

[Report 1915] / Medical Officer of Health, Barnsley County Borough.

Contributors

Barnsley (England : Unitary authority). County Borough Council.

Publication/Creation

1915

Persistent URL

<https://wellcomecollection.org/works/h7z435xs>

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

17C 4462/
COUNTY BOROUGH OF BARNSELEY.

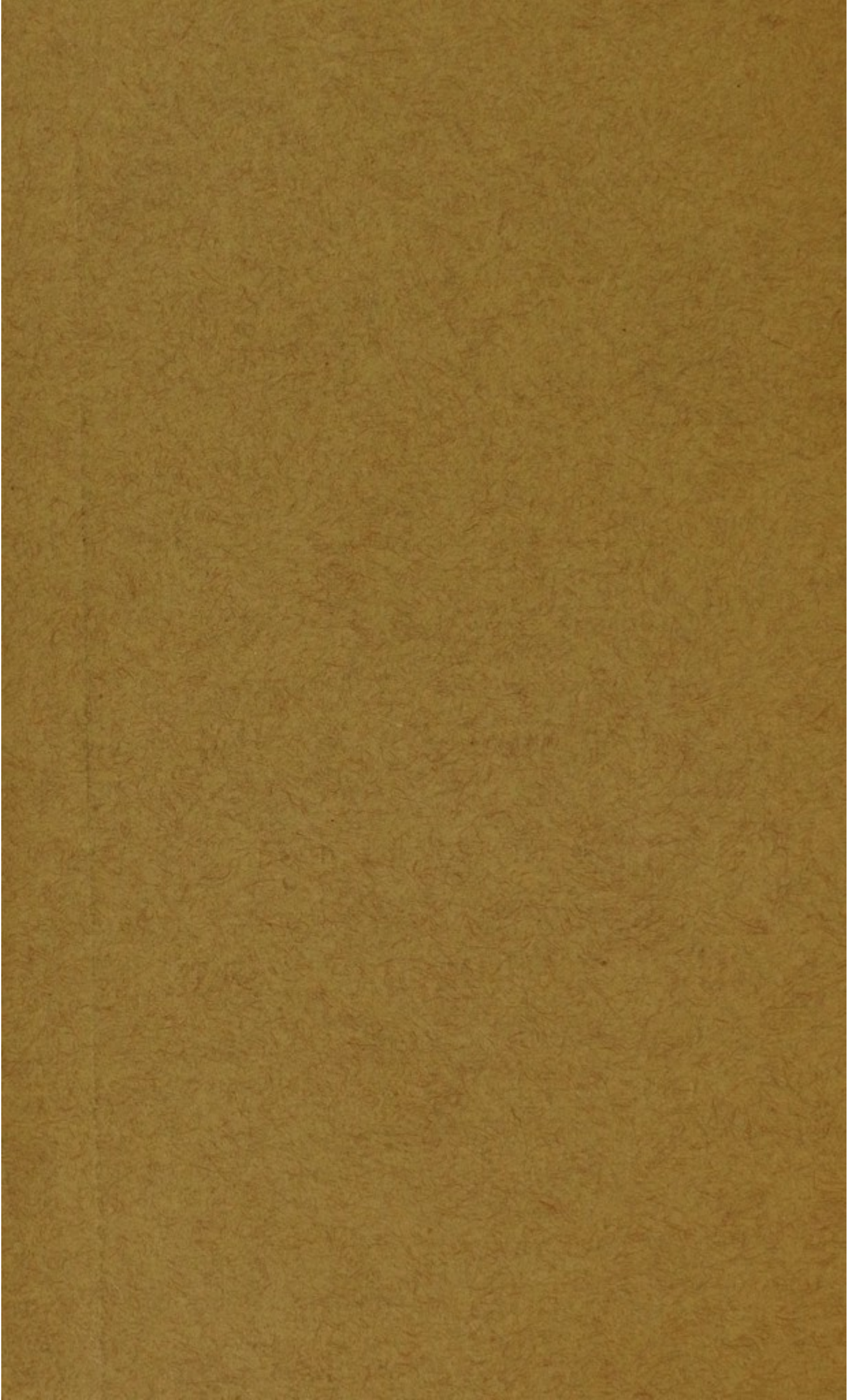


REPORT
ON THE
SANITARY CONDITION OF BARNSELEY
AND THE
WORK OF THE ISOLATION HOSPITAL
IN 1915,
SUBMITTED TO THE TOWN COUNCIL
BY
F. A. SHARPE, M.D., B.S., D.P.H.,
LONDON,
MEDICAL OFFICER OF HEALTH.

MAY, 1916.

BARNSELEY :
BERRY & STEELE, PRINTERS, CHURCH STREET.

1916.



COUNTY BOROUGH OF BARNSELEY.

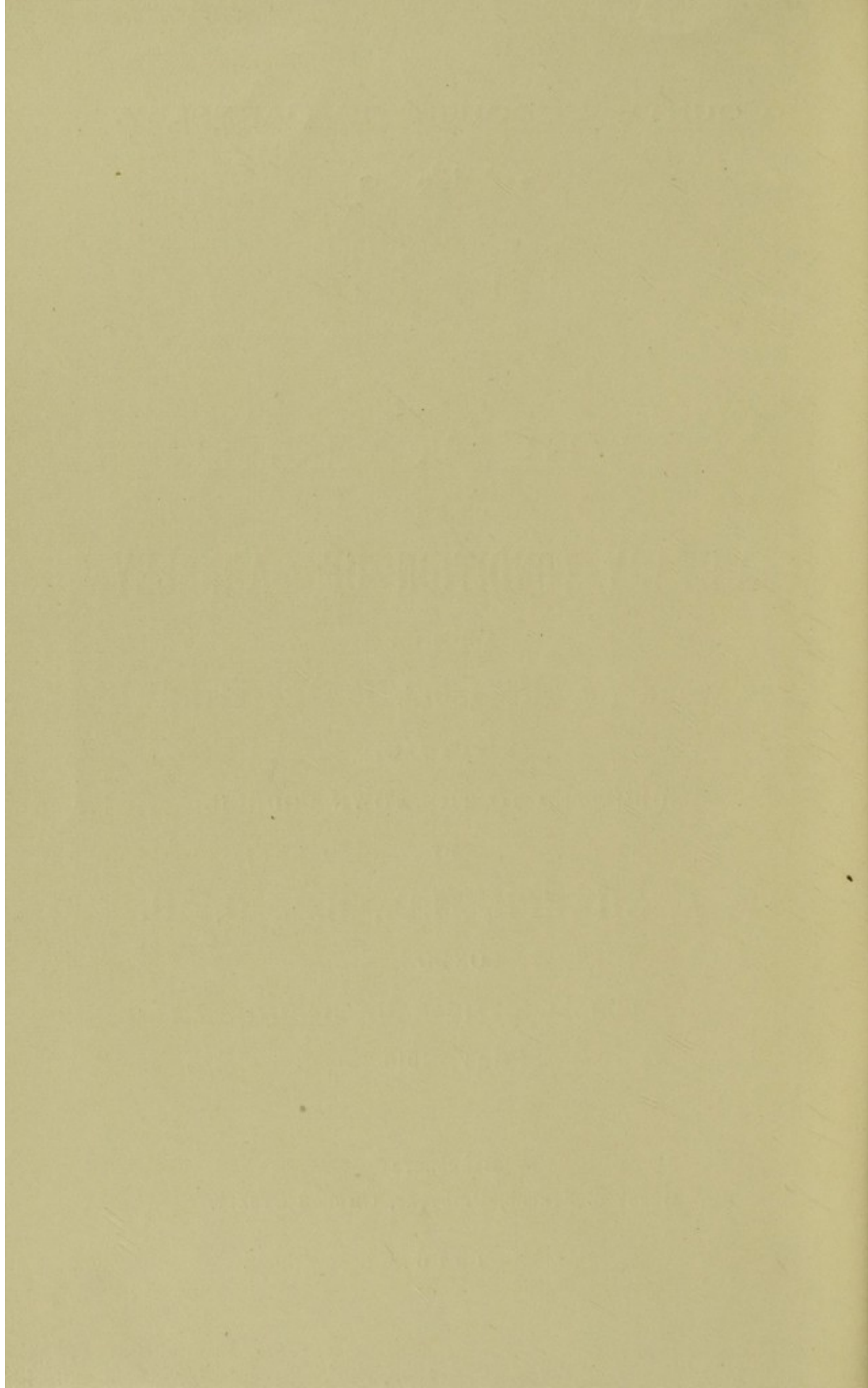


REPORT
ON THE
SANITARY CONDITION OF BARNSELEY
AND THE
WORK OF THE ISOLATION HOSPITAL
IN 1915,
SUBMITTED TO THE TOWN COUNCIL
BY
F. A. SHARPE, M.D., B.S., D.P.H.,
LONDON,
MEDICAL OFFICER OF HEALTH.

