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DONCASTER  
RURAL DISTRICT COUNCIL

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ANNUAL  
**REPORT**  
OF THE  
MEDICAL OFFICER  
OF HEALTH

FOR  
**1916**

BY  
A. B. DUNNE,  
M.B., B.C., Cambridge, D.P.H., London; etc.



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# *Doncaster Rural District Council.*

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PUBLIC HEALTH DEPARTMENT,

7, ST. GEORGE GATE,

DONCASTER,

March 31st, 1917.

*To the Chairman and Members of the  
Rural District Council of Doncaster.*

Gentlemen,

In accordance with a circular letter from the Local Government Board under date January 19th, 1917, with reference to the abbreviation of last year's Annual Report, I beg, as suggested, to present a type-written interim report confined to such facts as are necessary for a continuous record of the Vital Statistics of the District.

I have the honour to be, Gentlemen,

Your obedient Servant,

A. B. DUNNE,

Medical Officer of Health.





# ANNUAL REPORT

for 1916.

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## VITAL STATISTICS.

The Registrar General has supplied the following figures as the estimated population of the District:—

Estimated population for Death-rate ... ..	33,111
Estimated population for Birth-rate ... ..	36,025

### BIRTHS.

The total Births were 1,141, or 13 more than in 1915, and equal to a Birth-rate of 30.6 per 1,000.

The Birth-rate for England and Wales was 21.6 per 1,000.

The male births were 582, and female 559.

45 were illegitimate births, 24 males and 21 females, equal to a Birth-rate of 1.2 per 1,000.

### DEATHS.

The total Deaths were 463, or 50 less than in 1915, and equal to a Death-rate of 13.9 per 1,000.

The Death-rate for England and Wales was 14.0 per 1,000.

The male deaths were 255 and female 208.

56 of the Deaths occurred outside the District, chiefly in Hospitals and other Public Institutions.

23 of the Deaths were residents of Districts other than your own.

## DEATHS FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES.

1.	Enteric Fever	...	...	...	...	...	1
2.	Small Pox	...	...	...	...	...	0
3.	Measles	...	...	...	...	...	6
4.	Scarlet Fever	...	...	...	...	...	1
5.	Whooping Cough	...	...	...	...	...	12
6.	Diphtheria	...	...	...	...	...	3
7.	Diarrhœa	...	...	...	...	...	36
							—
Total							59
							—

equal to a Zymotic Death-rate of 1.7 per 1,000, which is the lowest for the past 10 years with the exception of 1912; this is due to the fewer deaths from Measles.

## DEATHS FROM DIARRHŒA under 2 years of age.

Number of Deaths (Male 17, Female 19)	...	36
Death-rate	...	1.08

this is the lowest death-rate for the past 10 years, with the exception of 1912.

The Deaths occurred in the following Parishes:—Bawtry 1, Braithwell 1, Conisbrough 18, Denaby 15, and Edlington 1.

## DEATHS FROM TUBERCULOSIS.

1.	Pulmonary Tuberculosis (consumption)	...	34
2.	Tuberculous Meningitis	...	10
3.	Other Tuberculous Diseases	...	10
			—
Total			54
			—
Death-rate (all forms)			1.60
Death-rate (consumption only)			1.02

both these are in excess of the average for the past 10 years.

## DEATHS FROM VIOLENCE. (Coroner's Inquests).

33 Inquests have been held, and the Deaths were found to be due to the following causes:—Natural Causes 4, Excusable Homicide 1, Suicide 3, Scalds and Burns 3, Exposure to Cold 1, Suffocation in Bed 1, Drowning 4, Colliery Accidents 11, Miscellaneous Causes 5.



## INFANTILE MORTALITY.

122 infants (71 male and 51 female) died under 1 year of age, being 4 less than in 1915. This is equal to an Infantile Mortality Rate of 106.9 per 1,000 births, and is the lowest for the past 10 years with the exception of 1912.

The Infantile Mortality Rate of England and Wales was 91.0.

1 death was uncertified, the cause of death being said to be Convulsions.

3 Coroner's Inquests were held, the causes of death being: Suffocation from overlying in bed 1, Convulsions 1, and Drowning 1.

12 illegitimate infants died under 1 year, or 10 per cent. of the total number of infantile deaths. As there were only 45 illegitimate births, this is equal to an Infantile Mortality Rate for illegitimate children of 266.6 per 1,000 births, compared with an Infantile Mortality Rate of legitimate children of 100.3.

1 Inquest was held on an illegitimate infant dying under 1 year, the cause being Suffocation from overlying in bed.

These Deaths occurred in the following Parishes:—Askern 1, Conisbrough 3, Denaby 1, Edlington 6, and Norton 1.

Infantile Deaths occurred in the following Parishes:—Askern 9, Awkley 1, Barmbrough 3, Bawtry 2, Braithwell 1, Brodsworth 2, Conisbrough 37, Cadeby 1, Cantley 2, Denaby 25, Edlington 24, Hooton Pagnell 2, Moss 2, Norton 2, Rossington 7, Sutton 1, and Wadworth 1.

As in former years I append a table shewing the Infantile Mortality of certain populous parishes in which 50 births and upwards have occurred during the year.

