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Contributors

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KNARESBOROUGH

Rural District Council.

MEDICAL OFFICER'S ANNUAL REPORT

For the Year ended December 31st, 1911.

*To the Chairman and Councillors of the Knaresborough Rural
District Council.*

GENTLEMEN,—

I have pleasure in laying before you my Thirteenth Annual Report as Medical Officer of Health for the Knaresborough Rural District, for the year ended December 31st, 1911.

The population of the district at the census 1911 was **Population.** 8,143. This is less than the estimated population for the previous year. As there have only been 19 houses built during the year the increase of population is slight. The estimated population up to the middle of 1911 is 8,200.

The number of births registered in the district during **Births.** the year was 184. This gives an annual birth rate of 22·4 per thousand of the estimated population. You will see that this is much higher than that of last year, viz., 18·7. This is due to the population of 1910 having been over-estimated. The birth rate for England and Wales for the same period was 24·4.

The number of deaths of residents in the district and **Deaths.** of residents in places outside the district, was 102. This

is 1 more than the previous year. The annual death rate for the year was 12·43 per thousand of the estimated population. This compares favourably with that for England and Wales, viz., 14·6.

Deaths under one year of age

The deaths in children under one year of age were 14 in number. One half of these were in premature and debilitated infants. Four were due to convulsions, one to phthisis, one to measles, and one to obstruction of the bowels. The infantile mortality for the year was 76 per thousand births registered. For England and Wales during the same period the infantile mortality was 130.

Causes of Death at all ages.

Between the ages of 1 and 5 the number of deaths was 10; between 5 and 15 there were 2; between 15 and 25 there was 1; between 25 and 65 there were 26; and over 65 there were 49 deaths. The principal causes of death were:—Heart Diseases, 14; Cancer, 5; Phthisis and other tubercular diseases, 5; Bronchitis, 4; Pneumonia, 3; Diarrhœa 3; Measles, Scarlet Fever, Diphtheria, Whooping Cough, and Influenza, one each.

Zymotic Diseases.

Zymotic diseases (Measles, Scarlet Fever, Diphtheria, Whooping Cough, and Diarrhœa) caused 7 deaths. This gives a zymotic death rate of 0·85 per thousand per annum of the estimated population. The zymotic death rate for England and Wales was 1·88, being more than double that of your district.

Cancer.

There were 5 deaths registered as due to Cancer. These cases occurred in the following parishes:—Pannal, 3; Scotton 1; and Scriven, 1.

Phthisis and other Tubercular Diseases.

Phthisis and other tubercular diseases caused 5 deaths. The number of deaths due to this cause in previous years was:—1902, 5; 1903, 9; 1904, 11; 1905, 14; 1906, 13; 1907, 14; 1908, 5; 1909, 10; and 1910, 8. The means adopted in the district to prevent the spread of this disease are:—The voluntary notification of Phthisis by the medical practitioner in attendance on the patient to the Medical

Officer of Health; the compulsory notification of the disease by District Medical Officers under the Poor Law to the Medical Officer of Health; the compulsory notification of patients in or attending public institutions; the distribution of leaflets (to cases notified) giving instructions to prevent the spread of the disease; the disinfection of rooms and clothes of patients after death; and the inspection of meat and milk supplies. During the year the Local Government Board have issued an Order making Tubercular Disease of the Lungs a notifiable disease. Three or four years ago I advised you to make this disease compulsorily notifiable. The Local Government Board refused your application. Their principal objection was that notification would involve publicity. In order to prevent this publicity and to avoid any annoyance to patients or their friends, the Local Government Board in their new Regulations say that "The Register to be kept by the Medical Officer of Health is to be open to inspection only by a person duly authorised by resolution of the Council, by the Medical Officer of Health for the County, by any School Medical Inspector acting within the area of the Sanitary Authority, and by Officers of the Local Government Board, and of the Board of Education."

Three deaths from Diarrhœa occurred during the year. **Diarrhœa.**
Two were in children over 2 years of age and one a child over 3 years.

The number of Infectious Diseases notified to me during the year was 24. In previous years the numbers were:—1904, 58; 1905, 36; 1906, 51; 1907, 32; 1908, 30; 1909, 18; and 1910, 13. They were as follows:—Scarlet Fever, 13; Diphtheria, 6; Enteric Fever, 2; Continued Fever, 1; and Erysipelas, 1. **Infectious Diseases Notified.**

Scarlet Fever occurred in the following parishes:—**Scarlet Fever.**
Pannal, 12; and Follifoot, 1. There were 7 different outbreaks of the disease, none of which could be traced

to any other. There was one death, all the other cases were of a mild nature.