MAY, 1916.

BARNSELEY :
BERRY & STEELE, PRINTERS, CHURCH STREET.

1916.



COUNTY BOROUGH OF BARNESLEY.

REPORT
OF THE
MEDICAL OFFICER OF HEALTH
FOR THE YEAR 1915.

To the Health Committee of the Town Council.

GENTLEMEN,

I have pleasure in presenting to your notice my first Annual Report. The Report, covering the whole of the year includes the work done by Dr. Sadler, prior to my taking up my duties (May, 1915). On the grounds of economy, I have thought it desirable to limit the report and to confine myself to a brief record of work done, leaving to a more favourable time that comprehensive treatment of the activities of the Sanitary Authority which the importance of the work deserves.

From the partial view of the Sanitary need of the Borough which I have been able to obtain, I can say that the outstanding needs of the moment are :—

- (1) Better housing accommodation for the artizan class.
- (2) The rapid conversion of the remaining privies to water closets.
- (3) The provision of a destructor.
- (4) The paving of yards.
- (5) A vigorous and comprehensive policy for preventing the excessive Infant Mortality which is a marked feature in our statistics.

Statistics.

The usual estimates of the population are widely beside the mark. The Registrar General estimates the civil population at 50,409, a little below that at the 1911 census. Although the deaths of soldiers in the Borough are removed from those debited to the Borough, their number is so small as to scarcely influence the high rates obtaining.

During the year, there were 994 deaths registered in the Borough; deducting 101 deaths of persons belonging to other districts, and adding 41 deaths of persons belonging to the Borough who died outside, the nett figure is 934, of whom 503 were males and 431 females, giving a corrected death-rate of 18·52. This high figure is partly explained by the removal from the estimate of the population of about 5,000 soldiers who, representing the most vigorous portion of the population, have a very low death rate, and partly by the extremely high death rate prevailing among young children.

From Table 1. it will be seen that the death rate is 1 per thousand higher than the average for the past ten years, and 0·75 higher than that of 1914.

The allocation of the Births and Deaths to their appropriate Wards is shewn as under :—

Ward.	Estimated Population.	Nett Births.	Rate per 1000 living.	Nett Deaths.	Rate per 1000 living.	Deaths of Infants.	Rate per 1000 born.	Illegitimate Births.	Rate per 1000 born.
North ..	7058	182	24·1	106	15·1	30	164	5	27
South ..	8155	214	24·5	154	19·1	45	210	9	42
East ..	4653	156	31·3	108	23·2	30	190	12	77
West ..	7947	224	26·2	134	16·6	39	174	15	67
South-East	17112	545	29·7	366	21·4	88	161	41	75
South-West	5484	143	24·3	66	11·6	20	140	6	42
TOTAL ..	50409	1464	27·14	934	18·52	252	172	88	60·1

N.B.—The birth rates are not calculated on the civil population only (50,409), but on the estimated civil and military population for the middle of 1914—53,929.

This table brings out the great variation in the rates prevailing in the different wards. The South-West Ward having a death rate of 11·6 per 1,000 living, compared with the East Ward where the rate is twice as high. The association of a high death rate with a high birth rate, and to a lesser degree, the influence of a high infantile Mortality on the death rate is also brought out.

The principal causes of death and their age grouping are shewn in Table III.

It will be seen that there were 58 deaths from Measles, representing 0·62 % of the total deaths. Barnsley, in common with the rest of England and Wales, suffered an especially violent epidemic of the disease, which has caused during the years, 1909—1913, 57,547 deaths throughout the whole country. The number last year in the Borough was 56, so that we may expect a large diminution in this disease for the next two or three years. There were 15 deaths from Whooping Cough, compared with 31 last year; from Influenza, 35 compared with 34; from Phthisis, 48 as compared with 54; 17 from other Tuberculous Diseases as compared with 38, from Cancer there were 48 deaths as compared with 40; from Heart disease 69 compared with 73; from all Respiratory diseases 172 compared with 164; from Diarrhoea 83 compared with 66; from Nephritis 49 compared with 43; from Congenital Debility and Malformation, including Premature Births, 81 compared with 83. Violence accounted for 42 compared with 45, and from other defined diseases there were 166 deaths compared with 196 in 1914.

Among the 994 deaths registered in the Borough, 101 were those of non-residents. Their place of origin is stated below.

Ardley ... 5	Monk Bretton ... 4	Cudworth ... 8
Worsbro' ... 15	Melton Mowbray 1	Roystone ... 5
Bradford ... 11	Darfield ... 4	Houghton Magna 1
Grimethorpe 2	Hoyland ... 11	Huddersfield ... 1
Wombwell ... 11	Normanton ... 1	Barnsley Rural 1
Laisterdyke 1	Dodworth ... 3	Harrogate ... 1
Darton ... 12	Billingley ... 1	
Hayfield ... 1	Thurlstone ... 1	101

There were 115 Inquests held on persons dying in the Borough, and 7 on Borough residents who died outside. The causes of death as certified in the Coroner's Court are summarized overleaf:—

Cause of Death.	Borough.		Strangers.	
	Male.	Female	Male.	Female
NATURAL CAUSES—				
Phthisis Pulmonalis	1	1	..	1
Tubercular Meningitis	1	..	..	..
Cancer	1	..	..	..
Heart Disease	4	2	1	1
Bronchitis .. .. .	..	1	..	..
Pneumonia	4	3	..	..
Other Respiratory Diseases ..	1	..	..	..
Cirrhosis of Liver and Alcoholism	..	2	..	..
Nephritis and Brights .. ..	..	1	2	..
Congenital Debility and Mal-formation, including Premature Birth	1	1	..	..
Pericarditis accelerated by neglect	1	..	..	..
Inanition .. .. .	..	1	..	..
Congestion of Brain .. ..	..	1	..	..
Rupture of Aneurysm	1	1	..	..
Apoplexy	3	2	..	..
Over-exertion on full stomach ..	1	..	..	..
Embolysm in heart .. ..	..	1	..	..
Hæmorrhage .. .. .	..	1	..	..
ACCIDENTAL DEATHS—				
Parents general neglect	1	2	..	..
Overlaying, Suffocation	6	3	..	..
Accidentally drowned .. ..	..	..	1	..
Blood poisoning following injury	..	..	2	..
Inhalation of poisonous gas ..	1	..	..	..
Found drowned	1	1	..	..
Found dead from suffocation ..	2	..	1	..
BURNS—				
Playing with fire	2	5	2	3
Clothing catching fire .. ..	..	1	..	1
Fireworks .. .. .	..	1	..	..
Scalds	2	1	2	1
VEHICLES—				
Motor Omnibus .. .. .	..	1	4	..
Horse .. .. .	..	..	1	..
FALLS—				
Down Steps .. .. .	..	2	1	..
Off Table .. .. .	..	1	..	..
Off Dray .. .. .	..	1	..	..
MURDER .. .. .	..	1	..	..
SUICIDES—				
By Drowning	2	1	1	..
By Poison	1	..	..	..
By cutting throat	1	..	..	..
COLLIERY ACCIDENTS—				
Fall of Roof	2	..	6	..
Machinery .. .. .	..	..	1	..
Runaway Tubs .. .. .	..	..	2	..
Locomotive Engines .. .. .	..	..	2	..
	40	39	29	7

Inquests held on persons resident in the Borough who have died outside :—

Cause of Death.	Borough.		Strangers.	
	Male.	Female	Male.	Female
Accidental discharge of rifle ..	1	..	..	..
Over-exertion—Heart Failure ..	1	..	..	..
Judicial hanging	1	..	..	..
Gored by a Bull	1	..	..	..
Crushed by Tubs	1	..	..	..
Found drowned .. ..	..	1	..	..
Killed by Colliery Loco. Engine ..	1	..	..	..
	6	1	..	..

