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DONCASTER
RURAL DISTRICT COUNCIL.

ANNUAL
REPORT

OF THE
Medical Officer of Health
for 1920,

BY


A. B. DUNNE,

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



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Doncaster Rural District Council.

PUBLIC HEALTH DEPARTMENT,

7, ST. GEORGE GATE,

DONCASTER.

1st March, 1921.

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

Gentlemen,

In accordance with the General Order of the Local Government Board, now the Ministry of Health (dated 13th December, 1910), I beg to present my Annual Report for the year 1920, on the Sanitary Circumstances, the Sanitary Administration, and Vital Statistics of the District.

I have the honour to be, Gentlemen,

Your obedient Servant,

A. B. DUNNE,

Medical Officer of Health.

ANNUAL REPORT

OF THE

Medical Officer of Health

for the Year 1920.

The Rural District as now constituted comprises 38 Parishes, with an area of 81,508 acres.

I do not propose to describe the topography of the District, the details of which have been given in previous reports.

There are evidences that when conditions become stabilised large industries will continue to come to your District.

The work of erecting the new Glass Works at Kirk Sandall for Messrs. Pilkington's, of St. Helen's, has been going on unceasingly, and the large New Village has made great progress.

The same can be said with regard to the Markham Main Colliery at Armthorpe, where, however, the actual sinking of the Pit shaft has been temporarily suspended.

The chief industry is coal mining.

POPULATION.

The Census Population of the District as now constituted (38 Parishes) was in 1911 29,857.

For 1920 the Registrar General estimated the Population as 40,650, and this year he no longer gives an estimated population for Death-rate and Birth-rate as has been his practice in recent years, giving as his reason that "demobilization has reached a stage at which it is felt that the distinction between 'birth-rate populations and death-rate populations' made during the period when a large part of the male population was under arms, might in general be discontinued."

The difficulty of estimating correctly a Population at the end the intercensal period is always great, but in your District, the influx of population owing to the Colliery and other developments is bound to add considerably to the margin of error, and I shall await with interest the results of the Census of 1921.

BIRTHS.

The total births were 1,498, or 380 more than in 1919, and equal to an annual Birth Rate of 36.8 per 1,000, or 9.4 more than in 1919.

The Birth Rate is exactly the same as that of 1914.

The Birth Rate for England and Wales was 25.4 per 1,000, or 6.9 greater than 1919. Thus the increased Birth Rate of the country at large has been largely exceeded in this District.

The male Births were 751 and female 747. 59 were illegitimate births, or 11 more than in 1919, 22 were male and 37 female, equal to an Annual Birth Rate of 1.4 per 1,000.

BIRTH RATE, 1911 to 1920.

	1911	1912	1913	*1914	*1915	*1916	*1917	*1918	1919	1920	Average 10 years
BIRTH RATE ..	35.1	32.13	34.9	36.8	33.7	30.6	25.5	26.3	27.4	36.8	31.9

*War Years.

These figures are very re-assuring, as showing the unimpaired fecundity of the nation after an exhausting war and pestilence of Influenza, and are a good augury for the future welfare and prosperity of the Nation.

DEATHS.

The total deaths were 498, or 105 less than in 1919, and equal to an Annual Death Rate of 12.2 per 1,000, or 3.2 less than in 1919.

The Annual Death Rate for England and Wales was 12.4.

The male deaths were 261, and the female 237.

The natural increase of the population, i.e., the excess of births over deaths is 1,000.

The saving of life has been chiefly due to the great falling off in the number of deaths due to Influenza—only 11 deaths were registered, as compared with 113 in 1919, when the third and last wave of the Pandemic Influenza subsided.

On the other hand there has been a substantial increase of deaths due to Diarrhoea under 2 years of age, 57 deaths being registered, as against 29 in the previous year.

DEATH RATE, 1911 to 1920.

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	Av'ge 10 years
DEATH RATE..	14.9	13.6	15.3	15.7	15.3	13.9	12.6	20.6	15.4	12.2	14.9

INFANTILE MORTALITY.

There were 144 deaths of Infants under one year, 81 male and 63 female, or 14 more than in 1919. Of these 5 male and 1 female were illegitimate.

As there were 1,498 births, this is equal to an Annual Infantile Mortality Rate of 96.1 per 1,000 births, as compared with 116.6 in 1919.

That of England and Wales was 80.0.

INFANTILE MORTALITY RATES, 1911 to 1920.

	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	Av'ge 10 years
Infantile Mortality Rate	126.4	96.5	152.1	138.3	111.5	106.9	91.4	148.0	116.6	96.1	118.3

The above table shows a gratifying decrease in the Infantile Mortality. The figures would in fact have been much better but for an outbreak of Gastro-Enteritis at Denaby Main, which raised the Infantile Mortality for the four weeks ending July 17th and August 14th to 255.8 and 155.3 respectively.

For the four weeks ended October 9th the Infantile Mortality was 27.5, an unprecedentedly low figure.

The saving of Infant life, and the reduction in invalidity of the juvenile population which this reduction of Infantile Mortality connotes is but faintly suggested by the above figures, but on a cash basis alone means many millions a year saved to the nation.

As in former years I append a table showing the Infantile Mortality in Parishes which 50 births and upwards have been registered during 1920.

PARISH.	Esti- mated Popula- tion.	Number of Births.	Deaths under 1 year.	Infantile Mortality.	
				1920	1919
Askern	3234	114	8	70.1	74.0
Conisborough ..	10670	431	66	153.1	141.4
Denaby	5009	243	32	131.6	125.0
Edlington	5168	206	14	67.9	159.5
Rossington	3007	114	7	61.4	98.9

The Parishes of Conisbrough and Denaby have not shared in the general decline in Infantile Mortality.

SANITARY CIRCUMSTANCES OF THE DISTRICT.

WATER.

