140.0	28	185.3	2.27	69	64.1	66.3	60.3	46	2695
September . . . .	30.048	27.5	34.0	82.3	118.5	35	182.5	2.83	61	54.7	57.5	57.9	42	3970
October . . . . .	29.898	20.2	26.5	58.2	96.0	45	35.4	3.12	81	47.7	48.2	52.6	12	3135
November . . . .	29.613	24.2	29.2	56.7	92.0	60	57.6	4.46	79	42.1	42.2	48.2	24	5350
December . . . .	29.697	23.0	30.3	54.0	75.0	40	44.0	4.70	86	42.7	40.7	44.4	16	4750
Averages or Totals . . . .	29.970	—	—	—	—	—	1411.5	32.56	72	49.3	49.5	48.8	29	52900



Number of Lodgers using the Corporation Model Common Lodging House since 1890.

Date	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911
January ...	7011	6994	7611	6556	5821	6108	5963	6677	6486	7111	5954	5708	5667	5643	5646	5696	5696	5690	5931	5843	5517	5753
February ...	6180	6111	6933	5754	5282	5841	5815	5908	5908	6152	5947	5391	5464	5474	5565	5699	5825	5123	5582	5283	5025	5210
March .....	7092	6988	7633	6318	5658	6422	6332	6549	6658	7295	5749	5380	5503	5506	5383	5412	5499	5680	5975	5783	5708	5802
April .....	6857	6405	7546	6191	5632	5811	6069	6687	6548	7361	5703	5687	5504	5452	5371	5516	5515	5481	5778	5585	5557	5547
May .....	6711	6914	6662	6052	5814	5773	6237	7210	7038	7692	5791	5459	5460	5492	5377	5493	5519	5677	5975	5757	5642	5839
June .....	6351	6910	6036	5714	5278	5775	6691	6058	6798	6539	5587	5510	5692	5272	5304	5470	5701	5494	5762	5381	5608	5631
July .....	6319	7115	5946	5917	5440	5987	6664	6472	6601	6816	5635	5274	5326	5369	5190	5310	5393	5670	5983	5661	5793	5703
August .....	6545	7261	5684	5710	5192	5898	6786	6342	6567	6073	5685	5353	5311	5615	5506	5678	5700	5687	5979	5776	5814	5575
September...	6306	7346	5698	5621	5647	5363	6761	5963	6573	6195	5939	5390	5529	5390	5665	5696	5702	5514	5782	5568	5665	5512
October ....	6872	6783	5987	5867	5685	6015	7123	5629	6671	6671	5734	5318	5529	5599	5501	5473	5510	5700	5977	5456	5866	5681
November...	6432	6879	6329	5885	5482	6329	6940	5476	6745	6999	5662	5503	5656	5491	5674	5649	5702	5517	5774	5567	5565	5522
December ...	6905	7515	6033	5860	5767	6224	6957	6332	7218	7399	5967	5447	5494	5646	5491	5470	5510	5607	5860	5539	5810	5380
Total.....	79,581	83,221	78,098	71,445	66,698	71,546	78,338	75,303	79,811	82,303	69,353	65,420	66,135	65,949	65,673	66,562	67,272	66,840	70,358	67,199	67,570	67,155

For these figures I am indebted to the Superintendent of the Corporation Model Lodging House.



## Water Supply.

All the houses in the Borough, with the exception of a few in outlying districts, and which obtain their water from wells, are supplied with water by the Corporation Water Department. The service is constant.

### DESCRIPTION OF THE HUDDERSFIELD CORPORATION WATERWORKS.

The Waterworks derive their supply from three different sources, viz.:—The Longwood Reservoirs, the Blackmoorfoot and Deerhill Reservoirs, and the reservoirs and springs in Wessenden Valley.

The Longwood Reservoirs are two in number, situate at the foot of the east side of Scapegoat Hill, and distant from Huddersfield  $2\frac{3}{4}$  miles. The supply to these reservoirs is from three separate springs, which rise near the top of the hill above, and the water is piped direct into the upper storage reservoir, which contains when full 50,000,000 gallons, and covers an area of  $7\frac{3}{4}$  acres. The lower reservoir, situate at the foot of the embankment of the upper one, is also supplied with water from the same source, and acts as a service reservoir; it has a capacity of 20,299,134 gallons, and covers an area of  $3\frac{1}{2}$  acres. The water from this source is piped down to a service tank at Clough Head, Longwood, and to Spring Street Tank, Huddersfield. It has also a connection with the Snodley Service Reservoir. The Longwood Millowners' Compensation Reservoir is constructed on the Longwood Brook, with a capacity of  $40\frac{1}{2}$  million gallons, and water area of  $9\frac{1}{4}$  acres when full.

The Blackmoorfoot Reservoir is situate on the south-west side of Huddersfield, at a distance of four miles, and at an elevation of 831 feet above the sea level to top water line. This reservoir contains 700 million gallons.

The water covers an area of  $101\frac{3}{4}$  acres when the reservoir is full. The drainage area is 1,900 acres, and the water from this gathering ground is conveyed into the reservoir by means of catch-water conduits constructed along the contours of the hills for a distance of  $5\frac{1}{2}$  miles.

There are two embankments to this reservoir, one on the north side and one on the south side.

The larger embankment is that on the north side, being 850 yards long, 400 feet wide at its base, and 70 feet high.

The Southern embankment is 500 yards long, 240 feet wide at its base, and 40 feet high.

The supply of water to the town and neighbourhood from this reservoir is three million gallons per day, exclusive of compensation water, 841,680 gallons, which is given out during 12 hours of every lawful working day.

The main pipe from this reservoir to Huddersfield is laid from the north tunnel entrance, along the highway in the Township of Linthwaite, to the village of Milnsbridge, where it crosses under the bed of the River Colne, and thence under the viaduct of the London and North-Western Railway at Longwood Station, near which there is a connection with the Longwood Reservoir main, whereby water can be sent into that reservoir to supplement its own supplies as required. The main then passes on to Paddock, and thence across the fields to Marsh, and along the New Hey Road into the Snodley Service Reservoir at West Hill, which is situate at a height of 500 feet above sea level, and is constructed to hold 1,250,000 gallons. From this Service Reservoir water is distributed through the town, and is also taken forward along the Leeds Road for the supply of Mirfield and Ravensthorpe.

The main from the south entrance tunnel at Blackmoorfoot conveys the water to the villages of Netherton, Armitage Bridge, Perry Brow, Honley, Almondbury, Kirkheaton, Lepton, Kirkburton, Shelley, and Shepley, and also to a portion of Huddersfield.

The Deerhill Reservoir is situate in Lingards Township on the slope of the west side of the hill from which it derives its name. Its top water level is 1,144 feet above sea level. It contains 160 million gallons of water, covers 38 acres, and has a drainage area of 1,200 acres. The water is conveyed into the reservoir by means of a Catchwater Conduit  $3\frac{1}{4}$  miles long, in Marsden Township. Filter beds have been built at the foot of the North Bank of the



reservoir in order to filter all the water before entering the mains. Compensation to the millowners in the Wessenden and Colne Valleys is delivered from this reservoir at various points, amounting in the aggregate to 358,560 gallons every working day. There is also a connection from this reservoir with the Wessenden main, which supplies the high levels, so as to supplement that supply as occasion requires. A 12 inch main is laid from this reservoir via Meltham, Netherthong, Thongsbridge, and Newmill to the tank at Shepley Marsh, for the supply of the higher parts of Shepley, Shelley, Lepton, and Emley Townships.

The Wessenden Springs are situate on the west side of the Wessenden Reservoir, consisting of the Great Dyke Springs, the Blake Clough and Blakeley Clough Springs, which are piped into a tank situate at an elevation of 1,025 feet above sea level, from which the water is conveyed by a 9 inch main laid down the valley to Marsden, and thence passing along the Manchester and Huddersfield Turnpike Road to Slaithwaite, where there is a connection with the Deerhill main. From thence the main that supplies Golcar branches off up the Crimble Valley to the Service Reservoirs at Windy End and Clough Head, and thence to Outlane. The main continues along the Manchester Road, through Milnsbridge and Quarmby, to the Service Reservoir at Lindley. These springs yield on an average 500,000 gallons per diem.

The surplus water after supplying the 9 inch main above referred to, passes into an 18 inch main laid across the valley to the Catchwater Conduit at Scout, and thence along such Conduit into the Blackmoorfoot Reservoir. This main was laid in the year 1887.

There are four reservoirs in the Wessenden Valley.

The old Wessenden Reservoir is situate at an elevation of 984 feet above sea level, and of a capacity of 107 million gallons.

The Wessenden Head Reservoir is situate at an elevation of 1,268 feet above sea level, with a capacity of 82 million gallons. From this reservoir a 12 inch main is laid via Marsden, Slaithwaite, and Golcar to Scapegoat Hill, Longwood. Here a Service Reservoir, with a capacity of  $1\frac{1}{2}$  million gallons, has been built to supply the high level districts.



The Blakeley Reservoir, authorised by the Waterworks Act of 1871, is constructed by placing an embankment across the Wessenden Valley, above the top water level of the Butterley Reservoir, and about a mile up the valley from the Butterley Dam. This reservoir covers an area of about  $9\frac{1}{2}$  acres. The top water level is 848 feet above sea level, the depth of water in front of the embankment is 63 feet, and the height of embankment 80 feet above the level of the Wessenden Brook at the point of crossing. The capacity is 80,000,000 gallons.

The Butterley Reservoir, authorised by the Act of 1890, and which was filled with water to overflowing for the first time on December 5th, 1906, is formed by an embankment placed upon the site of Upper Bank Bottom Mills, at the lower end of the Wessenden Valley, the top of which is 111 feet above the bed of the stream. The capacity is 403 million gallons, surface area 43 acres, the greatest depth of water 94 feet. Top water is 770 feet above sea level. Compensation water is given out from this reservoir at the rate of 2,258,640 gallons per working day in respect of the Wessenden Valley watershed. From this reservoir a 24 inch main is laid for domestic and trade purposes via Marsden, Lingards, Linthwaite, and Golcar to Longwood Lower Reservoir to supplement the low level supply. Six Bell's Filters were erected during 1910 at Longwood Reservoirs for filtering the water from this reservoir.

The whole of the supply is by gravitation, and the drainage area of the reservoirs is chiefly moorland or high mountain pasture and millstone grit formation, which is the best known natural filter. The capacity is 403,513,000 gallons.