The total deaths in Institutions numbered 189, of which 77 occurred in the Beckett Hospital, and 112 in the Workhouse.

The following table shews the deaths in Institutions of both Borough residents and strangers. For the sake of comparison the place of death of those “strangers” who died elsewhere than in Institutions is included.

Cause of Death.	Beckett Hospital.		Work-house.		Barns-ley Canal.		Ambul-ance in Church Street.		South Ward.		East Ward.		South-East Ward.		Total.	
	Residents.	Strangers.	Residents.	Strangers.	Residents.	Strangers.	Residents.	Strangers.	Residents.	Strangers.	Residents.	Strangers.	Residents.	Strangers.	Residents.	Strangers.
Enteric Fever...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Diphtheria ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
Phthisis Pul-monalis ...	1	1	8	2	...	...	...	...	...	...	...	...	...	...	9	3
Other Tubercu-lous Diseases	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	2
Cancer ...	3	3	2	1	...	...	...	...	1	...	...	...	...	...	5	5
Organic Heart Disease ...	1	1	8	5	...	...	...	...	...	...	1	...	...	...	9	7
Bronchitis ...	...	...	4	2	...	...	...	...	1	...	...	...	...	...	4	3
Pneumonia ...	1	1	7	2	...	...	...	...	...	...	...	...	...	...	8	3
Other Respira-tory Diseases	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Appendicitis ...	4	2	...	...	...	...	...	...	...	...	...	...	...	...	4	2
Diarrhœa and Enteritis ...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
Nephritis and Bright's Dis.	...	1	8	3	...	...	...	...	...	...	...	...	...	...	8	4
Congenital Debility and Mal-formation ...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
Violent Deaths	14	26	1	...	...	...	2	...	...	...	...	...	...	...	15	28
Suicide ...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2
Other defined Diseases ...	8	4	24	32	...	...	...	...	...	...	...	...	1	...	32	37
Ill-Defined Diseases ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
	33	44	64	48	...	2	...	2	...	2	...	2	...	1	97	101

The 166 deaths from other defined diseases are set out in an accessory to Table III. (Table IIIa).

The fact that there were only 2 deaths not certified by either doctor or coroner is one reflecting credit on the Borough. Including these two there were only three deaths the causes of which were included under the heading "ill-defined diseases."

Birth Rate.

During the year there were registered 1,471 Births, of which 8 did not belong to the Borough. One birth belonging to the Borough was born outside. The nett births were therefore 1,464, of whom 749 were males and 715 females, representing a birth-rate calculated on the civil and military population for the middle of 1914 (53,929) of 27·14. This rate is 5·51 per 1,000 lower than that of the decennial average, and 3·37 lower than that of 1914. The allocation of the births to their appropriate Wards is shewn in the Table on page 4. This table also shews the birth-rates and the illegitimate birth-rates for the different Wards. It will there be seen that the birth-rate varies greatly, from 31·3 per 1,000 in the East Ward to 24·1 in the North Ward, and that the illegitimate rate varies proportionately with the general birth-rate.

Infantile Mortality.

Out of 1,464 children born, 252 failed to reach one year of age. The deaths were those of 144 males and 108 females, and represent a rate of 172 per 1,000 born. On Table IV. will be seen the causes of death in their age groups. The death-rate among legitimate children was 164, and among illegitimate children 295. The principal causes of death were 50 from Bronchitis and Pneumonia, 52 from Diarrhoea, and 80 from Congenital Debility, Malformation and Premature Birth. It is reasonable to infer that a large proportion of the deaths from lung diseases could be saved if there were less ignorance and carelessness among parents, and if satisfactory treatment could easily be obtained in the early stages of the disease. The same remarks apply to Diarrhoeal diseases, with the qualification that we as a local authority must accept a good deal of responsibility for the general insanitary conditions, particularly bad housing, privy middens, and unpaved yards, which so markedly influence the incidence and course of these diseases. With regard to the last group—those deaths from Congenital Malformation, Premature Birth, Atrophy, Debility, and Marasmus—it may be said that the cause of death is maternal, unwittingly in so far as the death of the infant is due to insufficient food, bad surroundings, insufficient rest, factory work up to near the time of confinement, and lack of proper attention during confinement, but responsibly in so far as it is caused by alcoholism, venereal diseases, and wilful attempts by various means to induce abortion which, in unsuccessful cases, result in the maiming of the unborn child.

There is a magnificent field of endeavour here opened to the local authority in two principal directions. One includes all the important sanitary improvements which have been such an important feature of local government in recent years, but which in our town need to be undertaken on a much larger scale; while the other embraces those methods which have as their object the provision of means of ready treatment for infantile disorders and of providing instruction and help to mothers in the art of evading or overcoming the difficulties they find in the proper bringing up of young children.

At the time of writing the appointment of an additional Health Visitor and the sanction of the Council for the inauguration of an Infant's Consultation Centre promise well for the future. The special influence of Summer Diarrhoea on the infantile mortality is treated in the Infectious Diseases section.

**Summary of
Work done by
Health Visitor,
1915, under the
Notification of
Births Act,
1907.**

The work done by the Health Visitor is set out below:—

Notifications received	...	...	1,390
By Medical Practitioners	...	...	182
By Midwives	...	...	1,108
By others	...	...	100

Number of Illegitimate Births	...	93
Number of Premature Births	...	40
Number of Still Births	...	66

Cases of Epidemic Diarrhoea (death enquiries)	...	...	77
Cases of Puerperal Fever	...	...	3
Cases of Ophthalmia Neonatorum	...	...	15

**Ophthalmia
Neonatorum.**

The history of these cases is as follows:—

- 9 cases. Better. Treated at home.
- 2 cases. Died before the end of the year.
- 2 cases. Serious (may be blind, operation to be performed when infant is older, at the Beckett Hospital.
- 2 cases. Serious. (Improvement). Beckett Hospital.

The last 4 cases still under treatment at the end of year.

Visits:—

Number of First Visits...	...	...	1,100
Number of Re-visits	...	...	1,815
Number of Epidemic Diarrhoea Visits	...	...	91
Number of Inspections of Midwives	...	...	51
Number of Pre-Natal Visits	...	...	6
			<hr/>
			3,063
			<hr/>

Inspection of Midwives.

In accordance with the requirements of the Midwives Act, 19 women who were registered as midwives gave notice of their intention to practice within the boundaries of the Borough. Of these, one has not practised for 2 years, and 2 are doing monthly nursing. *None of the women on the Roll are trained*, and 12 are illiterate, but obtained their certificate on the grounds of having been in practise for two years before the passing of the Act.

The conditions of practise were :—

Excellent	...	...	...	...	...	6
Good	...	...	...	...	...	2
Good (with a physical disability)	...	...	...	...	...	1
Satisfactory	...	...	...	...	...	6
Improving under supervision	...	...	...	...	...	3
Not working	...	...	...	...	...	1

With regard to the keeping of a Register of Cases, systematic inspection has brought about a gradual improvement.

6 Midwives possess a Regulation Bag, the remainder having small unsuitable satchels. The equipment of the bags is fairly satisfactory and is improving.

Thirteen notices were received from midwives stating that they had had to send for medical assistance. The causes of sending were :—

				Infant.	Mother.
Transverse presentation	...	...	...	—	1
Still Births	...	...	...	—	1
Weak Heart	...	...	...	—	1
Ophthalmia Neonatorum	...	...	...	1	—
Prolonged Labour	...	...	...	—	1
Miscarriage and Abortion	...	...	...	—	1
Breech presentation	...	...	...	—	4
High Temperature	...	...	...	—	1
Feebleness or Prematurity of infants	...	...	...	1	—
Jaundice	...	...	...	1	—

The appliances and records of the midwives were inspected quarterly. Defaults in carrying out the rules of the Central Midwives Board were dealt with as follows :—

- 3 Midwives were warned by the Health Visitor.
- 3 Midwives were warned by letter from the Medical Officer of Health.
- 2 Midwives were requested to attend at the Health Office for personal interview.