PARISH.	Esti- mated Popula- tion.	Births.	Deaths under 1 year.	Infantile Mortality Rate.	
				1915	1916
Askern .. ..	3265	129	9	153.0	69
Conisborough ..	10855	332	37	106.2	111.3
Denaby .. ..	4620	158	25	141.4	158.2
Edlington .. ..	8375	174	24	157.4	137.9



## PREVALENCE AND CONTROL OF INFECTIOUS DISEASES (Acute).

651 Notifications of Infectious Disease were received, viz.: Diphtheria 48, Erysipelas 19, Scarlet Fever 74, Enteric Fever 12, Puerperal Fever 3, Cerebro-Spinal Fever 1, Acute Poliomyelitis 1, Ophthalmia Neonatorum 14, Measles and German Measles 382, Pulmonary Tuberculosis 49, and Other Forms of Tuberculosis 48.

### 1. DIPHTHERIA.

Cases Notified, 48. Removed to Hospital, 44.

Attack-rate for 1,000, 1.4. Number of Deaths, 3.

The cases were notified from the following Parishes:—Adwick-on-Deane 1, Askern 7, Barmbrough 1, Braithwell 1, Campsall 1, Clayton-with-Frickley 2, Conisbrough 14, Denaby 6, Edlington 3, Fenwick 1, Kirk Sandall 2, Norton 1, Rossington 6, and Stainton 2. One School was closed (New Rossington Temporary Council School) from December 11th to December 21st.

### 2. ERYSIPELAS.

Cases Notified, 19. Removed to Hospital, 0.

Attack-rate per 1,000, 0.5. Number of Deaths, 0.

The cases were notified from the following Parishes:—Askern 1, Barmbrough 1, Bawtry 1, Conisbrough 6, Denaby 2, Edlington 4, Hickleton 1, Sprotbrough 1, and Warmsworth 2.

### 3. SCARLET FEVER.

Cases Notified, 74. Removed to Hospital, 64.

Attack-rate per 1,000, 2.2. Number of Deaths, 1.

The cases were notified from the following Parishes:—Adwick-on-Deane 1, Askern 9, Burghwallis 2, Cantley 1, Clayton-with-Frickley 3, Conisbrough 31, Denaby 6, Edlington 6, Fenwick 1, Hooton Pagnell 1, Loversall 3, Norton 3, Rossington 1, and Wadworth 6.

### 4. ENTERIC FEVER.

Cases Notified, 12. Removed to Hospital, 11.

Attack-rate per 1,000, 0.3. Number of Deaths, 1.

The cases were notified from the following Parishes:—Campsall 1, Conisbrough 2, and Denaby 9. The number of cases is the lowest with the exception of the year 1910, when 8 cases were notified.

## 5. PUERPERAL FEVER.

Cases Notified, 3. Attack-rate per 1,000 births, 2.6.

Number of Deaths, 0.

The cases were notified from the parishes of Conisbrough, Denaby and Moss, respectively, and occurred in the practice of midwives.

## 6. CEREBRO-SPINAL MENINGITIS.

Cases Notified, 1. Removed to Hospital, 1.

Attack-rate per 1,000, 0.03. Number of Deaths, 1.

This is the first and only case notified from Edlington, and was confirmed by bacteriological examination.

## 7. ACUTE POLIOMYELITIS.

One case was notified from Edlington.

## 8. OPHTHALMIA NEONATORUM.

Cases Notified, 14. Attack-rate per 1,000 births, 12.2.

The cases were notified from the following Parishes:—Askern 5, Barnby Dun 1, Conisbrough 1, Denaby 4, Edlington 2, and Norton 1. 12 cases were notified by certified midwives and 2 by medical practitioners.

## 9. MEASLES AND GERMAN MEASLES.

Cases Notified 382, Attack-rate per 1,000 11.5, Deaths 6.

316 cases were notified by medical practitioners and 66 by parents, from the following Parishes:—Adwick-on-Deane 1, Armthorpe 2, Askern 8, Awkley 1, Barnby Dun 2, Barmbrough 14, Bawtry 97, Braithwell 4, Brodsworth 2, Burghwallis 12, Cantley 5, Campsall 1, Conisbrough 81, Denaby 63, Edlington 30, Hampole 2, High Melton 1, Kirk Bramwith 2, Loversall 1, Norton 3, Owston 2, Rossington 29, and Wadworth 18.

The following schools were closed:—Bawtry Council Infants' and Mixed Department, January 17th to February 25th; Wadworth Church of England, January 24th to February 18th; New Edlington Council, Junior Department, July 1st to 28th.

## 10. TUBERCULOSIS.

49 cases of Pulmonary Tuberculosis, 25 male and 24 female, were notified from the following Parishes:—Adwick-on-Deane 2, Askern 2, Barmbrough 1, Braithwell 2, Cantley 1, Conisbrough 12, Denaby 7, Edlington 16, Kirk Bramwith 1, Kirk Sandall 1, Owston 1, Rossington 2, and Warmsworth 1, equal to an attack-rate per 1,000 living of 1.4.



There were 34 deaths, 20 male and 14 female.