## **Rivers Pollution.**

Under the Order of the Local Government Board setting forth the duties of the Medical Officer of Health, a report is required on the pollution of rivers and streams in the district.

As this matter is dealt with in the West Riding of Yorkshire by a specially constituted Rivers Board, a detailed report does not appear to be called for in this relation.

It may be reported generally that the streams are very much polluted, and that the pollution is general, but that improvement in their condition is taking place, due to the work of the above named Board.

## **Drainage, Sewerage, and Sewage Disposal.**

Owing to the great area of the Borough in relation to the number of its inhabitants (the density of the population is nine persons per acre) the sewerage of the district is very expensive, and in certain districts, notably the agricultural parts of the Borough, is still incomplete and defective, but year by year considerable sums of money are spent on improvements, and everything that reasonably can be done is being done in this direction.

The difficulties are not diminished by the irregularities of the declivities which have to be dealt with. The town consists of a number of hills and valleys, the elevations being from about 150 to 1,200 feet above sea level.

The drainage arrangements generally are as satisfactory as can be expected, but do not reach the standard attained in districts which are entirely urban in character.

Extensions to the Sewage Works were completed during the year 1910. The system adopted is sedimentation and the application of the sewage by means of revolving troughs to large beds of coarse clinker, commonly called sprinkling beds, which are supposed to owe their purifying qualities to the presence of bacteria, and which do in fact operate biologically as well as chemically. Many forms of life other than bacteria are present in the filters as may be ascertained from the most casual inspection.

The requirements of the West Riding of Yorkshire Rivers Pollution Board are met by these works.



## Closet Accommodation in the Borough.

Number of clean water and waste water closets:—

Clean Water	...	...	...	...	9,412
Waste (slop water closets)	...	...	...	...	208
Privies with moveable receptacles	...	...	...	...	15,829
Midden Privies	...	...	...	...	926

The conversions from privies, including midden steads and closets with moveable receptacles to water closets during the last few years, are set out below:—

1907	...	...	...	...	...	15
1908	...	...	...	...	...	22
1909	...	...	...	...	...	19
1910	...	...	...	...	...	18
1911	...	...	...	...	...	19

NOTE.—None of the above conversions were in respect of newly-erected dwelling-houses. All closets inside a new building must be on the water carriage system. But closet accommodation for new buildings on the tub system is still allowed to be provided.

## REMOVAL OF NUISANCES.

	1st quarter	2nd quarter	3rd quarter	4th quarter	TOTALS
Drains requiring Re-construction ... ..	49	55	50	96	250
Do. connecting with main sewer ... ..	19	14	11	10	54
Drains not efficiently trapped ... ..	31	58	62	45	196
Do. requiring Ventilation Shafts ... ..	9	7	20	20	56
Defective Sink Pipes and Drains ... ..	11	23	25	90	149
Do. Yard Drains ... ..	64	41	37	38	180
Do. Cellar Drains ... ..	23	12	10	24	69
Do. Eave and Fall Pipes ... ..	8	26	17	7	58
Do. Roofing ... ..	4	3	4	...	11
Do. Urinals ... ..	2	...	5	...	7
Do. Baths ... ..	1	...	...	...	1
Do. Water Closets... ..	9	4	12	5	30
Waste Pipes requiring Disconnecting ... ..	12	18	30	12	72
Fall Pipes requiring Disconnecting ... ..	7	12	29	30	78
To provide Eave and Fall Pipes ... ..	10	1	14	2	27
Do. Sinkstones in Houses ... ..	...	2	...	2	4
Nuisances from want of Drains ... ..	2	4	3	4	13
Do. Water in Cellar ... ..	...	4	3	10	17
Do. Cellar Wells ... ..	5	...	4	...	9
Do. Cess Pools ... ..	...	4	...	3	7
Do. Street Gullies ... ..	3	22	16	6	47
Do. Stagnant Water ... ..	14	30	17	23	84
Do. Defective Surface of Yard ... ..	1	1	2	1	5
Do. Smoke ... ..	3	17	9	29	58
Do. Poultry, Pigeons, and Animals ... ..	...	1	6	3	10
Offensive Accumulations... ..	5	7	15	14	41
Do. Ashpits and Privies ... ..	4	13	4	10	31
Do. Swill Tubs ... ..	...	2	2	...	4
Do. Urine Receptacles ... ..	...	1	1	1	3
Urine Guards required ... ..	...	...	...	...	—
Closets requiring Lime-washing ... ..	...	...	...	...	—
Ashpits and Closets requiring Re-construction ... ..	18	56	54	27	155
Do. requiring proper doors and covering ... ..	15	19	22	2	58
Old Privies requiring alteration to tub or w.c. system ... ..	3	6	12	9	30
Insufficient Closet Accommodation ... ..	10	7	14	11	42
Houses Overcrowded ... ..	6	11	15	9	41
Do. Unfit for Habitation ... ..	...	...	...	...	—
Do. Requiring Cleansing ... ..	1	...	14	8	23
Do. Requiring Ventilation ... ..	1	...	...	3	4
Do. Damp ... ..	3	2	2	1	8
Do. Requiring Water Supply ... ..	4	...	...	...	4
Workshops requiring Lime-washing ... ..	...	...	1	6	7
Factories requiring Fire Escapes ... ..	1	...	...	1	2
Cowsheds requiring Lime-washing ... ..	...	36	...	28	64
Do. Draining ... ..	...	...	...	...	—
Do. Lighting ... ..	...	...	...	...	—
Do. Paving ... ..	...	...	...	...	—
Do. Ventilation ... ..	...	...	...	...	—
Bakehouses requiring Lime-washing or Cleansing ... ..	2	...	...	...	2
Do. Ventilation... ..	...	...	...	...	—
TOTALS ... ..	360	519	542	590	2011



An epitome of the Sanitary work accomplished during the year 1911 will be found in the following Table :—

### SUMMARY.

	1st quarter	2nd quarter	3rd quarter	4th quarter	TOTALS
No. of premises where Zymotic or other infectious diseases have occurred .. ..	226	187	910	292	1615
Do. inspected .. do. ..	226	187	910	292	1615
Do. disinfected after zymotic or other diseases ..	161	153	854	241	1409
Do. flushed .. do. ..	197	170	850	262	1479
Do. visited searching for Fever .. ..	236	711	180	172	1299
No. of re-visits where cases are isolated at home ..	269	287	948	319	1823
Do. Houses visited for Zymotic particulars ..	46	157	884	191	1278
Total Number of visits to infected houses ..	723	1276	2857	935	5791
Infectious diseases reported .. ..	226	187	910	292	1615
Cases removed to Hospital .. ..	187	128	141	233	689
Number of articles disinfected by Lyon's disinfecter ..	14206	14280	12672	16674	57832
Number of visits in deaths from Phthisis .. ..	66	97	35	61	259
Do. Under one .. ..	68	93	69	42	272
Number of premises flushed by request of owners (paid for) .. ..	61	76	65	72	274
Other premises, yards or courts flushed .. ..	342	297	126	237	1002
Drains found choked by flushers .. ..	251	243	174	153	821
Drains made clear .. ..	242	228	162	144	776
Number of Tubs registered .. ..	7	8	3	6	24
Do. applications received to empty Ashpits and Privies .. ..	87	140	114	85	426
Do. do. do. Receptacles .. ..	5	12	13	8	38
Nuisances reported at Public Health Department ..	85	109	145	81	420
Do. inspected .. ..	85	109	145	81	420
Inspection of premises where Nuisances are found ..	190	298	317	222	1027
Do. do. where no Nuisances are found .. ..	319	221	413	351	1304
Do. premises where offensive trades are conducted .. ..	2	14	21	21	58
Do. Dwellinghouses in house to house visitation ..	39	4	...	...	43
Do. Cellar Dwellings .. ..	14	...	...	5	19
Do. Houses let in Lodgings and Common Lodging Houses .. ..	141	97	300	258	796
Do. Workshops and Workplaces .. ..	19	36	21	45	121
Do. Factories .. ..	29	19	51	92	191
Do. Schools .. ..	3	20	11	6	40
Do. Slaughter Houses .. ..	12	5	5	7	29
Do. Canal Boats .. ..	104	113	104	99	420
Do. Dairies and Milkshops .. ..	7	...	25	3	35
Do. Cowsheds .. ..	247	260	2	320	829
Do. Bakehouses .. ..	6	139	1	6	152
Do. Markets and Shops .. ..	126	87	250	119	582
Do. Van Dwellings .. ..	...	92	44	...	136
Re-visits to work in progress .. ..	357	314	336	315	1322
Visits to property under notice .. ..	589	491	607	666	2353
Total Number of Inspections of Premises .. ..	2201	2202	2508	2535	9446
Number of Entries in Report Books .. ..	83	170	156	155	564
Preliminary notices to owners .. ..	30	78	79	72	259
Number of legal notices issued for abatement or abolition of nuisances .. ..	48	63	68	96	275
Owners seen personally .. ..	255	300	314	338	1207
Summonses taken out .. ..	2	...	2	1	5



## SUMMARY—Continued.

	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	TOTALS.
Sections of New Drains tested ... ..	40	39	40	26	145
"    "    and satisfactory at first test	36	23	36	26	121
Old Drains tested ... ..	118	97	65	87	367
"    "    and found sound ... ..	73	41	34	65	213
"    "    and found defective ... ..	45	56	31	34	166
Smoke observations taken ... ..	89	123	117	171	500
Number of visits under Food and Drugs Acts	45	119	73	123	360
Food and Drugs—samples purchased ... ..	32	65	49	108	254
Do.    adulterated ... ..	6	2	6	12	26
Meat, &c., seizures made or destroyed ... ..	1 ton 3 cwts. 1 qr. 21 lbs.	$\frac{1}{2}$ cwt. offal. $\frac{6}{4}$ cwts. beef.	..	30 $\frac{1}{2}$ cwts. 480 eggs. 63 hares.	3 tons 2 qrs. 21 lbs. 480 eggs 63 hares.
Fish ... ..	..	..	1 haddock and 6 cwt. 1 qr.	..	6 cwts. 1 qr. fish. 1 haddock.
Fruit & Vegetables .. ..	4 $\frac{1}{2}$ cwts.	20 tins.	2 qrs.	11 tins. 1 $\frac{1}{4}$ cwts. bana- nas. 34 $\frac{1}{2}$ cwts. fruit pulp.	31 tins. 6 cwts. and 34 $\frac{1}{2}$ cwts. of pulp.
Water Samples taken for analysis ... ..	4	2	2	2	10
"    polluted ... ..	3	2	1	2	8
Sewage " taken for analysis ... ..	2	..	..	..	2
Number of visits under Fertilizer and Feeding Stuffs Act ... ..	..	1	..	2	3
Samples purchased ... ..	..	2	..	1	3
"    adulterated ... ..	..	..	..	..	..