No serious infraction of the rules were reported, and no midwife was reported to the Health Committee.

**Infectious
Diseases.**

A reference to Table II. in the appendix will show the number of cases of the various notifiable diseases in their age groups and Wards. The numbers are approximately equal to the low level of last year with the exception of Tuberculosis, where there was almost double the number recorded in 1914: this is due to the notification by the Dispensary Medical Officer of all old cases which had previously escaped notification and to the searching out of new cases.

Measles again exacted a heavy toll of young life and the effect of compulsory notification of the disease as ordered in the Measles and German Measles Regulations of the Local Government Board is awaited with interest. The resolution of the Council, adopted early in 1916, to appoint an additional Health Visitor will enable these regulations to be carried out. Owing to the vigilance of the Port Sanitary Authorities no cases of Small Pox arising in our seaports were enabled to start local epidemics, and Barnsley has another year of freedom from the scourge. Owing to the farcical result of the conscientious objection clauses in the Acts dealing with Vaccination, the English nation is rapidly ceasing to be a vaccinated people, so that when Small Pox is introduced we may expect a widespread epidemic with a correspondingly heavy mortality. There were two cases of Cerebro-Spinal Fever, one a soldier billeted at his home, the other a young miner; both died in the Kendray Hospital, the disease being in each case of the fulminant type.

KENDRAY FEVER HOSPITAL.

Report for Year ended December 31st, 1915.

Contributing Authorities.	Admitted.						Remaining in Hospital.			Died.				Totals.		
	Enteric Fever.	Diphtheria.	Scarlet Fever.	Cerebro-Spinal Fever.	Chicken Pox.	Measles.	Enteric Fever.	Diphtheria.	Scarlet Fever.	Scarlet Fever.	Cerebro-Spinal Fever.	Admitted.	Remaining.	Died.		
Ardsley ..	2	6	22	2	..	1	..	2	..	2M	..	31	2	1		
Barnsley ..	4	22	135	2	..	..	..	1	9	1M	2M	163	10	7
Barnsley Rural..	2	3	9	..	..	..	..	1	1	..	..	14	2	2
Cudworth ..	1	24	14	..	1	..	..	4	3	2F	..	40	7	2
Darfield ..	..	1	70	..	..	..	..	..	12	..	1M	71	12	2
Darton ..	3	4	35	..	..	..	1M	..	4	1F	1F	42	4	2
Dodworth ..	..	..	3	..	..	..	..	..	1	..	..	3	1	..
Hoyland ..	1	..	4	..	..	..	..	3	5	..	..	5	..	..
Monk Bretton ..	1	4	24	..	..	..	..	1	5	..	..	29	8	2
Koyston ..	..	9	29	..	..	..	..	1	..	..	..	38	1	2
Wombwell..	3	17	54	..	..	1	1M	2	10	2F	..	75	10	2
Worsborough ..	4	14	57	..	..	..	..	..	3	1M	1M	75	5	1
	21	104	456	2	1	2	..	14	48	4	7	6	62	19		

There were 13 return cases of Scarlet Fever infected by 9 discharged patients. 6 discharged cases infected 6 fresh cases in 6 separate houses. 2 infected 2 fresh cases in each of 2 houses and 1 infected three fresh cases. The percentage of return cases is 2·85. There were 8 cases of Diphtheria requiring tracheotomy, of which 1 died. Five members of the staff were treated, 3 for Scarlet Fever, 1 for Abscess, and 1 for Heart Disease.

There was considerable difficulty in admitting all the cases of Diphtheria. Normally there are only 7 beds available for this disease, which will allow of only 84 cases per year on a basis of each patient remaining in Hospital for one month. The actual number of cases (104), was dealt with by utilizing the Enteric Fever beds, 7 in number, when there were no cases of this disease in the Hospital. The question of providing additional accommodation has received the careful consideration of the Committee.

**Epidemic
Diarrhœa.**

This disease, although not notifiable, possesses special significance in that it gives a direct index to the sanitary state of a community. During the year, 85 persons died from it. 52 were under 1 year of age, 31 were between 1 and 2 years, 1 between 5 and 15 years, and 1 between 15 and 25 years of age, so that the incidence falls almost entirely upon young infants. The Health Visitor has made some enquiries into these deaths, but owing to the fact that the enquiry was not undertaken until August and after, and, in consequence, some of the parents had changed their addresses, not all the cases were subject to the enquiry. The figures given are expressed as percentages of the ascertained facts only.

52 per cent. were males and 48 per cent. were females.
Their ages were:—

Ages.	1 and under 2 weeks.	2 and under 3 weeks.	3 and under 4 weeks.	1 and under 3 months.	3 and under 6 months.	6 and under 9 months.	9 and under 12 months.	1 year and under 15 months.	15 and under 18 months.	18 and under 21 months.	21 and under 2 years.	2 years.	12 years.
No. of Deaths, 85	2	1	1	14	14	15	5	15	8	4	4	1	1

Five died in the quarter ended March 31st.

Eight " " June 30th.

Fifty-two " " September 30th.

Twenty " " December 31st.

Sixty-five of the deaths occurred in August (12), Sep. (37), and October (16).

The number of deaths occurring in each Ward is here shewn, with the rates per thousand living. The East Ward shews again in an unfavourable light :—

	North.	South.	East.	West.	South-East.	South-West.
Number of Deaths.	11	8	14	12	37	3
Rate per 1,000 living.	1·552	0·976	2·997	1·504	2·153	·545

Information was obtained as to the housing conditions in 73 instances. 8 of the houses were of two rooms, 10 of 3 rooms, 45 of 4 rooms, 10 of 5 rooms. 61·64 per cent. occurred in 4-roomed houses. Overcrowding existed in 10·8 per cent. of the houses, a figure very near that of the population as a whole. 2 houses were reported as being damp and 8 as being dirty. 22·06 per cent. of the houses had *no through ventilation*. 48 per cent. of the sanitary conveniences were water closets, 18 per cent. were waste water closets, and 34 per cent. were privy middens.

A few particulars were noted as to the surroundings and social conditions of the subjects of the enquiry.

60 infants, or 70·5 per cent., were insured. 14, or 16·0 per cent, were not insured ; and in the case of 11, or 13·0 per cent, the information was not obtained. 5 of the deaths were those of illegitimate children. 8 were those of children who had been delicate from birth. 1 child was the ninth in the family to die before reaching two years of age. Another was the fifteenth child of whom only 5 have survived. Six of the mothers had been ill during the fatal illness of the child—one of these was removed with her child to an Asylum.

The importance of breast feeding has been dinned into the ears of the public in and out of season, and statistics carefully compiled over the whole country have shewn under what an enormous handicap the bottle-fed child has to struggle out of infancy towards adult life. Our enquiries were restricted to 41 deaths of children who were 7 months old and under at the time of death ; of these only 11 were breast fed, 20 were fed entirely from the bottle with cow's milk, condensed milk, and various proprietary foods ; 5 were partly bottle fed ; and in 5 cases information could not be obtained. These figures again emphasize the fact that the incidence of Summer Diarrhoea is borne mainly by other than breast-fed children.

**Means of
Control over
Tuberculosis.**

The institutions under the control of the Borough Council are :—

1. Mount Vernon Sanatorium.
2. The Tuberculosis Dispensary.

The Open-Air School under the control of the Education Committee.

When the Sanatorium and Dispensary were opened early in the year, Dr. Pennant acted as Assistant Tuberculosis Officer until May, when he resigned in order to undertake military duties; your Medical Officer then performed the work until August, when Dr. Penny entered upon his duties.