Diphtheria Diphtheria occurred in the following parishes:— Pannal, 4; South Stainley, 1; and Knaresborough Outer, 1. The source of infection, except in the latter case (which was due to infection from a neighbouring district where the disease was prevalent at the time) was impossible to trace.

Enteric Fever. Two cases of Enteric Fever were notified, viz.:— 1 Nidd, and 1 Brearton. The source of infection was pollution of the same well by the river Nidd during the hot summer weather.

Whooping Cough. Whooping Cough was very prevalent during the year. The disease was generally of a mild nature; one death was due to this cause.

Measles. There were several outbreaks of Measles in different parts of the district, but on the whole the number of cases was small.

Small Pox. No case of Small Pox was notified during the year.

Sewage Disposal. Sewage Disposal Works and 1,400 yards of Sewer were completed during the year at Follifoot. In Pannal 820 yards of sewer have been laid. In Knaresborough Outer the completion of the sewerage of Forest Moor has been effected by the further addition of 620 yards of sewer. The most insanitary portion of your district (the Pannal end of Follifoot) still requires urgent attention. At Hampsthwaite the conditions are the same as in my previous reports. The sewage filters away to a great extent in its passage along the stone culvert (which constitutes the main sewer), and very little reaches the river except when it is in flood. The disposal of the sewerage at Goldsborough is being attended to by Lord Harewood's agent. This will remedy a serious pollution of the river. The remaining portions of the district which

require sanitation are Kettlesing, Burton Leonard, Brearton, Scotton, and Ferrensby. I am glad to say the insanitary areas of the district are being gradually dealt with.

A Supply of Water is needed at Hampsthwaite, Farnham, Scotton, Goldsborough, and Kettlesing. During the dry summer there was a great shortage of water in these villages. In Kettlesing the inhabitants had to resort to the water from the beck, which was more or less sewage. At Goldsborough the supply was not only short, but was very discoloured and impure. **Water Supply.**

There are 13 Slaughter Houses registered in the district. Your Meat Inspector has visited these places regularly. There were 14 seizures of unsound food made, viz. : Sheep, 5 ; livers, 12 ; parts of meat, 4. **Slaughter Houses.**

There are 80 Cowsheds registered in the district. These have been regularly inspected. A marked improvement has taken place during the last year in the cleanliness of the cowsheds and the milking. Many improvements in buildings have been effected, but there are many more requiring attention. **Cowsheds.**

Under the Housing (Inspection of District) Regulations 750 houses have been inspected during the year. In addition to these 305 other house-inspections have been made. The inspection of dwelling-houses was to determine the state of the dwelling-house in relation to the following matters, namely :—(1) The arrangements for preventing the contamination of the water supply. (2) Closet accommodation. (3) Drainage. (4) The condition of the dwelling-house in regard to light, the free circulation of air, dampness, and cleanliness. (5) The paving, drainage, and sanitary condition of any yard or out-houses belonging to or occupied with the dwelling-house. (6) The arrangements for the deposit of refuse and ashes. (7) The existence of any room which is so dangerous or injurious to health as to be unfit for habitation. (8) Any **Housing.**

defects in other matters which may tend to render the dwelling-house dangerous or injurious to the health of the inhabitant.

During the inspection numerous defects were found under these different heads. These have in the great majority of cases been readily dealt with by the owners of the property. The number of houses represented as unfit for habitation was 11, but no closing order was made. There does not appear to be any scarcity of houses in the district, and no cases of overcrowding of persons in houses has been found.

**Factories
and
Workshops**

The number of Factories and Workshops in the district is 72, viz.: Factories (including Factory Laundries) 17; Workplaces (including Workshop Laundries), 12; Domestic Workshops, 5; Retail Bakehouses, 2; and other Workshops, 36.

**Sanitation
of
Workshops**

No defect of Sanitation of Workshops as regards cleanliness, air space, ventilation, or drainage of wet floors was found.

**Retail
Bake
Houses.**

There are 2 Retail Bakehouses in the district. These comply with the Factories and Workshops Act as regards closets, drains, water cisterns of w.c.'s, sleeping places, and limewashing.