## **Inspectorial Work.**

### **Drainage, Nuisances, and so forth.**

The two preceding returns present in a tabulated form the various nuisances found and the work done in the removal thereof. Abstracted therefrom the following paragraphs will give the salient points:—Nine thousand four hundred and forty-six separate inspections as required by Section 92 of the Public Health Act, 1875, have been made. In addition to these 5,791 visits were made where infectious diseases occurred for disinfection and enquiry purposes. In 1,304 inspections no ground of complaint in respect of the sanitary conditions of the premises was found. Five hundred smoke observations have been taken as per detailed report on page 81. One thousand two hundred and seventy-six premises and drains have been flushed for the removal of nuisances. In 274 cases the flushing was done at the request of the owner, and the water used was paid for.

Four hundred and twenty complaints of nuisances were made at the Public Health Department, to all of which prompt attention was accorded.

The number of entries made in the report books of the department totalled 564. One thousand two hundred and seven personal interviews with owners, followed after an interval by the issue of a preliminary notice in 259 cases, resulted in the abatement of the nuisance in 261 cases, while to secure the completion of the remainder it was found necessary to issue 275 legal notices. Sixty-nine entries were still awaiting completion when this report was written.

### **Common Lodging Houses.**

The number of these houses on the register at the end of the year 1911 was 31, an increase of one during the year. These provide accommodation for 747 lodgers in 721 beds, an increase of provision for 38 lodgers and 38 beds. Inspections have been made of the Common Lodging-houses both by night and day. Five hundred and ten such inspections have been made during the year, namely, 328 day visits and 182 night visits. A district inspector has in



each of the night visits accompanied the Common Lodging-house Inspector. Generally speaking, the improvement noted in previous reports has been maintained during the year. In addition to the 31 houses on the register further accommodation is provided at the Municipal Model Lodging-house in Chapel Hill, where there are 184 beds for the accommodation of 193 lodgers. An endeavour has been made during the year to strengthen the hands of the Common Lodging-house Inspector in respect to the night visits. Two cases of refusal to admit were taken before the Magistrates on July 12th, 1911, under the approved Section of the Public Health Act. The result, however, was disappointing, as the Magistrates dismissed the cases.

Fortunately, however, the keepers of these houses very generally welcome the visits of the Inspectors, and without much difficulty admit them when required.

### Houses Let In Lodgings.

These are houses in which lodgers are received for weekly or longer periods, and houses occupied by members of more than one family. The houses and their occupiers are subject to registration and to inspection at regular intervals, and must be kept in accordance with the regulations prescribed in Schedule 3 of the Huddersfield Improvement Act of 1871.

The following is the report for 1911:—

Houses let in lodgings on the register, January 1st,	
1911	194
Houses removed from the register during the year	20
Houses newly added	6
Net decrease	14
<hr/>	
Houses remaining on the register, December 31st,	
1911	180

One hundred and thirty-four of these are in the Central Wards of the Borough and 46 in the Outer Wards.

In these 180 houses there are 307 rooms registered, as giving accommodation to 995 lodgers.



## **Housing, Town Planning, &c., Act, 1909.**

For the purpose of carrying out the duties imposed on them by the Act the Committee appointed one special Inspector, who commenced duties on May 1st, 1911. The procedure which is being carried out is to schedule areas, the early inspection of which is considered desirable in the opinion of the Medical Officer of Health.

By this means the areas most in need of inspection will receive attention first.

A record of the inspection of each house is carefully prepared and filed, the card system of filing having been adopted. The information obtained will be of great service to the department in the future, as the sanitary conditions of each house can be referred to at any time.

This is now made compulsory by the Act.

The general character of the defects found to exist are shown in the schedule of defects.

These are not necessarily dealt with under this Act, it being found more convenient to deal with them under the local Acts or Public Health Acts.

SUMMARY OF HOUSING WORK DONE DURING THE  
YEAR 1911.

—◆◆◆—  
INSPECTIONS.

Total number of houses inspected	...	...	...	342
Total number of houses which were found to be insanitary with regard to one or other of the items set forth in the Inspection of District Regulations, 1910	...	...	...	284
(The general character of the above defects are shown in Schedule below.)				
Total number of houses considered to be uninhabitable (exclusive of underground rooms)	...	...	...	28
Total number in which the Medical Officer of Health asked for Closing Orders	...	...	...	21
Total number of Closing Orders made	...	...	...	0
Total number of houses closed voluntarily without Closing Orders being made	...	...	...	10
Total number of these houses voluntarily demolished	...	...	...	6
Total number of these houses voluntarily now being improved	...	...	...	4
Total number of houses improved under informal notice	...	...	...	7
Total number of inhabited underground rooms (Sect. 17 (7) H. T. P., Etc., Act, 1909), Sect. 71-75, P. H. Act, 1875)	...	...	...	12
Total number of inhabited underground rooms closed on request of Medical Officer of Health	...	...	...	1
Total number of houses recommended to be dealt with as obstructive buildings (Sect. 38, H. W. C. Act, 1890)	...	...	...	11

## SCHEDULE OF DEFECTS REFERRED TO.

Houses with defective roof, including spouts...	...	97
„ „ defective walls ... ..	...	45
„ „ insufficient closet accommodation	...	67
„ „ defective closet ... ..	...	88
„ „ defective ashes place ... ..	...	34
„ „ defective sink pipes and drains	...	102
„ „ defective sinks and sink linings	...	68
„ „ defective floors ... ..	...	30
Damp houses ... ..	...	105
Houses with defective ventilation	...	52
Overcrowded houses ... ..	...	45
Cellar dwellings ... ..	...	12
Defective yards ... ..	...	9
<hr/>		
Total ... ..	...	754

Number of houses involved 284.



## FOOD INSPECTION.

### FOOD AND DRUGS ACTS, 1875 to 1899.

**Report of Action Taken under the above-named Acts  
in the County Borough of Huddersfield during  
the Year 1911.**

#### 1.—ARTICLES ANALYSED.

New Milk...	...	...	195	of which 22 were certified as adulterated.
Skimmed Milk	...	...	5	
Butter	...	...	16	
Cream...	...	...	2	of which 1 was certified as adulterated.
Margarine	...	...	6	of which 1 was certified in the first place as adulterated, but was afterwards amended to a mixture of margarine and cocoa nut oil.
Lard	...	...	8	
Jam	...	...	3	
Ground Rice	...	...	2	
Sago	...	...	1	
Rice	...	...	2	
Oatmeal	...	...	1	
Cheese	...	...	4	
Cocoa	...	...	1	
Coffee	...	...	2	of which 1 was certified as adulterated.
Borax	...	...	1	
Vinegar	...	...	2	
Pressed Beef	...	...	2	of which 1 was certified to be adulterated.
Preserved Peas	...	...	1	
Total ...	...	...	254	of which 26 were certified as adulterated.

2.—DETAILS OF THE 26 ADULTERATED SAMPLES  
REPORTED BY THE PUBLIC ANALYST TO BE  
ADULTERATED.

No.	Article.	Result of Analysis.	Proceedings.
<u>A 1</u>	<u>Pressed Beef</u>	Small quantity of For- maldehyde	—
<u>A 2</u>	<u>Cream</u>	0.11 per cent boric acid added	—
<u>A 5</u>	<u>New Milk</u>	1.03 per cent water added	—
1	do.	1.06 per cent water added	Not considered suffi- cient by Medical Officer of Health to be submitted to Town Clerk.
<u>A 7</u>	<u>do.</u>	6.66 per cent fat ab- stracted	Fresh sample No. 22 taken and found all right.
13	do.	0.36 per cent water added	Town Clerk did not consider this suffi- cient for proceedings.
58	do.	1.29 per cent water added	Medical Officer of Health did not con- sider this sufficient to send to Town Clerk.
60	do.	3.33 per cent fat ab- stracted	Medical Officer of Health did not con- sider this sufficient to send to Town Clerk.
<u>A18</u>	<u>do.</u>	5.42 per cent water added	Fresh sample A44 taken and found cor- rect.
82	do.	3.33 per cent fat ab- stracted	Health Committee de- cided not to take proceedings.
87	do.	2.00 per cent water added.	Health Committee de- cided not to take proceedings.
88	do.	3.65 per cent water added	Health Committee de- cided not to take proceedings.
91	do.	5.19 per cent water added	Health Committee de- cided not to take proceedings.

No.	Article.	Result of Analysis.			Proceedings.
102	New Milk	3·81 per added	cent	water	Health Committee decided not to take proceedings.
128	do.	1·30 per added	cent	water	Medical Officer of Health did not consider this sufficient to send to Town Clerk.
137	do.	3·13 per added	cent	water	Town Clerk did not consider this sufficient for proceedings.
138	do.	0·34 per added	cent	water	Medical Officer of Health did not consider this sufficient to send to Town Clerk.
<u>A35</u>	<u>Margarine</u>	30·7 per added	cent	butter	A fresh sample, No. 168, procured formally proved genuine. Whereupon the Public Analyst made an additional test of the sample A35 and found that the adulterant was cocoa nut oil and therefore genuine margarine.
153	New Milk	0·83 per added	cent	water	Medical Officer of Health did not consider this sufficient to send to Town Clerk.
*165	Coffee and Chicory	80·0 per cent	chicory		Sent to Town Clerk. Proceedings pending.
170	New Milk	4·47 per added	cent	water	Health Committee decided not to take proceedings.
173	do.	3·30 per added	cent	water	Health Committee decided not to take proceedings.
174	do.	2·63 per added	cent	water	Deputy Town Clerk did not consider this sufficient for proceedings.
176	do.	0·60 per added	cent	water	Deputy Town Clerk did not consider this sufficient for proceedings.



No.	Article.	Result of Analysis.	Proceedings.
183	New Milk.	2.09 per cent water added	Deputy Town Clerk did not consider this sufficient for proceedings.
184	do.	0.12 per cent water added	Deputy Town Clerk did not consider this sufficient for proceedings.