Dealing first with the number of cases notified, 158 fresh cases were notified during the year, comprising 85 males and 73 females; of these 144 related to cases of Pulmonary Tuberculosis or Phthisis, and 14 to other forms of Tuberculosis. The latter figure much understates the real number of these cases. The age group and site of disease are set out below,—

Site of Disease.	Years.							Total.
	0—1	1—5	5—15	15—25	25—45	45—65	65 and over.	
Pulmonary ...	...	5	36	29	52	20	2	144
Other forms—								
Cervical Glands...	...	...	3	...	1	...	...	4
Meningitis ...	1	1	1	...	...	...	...	3
Abdominal ...	...	1	1	...	...	...	...	2
Intestinal ...	...	...	1	..	...	...	...	1
Lupus ...	...	...	2	...	...	...	...	2
Enteritis ...	...	...	...	1	...	...	...	1
Spine ...	...	...	1	...	...	...	...	1
Totals ...	1	7	45	30	53	20	2	158

The Ward incidence of these cases is as follows :—

	Localities :—										Total.
	North Ward.	South Ward.	East Ward.	West Ward.	South East Ward.	South West Ward.	Work-house.				
Pulmonary ...	9	25	17	14	61	15	3	...	...	...	144
Other forms ...	4	2	2	2	2	2	...	...	...	...	14
	13	27	19	16	63	17	3				158

It is noticeable that the South-East Ward which furnishes nearly one-third of the population of the Borough is responsible for 40 per cent. of the cases.

I have to place on record the fact that the notification of cases of Pulmonary Tuberculosis is neither complete, nor is it made sufficiently early. Twenty-nine patients, upon four of whom inquests were held, died without notification having been made; eight died within a few days of notification; eight died within one month; and four within three months. Now that improved facilities for early diagnosis and treatment have been provided by the Council, an improvement is taking place.

The notifications of admissions to Institutions of those persons suffering from Tuberculosis who have been previously notified relate to 66 persons, of whom 38 were males and 28 females. The institutions to which they were admitted and the locality in the town in which they resided prior to admission are shewn below :—

Institutions :—	Localities :—							Totals
	North Ward.	South Ward.	East Ward.	West Ward.	South East Ward.	South West Ward.		
Barnsley Union Infirmary...	—	—	—	—	3	—	3	
Mount Vernon Sanatorium	4	13	8	9	23	4	61	
Morton Banks do., Keighley	—	—	—	—	1	—	1	
Royal National Hospital, Ventnor	—	—	1	—	—	—	1	
	4	13	9	9	27	4	66	

They occur in the following age groups :—

5—15	15—25	25—45	45—65	Total
13	18	25	10	66

The notifications of discharge from institutions of persons suffering from Tuberculosis relate to 52 persons, of whom 31 were males and 21 females. The institutions from which they were discharged and the localities in which they intended residing are as follows :—

Institutions :—	Localities :—							Totals
	North Ward.	South Ward.	East Ward.	West Ward.	South East Ward.	South West Ward.		
Workhouse	—	—	1	1	7	—	9	
Morton Banks Sanatrm., Keighley	—	—	—	—	1	—	1	
Mount Vernon Sanatorium	1	10	7	6	16	2	42	
	1	10	8	7	24	2	52	

They occur in the following age groups :—

5—15	15—25	25—45	45—65	Total
6	15	22	9	52

Deaths from Tuberculosis numbered 65, of whom 33 were males and 32 were females. Their age groups are shown in Table III. of the Appendix. 13 died in institutions—1 in the Beckett Hospital, 8 in the Barnsley Union Infirmary, 3 in the Mount Vernon Sanatorium, and 1 in a private sanatorium in North Wales. Allocating these deaths to their Wards :—

	North Ward.	South Ward.	East Ward.	West Ward.	South East Ward.	South West Ward.	Totals
Phthisis Pulmonalis...	4	9	4	7	21	3	48
Tuberculous Meningitis	1	1	4	2	4	—	12
Other Tuberculous Diseases	2	—	—	2	1	—	5
	7	10	8	11	26	3	65

**Tuberculosis
Dispensary.**

The work of the Tuberculosis Dispensary, opened early in the year, is on the whole satisfactory. Now that a Tuberculosis Nurse has been appointed, the home visiting of all cases is being carried out in a systematic manner, and the examination of "contacts" is promoting the diagnosis and treatment of cases at the earliest possible moment. Next year a large increase in the number of new cases notified is to be expected, although our number for this year is swollen by the inclusion of old cases which had hitherto escaped notification.

There are no satisfactory records prior to June, 1915.

Total patients on the books is 109, with 9 deaths; about 40 are in advanced stages of the disease.

Since records have been kept, there have been 62 attendance days, with 457 attendances—196 by Insured Patients, 245 by Non-Insured, and 16 Contacts of whom 4 were found to be tuberculous.

Attendances booked :—June 32, July 51, August 47, Sep. 49, Oct. 67, Nov. 110, Dec. 101—Total 457.

Mrs. Tong commenced her duties as Tuberculosis Nurse on 12th October, and has paid 226 Home Visits; The Barnsley Nursing Association have paid 162 Nursing Visits and 174 Observation Visits—336 Home Visits; a total of 562 visits and yet the condition and surroundings of many of the patients—especially in the more advanced stages of the disease—is far from satisfactory, either as regards their own progress or the safety of their neighbours, and unless these cases can be efficiently dealt with, an increase rather than a diminution of this disease in the Borough must be expected.

**Mount Vernon
Sanatorium.**

A summary of the work done by the Mount Vernon Sanatorium is appended. The most striking fact is the large percentage (38 per cent.) of advanced cases. The reason for this is the difficulty experienced in the early part of the year in getting into touch with early cases, and the desirability of affording some relief to advanced cases, accommodation being available. It will be noticed that 14 patients sought their own discharge. The after history of the patients makes melancholy reading, but would be improved by the inclusion of the after history of the West Riding patients, all of whom were in an early stage of the disease.

I have the honour to be,

Your obedient servant,

F. A. SHARPE.

MOUNT VERNON SANATORIUM, BARNSLEY.

REPORT for year ended 31st December, 1915.

PATIENTS ADMITTED.				PATIENTS DISCHARGED.						
From	Type of Case.			Condition on Discharge.				Total Discharged	Remaining in the Sanatorium	
	Advanced	Medium	Early	Total	Disease Arrested	Condition Improved	No Progress	Died		
West Riding County Council ..	1	6	3	10	4	3	0	0	10	0
Wakefield City Council ..	8	7	20	35	9	6	3	0	22	13
Barnsley Borough Council ..	13	3	10	26	3	6	2	2	16	10
Barnsley Insurance Committee	18	5	12	35	9	9	4	1	29	6
Total ..	40	21	45	106	25	24	9	3	77	29

AFTER HISTORY.

	Working.		Not Working.		Dead.	Totals.
	Working.	..	Working.	..		
Wakefield Patients ..	13	..	7	..	2	22
Barnsley Council Patients ..	5	..	6	..	5	16
Barnsley Insured Patients ..	14	..	8	..	7	29
Totals ..	32	..	21	..	14	67

The average stay in the Institution of each patient was 78 days.

Average number of patients in the Institution daily was 22.

A Laboratory has been partially equipped and is very useful, 113 specimens have been examined.

TABLE I.
Vital Statistics of whole District during 1915 and Previous Years.

Year.	Popula- tion estimated to middle of each year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all ages belonging to the District.		Nett.		Zymotic Death Rate.
		Number	Rate*	Under 1 year of age		At all ages					Number	Rate*	Deaths under 1 year.	Deaths under 5 years.	
				Number	Rate per 1,000 Births registered	Number	Rate*								
1905	44000	1491	33.88	224	150	781	17.75	128	68	26	739	16.79	30.18	45.20	2.38
1906	44500	1567	35.21	270	172	886	19.91	147	72	20	834	18.74	32.37	46.88	3.55
1907	45000	1520	33.77	236	155	899	19.97	175	86	18	831	18.46	28.39	44.76	3.24
1908	45500	1624	35.69	263	161	913	20.06	167	77	24	860	18.90	30.58	43.14	3.23
1909	46500	1614	34.70	218	135	848	18.24	134	64	23	807	17.36	27.02	40.73	1.78
1910	48000	1581	32.95	244	154	794	16.54	111	55	22	761	15.86	32.06	45.85	2.66
1911	51000	1543	30.26	326	211	1102	21.61	177	94	48	1056	20.70	30.87	49.91	5.30
1912	51500	1565	30.38	158	100	769	14.93	157	64	40	745	14.46	21.20	33.42	1.48
1913	52500	1604	30.55	237	147	913	17.39	126	86	32	859	16.36	27.36	41.09	2.06
1914	54000	1645	30.51	256	155	1007	18.64	176	81	34	960	17.77	26.45	42.5	2.93
Averages for years 1905-1914	48230	1575	32.65	243	148	890	18.46	149	74	27	844	17.50	28.64	44.34	2.86
1915	50409	1464	*27.14	252	172	994	19.71	189	101	41	934	18.52	26.90	44.2	3.29

* Rates calculated per 1,000 of estimated population.

