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Cockermouth Rural District Council.

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH, JOHN PENNY, D.Sc., M.B., F.R.S.E.

For the Year 1909.

Together with the Summary of Work of the

COCKERMOUTH:
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1910.

COCKERMOUTH RURAL DISTRICT.

TO THE CHAIRMAN AND MEMBERS OF THE RURAL DISTRICT COUNCIL.

Gentlemen,

The time has again arrived for my submitting to you my Annual Report as Medical Officer of Health for the Cockermouth Rural District. This Report giving an account of the public health of the District during the year 1909, the incidence of infectious disease in different parts of the District, the measures taken to prevent the spread of disease and to improve the sanitary conditions of the District, with the usual tables showing the comparison of the birth-rate and death-rates at different ages, and from different causes, during the year, is the Third Annual Report I have made, as Medical Officer of Health, of the Cockermouth Rural District.

The year has been an exceptionally wet one and the mean temperature was below the average. I think these conditions are in some measure responsible for the marked decrease in the infantile mortality, and on the whole, however, notwithstanding the damp, does it appear to have had any marked effect upon the General Death-rate.

The following is a statistical summary of the birth and deathrates for the year compared with the rates for England and Wales, for the years 1909 and 1908.

Rates calculated per 1000 of the population :-

	Cockermouth Rural	England	and Wales
	1909.	1909.	1908.
Birth-rate	30.11	25.6	26.5
Corrected Death-rate	13.57	14.2	14.7
Infantile Mortality	*62	*109	*120
Zymotic Death-rate	.58	1.13	1.34
Phthisis Death-rate	.80	_	1.112
Cancer Death-rate	'94		.923

(Note: *These figures are per 1000 births and not per 1000 of the population.)

In conclusion I wish to express my indebtedness to G. S. Wilson, Esq. (Broughton Grange), for furnishing me with the rainfall report included among the tables annexed to this report; and also to record my thanks to the Clerk, the Inspector of Nuisances, the Members of the Sanitary Committee, and the District Council for their kindness and support throughout the year.

I have the honour to be, Gentlemen,

Your obedient servant,

JOHN PENNY.

REPORT.

The area of the district in statute acres (exclusive of area covered by water) is 158, 113'464.

Area,

Physical Features.

The district presents a great diversity of surface as from its central position and extensive area it commands the most magnificent mountain, lake and river scenery of any in the County of Cumberland. It extends from Threlkeld Granite Quarries to the Solway near Allonby, and from Dunmail Raise to Distington. The drainage of the District is mainly accomplished by means of the River Derwent and its tributaries, the Greta, Bloomer, Cocker and Marron. The Derwent rises near Scawfell Pikes and flows in a northerly direction through the Borrowdale valley into the southern end of Derwentwater. scale, about one mile west of Keswick, it leaves the lake and receives the water from the Greta (which has its source in Scales Tarn lying at the foot of a perpendicular rock on Saddleback), and into which St. John's Beck discharges after flowing from Lake Thirlmere through St. Johns-in-the-Vale. Three miles north west of Keswick the Derwent enters Bassenthwaite Lake, and after flowing through this expansive sheet of water leaves it at the opposite end near Ouse Bridge where it continues its tortuous and picturesque course in a westerly and south westerly direction to Isel to receive the water from a tributary (Bloomer), draining the Bewaldeth district after which it flows to Cockermouth, where it is joined by the Cocker which drains the lakes of Buttermere, Crummock and Loweswater through the vale of Lorton, afterwards flowing in a westerly direction for about five miles to take the water from the Marron and to continue its journey to Workington where it discharges into the Irish Sea.

Another river, the Ellen, which has its source in Overwater partly forms the boundary on the north side between the Rural District of Cockermouth and Wigton and eventually flows into the Solway at Maryport.

The principal industry is agriculture although a certain Chief Occupapercentage work at the coalmines and quarries.

Chief Occupation of the Inhabitants.

Beneath the red marl of the western district coal is found. Appertaining to the Whitehaven coalfield some of the local seams extend for three or four miles under the sea. Whence collieries proceed along the coast past Harrington, Workington, Flimby, Broughton Moor, Maryport and extend inland to Aspatria and Mealsgate.