\* This case was heard at the Borough Police Court January 10th, 1912, when defendants were fined £10 and 11s. 6d. costs.

NOTE.—The Articles underlined were informal samples.

### 3.—LEGAL PROCEEDINGS.

None.

### INFORMAL SAMPLES.

The following samples have been taken in an informal manner. They are included in the foregoing:—

15 New Milks, 1 Cream, 15 Butters, 6 Lard, 4 Margarine, 3 Cheese, 3 Jams, 2 Ground Rice, 2 Rice, 2 Vinegar, 2 Pressed Beef and 1 Preserved Peas, 1 Sago, 1 Coffee, 1 Oatmeal, and 1 Borax.

In addition to the above, 7 samples of milk have been submitted to microscopical examination for Tubercle Bacilli.

The result in each case was negative.

(Signed) WM. M. DRAKE,

Inspector of Food and Drugs.

## Dairies, Cowsheds, and Milkshops.

### ANNUAL REPORT, 1911.

These premises have been kept under careful supervision during the year. Eight hundred and twenty-nine inspections of Cowsheds, and 35 of Dairies and Milkshops have been made by the District Inspectors. The following returns are interesting:—

Cowkeepers who are also Milk Purveyors ...	...	172
Milk Purveyors only, residing in Borough ...	...	62
Milk Purveyors only, residing outside Borough ...	...	76
Milk Shops selling over Counter ...	...	43
		353

The following table gives the number of cattle inspected by the Veterinary Inspector during 1911, and shows the number of farms and cowsheds visited:—

Number of Farmsteads ...	...	172
Number of Cowsheds ...	...	316
Number of Milch Cattle ...	...	1939

One Cow destroyed suffering from Tubercular Mastitis.

In addition to the above the Veterinary Inspector, accompanied by a District Inspector, has visited 316 cowsheds, and has personally inspected 1,939 milch cattle. During the year one cow only was found to be suffering from Tubercular Mastitis. It was slaughtered at the public abattoir under supervision, and the carcase and offal were passed through the refuse destructor. In 1910 five animals were found to be so suffering.

The attention of the department is being constantly engaged regarding defects in structure, air space, light, ventilation, and drainage. They are still difficult to get remedied, for reasons set forth in the report for 1907. The farmers, however, as a class, take more care in the management of their cowsheds and in securing the cleanliness thereof.

**FACTORY AND WORKSHOPS ACT,  
1901.**

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**REPORT OF INSPECTIONS AND OF ACTION THEREON,  
During 1911.**

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By Section 132 of the above named Act, the duty is laid upon the Medical Officer of Health of every District Council in his annual report to them, to report specifically on the administration of the Act in his district.

The duties imposed upon Sanitary Authorities under this Act have reference to the following subjects:—

- (a) Registration of Workshops.
- (b) Sanitation and Sanitary Accommodation and Conveniences.
- (c) Special Sanitary Provisions for Bakehouses.
- (d) Fire escapes.
- (e) Home Work.
- (f) Miscellaneous.

(a) Registration.—The total number of workshops (including bakehouses) on the Register on December 31st, 1910, was 956. During the year 1911 24 new workshops have been added to, and 14 removed from the Register, showing a nett increase of 10 during the year. The number of bakehouses on the Register is 121, a decrease of 11 on the year. The total number of workshops included in the following classified list is 966:—



# Classified List of Workshops.

	On Register Dec. 31st, 1910.		Added during 1911.		Removed during 1911.		Remaining Dec. 31st, 1911.	
	Central District.	Outer Districts.	Central District.	Outer Districts.	Central District.	Outer Districts.	Central District.	Outer Districts.
Dress and Mantle Makers and Milliners, Tailors, Waterproof Manufacturers, &c. ... ..	143	111	5	9	1	...	147	120
Boot and Shoe Makers, Cloggers, Saddlers and Carriers ... ..	64	113	1	1	...	...	65	114
Black, Shoeing, Tin, and White Smiths; Cycle Repairs, &c. ... ..	32	27	1	...	...	...	33	27
Joiners, Cabinet Makers, Wood Carvers, Picture Framers and Gilders ... ..	32	42	...	3	...	...	32	45
Plumbers, Painters and French Polishers ... ..	42	27	...	...	...	...	42	27
Coopers, Carriage Builders, and Wheelwrights ... ..	10	15	...	...	...	...	10	15
Watchmakers, Jewellers, Engravers, and Electrical Engineers ... ..	25	6	1	...	...	...	26	6
Rug Makers and Rag and Wool Sorters ... ..	22	11	...	...	...	...	22	11
Upholsterers, Basket and Brush Makers ... ..	19	4	...	...	...	...	19	4
Hosiery Knitters, Shirt Makers, and Laundries ... ..	4	13	...	1	...	...	4	14
Monumental Sculptors ... ..	2	4	...	...	...	...	2	4
Organ Builders, Piano Repairers, &c. ... ..	6	1	...	...	...	...	6	1
Tripe Dressers ... ..	7	4	...	...	...	...	7	4
Bakehouses ... ..	42	90	1	1	2	11	41	80
Manufacturing Chemists; Mattress, Corset, Blind, and Waggon Cover Makers; Wire Workers, Tea Packers, Teazle Trimmers, Rope Makers, Tallow Chandlers, &c., &c. ... ..	28	10	...	...	...	...	28	10
	478	478	9	15	3	11	484	482
	956		24		14		966	

(b). Sanitation.—Four hundred and sixty-four inspections of factories, workshops, and bakehouses have been made as to cleanliness, air space, ventilation, drainage, and closet accommodation.

Eighty-six cases of infringements of the Public Health Acts and of the Factory and Workshops Act were found during these inspections. One hundred and seventy written notices were served in 86 cases, and 66 infringements were remedied in accordance with the requirements of the notices. In many of the unremedied infringements the necessary work is either in progress or has been given into the hands of contractors; and in others is under the consideration of the persons involved therein. Further inspections will be made in due course, and appropriate action taken.

Sanitary Accommodation and Conveniences.—The question of the provisions of closet accommodation, the allocation of the same to sexes, and the proper ventilation and screening thereof, has had much attention during the past year. As will be seen from the return appended hereto, 18 contraventions of the provisions of Section 22 of the Public Health Acts Amendment Act, 1890, and of the Sanitary Accommodation Order have been met with. These have been remedied.

(c) Special Sanitary Provisions for Bakehouses.—There are 121 bakehouses now on the Register, a decrease of 11 on the year. The number of cellar bakehouses remaining on the Register is 8. The bakehouses are systematically inspected as to cleanliness, closet accommodation, domestic washing, and sleeping places. Two breaches of sanitary requirements were found, which have been remedied.

(d) Fire Escapes.—One hundred and ninety-one visits of inspection have been made to factories, in which special attention was directed to the means of escape in case of fire, and sanitary accommodation.

Ten notices have been received under Section 14 from the Factory Inspector relating to 8 factories and 2 workshops. In 5 cases the necessary alterations have been effected, or are in progress.

In 4 cases existing means were found sufficient, and one awaits the return of owner after illness.

(e) Home Work.—Fifteen lists have been received from employers of home workers being employed. These cover 30 persons working in the Borough. The premises occupied by each worker have been inspected, and found to be in a good sanitary condition.

No case of refusal to admit the Inspector has arisen during the year.

The appended table is abstracted from and is a concise compilation of the return forwarded to the Home Office on the administration of the Factory and Workshop Act, 1901, in the County Borough of Huddersfield for the year 1911 :—



# FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES, AND HOMEWORK.

## 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or  
Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions
<b>Factories</b> ... .. (Including Factory Laundries.)	193	166	...
<b>Workshops</b> ... .. (Including Workshop Laundries)	271	4	..
<b>Workplaces</b> ... .. (Other than Outworkers' premises included in part 3 of this Report.)			
<b>Total</b> ... ..	464	170	...

## 2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions
	Found.	Remedied.	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts :—*</i>				
Want of cleanliness ... ..	9	9	..	...
Want of ventilation ... ..	...	...	...	...
Overcrowding ... ..	...	...	...	...
Want of drainage of floors ... ..	...	...	...	...
Other nuisances, including black smoke ... ..	52	32	...	...
Sanitary accommodation {	insufficient ...	4	4	...
	unsuitable			
	or defective...	13	13	..
	not separate for sexes ...	1	1	...
<i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouse (S. 101) ... ..	...	...	...	...
Breach of special sanitary re- quirements for bakehouses (SS. 97 to 100) ... ..	2	2	...	...
Other offences :—				
Escape in case of fire ... ..	5	5	...	...
(Excluding offences relating to outwork which are included in Part 3 of this Report.)	...	...	...	...
<b>Total</b> ... ..	86	66	...	...

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



**Particulars of Work Performed by Scavenging Staff at  
Hillhouse Depot, &c.**

1911	Receptacles brought in to the Depot, &c.	Refuse burnt in St Andrew's Road Destructor.		Tons of Clinkers disposed of.
		Loads.	Tns. Cwts.	
January ...	69032	621	683 6	360
February ...	63222	1076	1218 13	528
March ...	71989	1383	1504 16	620
April ...	65369	1154	1685 19	706
May ...	74082	1323	1373 17	532
June ...	64807	1158	1126 5	495
July ...	68049	1339	1617 10	613
August ...	71918	1063	817 9	345
September ...	67822	984	1120 8	346
October ...	68952	1243	1213 3	552
November ...	69037	1448	1947 17	636
December ...	67598	1313	1435 18	625
Year ..	821877	14105	15745 1	6358

**Loads Collected during the Year 1911.**

1911.	Ashes and Trade Refuse.	Slaughter House Refuse.
January .....	2565	29
February .....	2142	28
March .....	2431	21
April .....	2205	32
May .....	2384	31
June .....	1824	29
July .....	2117	35
August .....	2077	35
September .....	1539	34
October .....	1849	31
November .....	2085	31
December .....	2048	28
Total.....	25266	364



## Hillhouse Depot Manure Sales.

MONTHS.	Stable Manure.	Grass Manure.	Market Refuse.	Slaugh- ter house Refuse.	TOTALS.
1911	Tons.	Tons	Tons.	Tons.	Tons.
January.....	248½	...	...	24½	273
February .....	187½	...	...	14½	202
March .....	181½	...	..	15½	197
April .....	133	...	...	31	164
May .....	210½	...	...	30½	241
June ..	103½	..	...	10	113½
July .....	199½	...	...	16	215½
August .....	43	...	...	16	59
September.....	157½	...	...	36	193½
October .....	247	...	...	...	247
November .....	237½	...	...	...	237½
December .....	142½	..	...	..	142½
Approximate Total.....	2091½	...	...	194	2285½

## SMOKE OBSERVATIONS—1911.

The following Table shows the number of Smoke Observations taken during each month of the year, with the average number of minutes of Dense Black Smoke emitted per half-hour's observation.