Area of District (exclusive of area covered by water), 2,386 acres.

* The Birth Rate is calculated on the estimated civil and
military population (53,929).

Total Population at all ages 50,614

Total families or separate occupiers.. 10,620

Average number of persons per house 4.76

at Census of 1911.

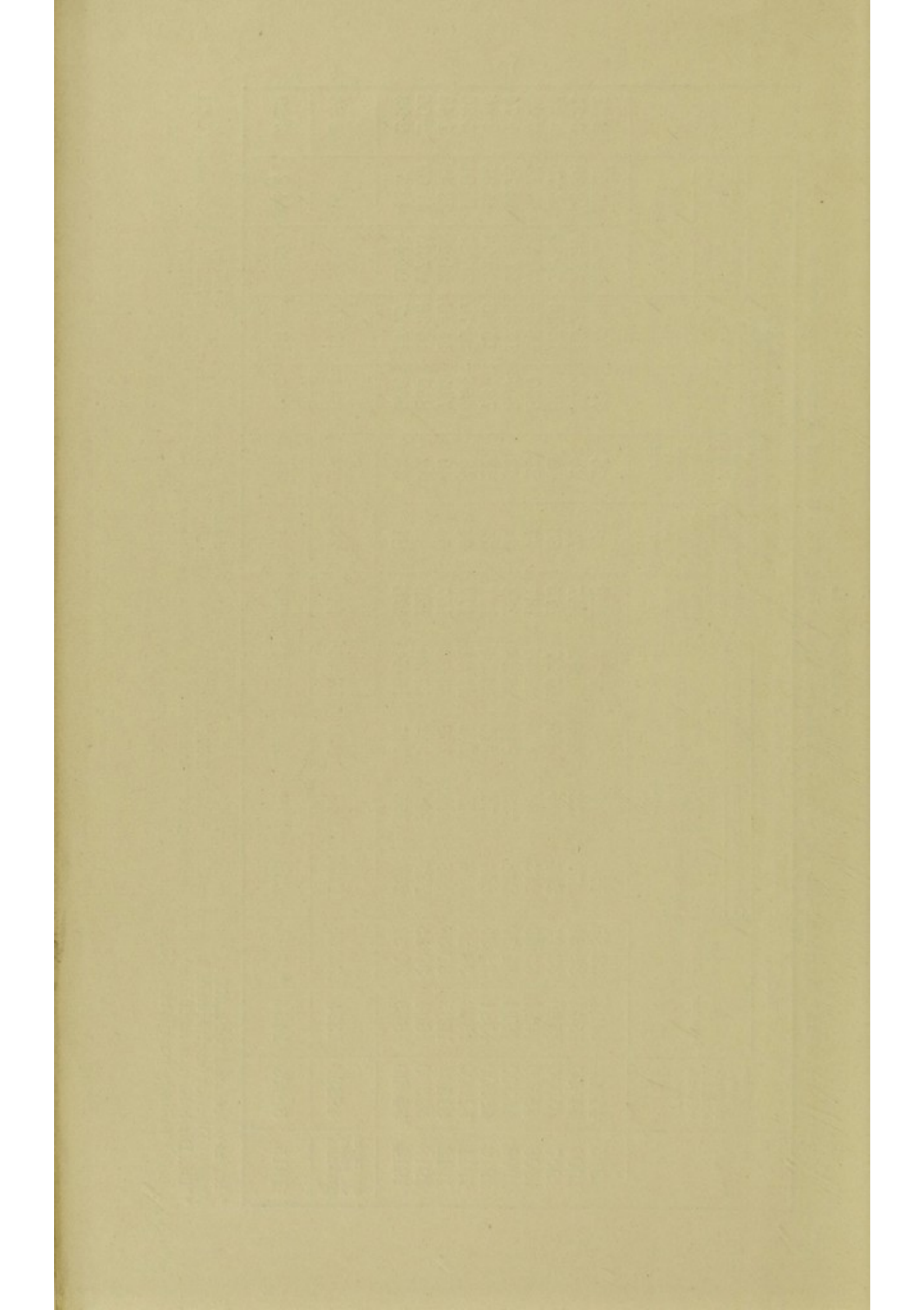


TABLE II.
CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1915.

Notifiable Disease.	Number of Cases Notified.								Total Cases Notified in each Ward.							Total Cases removed to Hospital.
	At all Ages.	Under 1 year.	1 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 years and upwards.	North Ward.	South Ward.	East Ward.	West Ward.	South-East Ward.	South-West Ward.	Workhouse	
Small-pox ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera—Plague ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Mem- branous Croup	42	1	12	22	4	3	...	...	7	2	5	4	18	6	...	22
Erysipelas	48	...	2	1	3	17	22	3	4	4	4	14	17	3	2	...
Scarlet Fever	155	...	31	98	25	1	...	...	44	14	8	25	43	21	...	135
Typhus Fever ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever	5	...	...	3	...	1	1	...	...	1	1	...	3	...	...	4
Relapsing Fever ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever	2	...	...	...	...	2	...	...	...	...	...	...	2	...	...	...
Cerebro-spinal Meningitis ...	1*	...	...	...	1	...	...	...	...	1	...	...	...	...	...	1
Poliomyelitis ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum ...	15	15	...	...	...	...	...	...	4	1	2	1	6	1	...	...
Pulmonary Tuberculosis ...	144	...	5	36	29	52	20	2	9	25	17	14	61	15	3	...
Other forms of Tuberculosis...	14	1	2	9	1	1	...	...	4	2	2	2	2	2	...	...
(1 Military case of Cerebro-S. M. not included in totals)	...	...	...	...	(1)	...	...	...	...	...	(1)	...	...	...	...	(1)
Totals	426	17	52	169	63	77	43	5	72	50	39	60	152	48	5	162

Isolation Hospitals, Sanatoria, &c.—

Kendray Hospital (Fever) in Ardsley U.D.C.
Mount Vernon Sanatorium in Worsbro' U.D.C.
Lund Wood Small Pox Hospital.

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

1842

TABLE III.

Deaths registered during the Calendar Year 1915, classified by age and cause.