**Under-
ground
Bak'houses
Home
Work.**

There are no Underground Bakehouses in the district. There is no "Home Work" in the district within the meaning of the Factories and Workshops Act.

I am pleased to be again able to place such a favourable report before you.

I have the honour, Gentlemen, to remain,

Your obedient Servant,

W. J. FORBES,

Medical Officer of Health.

April 25th, 1911.

TABLE I.

Vital Statistics of Whole District during 1911 and previous years.

| YEAR. | BIRTHS. | | | TOTAL DEATHS REGISTERED IN THE DISTRICT. | | TRANSFERABLE DEATHS. | | NETT DEATHS BELONGING TO THE DISTRICT. | | | NOTIFIABLE DISEASE. | NO. OF CASES NOTIFIED. | | | | | Total Cases removed to Hospital. | |
|-------|------------------|-------|-------|--|-------|---------------------------------|--|--|----------------------------|--------------|---------------------|--|----------------|-------|--------|---------|----------------------------------|----------|
| | Uncor-rected No. | Nett. | | No. | Rate. | No. registered in the District. | of Residents not registered in the District. | Under 1 Year of Age. | | At all Ages. | | At all ages. | At Ages—Years. | | | | | |
| | | No. | Rate. | | | | | No. | Rate per 1000 Nett Births. | | | | No. | Rate. | 1 to 5 | 5 to 15 | | 15 to 25 |
| 1. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | | | | | | | |
| 1906 | 253 | ... | 27.9 | 112 | 12.35 | 8 | 2 | 17 | 67.1 | 106 | 11.69 | Small-pox | ... | ... | ... | ... | ... | |
| 1907 | 185 | .. | 20.0 | 112 | 12.13 | 9 | 3 | 11 | 59.4 | 106 | 11.48 | Cholera | ... | ... | ... | ... | ... | |
| 1908 | 209 | ... | 22.2 | 115 | 12.24 | 3 | 5 | 16 | 76.5 | 117 | 12.46 | Diphtheria (in-cluding Mem. Croup) | 6 | 3 | ... | ... | 3 | |
| 1909 | 192 | ... | 19.9 | 89 | 9.23 | 1 | 3 | 19 | 98.9 | 91 | 9.45 | Erysipelas | 1 | ... | ... | ... | 1 | |
| 1910 | 183 | ... | 18.7 | 98 | 10.00 | 2 | 5 | 15 | 81.9 | 101 | 10.35 | Scarlet Fever | 13 | 1 | 10 | 2 | ... | |
| 1911 | 183 | 184 | 22.4 | 102 | 12.43 | 9 | 9 | 14 | 76.0 | 102 | 12.43 | Typhus Fever | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Enteric Fever | 2 | ... | ... | ... | ... | |
| | | | | | | | | | | | | Relapsing Fever | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Contin'd Fever | 1 | ... | ... | ... | ... | |
| | | | | | | | | | | | | Puerperal fever | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Plague | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Phthisis— | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Under Tuberculosis | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Regulations, 1908 | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Under Tuberculosis | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Regulations, 1911 | ... | ... | ... | ... | ... | |
| | | | | | | | | | | | | Others | 1 | ... | ... | ... | 1 | |
| | | | | | | | | | | | | Totals | 24 | 4 | 14 | 2 | 1 | 3 |

Area of District in acres (exclusive of area covered by water), 37,495. Total population at all ages—8,143. Number of inhabited houses, 1809. Average number of persons per house, 4.5. (At census of 1911). Isolation Hospital—Harrogate and Knaresborough joint, Forest Moor. Total available beds, 50. Number of Diseases that can be concurrently treated, 3. Institutions outside the District receiving sick and infirm persons from the district—W.R. Lunatic Asylums; Leeds Infirmary.

The Union Workhouse is not within the district.

TABLE II.
Infectious Diseases notified during 1911.

TABLE III.

Knarborough Rural District.