1911.	Number of Observations taken.	Number showing Moderate Smoke or None.	Number showing Dense Black Smoke.	Total Minutes of Dense Black Smoke emitted.	Average number of minutes of Dense Black Smoke emitted from Chimneys per half-hour.	REMARKS.
January ...	35	11	24	110	4.58	<p>The maximum limit for dense black smoke was fixed by the Sanitary Committee in March, 1898, at three minutes per half-hour observation.</p> <p>Where this limit has been exceeded warning letters have been sent to the parties involved, and if no improvement has resulted before the meeting of the Committee, they have been reported to the Committee.</p> <p>This has occurred in 132 cases during the year.</p> <p>In 52 cases legal notices have been issued during the year, resulting in a considerable diminution of black smoke emitted. In several cases the owners involved have adopted smoke preventing apparatus, or provided additional steam raising plant.</p>
February ...	26	11	15	31	2.07	
March .....	11	4	7	8.5	1.21	
April .....	18	7	11	38.5	3.50	
May .....	46	11	35	146.5	4.19	
June .....	47	4	43	130.5	3.03	
July .....	37	9	28	112.5	4.02	
August .....	14	5	9	39.5	4.39	
September ..	38	14	24	108	4.50	
October .....	47	18	29	132.5	4.57	
November ...	75	16	59	262	4.44	
December ...	14	5	9	61	6.78	
Duplicate observations	92					

## Canal Boats Acts, 1877 and 1884.

### Huddersfield Registration District.

Report as to the execution of the above named Acts and Regulations made thereunder for the year ended December 31st, 1911.

To the Mayor and Corporation acting as the Urban Sanitary Authority for the County Borough of Huddersfield.

GENTLEMEN,

I have the pleasure in submitting this, my annual report on the working of the Canal Boats Acts in this Borough, as required by Section 3 of the Canal Boats Acts, 1884.

The number of canal boats visited and inspected during the year ended 31st day of December, 1911, was 143, and of these 420 inspections were made, namely:—

36	Boats inspected once each ...	36	inspections.
43	„ twice each ...	86	„
23	„ three times each ...	69	„
14	„ four times each ...	56	„
8	„ five times each ...	40	„
6	„ six times each ...	36	„
10	„ seven times each ...	70	„
1	„ eight times ...	8	„
1	„ nine times ...	9	„
1	„ ten times ...	10	„
<hr/> 143		<hr/> 420	

as against 408 inspections of 142 boats during 1910, and 400 inspections of 136 boats during 1909.

The population found on board these boats numbered 822, namely:—687 adult males, 106 adult females, and 29 children, as against 735 in 1910, namely:—631 adult males, 85 adult females, and 19 children; and 524 in 1909, namely:—408 adult males, 80 adult females, and 36 children.



The following is a detailed statement of the number, age, and sex of children found on canal boats during 1911 :—

1911	MONTHS.			YEARS.												TOTALS.
Ages ...	2	5	6	1	2	3	4	5	6	7	8	10	11	14		
Males..	...	1	1	2	1	...	1	1	1	1	2	1	...	...	12	
Females	1	..	...	2	2	3	1	...	2	1	...	...	4	1	17	
Totals...	1	1	1	4	3	3	2	1	3	2	2	1	4	1	29	

By analysing the above table it is found that the number of children visiting Huddersfield of school age, and under that age, are as follows, namely :—15 under 5 years of age, and 14 from 5 to 14 years of age.

The monthly distribution of children on canal boats has been as under :—

Month, 1911.	Under 5 years.	Over 5 years.	Totals.
January .....	...	...	...
February .....	1	...	1
March.....	4	3	7
April .....	...	...	...
May .....	...	1	1
June .....	1	...	1
July .....	7	9	16
August .....	...	...	...
September .....	1	1	2
October .....	...	...	...
November .....	1	...	1
December .....	...	...	...
Totals	15	14	29

It will be seen from this record that an increased number of children of school age were met with during the year. The 14

children of school age were met with on 8 boats. Seven of these boats carrying 5, 2, 1, 1, 1, 1, 1 children respectively, were inspected once, and the other boat, carrying one child, was inspected on 2 occasions during 1911. The decided decrease, to which attention was drawn last year, has encountered a check during the year, as is shown in the tabulation hereunder :—

1909	8 boats carrying	9 children of school age, compared with
1910	5 boats carrying	8 children of school age, compared with
1911	8 boats carrying	14 children of school age.

It is very gratifying to find that one's endeavour to impress upon the parents the importance of providing homes on shore for their household continues to have the desired effect. The marked increase in the number of children of school age met with was more than accounted for by the 7 children between 5 and 14 years of age who were met with on 2 boats.

With one exception, whenever children were found on board a boat there were one or more women in charge of them.

Inspections of canal boats have been made on 71 days during 1911, and at each meeting of the Health Committee a report has been given of the number of boats visited, also infringements calling for remedy which have been found, since the previous Committee.

A large variety of goods are brought into the Borough by boat, consisting for the most part of cardboard, coal, cement, corn, chemicals, copper ore, flour, jute, jute yarn, locust beans, logwood, potatoes, pig-lead, iron (in pig and manufactured), oil, rough steel wire, rags, sugar, salts, timber, tar, and wool. The exports have been corn, coke, chemicals, flour, machinery, and tar. The imports were loaded at Goole, Grimsby, Hull, Horbury, Wakefield, Selby, and at various coal mines and gas works abutting on the canal.

The following paragraphs contain the information required by the circular of the Local Government Board, dated 15th December, 1911, arranged in the same order as those of the said circular :—

1. Arrangements made for the inspection of boats, the name, address, and remuneration of the Inspector.

William Medley Drake, Chief Inspector of Nuisances for the County Borough of Huddersfield, Public Health Department, Huddersfield, was appointed Inspector of Canal Boats on the 7th day of January, 1895, and the remuneration of the work is included in his salary as Chief Inspector of Nuisances.

2. The number of boats inspected during 1911, with the conditions of the boats and their occupants.

The number of boats inspected during 1911 was 143, and of inspections 420.

The 143 boats were made up of 53 broad boats, 21 narrow, and 69 fly boats, the latter being all broad boats.

The places of registry were Goole 88, Mirfield 41, Manchester 4, Sowerby Bridge 2, Birmingham 2, Hull 2, Huddersfield 2, and York and Sheffield one each. Ninety-four per cent of the boats inspected were found to be in good condition, and conforming to the Acts and Regulations, and the occupants of all the boats to be in good health.

3. Infringements of the Acts and Regulations with respect to the following matters:—

(a) Registration. None.

(b) Notification of change of master. None.

(c) Masters without certificates. Four found. Warning notices have been sent to owners.

(d) Marking. Six. Notices sent to owner. The certificates showing compliance have been returned in three cases.

(e) Overcrowding. None.



(f) Separation of sexes. None required.

(g) Cleanliness. Only cases of temporary uncleanness found, which have been remedied on request of Inspector.

(h) Ventilation. Nothing to complain about.

(i) Painting. None.

Repairs none.

(j) Provision of water cask. All boats with cask, jug, or can.

(k) Removal of bilge water. This work received regular attention.

(l) Notification of infectious disease. None.

(m) Admittance of Inspector. No difficulty experienced.

4. Legal proceedings taken. None.

5. Any other steps taken to secure compliance with the Acts and Regulations. Eight warning notices have been issued, and numerous letters written in respect of the 10 infringements (enumerated above) found on eight boats, and many matters of cleanliness or minor moment have received prompt attention at the instigation of the Inspector.

6. Infectious diseases. None.

7. Detention of boats. None.

8. Number of boats on the Register. Two.

9. Number registered during 1911. One.

I append hereto the usual summary.

Faithfully yours,

WILLIAM MEDLEY DRAKE,

Inspector under the Canal Boats Acts.

Public Health Department, Huddersfield,

January 10th, 1912.

## Canal Boats Acts, 1877 and 1884.

Summary Appendix to the Annual Report of the Canal  
Boats Inspector for the year 1911.

## Huddersfield Registration District.

	1911.	1910.	1905.
Number of boats inspected	143	142	136
Made up of Broad boats..	53	61	58
Broad fly boats ...	69	62	57
Narrow boats ...	21	19	21
Narrow fly boat...	...	...	...
Registered Accommoda- tion—Aft Cabin ...	1397½ } 2169	1340 } 2081	1297½ } 1956
Fore Cabin ...	771½ }	741 }	658½ }
Population found on board:			
Adults ...	793 } 822	716 } 735	488 } 524
Children ...	29 }	19 }	36 }
Children under school age	15	11	27
Children of school age ...	14	8	9
Number of days on which inspections have been made ...	71	73	72
Number of inspections made ...	420	408	400
Number of boats conform- ing to Acts and Regu- lations...	135	139	132
Number of boats with one or more infringements..	8	3	4
Number of infringements met with ..	10	4	6
Number remedied ...	3	1	6
Number dealt with by Magistrates ...	...	...	...
Number still under notice December 31st, 1911...	7	3	...
No service effected ...	...	...	...



## WARNING NOTICES AND CERTIFICATES.

Details of Infringements.	No. of Notices issued.	Certificates returned or Boat re-inspected.	Not remedied.
Non-production of certificate ... ..	4	...	4
Cabin required painting ... ..	...	...	...
Boat not properly marked ... ..	6	3	3
	10	3	7

## PARTICULARS OF NON-REMEDIED INFRINGEMENTS.

Alice of Leeds	55, Mirfield	Boat not properly marked.
Edward of Elland	190, Mirfield	Boat not properly marked, and proper Certificate not in charge of the master of the boat.
Neptune	546, Manchester	The master had not charge of the certificate.
Eva	790, Manchester	The master had not charge of the certificate.
William	Manchester	Boat not properly marked, and the master had not charge of the certificate.

(Signed)

WILLIAM M. DRAKE.

# TABLE A.

Vital Statistics of Huddersfield during the Year 1911 and previous Years.