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 institutions in the District.
					All Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 years and upwards.	
All causes	{	Certified	...	...	932	251	105	56	40	28	85	190	177	...
		Uncertified	...	...	2	1	...	...	...	...	...	...	1	...
Enteric Fever	...	...	...	...	2	...	...	...	...	1	...	1	...	2
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	58	16	22	16	4	...	...	...	...	...
Scarlet Fever	...	...	...	...	3	...	...	2	...	1	...	...	...	...
Whooping Cough	...	...	...	...	15	7	7	1	...	...	...	...	...	...
Diphtheria and Croup	...	...	...	...	5	...	2	1	1	...	1	...	...	...
Influenza	...	...	...	...	35	7	4	4	1	1	3	6	9	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuberculosis)	...	...	...	...	48	...	...	2	9	6	20	10	1	12
Tuberculous Meningitis	...	...	...	...	12	2	5	1	4	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	5	2	1	1	1	...	...	...	...	2
Cancer, malignant disease	...	...	...	...	48	...	1	...	...	...	6	21	20	9
Rheumatic Fever	...	...	...	...	9	...	...	...	3	1	1	4	...	...
Meningitis	...	...	...	...	5	...	3	2	...	...	...	...	...	...
Organic Heart Disease	...	...	...	...	69	...	...	...	1	5	6	28	29	15
Bronchitis	...	...	...	...	73	20	6	4	...	...	1	19	23	6
Pneumonia (all forms)	...	...	...	...	91	30	17	9	3	1	8	16	7	11
Other diseases of respiratory organs	...	...	...	...	8	1	...	...	...	1	...	5	1	2
Diarrhoea and Enteritis	...	...	...	...	83	52	31	...	...	...	...	...	...	1
Appendicitis and Typhlitis	...	...	...	...	5	...	...	...	1	1	2	1	...	6
Cirrhosis of Liver	...	...	...	...	5	...	...	...	...	...	2	3	...	...
Alcoholism	...	...	...	...	2	...	...	...	...	...	1	1	...	...
Nephritis and Bright's Disease	...	...	...	...	49	1	1	...	2	1	6	22	16	12
Puerperal Fever	...	...	...	...	2	...	...	...	...	...	2	...	...	...
Other accidents and diseases of Pregnancy and Parturition	...	...	...	...	5	...	...	...	...	1	4	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	...	...	...	81	79	1	...	1	...	...	...	...	1
Violent Deaths, excluding Suicide	...	...	...	...	42	11	...	6	6	4	6	4	5	41
Suicide	...	...	...	...	5	...	...	...	...	1	2	2	...	...
Other Defined Diseases	...	...	...	...	166	23	4	7	3	3	14	46	66	69
Diseases ill-defined or unknown	...	...	...	...	3	1	...	...	...	...	...	1	1	...
Totals	...	...	...	...	934	252	105	56	40	28	85	190	178	189

1 Military case of Cerebro-spinal Fever not indicated in above.

TABLE IIIa.
OTHER DEFINED DISEASES.

	0—1 years	1—2 years	2—5 years	5—15 years	15—25 years	25—45 years	45—65 years	65 years and over	Total
Local Diseases—									
Septic Arthritis .. ..	..	..	..	..	..	1	..	..	1
Septic Carbuncle .. ..	..	..	..	..	..	..	2	..	2
Varicose Veins .. ..	..	..	..	..	..	..	3	..	3
Abscess of Neck	1	..	..	..	..	..	..	..	1
Otitis Media	1	..	2	..	..	..	..	..	3
Laryngitis .. ..	..	1	2	..	..	..	..	..	3
Tonsillitis .. ..	..	..	..	1	..	..	..	..	1
Periostitis of Radius ..	..	..	..	..	..	..	..	1	1
Phlebitis of Leg .. ..	..	..	..	..	..	..	1	..	1
General Diseases—									
Diabetes Mellitus .. ..	..	..	..	..	..	..	2	..	2
Convulsions	5	1	..	..	..	..	..	..	6
Inanition	1	..	..	..	..	..	..	..	1
Congenital Syphilis ..	6	1	2	..	..	..	..	..	9
Purpura	1	..	..	..	..	..	..	..	1
Pemphigus	1	..	..	..	..	..	..	..	1
Eczema	1	..	..	..	..	..	..	..	1
Rickets .. ..	..	1	..	..	..	..	..	..	1
Epidemic Diarrhoea ..	..	..	1	1	..	..	..	..	2
Senile Decay .. ..	..	..	..	..	..	..	..	29	29
Uro-Genitary System—									
Cystic Disease of Kidneys ..	..	..	..	..	..	1	..	..	1
Stone in Kidney .. ..	..	..	..	..	..	1	..	..	1
Urethral Stricture .. ..	..	..	..	..	..	..	2	..	2
Enlarged Prostate .. ..	..	..	..	..	..	..	..	2	2
Ovarian Cyst .. ..	..	..	..	..	..	1	..	..	1
Circulatory System—									
Cerebral Hæmorrhage ..	..	..	..	..	..	2	11	14	27
Cerebral Embolism .. ..	..	..	..	..	..	..	1	..	1
Cerebral Thrombosis ..	..	..	..	..	..	..	1	2	3
Cerebral Softening .. ..	..	..	..	..	1	1	6	4	12
Heart Failure .. ..	..	..	..	..	..	..	2	3	5
Arterio Sclerosis .. ..	..	..	..	..	..	..	2	6	8
Angina Pectoris .. ..	..	..	..	..	..	..	2	..	2
Aneurysm .. ..	..	..	..	..	1	..	1	..	2
Malignant Endocarditis ..	..	..	..	..	..	..	1	..	1
Pericarditis	1	..	..	..	..	..	..	..	1
Leucocythæmia .. ..	..	..	..	..	..	1	..	..	1
Pernicious Anæmia .. ..	..	..	..	..	..	1	2	..	3
Gangrene of Leg .. ..	..	..	..	..	..	..	1	..	1
Digestive System—									
Gall Stones .. ..	..	..	..	..	..	1	3	2	6
Strangulated Umbilical Hernia ..	..	..	..	..	..	..	2	1	3
Gastritis	1	..	..	..	..	..	1	1	3
Gastric Ulcer .. ..	..	..	..	..	..	2	..	..	2
Intestinal Obstruction ..	..	..	..	..	..	1	..	..	1
Strangulated Inguinal Hernia ..	..	..	..	..	..	..	..	1	1
Nervous System—									
Progressive Muscular Atrophy ..	..	..	..	..	1	..	..	..	1
General Paralysis of Insane ..	..	..	..	..	..	1	..	..	1
Accidents of Childbirth									
(Infant)—									
Difficult Labour	1	..	..	..	..	..	..	..	1
Compression of Cord	1	..	..	..	..	..	..	..	1
Found Dead in bed	1	..	..	1	..	..	..	..	2
Atelectasis	1	..	..	..	..	..	..	..	1
	23	4	7	3	3	14	46	66	166