In last year's report on Page 9, I briefly reviewed the water supply of the various Parishes. I do not propose to go over the same ground, but shall note what developments have taken place or are foreshadowed.

An inspection of the Geological Survey of England and Wales, Map No. LXXXVII. S.E. (Doncaster), discloses the fact that a broad and almost unbroken belt of the Bunter Formation of Pebble Beds and Lower Red Sandstone runs from Bawtry and Austerfield on the South through Rossington, Cantley, Armthorpe, Kirk Sandall, and Barnby Don, up to Kirk Bramwith on the North. This is one of the most famous and desirable of water bearing strata.

The Doncaster Corporation have sunk a borehole into this Strata in the Parish of Armthorpe with the intention of supplementing their supply. The Council have made arrangements whereby they can have a "call" if required of an amount equal to 1/7th of the water derived from this bore.

This should meet all the prospective needs of the adjacent Parishes.

With respect to Kirk Sandall, Messrs. Pilkington's are supplying their new village from a bore sunk into the same Strata, and the Council are negotiating terms for the purchase of water from the same source to supply their houses at Barnby Don.

Further South at Bawtry, the Rotherham Corporation are seeking Parliamentary Powers to sink a Bore and lay a main to Rotherham; should equitable terms be arranged with your Council it would undoubtedly be of great benefit to the Parishes situated on the High Limestone Country on the West, Braithwell, Stainton, etc., to be able to get a supply of this excellent water.

Messrs. Balfour and Sons, in accordance with the instructions of the Council, have submitted plans for the laying of water mains along Doncaster Road, Moss Road and the Streets abutting thereon at Askern. These are cast iron mains of 6in. calibre and are designed to take the place of the temporary mains which were laid so long ago as 1911 and 1912, and will enable the conversion of the privies into water closets in King and Queen Roads to be proceeded with.

There has been no change in the water supply in other Parishes and no shortage, or just grounds of complaint.

DRAINAGE AND SEWERAGE.

The following Parishes have public sewers and modern Sewage Disposal Works:—Askern, Bawtry, Conisbrough, Denaby, Edlington, Warmsworth and Rossington (New).

The work of enlarging the Sewage Disposal Works at Conisbrough and New Edlington in accordance with the plans prepared by your Engineer, Mr. Balfour, of Newcastle; have been actively in progress.

New Sewage Disposal Works at Armthorpe, the plans of which have been prepared by your Surveyor, Mr. Crabtree, have been pushed forward.

The Promoters of the Markham Main Colliery Co. have in a very public spirited manner undertaken to lend the money to the Council until such time as Armthorpe has sufficient rateable value to take up its own responsibilities in this respect.

Norton Sewerage Scheme was again gone into by the Council but the lack of rateable value has caused the scheme to be postponed, but in view of the necessity of making some provision for draining the new houses, now in course of erection by the Council, at the top of the Village, the Council have decided to go on with that part of the Scheme which involves the making of the main sewer along the Village Street, and discharging the sewage into the course it now follows behind Mr. Woodward's farm and into the Great Common Drain.

The development at Kirk Sandall and Barnby Don, where Messrs. Pilkington's New Village is being erected astride the boundary line of these two Parishes has necessitated the preparation of a scheme to drain them. The Council decided in view of the fact that the Corporation of Doncaster are about to erect Sewage Disposal Works at Long Sandall to enter into an agreement with them to treat the Barnby Don and Kirk Sandall Sewage at their works. This should be a satisfactory solution of the problem from a Public Health point of view.

No other Sewage Schemes are in contemplation, but development of the Bessecar Estate in the direction of Rossington Bridge, where bungalows and wooden huts are being erected, will probably require more suitable arrangements than cesspools now being provided by each individual owner if this Estate continues to develop, and the population increase.

SCAVENGING.

The Council undertake the Scavenging in the following Parishes, the work being let out to Contractors:—Askern, Bawtry, Braithwell, Conisbrough (Old, New and Clifton), Denaby, Edlington, Norton, Owston and Warmsworth.

The Contractor finds his own tip except at Edlington, Askern, Conisbrough and Denaby.

The Council own the "tip" at Conisbrough, which has been regularly used during the year without complaint. As, however, there is an Injunction against it being used for a period longer than "six months after the end of the War," the Council have negotiated the purchase of some land lying to the North of the Conisbrough Sewage Works. This site is well away from any houses, and is on this account well suited for the purpose for which it is bought.

SANITARY INSPECTION OF THE DISTRICT.

I append the tabulated statement furnished to the Medical Officer of Health in accordance with the General Order of December 13th, 1910, by the Inspector of Nuisances of the Northern, Southern, and the Conisbrough and Denaby portions of the District.

PREMISES AND OCCUPATIONS WHICH CAN BE CONTROLLED BY BYELAWS AND REGULATIONS.

1. Fat Extracting and Glue Factory at Conisbrough. The place has been inspected and no complaints of the works have been received.

2. There is one Registered Common Lodging House at Bawtry for 23 beds. The premises are old but are kept clean; they have been regularly inspected and kept in excellent order.

SCHOOLS.

The West Riding County Council are the Education Authority.

The Medical Inspector of School Children is undertaken by them.

With respect to the Sutton Road School at Askern there has been a continued nuisance for some time owing to the way in which the urinal and pail closets have been designed, it being impossible for the urine to properly be drained away under the existing conditions. The matter was taken up by me with the County Medical Officer of Health and the Education Committee and after a considerable lapse of time the Education Committee agreed to provide permanent brick, etc., conveniences until such time as they were enabled to erect a permanent School.

The appended Table shows the Schools closed during the year for Infectious Diseases.

WORKSHOPS AND WORKPLACES, ETC.

The number of Workshops and Workplaces in the District is:—29 Northern, 23 Southern, and 18 Conisbrough and Denaby.

FOOD.

MILK SUPPLY.