48 cases other than Pulmonary, 26 male and 22 female, were notified from the following Parishes:—Armthorpe 1, Askern 6, Barnby Dun 1, Barmbrough 2, Conisbrough 22, Denaby 4, Edlington 6, Kirk Bramwith 2, Norton 2, Rossington 1, and Wadworth 1, equal to an attack-rate of 1.4. There were 20 deaths, 11 male and 9 female.

The parts of the body affected were:—Abdomen 2, Bones of leg and elbow 1, Thigh Bones 2, Cervical Glands 21, Foot 1, Glands 6, Hip 1, Knee-joint 2, Meninges 7, Peritoneum 2, Phlyctenular Conjunctivitis 1, Skin of Face 1, and Spine 1.

### HOUSES.

218 houses have been erected in the following Parishes:—Askern 17, Austerfield 1, Blaxton 1, Cantley 2, Edlington 63, Norton 1, Rossington 132, and Warmsworth 1; all, except the house at Norton, which is provided with a privy, have water-closets.

### SCHOOL CLOSURE.

#### SCHOOLS CLOSED BY THE COUNCIL FOR EPIDEMIC DISEASES, 1916.

School.	Disease.	Period.
Bawtry Council Infants	Measles & German do.	Jan. 17th to Feb. 25th
Bawtry Council Mixed	Measles & German do.	Jan. 24th to Feb. 25th
Wadworth C. of E. ...	Measles ... ..	Jan. 24th to Feb. 18th
Kirk Bramwith Council	Mumps ... ..	Feb. 7th to Feb. 25th
Sprotbrough C. of E.	Chicken Pox ... ..	April 6th to April 21st
Edlington Council		
Junior and Infants...	Measles ... ..	July 1st to July 23rd
Rossington Council		
Mixed and Infants ...	Mumps ... ..	June 26th to July 14th
Wadworth C. of E. ...	Mumps ... ..	Oct. 16th to Nov. 3rd
Moss Council ... ..	Mumps ... ..	Nov. 13th to Dec. 1st
Rossington Council		
Mixed and Infants ...	Diphtheria ... ..	Dec. 11th to Dec. 21st
Brodsworth C. of E. ...	Influenza ... ..	Dec. 11th to Dec. 21st

## CAUSES OF DEATH.

L.G.B. TABLE III.

CAUSES OF DEATH.					Males.	Females.
All causes (Civilians only) .. .. .					255	208
1.	Enteric Fever .. .. .				0	1
2.	Small Pox .. .. .				0	0
3.	Measles .. .. .				5	1
4.	Scarlet Fever .. .. .				1	0
5.	Whooping Cough .. .. .				7	5
6.	Diphtheria .. .. .				2	1
7.	Influenza .. .. .				2	1
8.	Erysipelas .. .. .				0	1
9.	Pulmonary Tuberculosis .. .. .				20	14
10.	Tuberculous Meningitis .. .. .				8	2
11.	Other Tuberculous Diseases .. .. .				3	7
12.	Cancer .. .. .				8	12
13.	Rheumatic Fever .. .. .				1	1
14.	*Meningitis .. .. .				4	1
15.	Organic Heart Disease .. .. .				13	12
16.	Bronchitis .. .. .				23	21
17.	Pneumonia .. .. .				28	27
18.	Other Respiratory Diseases .. .. .				5	4
19.	Diarrhœa (under two years) .. .. .				17	19
20.	Appendicitis .. .. .				2	0
21.	Cirrhosis of Liver .. .. .				2	1
21a.	Alcoholism .. .. .				0	0
22.	Nephritis .. .. .				3	2
23.	Puerperal Fever .. .. .				0	0
24.	Parturition .. .. .				0	1
25.	Congenital Debility .. .. .				20	16
26.	Violence .. .. .				18	6
27.	Suicide .. .. .				1	2
28.	Other defined diseases .. .. .				61	56
29.	Causes ill-defined .. .. .				1	4
*Includes Cerebro-Spinal Fever .. .. .					1	0



*STATEMENT in pursuance of Article 20 (16) the Sanitary  
Officers (outside London) Order, 1910, in relation to  
Inspections, Notices, etc.*

*Northern Sanitary District.*

*G. W. COWLEY,  
Sanitary Inspector.*

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Total Number of Inspections in 1916	...	...	...	...	4029
Preliminary Notices served to abate Nuisances	...	...	...	...	118
Preliminary Notices complied with	...	...	...	...	122
Preliminary Notices not complied with	...	...	...	...	10
Schools Disinfected	...	...	...	...	1
Houses Disinfected	...	...	...	...	84
Rooms Disinfected	...	...	...	...	284
Articles Disinfected	...	...	...	...	3507

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*Southern Sanitary District.*

*H. THIRLWALL,  
Sanitary Inspector.*

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Total Number of Inspections in 1916	...	...	...	...	3965
Preliminary Notices served to abate Nuisances	...	...	...	...	227
Preliminary Notices complied with	...	...	...	...	230
Preliminary Notices not complied with	...	...	...	...	15
Statutory Notices served	...	...	...	...	27
Statutory Notices complied with	...	...	...	...	21
Schools Disinfected	...	...	...	...	5
Houses Disinfected	...	...	...	...	294
Rooms Disinfected	...	...	...	...	707
Articles Disinfected	...	...	...	...	11362

## SANITARY SURVEYOR'S REPORT.

1st January, 1917.