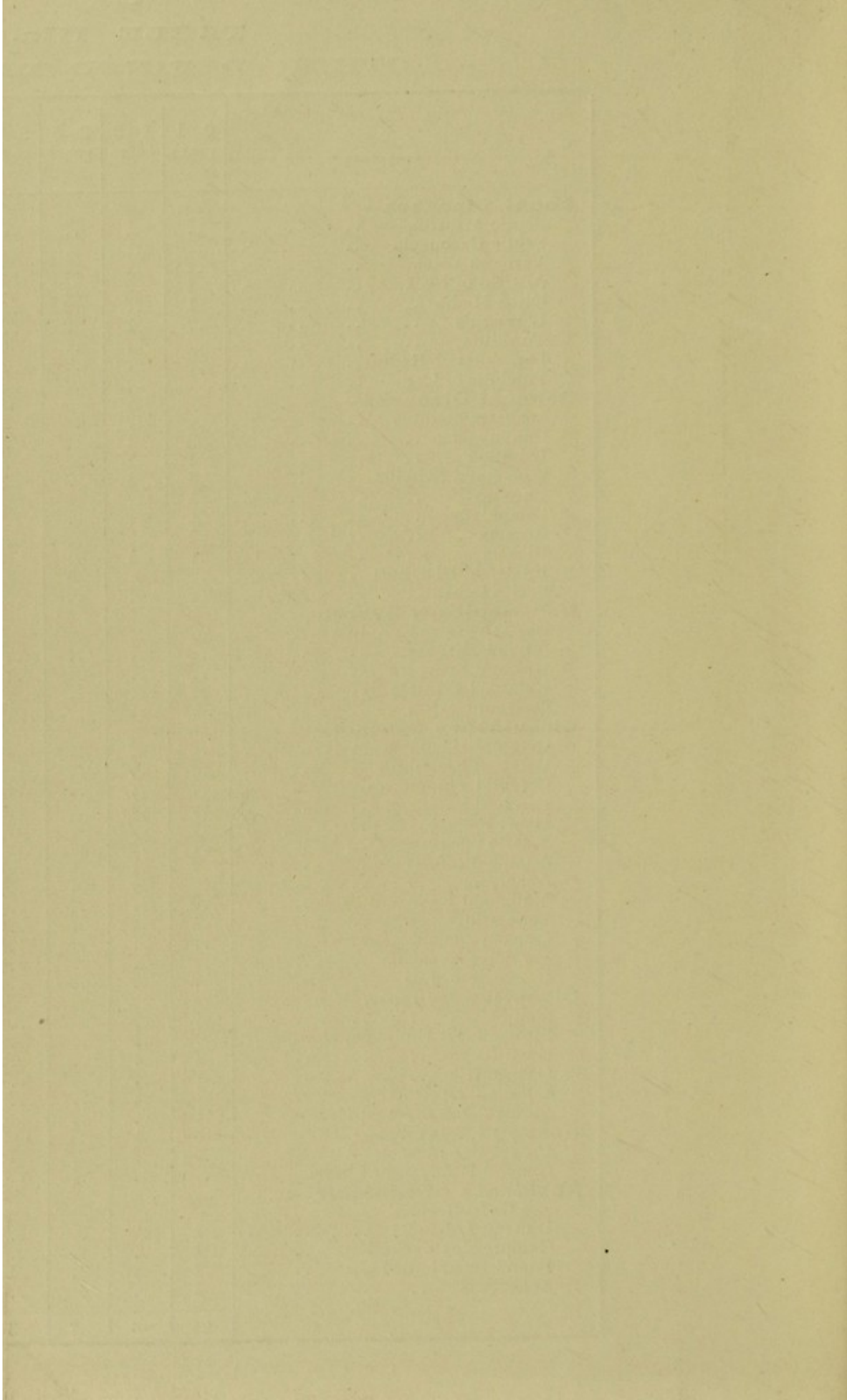


TABLE IV.
INFANT MORTALITY.

1915. Nett Deaths from stated causes at various Ages under 1 Year of Age.

Causes of Death.	Under 1 week.	1—2 weeks.	2—3 weeks.	3—4 weeks.	Total under 4 weeks.	4 weeks and under 3 months.	3 months and under 5 months.	5 months and under 6 months.	6 months and under 9 months.	9 months and under 12 months.	Total Deaths under 1 year.
All causes { Certified .. Uncertified ..	49 ..	17 ..	17 ..	11 ..	94 ..	46 1	38 ..	32 ..	41 ..	251 1	
Measles ..	..	..	..	1	1	..	.. 4	6	9	16
Whooping-Cough ..	..	..	..	..	..	..	..	3	.. 1	7
Tuberculous Meningitis ..	..	..	..	..	..	..	.. 1	1	.. 2	2
Abdominal Tuberculosis ..	..	..	..	..	..	.. 1	.. 1	1	.. 5	6
Convulsions ..	1	..	1	.. 2	3	5	.. 5	3	14	20	
Bronchitis ..	..	..	..	1	1	14	7	15	5	30
Pneumonia (all forms) ..	..	.. 2	.. 1	1	4	..	14	..	..	52
Diarrhoea ..	..	1	..	..	1	.. 3	..	..	.. 1	1
Gastritis ..	..	1	..	..	2	.. 2	.. 3	..	..	6
Syphilis ..	.. 3	1	1	..	4	..	..	..	..	9
Suffocation, overlying Injury at Birth ..	2	..	..	..	2	..	..	..	..	2
Atelectasis ..	2	..	..	..	2	..	..	..	..	2
Congenital Malformations ..	2	.. 2	.. 1	.. 1	6	.. 2	..	..	..	8
Premature Birth ..	34	5	9	5	53	5	..	..	..	58
Atrophy, Debility and Marasmus ..	5	2	..	..	7	5	.. 2	..	..	14
Other Causes ..	..	4	2	..	6	5	2	..	.. 4	17
Totals ..	49	17	17	11	94	47	38	32	41	252	

Nett Births registered during the calendar year—

legitimate 1,376
illegitimate 88

Nett Deaths registered during the calendar year—

legitimate infants 226
illegitimate infants 26

SCARLET FEVER DEATH RATES FOR 45 YEARS.

Years.	Scarlet Fever Death Rates.	Years.	Scarlet Fever Death Rates.	Years.	Scarlet Fever Death Rates.	Years.	Scarlet Fever Death Rates.	Years.	Scarlet Fever Death Rates.
1871	·17	1881	·13	1891	·25	1901	·44	1911	·03
1872	·04	1882	1·24	1892	·24	1902	·14	1912	·18
1873	5·06	1883	·30	1893	·53	1903	·04	1913	·13
1874	2·80	1884	3·87	1894	·10	1904	·25	1914	·09
1875	·62	1885	1·71	1895	·40	1905	·18	1915	·05
1876	·27	1886	1·52	1896	·59	1906	·38	..	..
1877	·27	1887	1·78	1897	·54	1907	·22	..	..
1878	·57	1888	·49	1898	·02	1908	·27	..	..
1879	1·58	1889	·23	1899	·21	1909	·06	..	..
1880	1·58	1890	·05	1900	·32	1910	·02	..	..

Number of Deaths in Barnsley from the seven principal Zymotic Diseases during Four Decades, and in the years 1911—1915, including Deaths at Kendray and Lund Wood Hospitals of Barnsley Residents.

	Decade 1871—1880	Decade 1881—1890	Decade 1891—1900	Decade 1901—1910	Years 1911—1915
Small-pox	9	4	5	11	0
Measles	130	195	299	287	243
Diphtheria.. ..	23	58	65	65	24
Whooping Cough ..	135	175	195	202	88
Typhoid Fever.. ..	197	75	145	138	23
Diarrhœa	456	358	650	681	376
Scarlet Fever	342	355	135	88	27

N.B.—The Kendray Hospital was opened in 1891.

DEATHS FROM PHTHISIS AND RESPIRATORY DISEASES.

Class of Disease.	Total Deaths.	Deaths per 1,000 Persons living.	Percentage of Total Deaths.
Phthisis	48	·95	5·13
Bronchitis	73	1·48	7·81
Pneumonia	91	1·81	9·74
Other Respiratory Diseases	8	·16	·85
Total	220	4·36	23·55

Showing the number of Deaths from each of the Seven Principal Zymotic Diseases in the Years 1905 to 1914, omitting Deaths from other Sanitary Districts, but including Deaths from Barnsley in the Kendray and Lund Wood Hospitals.

Disease.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Average Number of Deaths for 10 years, 1905-1914	Deaths in 1915	Zymotic Death Rates, 1915
Small-pox	3	..	..	..	..	..	..	..	..	..	·3	..	..
Measles	28	11	44	10	26	8	90	17	22	56	31·2	58	1·11
Scarlet Fever	8	17	10	12	3	1	2	10	7	5	7·5	3	·05
Diphtheria and Membran. Croup	4	7	4	1	..	2	4	7	7	1	3·7	5	·09
Whooping Cough	3	17	24	32	1	53	12	24	6	31	19·7	15	·29
Enteric Fever	8	7	11	16	10	7	11	5	1	4	8·0	2	·03
Diarrhœa	51	99	53	76	43	57	153	13	65	62	67·2	83	1·64
Totals.....	105	158	146	147	83	128	272	76	108	159	138·2	166	

**Comparative Table of Notifications for preceding
Twenty Three Years.**

Year.	Small-pox.	Scarlet Fever.	Diphtheria and Membranous Croup.	Erysipelas.	Puerperal Fever.	Typhoid Fever.	Total Notifications.
1892	43	112	57	29	2	11	254
1893	26	283	79	63	9	236	696
1894	5	240	51	39	4	125	464
1895	3	280	36	33	6	124	482
1896	1	326	52	26	10	76	491
1897	...	230	18	37	6	52	343
1898	...	99	18	33	2	133	285
1899	...	151	20	40	8	76	295
1900	...	297	47	28	9	87	468
1901	...	396	43	36	10	164	649
1902	15	346	52	39	11	86	549
1903	38	105	52	33	7	58	293
1904	89	222	56	38	4	78	485
1905	59	255	29	28	5	66	442
1906	...	244	45	42	4	53	388
1907	...	249	24	22	4	47	346
1908	...	240	16	28	2	78	364
1909	...	104	11	16	1	58	190
1910	...	84	22	29	1	23	159
1911	...	118	34	23	1	52	228
1912	...	170	62	29	2	29	360
1913	...	72	73	19	...	14	178
1914	...	170	54	40	7	17	288
Average of preceding 10 years...)	5.9	170.6	37.0	27.6	2.7	43.7	294.3
1915	...	155	42	48	2	5	252