Limestone is abundant in many localities and slate of excellent quality is found at Borrowdale and at the extensive quarries high up on Honister Craggs.

Climate

The climate is variable, as in the mountainous localities it is ofter wet and piercing cold, while the lowlands possess a mild temperature. The prevailing winds are from south west and being charged with moisture discharge a heavy rainfall.

Plans

Plans for New Buildings approved in 1909.

PARISH		New Build'gs (Houses)	Addi- tions	Stables, Farm Buildings, etc., etc.
Borrowdale		1	2	***
Braithwaite		I	3	Slaughter House
Bridekirk			I	
Broughton Moor		I		***
Bullgill		2	3	
Buttermere			I	
Camerton			1	
Dearham		7	2	
Embleton		1	4	***
Flimby			2	
Goat			1	Fire Escape at Mill
Great Broughton		1	I	
Greengill				Enlargement of Farm Buildings
Greysouthen				Bathroom and Watercloset
Oughterside			7	
Plumbland			I	Washhouse
Portinscale		2		***
Prospect		1		
Rogerscale				Farm buildings
Seaton		12		
Stainburn				New Byres
St. John's				Large Holiday Encampment and Farm Buildings
Thornthwaite			1	Watercloset
Workington Rura		2		

Population.

According to the 1901 census the population of this district was 21,690.

The estimated population 22,250 upon which all these statistics is based, is for the whole district.

Birth rate.

There were registered throughout the entire district 670 births (355 males and 315 females) and of these 32 (17 males and 15 females) were illegitimate. The rate for the year 3011 is slightly higher than the average for the past ten years. The highest rate was recorded in 1901 (313 per 1,000 population) and the lowest (271) in 1898.

The percentage of illegitimate to total births is 4.7 as compared with 4.3 the rate for 1908.

The birth rate for England and Wales for 1909 was 25.6.

Death rate from all causes.

The deaths actually registered in the district were 282 or thirty less than the average for the previous ten years, and the death rate from this uncorrected figure would be 12.67 per 1000 persons living. To get anything like a correct death rate various corrections must be made. these 282 registered deaths three were of persons who did not belong to the district. These deaths therefore have to be deducted. On the other hand there are no less than 23 deaths to be added since this number of persons who belonged to the district died in the Cockermouth Workhouse; Cumberland Infirmary; Maryport Cottage Hospital; Cockermouth Nursing Home; Wigton Workhouse; Garlands Asylum; Royal Infirmary, Liverpool; Mill Road Infirmary, Liverpool; and Crichton Royal Institution, Dumfries. We then get the approximate number of deaths to be 302 which gives a death rate of 13.57 per 1000. The rate for 1908 was 16.61. The average for the ten years 1899-1908, was 14'1

The corrected death rate for England and Wales for 1909 was 14'5 per 1,000.

One hundred and seven is the number of persons who died who had attained the age of sixty-five years and upwards which give a senile death rate of 32.11 per cent. of the total deaths against 26.28 per cent. for 1908.

Senile death rate.

The following table gives the age at death :-

Year.	At all ages.	Under 1 Year.	1-5.	5-15.	15-25	25-65	Over 65.
1909	302	62	14	11	15	93	107
1908	369	103	32	13	26	97	98
1907	356	74	20	10	12	102	138
1906	309	77	23	9	17	85	98
1905	337	90	39	12	17	76	103
1904	298	88	33	7	11	76	83
1903	314	76	13	II	15	82	117
1902	293	77	21	II	14	76	94
1901	322	84	37	10	10	88	93
1900	290	65	30	8	II	87	89

The above figures show a decrease of forty-one under one year; eighteen under five; two under fitteen; eleven under twenty-five; four under sixty-five; and an increase of nine over sixty-five years as compared with 1908.

During the year eleven inquests were held.

The number of uncertified deaths was nine.

Infantile Mortality. There were sixty two deaths among infants under one year of age. This shows a decrease of forty one on last year's totals. The average number of deaths for the ten years 1899-1908 was eighty one.