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

| CAUSES OF DEATH. | Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District. | | | | | | | | | | Total Deaths in Public Institutions in 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 and upwards | | |
| All causes | 102 | 14 | 3 | 7 | 2 | 1 | 16 | 10 | 49 | 5 | |
| Measles | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | |
| Scarlet Fever | 1 | ... | ... | ... | 1 | ... | ... | ... | ... | 1 | |
| Whooping Cough | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | |
| Diphtheria and Croup | 1 | ... | ... | 1 | ... | ... | ... | ... | ... | 3 | |
| Influenza | 1 | ... | ... | ... | ... | ... | ... | ... | 1 | ... | |
| Phthisis Pulmonary Tuberculosis | 3 | 1 | ... | ... | ... | ... | ... | 2 | ... | ... | |
| Other Tuberculous Diseases ... | 2 | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | |
| Cancer, malignant disease ... | 5 | ... | ... | ... | .. | ... | 1 | ... | 4 | ... | |
| Bronchitis | 4 | ... | ... | ... | ... | ... | ... | ... | 4 | ... | |
| Pneumonia | 3 | ... | ... | .. | ... | ... | 2 | ... | 1 | ... | |
| Diarrhoea and Enteritis | 3 | ... | ... | 3 | ... | ... | ... | ... | ... | ... | |
| Cirrhosis of Liver | 2 | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | |
| Nephritis and Bright's Disease | 4 | ... | ... | ... | ... | ... | 1 | 1 | 2 | 1 | |
| Parturition Diseases, &c. ... | 1 | ... | .. | ... | ... | ... | 1 | ... | ... | ... | |
| Congenital and Premature Birth | 7 | 7 | ... | ... | ... | ... | ... | ... | ... | ... | |
| Violent Deaths | 2 | ... | ... | 1 | ... | ... | 1 | ... | ... | ... | |
| Suicides | 6 | ... | ... | ... | ... | ... | 4 | 1 | 1 | ... | |
| Organic Heart Diseases ... | 14 | ... | .. | .. | 1 | ... | 1 | 2 | 10 | ... | |
| Other Defined Diseases... .. | 41 | 5 | 1 | 2 | ... | ... | 5 | 3 | 25 | ... | |

TABLE IV.

KNARESBOROUGH RURAL DISTRICT.

INFANTILE MORTALITY DURING THE YEAR 1911.

Nett Deaths from stated causes at various ages under 1 year of age.

| CAUSE OF DEATH. | Under 1 week. | 1-2 weeks. | 2-3 weeks. | 3-4 weeks. | Total under 1 month. | 1-3 months. | 3-6 months. | 6-9 months. | 9-12 months. | Total Deaths under One Year. |
|---------------------------------|---------------|------------|------------|------------|----------------------|-------------|-------------|-------------|--------------|------------------------------|
| All Causes— | | | | | | | | | | |
| { Certified..... | 8 | 1 | ... | ... | 9 | ... | 1 | 3 | 1 | 14 |
| { Uncertified | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Measles | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | 1 |
| Phthisis | .. | .. | .. | .. | .. | .. | .. | 1 | .. | 1 |
| Premature Birth | 3 | .. | .. | .. | 3 | .. | .. | .. | .. | 3 |
| Atrophy, Debility, Marasmus ... | 4 | .. | .. | .. | 4 | .. | .. | .. | .. | 4 |
| Convulsions | 1 | 1 | .. | .. | 2 | .. | 1 | 1 | .. | 4 |
| Other causes | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 |

Nett Births in the year, 184. Nett Deaths in the year of Infants, 14.

TABLE C.

Medical Officer of Health.—W. J. FORBES, M.B., B.Ch., B.A.O.

Sanitary Inspector \ — WILLIAM LUPTON.
Building Surveyor /

WATER SUPPLY—

In what parts is there a piped supply laid on?—Pannal, Follifoot, Plompton, Knaresborough Outer, Scriven, Burton Leonard, Ripley, Killinghall, Bilton, and Starbeck.

Any developments during 1911?—No.

Any insufficiency, and where?—Hampsthwaite, Farnham, Kettlesing, Scotton, and Goldsborough.

Any curtailment during drought?—No.

Any unsatisfactory quality, and where?—No.

Any unchecked plumbo solvent action?—No.

DRAINAGE AND SEWERAGE—

Pannal and Starbeck into Harrogate Sewers; Knaresborough Outer into Knaresborough Sewers; Scriven, Farnham, Ripley, Killinghall, and Follifoot into works; Hampsthwaite and Goldsborough into rivers.

Any developments during 1911?—Follifoot village, 1400 yards; Pannal, 820 yards; and Knaresborough Outer, 620 yards.

Developments still needed?—Kettlesing, Scotton, Brearton, Ferrensby.

Any inadequacy of Sewage Disposal* Works or complaints as to smells?—As previous question.