*To the Chairman and Members of the Doncaster Rural District Council.*

GENTLEMEN,

I beg to present my Annual Report on the working of the various Sewage Systems in the District and on the Building Plans submitted to the Sanitary Committee, and Houses completed during the year.

The number of Plans submitted during the year was 46, of which 34 were approved and 12 rejected.

The Plans related to:—

Dwellinghouses	...	...	...	...	...	...	14
Alterations to Property	...	...	...	...	...	...	6
Colliery Offices	...	...	...	...	...	...	3
Churches	...	...	...	...	...	...	1
Cinema Halls	...	...	...	...	...	...	3
Classroom	...	...	...	...	...	...	1
Drainage	...	...	...	...	...	...	1
Institutes	...	...	...	...	...	...	2
Motor Garages	...	...	...	...	...	...	2
Revised Block Plan	...	...	...	...	...	...	1
Slaughter House	...	...	...	...	...	...	1
Store-room	...	...	...	...	...	...	1
Sunday Schools	...	...	...	...	...	...	2
Stables	...	...	...	...	...	...	3
Wash-Houses	...	...	...	...	...	...	3
Workshops	...	...	...	...	...	...	2
Total ...							46

Plans for Dwelling Houses have been approved in the following Parishes:—

Austerfield	...	...	...	...	...	...	2
Barmbrough	...	...	...	...	...	...	1
Cantley	...	...	...	...	...	...	1
Edlington	...	...	...	...	...	...	200
Norton	...	...	...	...	...	...	1
Rossington	...	...	...	...	...	...	136
Warmsworth	...	...	...	...	...	...	2
Total ...							343



The number of Houses completed during the year:—

Askern	...	...	...	...	...	...	...	17
Austerfield	...	...	...	...	...	...	...	1
Blaxton	...	...	...	...	...	...	...	1
Cantley	...	...	...	...	...	...	...	2
Edlington	...	...	...	...	...	...	...	63
Norton	...	...	...	...	...	...	...	1
Rossington	...	...	...	...	...	...	...	132
Warmsworth	...	...	...	...	...	...	...	1
Total ...								218

## SEWAGE WORKS.

### ASKERN.

Septic Tanks, one large (800 cubic yards), Filter, one small (160 cubic yards). Filter and Humus Tank.

The amount of Sewage pumped during the year was 28,800,000 gallons, or 79,000 per day, against 69,000 gallons last year. 21,917 units of electricity, costing £36 9s. 8d., were used in pumping, which works out at .72d. per 1,000 gallons, as against 1.16d. last year.

The effluent has been fairly good, but the larger filter is much in need of a prolonged rest, which is difficult to arrange as the smaller filter very soon gets choked up.

### AUSTERFIELD.

These small works have continued to deal efficiently with the Sewage.

### BAWTRY.

Septic Tank, Rotary Percolating Filter, and Land Filtration.

The amount of Sewage treated during this year was 7,802,000 gallons. Gas consumed 71,950 cubic feet. Hours pumped 2,000. The corresponding figures for last year were 8,047,000, 78,800, and 2,204.

The land beds have been cultivated and the effluent has been excellent.

### BRAITHWELL.

Septic Tanks and Sprinkler Filter with Automatic Tippler.

These small works have served their purpose well during the year.

## CONISBROUGH.

Chemical Precipitation Tanks, Filters of Sand, Gravel and Polarite, and Land Filtration.

The amount of Sewage treated during the year was 71,250,000 gallons. Gas consumed 272,500 cubic feet, Hours of pumping 626. Alumino-ferric precipitant used 12 Tons, the corresponding figures last year being 68,575,000, 641, and 14 Tons 7 Cwts.

These works have for some years been insufficient, but owing to the amount of Sewage decreasing during the past two years the conditions are no worse, indeed rather better, than formerly.

## DENABY.

Septic Tanks, Two Rotary Percolating Filters, and Land Filtration.

The amount of Sewage dealt with during the year was 62,477,000 gallons. 586,600 cubic feet of gas were used by the pumping engines working 1,250 Hours, the corresponding figures for last year being 59,280,000, 559,000 and 1,185.

The tanks have been regularly cleaned, the filters, though overloaded, continue to turn out a good effluent, and the final effluent has always been excellent.

## EDLINGTON AND WARMSWORTH.

Septic Tanks, Rotary Percolating Filters, and Humus Tanks.

The amount of Sewage has been approximately 75,500 gallons per day.

This is more than the existing filters are designed to deal with. The works are to be enlarged, but owing to the War the work is not yet begun. The filter is meanwhile getting very sick and the effluent not so good as it should be.

## ROSSINGTON.

Septic Tanks, Four Rotary Percolating Filters, and Humus Tank.

The amount of Sewage dealt with has been about 40,000 gallons a day, which is much under the designed capacity of the works. The effluent has always been good. The sewers at the bottom end of the village have been regularly flushed and are all in a very good condition. The land beds have been let to gardeners. The land is for the treatment of storm water, but owing to the large capacity of the works has had to be used only once for that purpose during exceptionally heavy rain.