YEAR.	Population estimated to middle of each year.	BIRTHS.		Total Deaths registered in the District.			Transferable Deaths.		Nett Deaths belonging to the District.				
		Un-corrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age		At all Ages.		
			Number.	Rate.					Number.	Rate per 1,000 nett Births.		Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13	
1906	101591	...	2301	22.73	1638	16.18		Particulars not available					
1907	102877	...	2189	21.35	1638	15.98	62	25	212	97	1601	15.61	
1908	104178	...	2348	22.19	1677	15.85	74	42	263	112	1645	15.54	
1909	105492	...	2318	22.05	1583	15.06	84	40	222	96	1539	14.64	
1910	106820	...	2164	20.33	1605	15.08	74	40	215	99	1571	14.76	
1911	108144	2126	2122	19.69	1664	15.44	84	55	281	132	1635	15.17	

Area of District in acres (exclusive of area covered by water)	11720.	Total population at all ages ...	...	107825	At Census of 1911.
		Number of inhabited houses...	...	25,879	
		Average number of persons per house	4.17		

# TABLE B.

Cases of Infectious Disease notified during the year, 1911.

Cases notified in whole District.										Total cases notified in each Township.						No. of Cases removed to Sanatorium from each Township.						Total cases removed to the Sanatorium from inside the Borough.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Notifiable Diseases	At Ages—Years.						At all ages.	1	Huddersfield (including Central, Marsh, Fartown, Deighton and Bradley).	2	Dalton. (H)	3	Almondbury. (W)	4	Lindley.	5	6	Longwood.	1	Huddersfield (including Central, Marsh, Fartown, Deighton and Bradley).	2	Dalton. (H)	3	Almondbury. (W)	4	Lindley.	5	6	Longwood.	Total cases removed to the Sanatorium from inside the Borough.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Isolation Hospital name and situation—Huddersfield Sanatorium, Dalton } Total available beds, 153.  
 Small Pox Hospital " } No. of diseases that can  
 Phthisis Hospital " } be treated concurrently, 7.  
 A case of Scarlet Fever from Kirkheaton, and a case of Typhoid Fever from Golcar were also treated in Hospital during the year, 1911.



**TABLE C.**  
Causes of, and Ages at Death during the Year 1911.

Causes of Death.	Nett Deaths at the Subjoined Ages of "Residents" whether occurring within or without the District										Total Deaths whether of "Residents" or "Non-Residents" in Public Insti- tutions in the District.			
	All ages.	Under 1.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.	Infirmary	Sanatorium.	Workhouse.	Nursing Home.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
All Causes—														
Certified .. ..	1627	280	65	63	59	60	192	437	471	132	30	126	6	
Uncertified .. ..	8	1	1	..	1	..	1	1	3	..	..	1	..	
Enteric Fever.. ..	8	..	..	..	1	..	5	2	..	1	4	..	..	
Small-pox .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Measles.. ..	17	9	6	1	1	..	..	..	..	..	..	..	..	
Scarlet Fever .. ..	16	1	..	10	5	..	..	..	..	..	15	..	..	
Whooping-cough .. ..	11	7	4	..	..	..	..	..	..	..	..	..	..	
Diphtheria and croup .. ..	22	1	4	7	10	..	..	..	..	1	10	..	..	
Influenza .. ..	11	..	..	..	..	..	4	3	4	..	..	..	..	
Erysipelas .. ..	2	..	..	..	..	..	..	..	2	..	..	..	..	
Cerebro-Spinal Fever .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Phthisis (Pulmonary Tuber- culosis) .. ..	92	2	..	..	6	22	38	20	4	..	..	19	..	
Tuberculous Meningitis .. ..	17	2	4	5	3	1	2	..	..	3	..	2	..	
Other Tuberculous Diseases.. ..	23	..	2	2	1	5	7	5	1	4	..	2	1	
Rheumatic Fever .. ..	4	..	..	..	2	1	1	..	..	..	..	..	..	
Cancer, malignant diseases.. ..	129	..	..	..	..	2	14	64	49	19	..	9	..	
Bronchitis .. ..	153	25	9	2	..	..	6	43	68	..	..	13	..	
Broncho-Pneumonia.. ..	42	13	8	5	1	1	5	6	3	..	..	3	..	
Pneumonia (all other forms)	50	6	3	5	4	3	9	12	8	2	..	6	..	
Other diseases of Respiratory organs .. ..	14	1	..	4	1	..	1	6	1	..	..	1	..	
Diarrhoea and Ent-ritis .. ..	131	79	15	4	1	1	..	12	19	5	..	2	..	
Appendicitis and Typhlitis.. ..	7	..	..	..	4	1	1	1	..	11	..	..	..	
Alcoholism .. ..	1	..	..	..	..	..	1	..	..	..	..	..	..	
Cirrhosis of Liver .. ..	11	..	..	..	..	..	1	5	5	..	..	1	..	
Nephritis & Bright's Disease.. ..	96	..	..	1	2	6	19	48	20	6	..	6	..	
Puerperal Fever .. ..	1	..	..	..	..	..	1	..	..	2	..	..	..	
Other Accidents and diseases of Pregnancy & Parturition .. ..	10	..	..	..	..	..	10	..	..	2	..	1	1	
Congenital Debility & Mal- formation, including Pre- mature Birth .. ..	87	83	2	..	1	1	..	..	..	1	..	6	..	
Violent Deaths, excluding Suicide .. ..	40	5	1	4	2	4	10	11	3	20	..	2	..	
Suicides .. ..	14	..	..	..	..	1	6	6	1	1	..	..	..	
Other Defined diseases .. ..	626	47	8	13	15	11	52	194	286	54	1	54	4	
Diseases ill-defined or un- known .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Total .. ..	1635	281	66	63	60	60	193	438	474	132	30	127	6	

# TABLE D.

## Infantile Mortality during the Year 1911.

Nett Deaths from stated Causes at various ages under One Year of Age.

CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under One Year.
<b>ALL CAUSES—</b>										
Certified .. .. .	56	13	5	12	86	56	49	56	33	280
Uncertified .. .. .	1	..	..	..	1	..	..	..	..	1
Small pox .. .. .	..	..	..	..	..	..	..	..	..	..
Chicken-pox .. .. .	..	..	..	..	..	..	..	..	..	..
Measles .. .. .	..	..	..	..	..	..	1	2	6	9
Scarlet Fever .. .. .	..	..	..	..	..	..	..	1	..	1
Diphtheria and Croup .. .. .	..	..	..	..	..	..	..	..	1	1
Whooping Cough .. .. .	..	..	..	..	..	1	2	3	1	7
Diarrhoea .. .. .	..	1	1	3	5	19	24	17	10	75
Enteritis .. .. .	..	..	..	..	..	..	2	2	..	4
Tuberculous Meningitis.. .. .	..	..	..	..	..	1	..	1	..	2
Abdominal Tuberculosis.. .. .	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases } .. .. .	..	..	..	..	..	..	..	2	..	2
Congenital Malformations	3	2	..	..	5	1	..	..	..	6
Premature Birth .. .. .	36	2	3	2	43	5	1	1	..	50
Atrophy, Debility, and Marasmus } .. .. .	4	1	1	2	8	8	7	3	1	27
Atelectasis .. .. .	7	3	..	1	11	..	..	..	..	11
Injury at Birth .. .. .	1	..	..	..	1	..	..	..	..	1
Erysipelas .. .. .	..	..	..	..	..	..	..	..	..	..
Syphilis .. .. .	..	..	..	1	1	1	..	..	..	2
Rickets .. .. .	..	..	..	..	..	..	1	..	..	1
Meningitis, not Tuberculous .. .. .	..	..	..	..	..	..	..	1	..	1
Convulsions .. .. .	2	3	..	..	5	5	4	3	..	17
Gastritis .. .. .	..	..	..	..	..	..	..	..	..	..
Laryngitis .. .. .	..	..	..	..	..	..	..	1	..	1
Bronchitis .. .. .	..	..	..	3	3	7	4	4	7	25
Pneumonia (all forms) .. .. .	1	1	..	..	2	4	..	8	5	19
Suffocation, overlying .. .. .	1	..	..	..	1	1	..	1	..	3
Suffocation, otherwise .. .. .	1	..	..	..	1	..	1	..	..	2
Other Causes .. .. .	1	..	..	..	1	3	2	6	2	13
<b>Totals .. .. .</b>	<b>57</b>	<b>13</b>	<b>5</b>	<b>12</b>	<b>87</b>	<b>56</b>	<b>49</b>	<b>56</b>	<b>33</b>	<b>281</b>

Nett Births in the year { legitimate 2030  
illegitimate 92

Nett Deaths in the year of { legitimate infants 251  
illegitimate infants 30



PHTHISIS: SANATORIUM AND HOSPITAL ACCOMMODATION.

Have the Council, or any Private Body, provided a Dispensary. If so, give particulars? Not yet.



# TABLE I.

Return of Births and Deaths Registered during the thirteen weeks ended 1st April, 1911.

DISTRICTS.	Census Population, 1911.	Estimated Population at the middle of the year 1911.	Births Registered during the 13 weeks ended 1st April, 1911.	Deaths Registered during the 13 weeks ended 1st April, 1911.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.								Rate of Mortality per 1000								
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.			Tuberculosis, all forms.	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	All Causes.		Seven Zymotics.	
													Typhoid	Other	Diarrhoea.						During the corresponding period year previous.	During the 13 weeks ended 1st April, 1911.		
*Huddersfield Including Central, Marsh, Fartown, Deighton & Bradley .....	51,265	51,424	264	171	28	14	63	..	5	..	1	1	..	..	..	..	45	19	12	79	15.18	13.35	0.79	0.70
Dalton .....	9,249	9,266	48	18	11	2	7	..	..	..	..	..	..	..	..	..	3	3	2	9	16.15	7.80	0.87	0.43
Almondbury .....	15,485	15,509	74	48	11	2	23	..	..	..	..	..	..	..	..	..	10	4	4	27	13.55	12.42	..	..
Lockwood .....	16,642	16,728	77	62	10	6	19	..	1	..	..	..	..	..	..	6	18	4	6	27	12.74	14.88	0.24	0.24
Lindley .....	9,345	9,367	49	33	5	3	10	..	..	..	1	..	..	..	..	2	3	4	1	19	6.92	14.14	0.43	1.71
Longwood .....	5,839	5,850	25	19	3	3	8	..	..	..	..	..	..	..	..	..	3	3	1	12	14.53	13.04	0.69	..
Infirmary .....	..	..	2	12	..	1	2	..	..	..	1	..	..	..	..	..	..	..	2	9	..	..	..	..
Nursing Home .....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Workhouse .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	13	..	..	..	..
Do. (Deanhouse) .....	..	..	6	29	2	1	7	..	..	..	..	..	..	..	..	1	8	4	1	13	..	..	..	..
Sanatorium for Infectious Diseases .....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Other deaths of residents occurring outside the Borough .....	..	..	..	8	1	3	..	..	3	4	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Borough .....	..	..	..	10	..	..	1	..	..	..	..	..	..	..	1	..	..	3	..	6	..	..	..	..
Borough .....	107,825	108,144	545	412	62	35	140	..	6	3	7	1	..	..	7	21	90	44	29	204	..	..	..	..
Rate per 1000 of Estimated Population...	..	..	20.23	15.29	..	..	..	..	0.22	0.11	0.26	0.04	..	..	0.26	0.78	3.34	1.63	1.08	7.57	6.95	15.29	1.01	0.89

Death Rate—Huddersfield, with Infirmary and Nursing Home, 14.36. Deaths of Children under one year per 1000 births, 114. Death Rate of 77 towns, 16.8.  
 " Dalton, with Fever Hospital, 11.26. " previous corresponding period 110. Birth Rate " 26.5.  
 " Lockwood, with Crosland Moor Workhouse, 21.83.

\* Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.



TABLE II.

Return of Births and Deaths Registered during the thirteen weeks ended 1st July, 1911.

DISTRICTS.	Census Population, 1911.	Estimated Population at the middle of the year 1911.	Births registered during the 13 weeks ended 1st July, 1911	Deaths registered during the 13 weeks ended 1st July, 1911	AGE MORTALITY			SEVEN ZYMOTIC DISEASES.							Rate of Mortality per 1000.											
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers		Tuberculosis, all forms.	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	During the corresponding period year previous.	During the 13 weeks ended 1st July, 1911	All Causes.	Seven Zymotics			
													During the corresponding period year previous.	During the 13 weeks ended 1st July, 1911												
*Huddersfield Including Central, Marsh, Fartown, Deighton & Bradley .....	51,265	51,424	267	150	25	8	33	..	1	..	..	..	5	..	..	3	18	25	13	6	73	10.51	11.71	0.63	1.17	
Dalton .....	9,249	9,266	39	33	7	1	13	..	1	..	..	..	..	..	..	..	..	6	3	2	22	10.04	14.29	0.87	0.43	
Almondbury .....	15,485	15,509	93	45	8	5	13	..	1	..	..	..	1	..	..	..	6	7	4	5	21	14.59	11.65	1.04	0.52	
Lockwood .....	16,642	16,728	91	50	5	7	18	..	2	..	..	..	1	..	..	..	4	7	3	6	25	11.76	12.00	0.98	1.20	
Lindley .....	9,345	9,367	48	23	2	..	13	..	1	..	..	..	..	..	..	..	1	4	6	1	10	9.95	9.85	..	0.43	
Longwood .....	5,839	5,850	32	16	1	..	9	..	..	..	..	..	..	..	..	..	2	4	3	2	7	11.76	10.98	..	..	
Infirmary .....	..	..	1	25	1	4	2	..	..	..	..	..	..	..	..	..	1	1	2	6	14	..	..	..	..	
Nursing Home .....	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Workhouse .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Crosland Moor.	..	..	3	36	1	3	5	..	..	..	..	..	..	..	..	..	11	5	2	4	14	..	..	..	..	
Do. (Deanhouse)	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	
Sanatorium for Infectious Diseases .....	..	..	..	7	..	4	..	..	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Other deaths of residents occurring outside the Borough .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Borough .....	107,825	108,144	574	400	50	33	110	..	..	..	..	..	..	..	..	3	44	60	39	32	194	..	..	..	..	
Rate per 1000 of Estimated Population .....	..	..	21.30	14.85	..	..	..	..	0.41	0.26	0.11	0.26	0.11	0.26	..	..	0.11	1.63	2.23	1.45	1.19	7.20	13.53	14.85	0.79	1.15

Death Rate—Huddersfield, with Infirmary and Nursing Home, 13.74. Deaths of Children under one year per 1000 births, 87. Death Rate of 77 towns, 13.8.  
 " Dalton, with Fever Hospital, 17.33. " " previous corresponding period, 77. Birth Rate " 26.1.  
 " Lockwood, with Crosland Moor Workhouse, 20.63.

\* Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.



# TABLE III.

Return of Births and Deaths Registered during the thirteen weeks ended 30th September, 1911.

DISTRICTS.	Census Population, 1911.	Estimated Population at the middle of the year, 1911.	Births Registered during the 13 weeks ended 30th Sept., 1911.	Deaths Registered during the 13 weeks ended 30th Sept., 1911.	AGE MORTALITY			SEVEN ZYMOTIC DISEASES.								Rate of Mortality per 1000.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Tuberculosis, all forms.	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	During the corre- sponding period year previous.	During the 13 weeks ended 30th Sept., 1911.	During the corre- sponding period year previous.	During the 13 weeks ended 30th Sept., 1911.	Seven Zymotics	All Causes.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
													Typhoid.	Other.												Diarrhoea.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
* Huddersfield Includ- ing Central, Marsh, Fartown, Deighton & Bradley .....	51,265	51,424	234	188	73	15	41	..	..	..	..	..	1	1	59	17	11	9	16	74	12.25	14.67	1.11	4.76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Death Rate — Huddersfield, with Infirmary and Nursing Home, 16.25. Deaths of Children under one year per 1000 births, 236. Death Rate of 77 towns, 16.6.  
 " Dalton, with Fever Hospital, 15.16. " " previous corresponding period, 101. Birth Rate " 25.5.  
 " Lockwood, with Crosland Moor Workhouse, 18.23.

\* Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 17-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central, Marsh, Fartown, Deighton and Bradley as in former years. The other districts are based on the division of the township with those of previous years.



TABLE IV.

Return of Births and Deaths Registered during the thirteen weeks ended 30th December, 1911.

DISTRICTS.	Census Population, 1911.	Estimated Population at the middle of the year, 1911.	Births Registered during the 13 weeks ended 30th Dec., 1911.	Deaths Registered during the 13 weeks ended 30th Dec., 1911.	AGE MORTALITY.			SEVEN ZYMOTIC DISEASES.								Rate of Mortality per 1000.									
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Tuberculosis, all forms.	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	During the corresponding period year previous.	During the 13 weeks ended 30th Dec., 1911.	All Causes.	During the corresponding period year previous.	Seven Zymotics	During the 13 weeks ended 30th Dec., 1911.
													Typhoid.	Other.											
* Huddersfield Including Central, Marsh, Fartown, Deighton & Bradley .....	51,265	51,424	235	175	26	13	46	...	...	...	2	1	2	...	2	37	24	12	83	13-68	13-66	0-95	0-55		
Dalton .....	9,249	9,266	46	23	4	2	6	...	...	...	...	1	1	...	...	1	5	3	8	14-41	9-96	0-44	1-73		
Almondbury .....	15,485	15,509	78	49	6	2	20	...	...	...	...	...	...	...	6	7	4	5	25	19-94	12-68	0-26	0-52		
Lockwood .....	16,642	16,728	76	41	6	3	7	...	...	...	3	...	...	...	1	4	1	4	21	11-76	9-84	0-98	0-96		
Lindley .....	9,345	9,367	39	25	4	1	6	...	...	...	...	...	...	...	1	2	4	4	7	10-39	10-71	0-43	0-43		
Longwood .....	5,839	5,850	27	21	1	1	13	...	...	...	...	...	...	...	1	3	1	1	11	11-07	14-41	...	0-69		
Infirmary .....	...	...	1	24	2	2	2	...	...	...	...	...	...	...	...	1	4	2	17	...	...	...	...		
Nursing Home .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Workhouse Crosland Moor.	...	...	5	16	2	...	3	...	...	...	...	...	...	...	2	...	4	2	8	...	...	...	...		
Do. (Deanhouse) Sanatorium for Infectious Diseases .....	...	...	...	6	...	...	3	...	...	...	...	...	...	...	...	...	1	...	2	...	...	...	...		
Other deaths of residents occurring outside the Borough .....	...	...	...	10	...	3	...	...	...	3	3	...	4	...	...	...	...	...	...	...	...	...	...		
Borough .....	107,825	108,144	507	401	51	27	110	...	...	...	...	...	...	...	...	3	...	...	193	...	...	...	...		
Rate per 1000 of Estimated Population ...	...	...	18-82	14-88	...	...	...	...	...	0-11	0-30	0-07	0-26	...	0-33	1-15	2-60	1-19	7-16	15-40	14-88	0-98	1-08		

Death Rate-- Huddersfield, with Infirmary, and Nursing Home 15-53. Deaths of Children under one year per 1000 births, 101. Death Rate of 77 towns, 14-7.  
 " Dalton, with Fever Hospital, 14-29. " previous corresponding period, 110. Birth Rate " 24-4.  
 " Lookwood, with Crosland Moor Workhouse, 13-68.

\* Owing to the alterations in the Ward Boundaries made by the Council in January, 1903 (see Minutes, 15-1-1903), it is not possible to continue the division of the Huddersfield Township into Districts, Central Marsh, Fartown, Deighton and Bradley as in former years. The other districts are however strictly comparable with those of previous years.

# TABLE V.

Return of Births and Deaths Registered during the fifty-two weeks ended 30th December, 1911.