No. of sink-wastes disconnected during 1911?—2. Trapped—9.

CLOSET ACCOMMODATION—

No of Privies with open or covered middens?—1427.

No. of Pail or Tub Closets?—Very few.

No. of Water Closets?—520.

No. of Closets re-constructed during 1911?—(a) as w.c.'s, 17; (b) other, 7.

No. of Additional Closets newly constructed for old property in 1911 (a) w.c.'s, 3; (b) other, 3 pail.

No. of Closets constructed in 1911 for new houses (a) w.c.'s, 18; (b) other, 1 privy.

SCAVENGING—

In what parts do the Council undertake public scavenging?

(a) By Sanitary Staff?—None.

(b) By Contractors?—None.

Is there any inadequacy, and where?—Knaresborough Outer, Pannal, and Killinghall.

NUISANCE INSPECTION—

Total No. of inspections made in 1911?—990.

Informal notices served—179. Complied with—161.

Statutory notices served—12. Complied with—2.

Total No. of Nuisances in hand at close of 1910—13. At close of 1911—41.

Total No. of Nuisances reported during 1911—215. Abated during 1911—187.

Total No. of summonses or other legal proceedings.—None.

Knackers' Yards (Fellmongers)—2.

Inspections made?—Numerous.

General condition?—One frequently unsatisfactory.

Legal proceedings (if any)?—None.

Have the Council declared any other processes to be offensive trades, *e.g.*, Fish-frying, Maggot-breeding, &c.?—No.

SCHOOLS—

No. of visits to Schools.—6.

Action taken.—Schools closed.

MILK SUPPLY—

No. of samples taken by officers of S.A. for analysis under F. and D. Acts—3. No. adulterated—None.

No. of samples taken by officers of S.A. for bacteriological examination.—2.

What arrangement for Veterinary Inspection of dairy cows?—None.

Any instance of disease attributed to milk in 1911?—No.

No. of cowkeepers in district—74. No. registered—74.

No. of milk sellers—49. No. registered—49.

Total No. of cowsheds—80. No. of inspections in 1911—102.

MILK SUPPLY.—*Continued.*

- General condition?—Fairly good.
 Approximate No. of milch cows in district.—1,100.
 Any insufficiency in milk supply?—No.
 Legal proceedings under D.C.M. orders?—None.
 Any inspection or other action by districts to which milk is sent?—No.

OTHER FOODS—

- No. of samples (other than milk) taken by officer of S.A. for examination under the Food and Drugs Acts.—None.
 No. of seizures of unsound food.—14.
 Kind and quantity.—5 sheep, 12 livers, and 4 parts of meat.
 No. of prosecutions.—None.
 No. of slaughter-houses—13. No. registered—10. Kind and condition—Private; good.
 No. of prosecutions (*a*) Food and Drugs—None. (*b*) Unsound food—None. (*c*) *re* Slaughter-houses—None.

HOUSING—

- Is there any scarcity of houses, and where?—No.
 Any overcrowding of persons in houses?—No.
 Any special activity in house building, and where?—No.
 No. of new houses built in 1911.—19.
 General character?—Residential, 8; cottages, 9.
 Are there any working class dwellings erected by the S.A.?—No.
 Any Town Planning Scheme contemplated?—No.
 Who has been designated as the Inspecting Officer under Article II. of the Housing Regulations, 1910?—Sanitary Inspector.
 No. of houses inspected during 1911—(*a*) Statutory (house to house)—750. (*b*) Other house inspections—305. Total—1,055.
 No. of notices served as result of house inspections.—30.
 Legal proceedings.—None.
 Are the records regularly submitted to the S.A. at each ordinary meeting?—Yes.

HOUSING.—*Continued.*

- No. of houses represented as unfit for habitation?—11.
 No. dealt with by Closing Order.—None.
 Any compulsory demolition?—No.
 Are there still any occupied houses unfit for habitation, and where?—Inspections proceeding.
 Any cellar dwellings?—No.

FACTORIES AND WORKSHOPS—

- Any smoke nuisance, and where?—No.
 No. of smoke observations taken.—None.
 Legal notices.—None.
 Summonses.—None.
 Inspections.—72.
 Defects found.—None.
 Home Work.—None.
 No. of Factories (including Factory Laundries)—17.
 No. of Workplaces (including Workshop Laundries)—12.
 No. of Domestic Workshops—5.
 No. of Retail Bakehouses—2.
 No. of other Workshops—36.
 Total No. of Workshops on Register—72.