I remain,

Your obedient servant,

WALTER R. CRABTREE, M.Sc., A.M.I.C.E.,  
Surveyor.





DONCASTER  
RURAL DISTRICT COUNCIL

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ANNUAL  
**REPORT**  
OF THE  
MEDICAL OFFICER  
OF HEALTH

FOR  
**1917**

BY  
A. B. DUNNE,  
M.B., B.C., Cambridge, D.P.H., London; etc.



# *Doncaster Rural District Council.*

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PUBLIC HEALTH DEPARTMENT,

7, ST. GEORGE GATE,

DONCASTER,

April 1st, 1918.

*To the Chairman and Members of the  
Rural District Council of Doncaster.*

Gentlemen,

In accordance with a circular letter from the Local Government Board under date January 19th, 1917, with reference to the abbreviation of the Annual Report, I beg, as directed, to limit it to such facts as are necessary for a continuous record of the Vital Statistics of the District.

I have the honour to be, Gentlemen,

Your obedient Servant,

A. B. DUNNE,

Medical Officer of Health.





# ANNUAL REPORT

## for 1917.

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### VITAL STATISTICS.

The Registrar General has supplied the following figures as the estimated civil population of the District:—

Estimated Population for Death-rate ... 37,150

Estimated Population for Birth-rate ... 41,412

#### BIRTHS.

The total Births were 1,058, or 83 less than in 1916, and equal to a Birth-rate of 25.5 per 1,000, or 5.1 less than in 1916.

The Birth-rate for England and Wales was 17.8 per 1,000.

The male births were 532, and female 526.

49 were illegitimate births, 21 males and 28 females, equal to a birth-rate of 1.1 per 1,000.

#### DEATHS.

The total Deaths were 471, or 8 more than in 1916, and equal to a Death-rate of 12.6 per 1,000, or 1.6 less than in 1916.

The Death-rate for England and Wales was 14.4 per 1,000.

The male deaths were 258, and female 213.

62 of the Deaths occurred outside the District, chiefly in Hospitals and other Public Institutions.

19 of the Deaths were residents of Districts other than your own.

## DEATHS FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES.

1.	Enteric Fever	...	...	...	...	...	3
2.	Small Pox	...	...	...	...	...	0
3.	Measles	...	...	...	...	...	22
4.	Scarlet Fever	...	...	...	...	...	1
5.	Whooping Cough	...	...	...	...	...	8
6.	Diphtheria	...	...	...	...	...	4
7.	Diarrhœa	...	...	...	...	...	19
Total							57

equal to a Zymotic Death-rate of 1.5 per 1,000, the lowest for the past 10 years, with the exception of 1912, when it was 1.2.

## DEATHS FROM DIARRHŒA under 2 years of age.

Number of Deaths (Male 8, Female 11)	...	19
Death-rate	...	0.5

This is the lowest death-rate for the past 10 years.

The Deaths occurred in the following Parishes:—  
Braithwell 1, Conisbrough 11, Denaby 5, Edlington 1, and  
Rossington 1.

## DEATHS FROM TUBERCULOSIS.

1.	Pulmonary Tuberculosis (Consumption)	...	36
2.	Tuberculous Meningitis	...	6
3.	Other Tuberculous Diseases	...	12
Total			54
Death-rate (all forms)			1.4
Death-rate (Consumption only)			0.9

## DEATHS FROM VIOLENCE. (Coroner's Inquests).

36 Inquests have been held, and the Deaths were found to be due to the following causes:—Natural causes 2, Gunshot Wound 1, Suicide 1, Scalds and Burns 1, Starvation 1, Heart Failure under Chloroform 1, Drowning 2, Colliery Accidents 13, Miscellaneous Causes 14.

## INFANTILE MORTALITY.

97 Infants (49 male and 48 female) died under 1 year of age, being 25 less than in 1916. This is equal to an Infantile Mortality Rate of 91.6 per 1,000 births, and is the lowest on record.



The Infantile Mortality Rate of England and Wales was 97.0.

2 deaths were uncertified, the causes of death being said to be Convulsions and Bronchitis.

1 Coroner's Inquest was held, the cause of death being Starvation due to lack of proper nourishment.

6 illegitimate infants died under 1 year. As there were 49 illegitimate births, this is equal to an Infantile Mortality rate for illegitimate children of 122.4 per 1,000 births, compared with an Infantile Mortality Rate of legitimate children of 90.1.

These illegitimate deaths occurred in the following Parishes:—Askern 1, Conisbrough 2, Edlington 2, and Warmsworth 1.

Infantile Deaths occurred in the following Parishes:—Adwick-on-Deane 2, Askern 6, Austerfield 1, Braithwell 3, Conisbrough 31, Cantley 1, Denaby 22, Edlington 12, Hooton Pagnell 1, Kirk Sandall 2, Norton 3, Rossington 5, Sutton 2, Wadworth 3, and Warmsworth 3.

As in former years I append a table shewing the Infantile Mortality of certain populous parishes in which 50 births and upwards have occurred during the year.