The following is the number of Cowkeepers, etc.:—

		Northern.	Southern.	Conisbro' and Denaby.
Cowkeepers	... ..	57	24	10
Cowkeepers who retail milk	... ..	13	12	7
Purveyors of Milk	... ..	6	2	3
Number of Cowsheds	... ..	99	36	16
Number of Cows (approximate)		550	218	145

OTHER FOODS.

		Northern.	Southern.	Conisbro' and Denaby.
Number of Slaughter houses	... ..	9	7	8
Unsound meat seized and destroyed:—				
Home killed	... ..	1155lbs.	—	847lbs.
Frozen beef	... ..	130lbs.	—	—
Butter	... ..	15lbs.	—	5½lbs.
Number of bakehouses	... ..	4	2	4

PREVALENCE OF AND CONTROL OVER INFECTIOUS DISEASES.

There has been a great falling off of Notifications of Infectious Diseases as compared with 1919.

The chief falling off has been with Diphtheria, 64 cases as compared with 89; Malaria, 8 as compared with 23; Pneumonia, 87 as compared with 106; and Measles and German Measles, which are no longer notifiable since January 1st, 1920.

On the other hand there has been a considerable increase in the number of cases of Pulmonary Tuberculosis notified, viz., 89, compared with 57.

There is happily the same freedom from Enteric Fever as there was in 1919, only 4 cases having been notified, as compared with 3.

Practically the same number of cases of Scarlet Fever have been notified, 66, as compared with 64.

Of the other Infectious Non-Notifiable Diseases prevalent during the year Measles has been very widespread through the District and the number of fatal cases were 17 male and 19 female. The deaths were particularly heavy in the parishes of Conisbrough and Denaby, where 17 and 14 were registered, respectively. During the months of May, June and July this prevalence of Measles caused the closure of many schools.

ATTACK RATE OF THE NOTIFIABLE DISEASES PER 1,000 OF THE GENERAL POPULATION.

DISEASE.	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
Diphtheria	0·8	0·7	2·1	1·5	1·3	1·4	1·1	0·7	2·1	1·5
Erysipelas	0·6	0·2	0·3	0·4	0·5	0·5	0·2	0·2	0·4	0·2
Scarlet Fever	2·5	2·4	3·1	5·7	3·0	2·2	1·2	0·7	1·5	1·6
Enteric Fever	1·3	0·4	1·5	2·1	0·9	0·3	0·2	0·1	0·07	0·07
*Puerperal Fever ..	0·1	0·0	0·0	1·1	1·7	2·6	1·8	0·0	1·7	2·0
*Ophthalmia Neonatorum	—	—	—	14·4	8·8	12·2	12·0	11·4	8·0	12·0
Pulmonary Tuberculosis	—	2·1	1·7	1·1	1·1	1·4	0·9	2·0	1·4	2·1
Other forms of Tuberculosis	—	—	1·0	0·5	0·8	1·4	0·8	0·7	0·6	0·5

*per 1,000 births.

373 Notifications of Infectious Diseases were received, viz.:—Diphtheria 64, Erysipelas 10, Scarlet Fever 66, Enteric Fever 4, Puerperal Fever 3, Ophthalmia Neonatorum 18, Malaria 8, Dysentery 1, Pneumonia 87, Pulmonary Tuberculosis 89, and other forms of Tuberculosis 23.

1. DIPHTHERIA.

Cases notified, 64. Removed to Hospital, 50.

Attack rate per 1,000, 1·5. Number of Deaths, 6.

The cases were notified from the following Parishes:—Askern 6, Austerfield 1, Awkley 1, Barnby Don 3, Bawtry 1, Campsall 4, Conisbrough 12, Denaby 10, Edlington 1, Hampole 1, Hooton Pagnell 1, Moss 2, Norton 8, Rossington 10, Owston 1, and Sutton 2.

2. ERYSIPELAS.

Cases notified, 10. Attack rate per 1,000, 0.2.

Number of Deaths, 1. Removed to Hospital, 0.

The cases were notified from the following Parishes:—
Barmbrough 2, Conisbrough 2, Edlington 4, Thorpe-in-Balne
1, and Warmworth 1.

3. SCARLET FEVER.

Cases notified, 66. Removed to Hospital, 55.

Attack rate per 1,000, 1.6. Number of Deaths, 0.

The cases were notified from the following Parishes:—
Askern 1, Barmbrough 1, Bawtry 4, Braithwell 3, Burgh-
wallis 1, Campsall 1, Conisbrough 34, Denaby 6, Edlington 2,
Kirk Sandall 1, Norton 2, Rossington 8, and Warmworth 2.

4. ENTERIC FEVER.

Cases notified, 4. Removed to Hospital, 4.

Attack rate per 1,000, 0.07. Number of Deaths, 0.

The cases were notified from the following Parishes:—
*Cantley 1, Conisbrough 1, and Denaby 2.

*An "imported" case.

5. PUERPERAL FEVER.

Cases notified, 3. Attack rate per 1,000 births, 2.0.

Number of Deaths, 6.

The cases were notified from the following Parishes:—
Askern 1, Campsall 1, and Denaby 1. Three cases of Residents
in the Rural District, who died in Institutions outside it.

6. OPHTHALMIA NEONATORUM.

Cases notified, 18. Attack rate per 1,000 births, 12.0.

The cases were notified from the following Parishes:—
Bawtry 1, Conisbrough 10, Denaby 3, Edlington 3, and
Norton 1.

7. MALARIA.

Cases notified, 8.

All the cases contracted Malaria overseas.

The cases were notified from the following Parishes:—
Askern 3, Awkley 1, Edlington 3, and Norton 1.

8. DYSENTERY.

One case was notified from Askern, and was contracted overseas.

9. PNEUMONIA.

Cases notified, 87. Number of Deaths, 44.