ADOPTIVE ACTS—

- What parts or sections of the following Acts are in force in the district:—
 Public Health Act Amendment Act, 1890?—Part 3, Sec. 50, whole district, 1897.
 Public Health Acts Amendment Act, 1907?—Application being made.
 Infectious Disease Prevention Act, 1890?—No.
 Notification of Births Act, 1907?—No.
 Private Street Works Act, 1892?—No.

BY-LAWS AND REGULATIONS.—Date of the current By-Laws in each case.—Private Scavenging, 30th August, 1879. Prevention of Nuisances, 20th August, 1879. Common Lodging Houses, 20th August, 1879. Houses let in Lodgings, None. Offensive Trades, None. Mortuaries, None. New Streets and Buildings (P.H. Act, 1875), 29th June, 1898. Slaughter Houses, 30th August, 1879. Regulations under Dairies, Cowsheds, and Milkshops Order, May, 1887; amended April, 1911. Does the M.O.H. possess a printed copy of each of the By-Laws which are operative?—Yes.

INFECTIOUS AND OTHER DISEASES—

What diseases have been specially prevalent in 1911?—

Whooping cough.

What special action to combat same?—School closure.

Is hospital accommodation adequate and sufficient?—Yes.

What arrangements for the supply of antitoxin?—M.O.H. keeps stock.

Any diseases specially added to notifiable list?—No.

Any influences threatening the health of the district?—No.

SPECIAL REPORTS AND INVESTIGATIONS—

Any subjects which have been specially investigated and reported on during the year?—None.

TUBERCULOSIS.—Particulars as to Institutional Treatment of Phthisis.

Any sanitary inspection of patient's houses?—Yes.

Any disinfection?—Yes.

Any distribution of advice?—Yes.

Any action *re* spitting?—No.

Any disinfection of public rooms, vehicles, &c.?—No.

INFANT MORTALITY—

What organised effort to control it?—Distribution of leaflets to parents of each child registered.

Is Health Visitor appointed by S.A.?—No.

By other body?—No.

Causes of any excessive infant mortality in 1911.—None.

VITAL STATISTICS—

Births during 1911—Males, 102; Females, 82; total, 184.

No. illegitimate included in above.—No information.

No. of Still Births (not included).—No information.

Deaths during 1911—(1) Gross Deaths, *i.e.*, total actually registered in the district without any correction, 102.

(2) Nett Deaths on which the rates are calculated (Males 53, Females 49), 102.

No. of uncertified deaths (included above).—None.

MISCELLANEOUS—

What Mortuary accommodation?

(a) For accidents?—None.

(b) For infectious cases?—Isolation Hospital.

No. of Burial Grounds.—14.

Any need for extension?—No.

Are there any Maggot breeding establishments in district?—
No.

Any nuisance therefrom or action in relation thereto?—No.

SANITARY STAFF—

What is the present annual salary of the M.O.H.?—£100.

Does the above include any recent increase in respect of added work?—No.

Amount of such increase?—None.

Name of Sanitary Inspector.—William Lupton; salary, £120.

Other appointments held—Surveyor; salary for such other appointments, £65.

Any assistants?—Meat Inspector and Surveyor.

Is staff sufficient?—Yes.

PHTHISIS: SANATORIUM AND HOSPITAL
ACCOMMODATION—

Have the Council, or any Private Body, provided a Dispensary?—No.

SUPPLEMENTARY REMARKS.—See body of report.

Other Matters.—None.



The first part of the paper is devoted to a general
 discussion of the problem. It is shown that the
 problem is equivalent to the problem of finding
 a function which satisfies certain conditions.
 The second part of the paper is devoted to the
 construction of such a function. It is shown that
 such a function exists and is unique. The third
 part of the paper is devoted to the study of the
 properties of this function. It is shown that
 the function is continuous and differentiable.
 The fourth part of the paper is devoted to the
 study of the asymptotic behavior of the function.
 It is shown that the function approaches a certain
 limit as the independent variable approaches
 infinity. The fifth part of the paper is devoted
 to the study of the numerical values of the
 function. It is shown that the function takes
 on a wide range of values. The sixth part of
 the paper is devoted to the study of the
 applications of the function. It is shown that
 the function has many important applications
 in various branches of science and engineering.