PARISH.	Esti- mated Popula- tion.	Births.	Deaths under 1 year.	Infantile Mortality Rate	
				1917	1916
Askern .. ..	3335	101	6	59.4	69.0
Conisborough ..	11035	309	31	100.3	111.3
Denaby .. ..	4925	137	22	160.5	158.2
Edlington .. ..	3765	121	12	99.1	137.9
Rossington .. ..	2600	58	5	86.2	..

## PREVALENCE AND CONTROL OF INFECTIOUS DISEASES. (Acute).

1,277 Notifications of Infectious Diseases were received, viz.:—Diphtheria 44, Erysipelas 11, Scarlet Fever 48, Enteric Fever 8, Puerperal Fever 2, Cerebro-Spinal Fever 2, Ophthalmia Neonatorum 13, Measles and German Measles 1,073, Pulmonary Tuberculosis 46, Other Forms of Tuberculosis 30.



## 1. DIPHTHERIA.

Cases Notified, 44. Removed to Hospital, 40.

Attack-rate per 1,000, 1.1. Number of Deaths, 4.

The cases were notified from the following Parishes:—  
Askern 7, Bawtry 2, Clayton-with-Frickley 1, Conisbrough 7,  
Denaby 2, Edlington 1, Moss 1, Rossington 23.

## 2. ERYSIPELAS.

Cases Notified, 11. Removed to Hospital, 0.

Attack-rate per 1,000, 0.2. Number of Deaths, 0.

The cases were notified from the following Parishes:—  
Adwick-on-Deerne 1, Askern 2, Barnby Don 1, Conisbrough 4,  
Denaby 1, High Melton 1, and Norton 1.

## 3. SCARLET FEVER.

Cases Notified, 48. Removed to Hospital, 40.

Attack-rate per 1,000, 1.2. Number of Deaths, 1.

The cases were notified from the following Parishes:—  
Adwick-on-Deerne 1, Armthorpe 1, Askern 8, Clayton-with-  
Frickley 1, Conisbrough 26, Denaby 3, Edlington 5, Moss 1,  
Norton 1, and Sprotbrough 1.

## 4. ENTERIC FEVER.

Cases Notified, 8. Removed to Hospital, 8.

Attack-rate per 1,000, 0.2. Number of Deaths, 3.

The cases were notified from the following Parishes:—  
Askern 2, Conisbrough 1, Denaby 2, Moss 1, and Norton 1.  
The number of cases is the same as in 1910, and the lowest on  
record.

## 5. PUERPERAL FEVER.

Cases Notified, 2. Attack-rate per 1,000 births, 1.8.

Number of Deaths, 0.

The cases were notified from the following Parishes:—  
Denaby and Warmsworth; by a midwife and medical  
practitioner respectively.

## 6. CEREBRO-SPINAL MENINGITIS.

Cases Notified, 2. Removed to Hospital, 2.

Attack-rate per 1,000, 0.05. Number of Deaths, 1.

Both cases were notified from Conisbrough.

## 7. OPTHALMIA NEONATORUM.

Cases Notified, 13. Attack-rate per 1,000 births, 12.2.

The cases were notified from the following Parishes:—Barnby Dun 1, Conisbrough 2, Denaby 5, Edlington 1, Norton 3, and Wadworth 1. 10 cases were notified by certified midwives and 3 by medical practitioners.

## 8. MEASLES AND GERMAN MEASLES.

Cases Notified, 1,073. Attack-rate per 1,000, 28.8.

Number of Deaths, 22.

1,027 cases were notified by medical practitioners and 46 by parents, from the following Parishes:—Adwick-on-Deane 1, Armthorpe 1, Askern 60, Awkley 1, Barnby Dun 28, Barmbrough 1, Bawtry 4, Braithwell 4, Cantley 2, Clayton-with-Frickley 9, Conisbrough 524, Denaby 196, Edlington 136, Fenwick 3, Hampole 1, High Melton 1, Kirk Bramwith 1, Kirk Sandall 2, Moss 2, Norton 31, Owston 1, Rossington 62, Sprotborough 1, Thorpe-in-Balne 3, Wadworth 3, and Warmsworth 1.

## 9. TUBERCULOSIS.

46 cases of Pulmonary Tuberculosis, 30 male and 16 female, were notified from the following Parishes:—Adwick-on-Deane 1, Askern 3, Armthorpe 1, Austerfield 1, Barmbrough 1, Bawtry 1, Campsall 2, Clayton 1, Conisbrough 13, Denaby 8, Edlington 9, Marr 1, Norton 1, and Rossington 3, equal to an attack rate per 1,000 of 0.9.

There were 36 deaths, 20 male and 16 female.

30 cases other than Pulmonary, 16 male and 14 female, were notified from the following Parishes:—Askern 3, Cadeby 1, Clayton 2, Conisbrough 7, Denaby 3, Edlington 8, Norton 1, Rossington 2, Thorpe-in-Balne 1, Wadworth 2, equal to an attack-rate of 0.8.

There were 18 deaths, 10 male and 8 female.

The parts of the body affected were:—Abdomen 1, Cervical Glands 11, Hip 3, Meninges 5, Peritoneum 7, Sternum 1, and Spine 2.