The cases were notified from the following Parishes:—Askern 22, Barnby Don 3, Braithwell 1, Cantley 1, Edlington 45, Norton 4, Moss 2, Rossington 3, Stainton 1, Sutton 1, Thorpe-in-Balne 1, and Warmsworth 3.

10. PULMONARY TUBERCULOSIS.

Cases notified, 89 (57 male and 32 female).

Attack rate per 1,000, 2.1.

There were 29 deaths (17 male and 12 female).

The cases were notified from the following Parishes:—Adwick-on-Deerne 5, Armthorpe 1, Askern 2, Bawtry 2, Braithwell 1, Burghwallis 1, Campsall 1, Conisbrough 38, Denaby 16, Edlington 12, Hickleton 1, Norton 1, Rossington 6, Stainton 1, and Thorpe-in-Balne 1.

11. OTHER FORMS OF TUBERCULOSIS.

Cases notified, 23 (12 male and 11 female).

Attack rate per 1,000, 0.5.

There were 12 deaths (3 male and 9 female).

The cases were notified from the following Parishes:—Adwick-on-Deerne 2, Askern 1, Austerfield 1, Barnby Don 1, Braithwell 1, Conisbrough 10, Denaby 2, Edlington 4, and Sprotbrough 1.

The parts of the body affected were:—Abdominal 1, Bowels 1, Cervical Glands 2, Glands of Neck 5, Glands (General) 4, Hip 1, Knee Joint 3, Left Cheek 1, Meninges 4, and Peritoneum 1.

SANITARY ADMINISTRATION.

1. The Rural District is divided into three Sanitary Districts for inspectional purposes. The Northern Sanitary District comprises 23 Parishes, with a total acreage of 46,037 acres, with an approximate population of 9,560, under the charge of Mr. G. W. Cowley, C.R.S.I. The Southern District consists of 14 parishes, with an area of 29,856 acres, with an estimated population of 13,854, under the charge of Mr. P. H. Audsley, C.R.S.I. The Conisbrough and Denaby District, under the charge of Mr. H. Thirlwall, C.R.S.I., comprises the two Parishes of Conisbrough and Denaby, with an area of 5,615 acres and an estimated population of 15,679.

On November 26th an enquiry was held by the Ministry of Health into the Order made by the West Riding County Council constituting parts of the Parishes of Conisbrough, Denaby and Cadeby an Urban District, the Order of the County Council having been appealed against. Up to the end of the year the decision of the Ministry of Health had not been announced.

2. Hospital Accommodation.—The Doncaster and Mexbrough Joint Hospital Board, of which your Council are a constituent member, admits the following kinds of Infectious Diseases:—Enteric Fever, Scarlet Fever, Diphtheria, Cerebro-Spinal Fever and Small Pox, the latter in a separate Hospital. Both these establishments are situate at Conisbrough, in one of the most healthy and bracing localities in the whole of the District, and for this reason when the acute stage of illness is over and the patients have entered the convalescent stages can therefore enjoy the open air, they derive the utmost benefit from the bracing air of this favoured site.

There is accommodation for 33 beds and 2 cots.

3. Notifications of Births Acts and Midwife's Act.—The West Riding County Council are the authority under the Acts and their Health Visitors administer it, but the Council's Officers, at the request of the County Council, disinfect Midwives' equipment and personal clothing after cases of Puerperal Fever have been notified.

HOUSING.

Under the Housing, Town Planning, etc., Act, 1919, the Ministry of Health issued a form of survey for housing needs, Form D89. It will be remembered that last year, notwithstanding the assiduous way in which the Housing Inspectors, Messrs. Cowley, Audsley and Thirlwall, helped by Mr. Taylor in the case of Conisbrough and Denaby, carried out the Housing Survey, it was impossible to cover the whole of the Parishes in the Rural District.

On page 20 of my report for 1919, there will be found a summary of the housing conditions of the Parishes surveyed in 1919, viz.:—Adwick-on-Deane, Askern, Austerfield, Barmbrough, Barnby Don, Bawtry, Braithwell, Campsall, Conisbrough, Denaby, Norton, Stainton and Sutton, comprising 5,230 houses.

During the year, as will be seen by the appended table, detailed surveys have taken place in the Parishes of Armthorpe, Awkley, Blaxton, Burghwallis, Cantley, Edlington, Rossington and Warmsworth, comprising 2,088 houses.

The number of Parishes thus to be surveyed at the end of 1920 is as follows:—Brodsworth, Cadeby, Clayton-with-Frickley, Fenwick, Hampole, Hickleton, Hooton Pagnell, Kirk Bramwith, Kirk Sandall, Loversall, Marr, Melton, Moss, Owston, Sprotbrough, Thorpe-in-Balne and Wadworth, comprising roughly 956 houses.

The majority of these Parishes are rural parishes with very few houses, and where the population and housing question is not so serious as in other parts of the District.

In addition to the Council Housing Schemes at Barnby Don, where 6 houses have been built during the year, and Norton, Stainton, Braithwell and Conisbrough; a Utility Society was formed and has built 56 houses at Askern, to be known as Instoneville, and the village was inaugurated on the 29th June by the Minister of Health, the Rt. Hon. Dr. Addison, M.P., who visited Askern for the purpose.

Besides the Housing Schemes Messrs. Pilkington Brothers have erected 19 houses at Barnby Don and Kirk Sandall.

Besides these 20 houses have been erected by Private Builders with the subsidy from the Ministry of Health.

In all 157 houses have been completed, all provided with W.C.'s.

1. GENERAL HOUSING CONDITIONS IN THE DISTRICT.

The general housing conditions are the same as have existed in the previous years. There is a general shortage of houses and in the industrial and coal mining areas it is not unusual to find two and, in exceptional cases, three families occupying the same house. This fact is well illustrated in the table of housing conditions where this particular phase of the housing question is very evident at Edlington and Rossington.