DISTRICTS.	Census Population 1911.	Estimated population at the middle of the year 1911.	Births Registered during the 52 weeks ended 30th Dec., 1911.	Deaths Registered during the 52 weeks ended 30th Dec., 1911.	AGE MORTALITY			SEVEN ZYMOTIC DISEASES.										Rate of Mortality per 1000.						
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers			Tuberculosis, all forms.	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	During the corresponding period year previous.	During the 52 weeks ended 30th Dec., 1911.	All Causes.	Seven Zymotics.
													Typhoid.	Other.	Diarrhoea.									
* Huddersfield Including Central, Marsh, Fartown, Deighton & Bradley .....	51,265	51,424	1000	684	152	50	183	..	12	..	3	8	3	..	66	54	118	65	46	309	12.91	13.35	0.67	1.79
Dalton .....	9,249	9,266	188	104	20	8	37	..	1	..	..	1	1	..	13	1	14	11	10	52	12.89	11.26	0.98	1.73
Almondbury .....	15,485	15,509	313	189	36	10	74	..	1	..	..	..	..	..	7	20	26	17	18	99	13.02	12.23	0.39	0.58
Lockwood .....	16,642	16,728	312	208	34	21	59	..	3	..	6	1	..	..	16	19	35	12	19	97	11.52	12.48	0.67	1.56
Lindley .....	9,345	9,367	174	108	18	8	35	..	..	..	2	..	..	..	10	5	19	17	7	47	8.33	11.57	0.43	1.39
Longwood .....	5,839	5,850	112	72	7	4	38	..	..	..	..	..	..	..	4	4	12	9	6	37	11.59	12.35	0.35	0.69
Infirmary .....	..	..	5	79	7	9	6	..	..	..	1	..	..	..	4	4	1	6	15	48	..	..	..	..
Nursing Home .....	..	..	..	4	..	1	1	..	..	..	..	..	..	..	..	1	..	..	..	3	..	..	..	..
Workhouse .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Do. (Deanhouse) .....	..	..	22	102	5	5	26	..	..	..	..	..	..	..	2	21	19	13	7	40	..	..	..	..
Sanatorium for Infectious Diseases .....	..	..	..	9	..	..	4	..	..	..	..	..	..	..	..	..	..	1	..	8	..	..	..	..
Other deaths of residents occurring outside the Borough .....	..	..	..	30	1	13	..	..	..	15	10	..	4	..	..	..	..	..	..	1	..	..	..	..
Borough .....	..	..	..	46	1	..	11	..	..	..	..	..	..	..	1	3	5	8	1	28	..	..	..	..
Borough .....	107,825	108,144	2,126	1,635	281	129	474	..	17	16	22	11	8	..	123	132	249	159	129	769	..	..	..	..
Rate per 1000 of Estimated Population ..	..	..	19.73	15.17	..	..	..	..	0.16	0.15	0.20	0.10	0.07	..	1.14	1.22	2.31	1.47	1.20	7.13	14.76	15.17	1.00	1.83

Death Rate.—Huddersfield, with Infirmary and Nursing Home, 14.97. Deaths of Children under one year per 1000 births, 132. Death Rate of 77 towns, 15.5  
 " Dalton, with Fever Hospital, 14.51. " " previous corresponding period 99. Birth Rate " 25.6  
 " Lockwood, with Crosland Moor Workhouse, 18.59.

\* Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15.1.1908) it is not possible to continue the division of the Huddersfield Township



# TABLE VI.

Death Rate per 1,000 per annum for 1911 and thirty-one previous years.

Year.	Estimated population at the middle of the Year.	From all causes and at all ages	Children under 1 year.	Children over 1 year and under 5 years.	In persons aged 5 years and upwards.	In persons aged 15 years and upwards.	ZYMOTIC DISEASES.						Seven Zymotic Diseases.	Violence and Accidents.	Consumption and Diseases of the Breathing organs.
							Small pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhoea.		
1911	108,144	15.17	2.61	1.20	4.40	...	...	0.16	0.15	0.20	0.10	0.07	1.14	1.83	3.16
1910	106,820	14.76	2.02	1.17	3.86	...	...	0.09	0.17	0.14	0.27	0.05	0.28	1.00	3.22
1909	105,492	14.64	2.11	1.27	4.12	...	...	0.17	0.09	0.19	0.14	0.10	0.25	0.94	3.47
1908	104,178	15.54	2.48	1.55	4.05	...	...	0.62	0.03	0.08	0.13	0.08	0.56	1.50	3.55
1907	102,877	15.61	2.07	1.11	4.23	...	...	0.10	0.06	0.08	0.18	0.11	0.19	0.71	3.95
1906	101,591	16.18	3.07	1.31	4.21	...	...	0.60	0.07	0.13	0.32	0.09	0.80	2.00	3.84
1905	100,317	16.05	2.69	1.29	4.17	...	...	0.05	0.11	0.11	0.17	0.17	0.46	1.07	4.15
1904	99,056	16.78	3.08	1.69	4.11	...	0.01	0.76	0.10	0.14	0.25	0.07	0.50	1.83	4.13
1903	97,808	16.25	2.78	1.32	4.23	...	0.02	...	0.15	0.14	0.16	0.08	0.26	0.82	4.41
1902	96,573	17.43	3.30	1.78	4.17	...	0.01	0.59	0.11	0.15	0.47	0.05	0.19	1.58	4.46
1901	95,351	16.64	3.02	1.23	4.38	...	...	0.14	0.06	0.06	0.02	0.19	0.94	1.41	4.46
1900	95,074	18.49	3.32	1.89	8.20	...	...	0.62	0.20	0.02	0.18	0.24	0.50	1.74	5.26
1899	95,112	17.63	3.79	1.41	7.44	...	...	0.12	0.07	0.05	0.59	0.25	0.95	2.04	4.74
1898	95,149	17.13	3.70	1.89	7.03	...	...	0.34	0.10	0.15	0.12	0.10	0.81	1.62	4.65
1897	95,187	17.56	3.30	1.74	6.81	...	...	0.27	0.35	0.22	0.21	0.17	0.35	1.57	5.05
1896	95,224	17.69	3.63	2.25	6.90	...	...	0.28	0.20	0.27	0.57	0.13	0.34	1.79	5.51
1895	95,261	17.89	3.58	1.95	7.00	...	...	0.13	0.21	0.20	0.22	0.06	0.54	1.36	5.17
1894	95,299	16.46	3.35	1.94	5.92	...	...	0.14	0.24	0.28	0.58	0.14	0.19	1.57	4.81
1893	95,336	17.84	2.37	2.05	6.82	...	0.02	0.26	0.26	0.03	0.14	0.15	0.55	1.41	5.55
1892	95,373	18.37	3.53	2.60	6.97	...	0.01	0.71	0.19	0.07	0.30	0.06	0.19	1.55	5.76
1891	95,410	23.02	4.52	3.51	8.64	...	...	1.12	0.31	0.05	0.62	0.16	0.14	2.40	7.66
1890	94,253	18.84	3.83	2.19	7.02	...	0.01	0.04	0.07	0.05	0.42	0.25	0.39	1.23	6.58
1889	92,825	18.79	4.15	2.78	6.33	...	...	0.98	0.28	0.13	0.16	0.11	0.36	2.02	5.95
1888	91,419	18.51	3.90	2.80	6.37	...	0.02	0.36	0.29	0.15	0.41	0.13	0.19	1.55	5.40
1887	90,034	22.99	5.06	4.42	6.70	...	...	1.39	0.35	0.46	0.68	0.10	0.41	3.39	7.26
1886	88,670	19.54	4.49	2.76	6.30	...	...	0.19	0.37	0.14	0.32	0.14	0.48	1.63	6.38
1885	87,327	20.05	4.62	2.84	6.79	...	...	0.65	0.13	0.05	0.29	0.11	0.20	1.42	6.50
1884	86,004	19.54	4.84	2.55	6.34	...	...	0.18	0.08	0.05	0.70	0.14	0.63	1.77	5.65
1883	84,450	21.38	5.14	3.09	6.52	...	...	0.39	0.08	0.04	0.55	0.18	0.44	1.68	7.65
1882	83,271	22.39	5.64	3.93	6.60	...	...	0.96	0.26	0.07	0.64	0.18	0.53	2.63	6.81
1881	82,113	20.35	4.67	2.82	6.54	...	...	0.09	0.21	0.04	0.42	0.13	0.38	1.26	6.50
1880	81,780	22.04	5.20	3.79	6.66	...	0.02	0.40	0.28	0.05	0.15	0.67	0.91	2.49	6.72



TABLE VII.

DISTRICTS.	Birth-rate	Mortality per 1,000 Persons Living at all Ages.													Violence	Ill-defined and not Specified Causes.	Total from all Causes
		Children under 1 year.	1 to 5 Years.	Adults over 65 years.	Seven Zymotic Diseases	Constitutional Diseases	Tuberculosis, all forms.	Developmental Diseases	Diseases of the Nervous System	Diseases of the Circulatory System.	Diseases of the Respiratory System.	Digestive System	Diseases of the Urinary System	Diseases of the Reproductive System			
Huddersfield Township (with Infirmary & Nurses Home) .....	19.61	3.10	1.17	3.71	1.89	1.40	1.15	2.15	1.23	1.48	2.44	0.94	0.99	0.16	0.76	..	14.97
Huddersfield Township (without Infirmary) .....	19.51	2.97	0.98	3.57	1.79	1.07	1.05	2.13	1.11	1.37	2.42	0.62	0.86	0.10	0.51	..	13.35
Dalton (with Sanatorium) .....	20.36	2.27	2.27	4.01	4.87	1.19	0.11	2.49	1.73	1.19	1.62	0.32	0.65	...	0.11	..	14.51
Dalton (without Sanatorium) .....	20.36	2.17	0.87	4.01	1.73	1.19	0.11	2.49	1.73	1.19	1.62	0.22	0.65	...	0.11	..	11.26
Almondbury .....	20.25	2.33	0.65	4.79	0.53	1.42	1.29	2.85	1.81	1.93	1.68	0.45	0.45	...	0.06	..	12.23
Lockwood (with Workhouse) .....	20.03	2.34	0.56	5.10	1.68	1.80	2.40	2.52	2.34	1.68	3.24	0.48	1.26	0.12	0.42	..	18.59
Lockwood (without Workhouse) .....	18.71	2.64	1.26	3.54	1.56	1.32	1.14	1.56	1.68	0.72	2.10	0.42	1.08	0.06	0.42	..	12.48
Lindley .....	18.64	1.93	0.86	3.75	1.39	0.96	0.54	1.82	1.50	1.82	2.03	0.54	0.43	0.32	...	..	11.57
Longwood .....	19.21	1.20	0.69	6.52	0.69	1.20	0.69	1.89	1.71	1.89	2.57	0.69	0.86	...	0.17	..	12.35
Total for Borough, 1911 .....	19.73	2.61	1.20	4.40	1.83	1.41	1.22	2.33	1.72	1.60	2.40	0.71	0.93	0.12	0.50	..	15.17
Do. for 1910 .....	20.33	2.02	1.17	3.86	1.00	1.72	1.44	2.29	1.71	1.61	2.26	0.84	0.73	0.10	0.59	0.61	14.76





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