## HOUSES.

165 houses have been erected in the following Parishes:—Edlington 60, Norton 4, Rossington 100, and Thorpe-in-Balne 1; all, except the houses at Norton and Thorpe-in-Balne, which are provided with pails, have water-closets.



## SCHOOL CLOSURE.

SCHOOLS CLOSED BY THE COUNCIL FOR  
EPIDEMIC DISEASES, 1917.

School.	Disease.	Period.
Morley Place, Conisbro'	Measles ... ..	Jan. 8th to Feb. 2nd
Barnby Dun ... ..	Measles ... ..	Jan. 25th to Feb. 16th
Station Rd., Conisbro'	Measles ... ..	Feb. 2nd to Mar. 23rd
Balby Street, Conisbro'	Measles ... ..	Feb. 2nd to Mar. 23rd
Denaby Main Infants	Measles ... ..	Feb. 2nd to Mar. 23rd
Old Edlington School	Measles ... ..	Feb. 7th to Mar. 2nd
Moss Road Infants, Askern ... ..	Measles ... ..	Feb. 19th to Mar. 16th
Selby Road Infants, Askern ... ..	Measles ... ..	Feb. 26th to Mar. 16th
Selby Road Mixed, Askern ... ..	Measles ... ..	Mar. 5th to Mar. 16th
Council School, New Rossington ... ..	Diphtheria ... ..	Mar. 12th to Apl. 13th.
Council School, New Edlington ... ..	Measles ... ..	July 23rd to July 27th
C. of E. School, Norton	Measles ... ..	July 23rd to July 27th
C. of E. School, Norton	Measles ... ..	Aug. 10th to Aug. 24th
Council School, New Rossington ... ..	Measles ... ..	July 23rd to July 27th
Council School, New Rossington ... ..	Measles ... ..	Nov. 27th to Dec. 21st
Clayton-with-Frickley School ... ..	Measles ... ..	Nov. 21st to Dec. 7th
Adwick-on-Dearne School ... ..	Whooping Cough ...	Nov. 23rd to Dec. 21st
Warmsworth ... ..	Mumps ... ..	Dec. 3rd to Dec. 21st
Mixed and Infants, Bawtry ... ..	Sore Throats ... ..	Dec. 6th to Dec. 21st
Kirk Sandall ... ..	Swollen Glands ...	Dec. 10th to Dec. 21st
	Chicken Pox ... ..	



*STATEMENT in pursuance of Article 20 (16) the Sanitary  
Officers (outside London) Order, 1910,\* in relation to  
Inspections, Notices, etc.*

*Northern Sanitary District.*

*G. W. COWLEY,  
Sanitary Inspector.*

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Total Number of Inspections in 1917	...	...	...	...	5916
Preliminary Notices served to abate Nuisances	...	...	...	...	130
Preliminary Notices complied with	...	...	...	...	125
Preliminary Notices not complied with	...	...	...	...	15
Schools Disinfected	...	...	...	...	5
Houses Disinfected	...	...	...	...	62
Rooms Disinfected	...	...	...	...	200
Articles Disinfected	...	...	...	...	3265

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*Southern Sanitary District.*

*H. THIRLWALL,  
Sanitary Inspector.*

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Total Number of Inspections in 1917	...	...	...	...	4755
Preliminary Notices served to abate Nuisances	...	...	...	...	344
Preliminary Notices complied with	...	...	...	...	354
Preliminary Notices not complied with	...	...	...	...	5
Statutory Notices served	...	...	...	...	7
Statutory Notices complied with	...	...	...	...	7
Schools Disinfected	...	...	...	...	4
Houses Disinfected	...	...	...	...	98
Rooms Disinfected	...	...	...	...	214
Articles Disinfected	...	...	...	...	5400

## CAUSES OF DEATH.

L.G.B. TABLE III.

CAUSES OF DEATH.					Males.	Females
All causes (Civilians only). ... ..					258	213
1.	Enteric Fever	...	...	...	2	1
2.	Small Pox	...	...	...	0	0
3.	Measles	...	...	...	14	8
4.	Scarlet Fever	...	...	...	0	1
5.	Whooping Cough	...	...	...	4	4
6.	Diphtheria	...	...	...	3	1
7.	Influenza	...	...	...	1	3
8.	Erysipelas	...	...	...	0	0
9.	Pulmonary Tuberculosis	...	...	...	20	16
10.	Tubercular Meningitis	...	...	...	3	3
11.	Other Tuberculous Diseases	...	...	...	7	5
12.	Cancer	...	...	...	11	16
13.	Rheumatic Fever	...	...	...	0	3
14.	Meningitis	...	...	...	3	1
15.	Organic Heart Disease	...	...	...	10	16
16.	Bronchitis	...	...	...	25	23
17.	Pneumonia	...	...	...	31	17
18.	Other Respiratory Diseases	...	...	...	3	3
19.	Diarrhoea (under two years)	...	...	...	8	11
20.	Appendicitis	...	...	...	1	1
21.	Cirrhosis of Liver	...	...	...	1	1
21a	Alcoholism	...	...	...	0	0
22.	Nephritis	...	...	...	5	3
23.	Puerperal Fever	...	...	...	0	0
24.	Parturition	...	...	...	0	3
25.	Congenital Debility	...	...	...	13	14
26.	Violence	...	...	...	19	3
27.	Suicide	...	...	...	1	0
28.	Other Defined Diseases	...	...	...	72	52
29.	Causes Ill-defined	...	...	...	1	4
Cerebro-Spinal Fever ... ..					0	1

## SANITARY SURVEYOR'S REPORT.

1st January, 1918.