There have been no important changes in population during the year, but in 1921 and subsequent years it may be confidently anticipated there will be a rapidly increasing population in Kirk Sandall and Barnby Don Parishes, but here it is anticipated that the erection of houses by Messrs. Pilkington Brothers and the Council will meet the requirements of the increasing population. Later on there should be a large population in the Parish of Armthorpe, where but for the temporary cessation of sinking operations the population should show a substantial increase. With the anticipated raising of coal at the new pit a large population will be housed, for which purpose there has been planned a Garden Village under the Chairmanship of Sir Tudor Walters, M.P.

At present no other large influx of population can be located to any special Parish.

2. OVERCROWDING.

As will be seen from the table appended overcrowding occurs in one out of every ten of the houses. The causes are obviously those which have been at work in this District for the past ten years, viz., the transformation from an agricultural to an industrial and coal mining area.

3. FITNESS OF HOUSES.

On page 18 of my report for 1919 is briefly indicated the two or three types of houses in which roughly the working class dwellings in this district can be defined:—

Firstly:—Those inhabited by the working class following agricultural pursuits.

Secondly:—Those housed in the colliery villages and settlements built some twenty or thirty years ago, of which Denaby Main is an example; and

Thirdly:—Those housed in the more modern type of industrial village, of which Rossington and New Edlington are types.

The general standard of houses has improved both in the arrangement of the villages as a whole, and of the individual house as a unit, and I am satisfied that if one takes a railway journey from East to West or from Doncaster to Wakefield, there are evidences that the mining employees in the new colliery villages are much better housed than those in the older and more Western portion of the South Yorkshire Coalfield.

There is one thing, however, which has repeatedly struck me in connection with housing, and that is the erection of all sorts of temporary huts and lean-to's in connection with the new villages and their allotments, and unless some substitute be found for these unsightly erections, much of the, at any rate, artistic and æsthetic amenities of the district must be very seriously affected for the worse.

4. Unhealthy areas.—No complaints have been received or representations made.

5. Byelaws relating to Houses let in Lodgings, and to tents, vans, sheds, etc.—Nil.

6. General and Miscellaneous.—Nil.

SUMMARY OF HOUSING CONDITIONS IN PARISHES
SURVEYED, 1920.

NAME OF PARISH.	Number of Houses	Condition of House.		Overcrowded	Two Families.	Three Families.	Houses required.
		Unfit.	Ex. Repairs				
Rossington ..	560	21	21	2	59	2	97
Burghwallis ..	33	9	12	0	4	—	16
Edlington ..	879	7	10	34	134	4	184
Warmsworth ..	211	18	23	4	7	—	35
Armthorpe ..	119	21	32	5	4	—	38
Awkley ..	69	16	20	1	3	—	25
Blaxton ..	61	6	8	0	4	—	12
Cantley ..	156	19	43	5	7	—	40
Totals ..	2088	117	169	51	222	6	447

CAUSES OF DEATH.

TABLE III.

CAUSE OF DEATH.				Males.	Females.
All causes				261	237
1.	Enteric Fever	..	..	0	0
2.	Small Pox	..	..	0	0
3.	Measles	..	..	17	19
4.	Scarlet Fever	..	..	0	0
5.	Whooping Cough	..	..	0	0
6.	Diphtheria and Croup	..	..	3	3
7.	Influenza	..	..	4	7
8.	Erysipelas	..	..	0	1
9.	Pulmonary Tuberculosis	..	..	17	12
10.	Tuberculous Meningitis	..	..	2	4
11.	Other Tuberculous Diseases	..	..	1	5
12.	Cancer, malignant disease	..	..	13	15
13.	Rheumatic Fever	..	..	2	3
14.	Meningitis	..	..	3	1
15.	Organic Heart Disease	..	..	10	15
16.	Bronchitis	..	..	28	14
17.	Pneumonia (all forms)	..	..	24	20
18.	Other Respiratory Diseases	..	..	3	2
19.	Diarrhoea, etc. (under 2 years)	..	..	29	28
20.	Appendicitis and Typhlitis	..	..	1	1
21.	Cirrhosis of Liver	..	..	0	1
21a.	Alcoholism	..	..	0	0
22.	Nephritis and Bright's Disease	..	..	2	3
23.	Puerperal Fever	..	..	0	6
24.	Parturition, apart from Puerperal Fever.	..	..	0	3
25.	Congenital Debility, etc.	..	..	23	20
26.	Violence, apart from suicide	..	..	16	3
27.	Suicide	..	..	2	1
28.	Other defined Diseases	..	..	58	50
29.	Causes ill-defined or unknown	..	..	3	0

SCHOOL CLOSURES.
SCHOOLS CLOSED BY THE COUNCIL FOR
EPIDEMIC DISEASES, 1920.