The infantile mortality for the year is equal to 92 per 1000 births. The average for the ten years 1899-1908 is 127.

The rates for the past six years are as follows :-

1909	1908	1907	1906	1905	1904
92	172	117	120	147	136

Table V shows the causes of death amongst infants.

Notification of Births Act.

The Council have decided not to adopt this Act.

Cancer rate

Cancer proved fatal in twenty one cases with a rate of 194 per 1000 of the population, as compared with 1.17 per 1000 in the preceding year.

Number of deaths each year from cancer.

Tuberculosis Phthisis. There were eighteen deaths registered as being due to phthisis. Besides the above, nine deaths were assigned to other forms of tubercular diseases. The following table gives the age at death:—

	At all	Under					Over
Year.	Ages.	1 Year	1-5	5-15	15-25	25-65	65
1909	18			I	4	II	2
1908	8			I	3	4	
1907	21				2	17	2
1906	16			3	6	. 7	
1905	14		1	I	4	8	
1904	13			I	2	9	I
1903	II			1	4	6	
1902	13			3	2	6	2
1901	I 2				I	10	I
1900	9			I	2	6	IT

The death-rate from consumption is equal to 0.8 per 1000 of the population. That for 1908 was 0.36 per 1000. This is one of the principal causes of death, and the most important, since it is preventable. It is therefore worth considering whether anything more can be done than is already done, towards preventing the spread of this disease. Before we can decide upon the most efficient mode of procedure it is necessary that we should have an accurate knowledge of the factors which cause its spread and of their relative importance. These are:—

- 1. Hereditary predisposition.
- 2. Infection from sputa, or from other excretal matters.
- Overcrowding and insanitary conditions.
- 4. The use of milk from tuberculous cows.
- 5. The use of flesh of tuberculous cows.

The most recent statistical enquiries strongly indicate that hereditary predisposition is by far the most important factor. The next in order of importance is infection from person to person, through sputa, dissipation of particles by coughing, or of dust from the dried sputum. The part played by flesh and milk may in the aggregate be large, but in comparison with the other factors it is small. Overcrowding, etc., probably never cause phthisis in the absence of the factors 1, 2, 4, 5, but in the presence of any of these, insanitary conditions aid greatly the spread of infection.

To arrest the ravages of the disease, therefore, it is most important that consumptives should not marry. If marriage of consumptives could be prevented the next generation would contain few members with the consumptive tendency, and the death-rate from the disease would drop suddenly and most markedly. As a Sanitary Authority this is beyond your control, and all I can do as your Medical Officer is to make the fact of the importance of this hereditary tendency as widely known as possible, in the hope that it may affect the conduct of some members of the community by dissuading them from marriage if consumptive, or from marrying into a family with a consumptive taint.

The next factor of importance is that of personal infection.

The spread of the disease could be arrested if every consumptive person could be thoroughly isolated, but this

is impossible. A consumptive can, however, be taught how to dispose of his sputum and how to comport himself so as to reduce very greatly the risk of infecting others. This can best be done by residence for a period in a Sanatorium. When thus educated isolation may be dispensed with, but it is very advisable in the advanced stage, where the cough is troublesome, and the amount of sputum raised excessive. Unfortunately, there is no public institution in the county for the reception of advanced cases. (The Guardians for the Cockermouth Union are discussing the question of erecting shelters at the Workhouse, but the situation where they contemplate placing the same, in my opinion, will be a danger to the residents of property near.)

Naturally, personal infection is much more likely to take place in cottages, especially when only provided with casement windows, and if overcrowded. By preventing these some benefits must accrue.

The Zymotic Death rate,

The zymotic death-rate is calculated from the number of deaths due to the seven principal zymotic diseases. The following table gives them and the deaths recorded from each:—

Smallpox		 	0
Measles		 	0
Whooping	Cough	 	4
Diphtheria Membrane		 	4
Scarlet Fe	ver	 	2
	Typhus	 	0
Fevers	Enteric	 	I
	Continued	 	0
Diarrhoea		 	2
		Total	13

The zymotic death-rate for the year is equal to 0.58 per 1000 of the estimated population as compared with 1.39 per 1000 in 1908. The rate for England and Wales for 1909 was 1.12 per 1000.