*To the Chairman and Members of the Doncaster Rural District Council.*

GENTLEMEN,

I beg to present my Annual Report on the working of the various Sewage Systems in the District and on the Building Plans submitted to the Sanitary Committee, and Houses completed during the year.

The number of Plans submitted during the year was 21, of which 16 were approved and 5 rejected.

The Plans approved included:—

Dwellinghouses	...	...	...	...	...	6
Additions to Dwellinghouses, etc.	...	...	...	...	...	5
Piggeries	...	...	...	...	...	2
Sewage Purification Plant	...	...	...	...	...	2
Block Plan	...	...	...	...	...	1
Drainage Plan	...	...	...	...	...	1
Stabling and Cowsheds, etc.	...	...	...	...	...	1

Plans for Dwelling Houses approved were in the following Parishes:—

Askern	...	...	...	...	...	...	2
Edlington	...	...	...	...	...	...	1
Kirk Sandall	...	...	...	...	...	...	1
Norton	...	...	...	...	...	...	2
Total							6

Dwelling Houses have been completed in the following parishes during the year:—

Name of Parish.	Houses Completed and Occupied.		Houses Certified.	No. of W.C.'s.	No. of Pail Closets.
Rossington	...	100	—	100	—
Edlington	...	60	8	60	—
Norton	...	4	—	—	—



## SEWAGE WORKS.

January 1st, 1918.

## ASKERN.

Septic Tanks, 2 Percolating Rotary Filters (total capacity 960 cubic yards), and Humus Tanks.

The amount of sewage pumped during the year was about 32,000,000 gallons, as against 28,800,000 in the previous year. 24,111 units of electricity were used, against 21,917.

The caretaker of the works was called up for military service in May, and the inexperience of the substitute caused a great deal of trouble with the pumping machinery in July, August, and September, during which time the pump chamber was often full and the mains waterlogged. New spindles have been fitted to the pumps and new valves operated from the top platform fixed to remedy the flooding of the chamber. The Common Drain into which the effluent is discharged has been thoroughly cleaned.

## AUSTERFIELD.

These small works have continued to deal effectually with the Sewage.

## BAWTRY.

Septic Tank, Rotary Percolating Filter (capacity 814 cubic yards), and Land Filtration.

The amount of sewage treated during the year was 6,377,000 gallons, gas consumed 74,900 cubic feet, hours pumping 1,712½, the corresponding figures for the previous year being 7,802,000 gallons, 71,950 feet and 2,000 hours. The land beds have been cultivated and the effluent has been uniformly good.

## BRAITHWELL.

Septic Tank, and Filter with Automatic Tippler.

This small plant has worked satisfactorily during the year.

## CONISBROUGH.

Chemical Precipitation Tanks, Filters of Sand, Gravel, and Polarite, and Land Filtration.

The amount of sewage treated during the year was 67,150,000 gallons, gas consumed 298,700 cubic feet, hours pumping 639¾, aluminoferric used 10¾ tons.

The corresponding figures for the preceding year were 71,250,000 gallons, 272,500 cubic feet, 626 hours, and 12 tons. These works have for some years been insufficient for the sewage flow. It will be noted, however, that the amount is not increasing. The effluent has not been bad, 320,000 gallons of liquid sludge was produced by the tanks and 42 loads of dry sludge have been taken away by farmers.

## DENABY.

Septic Tanks, Two Rotary Percolating Filters (capacity 1,810 cubic yards), and Land Filtration.

The amount of sewage treated during the year was 55,912,000 gallons, gas used in pumping 565,100 cubic feet, pumping 1,119 hours.

The corresponding figures for the previous year were 62,477,000 gallons, 586,600 cubic feet, and 1,250 hours.

The tanks have been regularly cleaned, 340,000 gallons of liquid sludge being taken from them, and 263 loads of dried sludge have been removed by farmers. The effluent from the filters has been good, and the final effluent after land treatment has been remarkably pure.

## EDLINGTON AND WARMSWORTH.

Septic Tanks, Rotary Percolating Filter of 1,125 cubic yards capacity, and Humus Tanks.

The amount of Sewage as ascertained by gauging of the inlet weirs has been about 34,300,000 gallons, as against 27,550,000 gallons last year, and the storm overflow weir has been in operation 31 times.

The amount of sewage is in excess of the capacity of the filter and the effluent has been as good as could be expected under the circumstances.

## ROSSINGTON.

Septic Tanks, Four Rotary Percolating Filters, capacity 2,200 cubic yards, and Humus Tank.

The amount of sewage has been about the same as the previous year, viz., 14,600,000 gallons.

The effluent has been good. The land beds have again been let for gardening.

I remain, Gentlemen,

Your obedient servant,

WALTER R. CRABTREE, M.Sc., A.M.I.C.E.,  
Surveyor.