SCHOOL.	DISEASE.	PERIOD.
Cantley National... ..	Whooping Cough	20th Jan. to 6th Feb.
Armthorpe C. of E. ...	Influenza & Catarrh	2nd Feb. to 13th Feb.
Braithwell C. of E. ...	Measles	17th Feb. to 19th Mar.
Sprotbrough C. of E. ...	Influenza	17th Feb. to 27th Feb.
Campsall C. of E. ...	Diphtheria & Influenza	1st Mar. to 12th Mar.
Barnbrough Council ...	Measles	9th Mar. to 31st Mar.
Askern Moss Road Infants	Do.	18th Mar. to 31st Mar.
Askern Sutton Road Infants	Do.	3rd May to 21st May.
Barnby Don Council ...	Influenza & Catarrh	3rd May to 14th May.
Brodsworth C. of E. ...	Measles	6th May to 21st May.
Moss and Fenwick ...	Do.	10th May to 21st May.
Hooton Pagnell ...	Do.	18th May to 21st May.
Askern Sutton Road Mixed	Do.	18th May to 21st May.
Rossington Council ...	General Sickness	18th May to 4th June.
Rossington C. of E. ...	Do.	18th May to 4th June.
Hooton Pagnell ...	Measles	31st May to 18th June.
Askern Sutton Road Mixed	Do.	31st May to 11th June.
Conisbro' Morley Place Inf't	Do.	7th June to 18th June.
Edlington Council Infants...	Do.	14th June to 2nd July.
Denaby Main Infants ...	Do.	22nd June to 30th July.
Conisbro' Station Rd. Inf'ts	Do.	28th June to 30th July.
Conisbro' Balby Street Inf'ts	Do.	28th June to 30th July.
Barnby Don Council ...	Do.	12th July to 23rd July.
Rossington C. of E. ...	Do.	26th July to 30th July.
Rossington Temporary ...	Do.	16th Aug. to 6th Sept.
Wadworth C. of E. ...	Do.	19th Aug. to 10th Sept.
Rossington C. of E. ...	Do.	30th Aug. to 6th Sept.
Austerfield Council ...	Whooping Cough	23rd Sept. to 22nd Oct.
Edlington C. of E. ...	General Sickness	19th Dec. to 22nd Dec.

APPENDICES.

HOUSING CONDITIONS.

STATISTICS.

YEAR ENDED 31st DECEMBER, 1920.

1. GENERAL.

(1)	Estimated Population	... ..	40,650
(2)	General Death Rate	... ..	12.2
(3)	Death Rate from Tuberculosis	... ..	1.00
(4)	Infantile Mortality	... ..	96.1
(5)	Number of Dwelling-houses of all classes		8,492
(6)	Number of working class dwelling-houses		8,205
(7)	Number of new working class houses erected	... ..	144

2. UNFIT DWELLING-HOUSES.

I. INSPECTION.

(1)	Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	... ..	2088
(2)	Number of dwelling-houses which were in- spected and recorded under the Housing (Inspection of District) Regulations, 1910...		94
(3)	Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	... ..	117
(4)	Number of dwelling-houses found not to be in all respects reasonably fit for human habitation	.. ...	169

II. REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICES.

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	Nil.
---	--------	------

III. ACTION UNDER STATUTORY POWERS.

A. Proceedings under Section 28 of the Housing Town Planning, etc. Act.

- | | | |
|-----|---|------|
| (1) | Number of houses in respect of which notices were served requiring repairs | Nil. |
| (2) | Number of dwelling-houses which were rendered fit | |
| (a) | By Owners | Nil. |
| (b) | By Local Authority in default of owners ... | Nil. |
| (3) | Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by Owners of intention to close | Nil. |

B. Proceedings under Public Health Acts.

- | | | |
|-----|---|------|
| (1) | Number of dwelling-houses in respect of which notices were served requiring defects to be remedied | 3 |
| (2) | Number of dwelling-houses in which defects were remedied :— | |
| (a) | By Owners | 3 |
| (b) | By Local Authority in default of Owners ... | Nil. |

C. Proceedings under Sections 17 and 18 of the Housing Town Planning, etc. Act 1909.

- | | | |
|-----|--|------|
| (1) | Number of representations made with a view to the making of Closing Orders | Nil. |
| (2) | Number of dwelling-houses in respect of which Closing Orders were made | Nil. |
| (3) | Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit ... | Nil. |
| (4) | Number of dwelling-houses in respect of which Demolition Orders were made | Nil. |
| (5) | Number of dwelling-houses demolished in pursuance of Demolition Orders | Nil. |

3. UNHEALTHY AREAS.

Areas represented to the Local Authority with a view to improvement schemes under (a) Part I., or (b) Part II. of the Act of 1890:—

(1)	Name of area	... ..	Nil.
(2)	Acreage	... ..	Nil.
(3)	Number of working class houses in area	... ..	Nil.
(4)	Number of working class persons to be displaced	... ..	Nil.
(5)	Number of houses not complying with the building byelaws erected with consent of Local Authority under Section 25 of the Housing, Town Planning, etc., Act, 1919		5
(6)	Staff engaged on housing work with, briefly, the duties of each officer	... ..	7

Mr. W. R. CRABTREE,
Surveyor and Architect.

Mr. H. FOX,
Assistant Surveyor and Architect.

Mr. H. THIRWALL,
Assistant Surveyor for Conisbro' Scheme.

Mr. T. H. JOHNSON,
Architect for Norton Scheme.

Messrs. E. H. WALKER & M. THOMPSON,
Architects for Bawtry Scheme.

ANNUAL REPORT, 1920.

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.

Total number of Inspections, 1920	...	...	...	...	17172
Preliminary Notices served to abate Nuisances	...	...	...	...	736
Preliminary Notices complied with	...	...	...	...	406
Statutory Notices served to abate Nuisances	...	...	...	...	4
Statutory Notices complied with	...	...	...	...	4
Total Nuisances in hand at the close of 1919	...	...	...	...	11
Total Nuisances in hand at the close of 1920	...	...	...	...	341
Houses disinfected	...	...	...	...	53
Rooms disinfected	...	...	...	...	210
Articles disinfected	...	...	...	...	3323

Southern Sanitary District.

P. H. AUDSLEY,
Sanitary Inspector.

Total number of Inspections, 1920	...	...	...	...	19281
Preliminary Notices served to abate Nuisances	...	...	...	...	731
Preliminary Notices complied with	...	...	...	...	738
Statutory Notices served to abate Nuisances	...	...	...	...	198
Statutory Notices complied with	...	...	...	...	198
Total Nuisances in hand at the close of 1919	...	...	...	...	12
Total Nuisances in hand at the close of 1920	...	...	...	...	5
Houses disinfected	...	...	...	...	64
Rooms disinfected	...	...	...	...	287
Articles disinfected	...	...	...	...	5738

Conisbrough and Denaby District.**H. THIRLWALL,
Sanitary Inspector.**

Total number of Inspections in 1920	...	...	...	...	11523
Preliminary Notices served to abate Nuisances	...	...	...	...	296
Preliminary Notices complied with	...	...	...	...	283
Total Nuisances in hand at the close of 1919	...	...	...	...	3
Total Nuisances in hand at the close of 1920	...	...	...	...	16
Houses disinfected	...	...	...	...	78
Rooms disinfected	...	...	...	...	121
Articles disinfected	...	...	...	...	5623

NORTHERN SANITARY DISTRICT.

Approximate return of Water Closets, Waste Water Closets, Pail Closets, Privies, Middens, Dry Ashpits, Ashbins, to date 31st December, 1920.

PARISH.	No. of Houses at end of 1920.	Water Closets.	Waste Water Closets.	Pail Closets.	Privies.	Middens.	Dry Ashpits.	Ashbins.
Adwick-on-Deerne ..	147	3	2	—	142	140	5	—
Askern ..	721	421	18	65	217	217	9	495
Barnbrough ..	151	10	—	—	141	141	6	4
Barnby Don ..	169	15	—	6	131	101	6	15
Brodsworth ..	89	10	—	—	76	69	10	—
Burghwallis ..	32	9	—	—	22	22	9	—
Cadeby ..	32	1	—	3	28	26	4	—
Campsall ..	56	4	—	—	52	50	4	—
Clayton-with-Frickley ..	74	6	—	10	50	50	16	—
Fenwick ..	47	—	—	—	47	47	—	—
Hampole ..	35	1	—	—	30	30	—	—
Hickleton ..	34	3	—	3	28	28	6	—
Hooton Pagnell ..	74	7	—	—	68	48	6	—
Kirk Bramwith ..	51	4	—	3	44	35	7	—
Kirk Sandall ..	87	26	—	1	60	50	4	23
Marr ..	43	2	—	4	33	30	6	—
Melton (High) ..	31	5	—	10	19	19	10	—
Moss ..	67	—	—	—	65	60	—	—
Norton ..	239	20	—	41	178	122	15	46
Owston ..	43	1	—	—	42	42	1	—
Sprotbrough ..	83	10	—	1	70	60	11	—
Sutton ..	29	2	—	1	26	26	3	—
Thorpe-in-Balne ..	30	—	—	—	30	30	—	—
Totals ..	2364	560	20	148	1599	1443	138	583

SOUTHERN SANITARY DISTRICT.

Approximate return of Water Closets, Waste Water Closets, Pail Closets, Privies, Middens, Dry Ashpits, Ashbins, to date 31st December, 1920.

PARISH.	No. of Houses end of 1920.	Water Closets.	Waste Water Closets.	Pail Closets.	Privies.	Middens.	Dry Ashpits.	Ashbins.
Armthorpe ..	148	62	—	—	86	86	6	56
Austerfield ..	102	5	—	—	97	97	2	—
Awkley ..	71	—	—	—	71	71	—	—
Bawtry ..	289	66	2	5	216	216	79	2
Blaxton ..	59	—	—	—	59	59	—	—
Braithwell ..	147	—	—	30	116	108	2	22
Cantley ..	164	24	—	—	140	140	14	—
Edlington ..	888	860	—	—	28	28	—	860
Loversall ..	32	8	—	—	24	24	8	—
Rossington ..	610	533	—	2	75	65	—	533
Stainton ..	68	20	—	—	48	48	16	—
Wadworth ..	159	6	—	4	149	124	10	—
Warmsworth ..	214	164	—	5	45	45	4	164
Totals ..	2951	1748	2	46	1154	1111	145	1637

CONISBOROUGH AND DENABY DISTRICT.

Approximate return of Water Closets, Waste Water Closets, Pail Closets, Privies, Middens, Dry Ashpits, Ashbins, to date 31st December, 1920.

PARISH.	No. of Houses end of 1920.	Water Closets.	Waste Water Closets.	Pail Closets.	Privies.	Middens.	Dry Ashpits.	Ashbins.
Conisbrough ..	2193	415	Waste 164 Trough 183 402	3	1430	1430	650	112
Denaby ..	984	120		—	462	462	508	14
Totals ..	3177	535	749	3	1892	1892	1158	126

FACTORIES.

Annual Report of the Medical Officer of Health for the Rural District of Doncaster on the administration of the Factory and Workshops Act, 1901, in connection with Factories, Workshops, and Home Work.

1. Inspection of Factories, Workshops and Workplaces, including inspections made by Sanitary Inspectors:—

	Inspections.	Written Notices.
Factories	9	1
Workshops	25	4
Workplaces	—	—
Total	34	5

2. Defects found in Factories, Workshops, and Workplaces:—

	Found.	Remedied.
Want of Cleanliness	6	6
Sanitary Accommodation unsuitable or defective	3	2
Total	9	8

3. Home Work.—Nil.

4. Registered Workshops:—

Bakehouses	10
Other Workshops	70
Total	80

5. Other Matters.

Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts ... 5

A. B. DUNNE,

Medical Officer of Health.

1st March, 1921.

SANITARY SURVEYOR'S REPORT.

* Union Offices, High Street,
Doncaster.

April 12th 1921.

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 125, of which 87 were approved and 14 rejected and 24 approved for a term of years under the new Regulations of the Ministry of Public Health (14 for 3, 7 for 10, 1 for 12, and 2 for 25 years).

"A" Certificates for the Government Subsidy were issued in respect of 201 Dwelling-houses, of which 39 were completed and drew the subsidy.

The Plans related to:—

Dwelling-houses	...	...	...	...	...	...	829
Additions to ditto	...	...	...	...	...	...	9
Houses and Shops	...	...	...	...	...	...	2
Factories	...	...	...	...	...	...	1
Billiard Hall	...	...	...	...	...	...	1
Cinema	...	...	...	...	...	...	3
Additions to Cinema	...	...	...	...	...	...	1
Clubs	...	...	...	...	...	...	3
Additions to ditto	...	...	...	...	...	...	5
Power House	...	...	...	...	...	...	1
School Rooms	...	...	...	...	...	...	2
Parish Room	...	...	...	...	...	...	1
Temporary Institutes	...	...	...	...	...	...	3
Hotel	...	...	...	...	...	...	1
Garages	...	...	...	...	...	...	3
Bakehouse	...	...	...	...	...	...	1
Stable	...	...	...	...	...	...	1
Offices	...	...	...	...	...	...	3
Small Holdings	...	...	...	...	...	...	12
Drainage	...	...	...	...	...	...	3
Piggeries	...	...	...	...	...	...	1
							886

The following buildings have been completed during the year:—

Dwelling-houses	...	...	...	...	...	...	157
Additions to ditto	...	...	...	...	...	...	6
Wooden Houses	...	...	...	...	...	...	5
Power House	...	...	...	...	...	...	1
Bakehouse	...	...	...	...	...	...	1
Stables	...	...	...	...	...	...	2
Garage	...	...	...	...	...	...	3
Office	...	...	...	...	...	...	1
Clubs	...	...	...	...	...	...	3
Additions to ditto	...	...	...	...	...	...	4
Drainage	...	...	...	...	...	...	2
Piggeries	...	...	...	...	...	...	2
Total	...	...	...	...	...	...	187

Of the Houses completed

50	were in	Armthorpe Parish.
3	"	Austerfield Parish.
57	"	Askern Parish.
2	"	Adwick-on-Deerne Parish.
10	"	Cantley Parish.
23	"	Kirk Sandall Parish.
12	"	Rossington Parish.

157

All new houses have been inspected, drains tested, and careful records kept.

SEWAGE WORKS.

ASKERN.

Septic Tanks, 1 Large Rotary Percolating Filter (800 cubic yards capacity), 1 Small Filter (160 cubic yards), and Humus Tank.

The amount of sewage pumped was about 45,000,000 gallons. 28,514 units of electricity were used as against 40,500,000 gallons and 25,271 units in the previous year. The effluent is usually clear and free from smell, but a large amount of solid matter is discharged. An accumulation of solids deposited during the past six years has been removed from the effluent drain and an even gradient obtained from the Sewage Works to the bottom of Clough Lane.

Trouble is to be expected from subsidence over colliery workings. On October 5th, 1920, the subsidence of the sewer outfall was $4\frac{1}{4}$ inches.

The pump shafting has been fitted with new ball bearings, one pump repaired and one electric motor. The Sewers have been regularly flushed.

AUSTERFIELD.

These small works have continued to serve their purpose. The outfall ditch has been cleared of sludge and the tank emptied as usual.

BAWTRY.

Septic Tank, Rotary Percolating Filter (212 cubic yards), and Land Filtration.

The amount of sewage pumped was 10,846,000 gallons. Gas used in pumping 128,400 cubic feet costing £40 15s. 7d. Hours pumping, 2,171, the corresponding figures for the previous year being 9,959,000, 103,950, £26 8s. 9d., and 2,069½ hours pumping. The land beds have been cultivated and the effluent has been good.

BRAITHWELL.

These small Automatic works have served their purpose with very little attention. The effluent ditch has been cleaned, the tank frequently emptied, and the filtering media changed.

CONISBOROUGH.

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

The amount of sewage treated during the year was 66,725,000 gallons, Gas consumed in pumping 316,700 cubic feet, Hours pumping 1,225½, Aluminoferic precipitant used 6 tons, Liquid Sludge removed from tank 344,000 gallons and dried sludge taken from works 200 loads. The corresponding figures for the previous year were 68,400,000 gallons, 272,100 cubic feet of gas, 637 hours pumping, 6 tons 14 cwts. of precipitant, 336,000 gallons and 40 loads.

The alteration of the works has been begun.

The sewers have been regularly flushed.

DENABY.

Septic Tanks, Two Rotary Percolating Filters (1,809 cubic yards capacity), and Land Filtration.

The amount of Sewage treated during the year was 61,062,000 gallons. Gas consumed in pumping 650,300 cubic feet, Hours pumping 1,225½, Liquid Sludge removed from tanks 360,000 gallons, Dried Sludge removed from works 210 loads. The corresponding figures for the previous year were 63,505,000 gallons, 651,800 cubic feet, 1,236½ hours, 340,000 gallons, and 230 loads.

One of the reciprocating pumps has been scrapped and a new 6in. Centrifugal installed. New lifting gear has been fixed in the Engine House

EDLINGTON AND WARMSWORTH.

Septic Tanks, Rotary Percolating Filter (1,125 cubic yards) and Humus Tank.

The amount of sewage treated was 52,700,000 against 49,700,000 gallons in the previous year. The storm water overflow was in operation on 64 days. Two additional Sludge Filters have been made to deal with the large amount of Sludge. There are now six of these filters. A start has been made with the construction of additional percolating filters.

The effluent has been very good considering the serious overloading of the filter which has been taking 128 gallons per cubic yard per day.

ROSSINGTON.

Septic Tanks, Four Rotary Percolating Filters (capacity 2,200 cubic yards).

The amount of sewage is increasing but is still much below the capacity of the works, and the effluent has been good. An additional Sludge Filter has been constructed. The storm water beds have been cultivated as before

ARMTHORPE SEWERAGE.

Septic Tanks, Rotary Percolating Filter (capacity 2,131 cubic yards), and Humus Tanks.

These works have been constructed during the year, with a main sewer to serve the Markham Colliery Village. There is ample capacity to deal with sewage from the Old Village when it becomes necessary.

I remain, gentlemen,

Your obedient servant,

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

Surveyor.