Smallpox.

Not a single case was notified during the year. A public enquiry was held in the Carnegie Free Library, Workington, under the presidency of E. P. Manby, Esq., M.D., a Medical Inspector of the Local Government Board, at 11 a.m. on the 5th August, 1909, with reference to an application for sanction to borrow £3,500 for the purchase

of ground and erection of a Smallpox Hospital at Broughton Moor, for the Joint Smallpox Hospital Board. After the enquiry the site was visited, where it was found not to conform to the requirements laid down in the memorandum of the Local Government Board for such institutions. The erection of such a hospital should be pushed forward with as little delay as possible, so as to be ready to combat and prevent an epidemic of this dire scourge, should the infection be imported into this district. The large percentage of unvaccinated children renders this all the more urgent.

Under the Infectious Diseases (Notification) Act, 1889, Notifiable Zyone hundred and forty cases of infectious diseases were notified during the year, or thirty six more than in 1908.

The following table gives the number of notifications during each month of 1909.

Monthly Notifications.

1909.		Smallpox	Diphtheria and Membranous Croup	Enteric Fever	Puerperal Fever	Scarlet Fever	Erysipelas	Totals
January			8	I		I	3	13
February			I			9		10
March			7			3	1	II
April								
May			I	2		2	I	6
June						2		2
July			I			18	I	20
August			5			4		9
September			4			4 8	2	14
October						16	2	18
November			7			11	I	19
December			. 2	1		12	3	18
Total			36	4		86	14	140

From these diseases there were seven deaths, viz :-

Diphtheria, four; Enteric Fever, one; and Scarlet Fever, two.

The next table shows how these Infectious Diseases notified were distributed.

DISTRICT.		Diphtheria	Enteric Fever	Puerperal Fever	Scarlet Fever	Erysipelas	Totals
(a). Keswick Rural. Bassenthwaite		I					I
Borrowdale					I	I	2
		ī				1	3
(b). Cockermouth Rural.							
Sunderland			· .		2	I	3
Wythop		I					I
Great Broughton		2				I	3
Lorton		10					10
Tallentire					I 2		12
Dovenby					8		8
Isel		I			4		5
Thackthwaite	٠.				1		1
Brigham Goat		2					2 I
Greysouthen						I 2	2
Greysouthen							
		16			27	5	48
(c). Workington Rural.							
Seaton		4	1		39	I	45
Great Clifton		2	I			2	5
Branthwaite					I		I
Workington Rural		I					I
Little Clifton			1				1
Stainburn			. ,		I		I
		7	- 3		41	3	54
(d). MARYPORT RURAL							-
Bothel						1	I
*Flimby		3			9	I	13
Parsonby						1	I
Dearham					4	I	5
Arkleby		2			1		5 3 5 5 1
Plumbland		5					5
Oughterside		2			3		5
Broughton Moor			I			:	I
Crosby Villa						1	1
		12	I		17	5	35

The following table shows the number of notifications for the past five years:—

DISEASES.		1909	1908	1907	1906	1905.
Smallpox						
Diphtheria and Membranous Croup	}	36	18	19	17	7
Enteric Fever		4	15	9	5	6
Puerperal Fever			1			I
Scarlet Fever		86	58	61	205	155
Erysipelas		14	12	9	12	8
Totals		140	104	98	239	177

STEPS TAKEN TO PREVENT THE SPREAD OF INFECTIOUS DISEASE.

No one who has not been engaged in public health work can have any idea as to the frequency with which slight attacks of scarlet fever and diphtheria are overlooked by the parents. A child has a sore throat, with perhaps some sickness, and the glands of the neck become swollen. He is kept indoors for a day or two. If he gets obviously worse, a medical practitioner is summoned on the third or fourth day: if the disease happens to be diphtheria of a severe type, the delay is too great for treatment to be of much benefit, and it is in this way that most of the fatal cases arise. If the child improves the parents conclude that it cannot possibly be diphtheria, and in a week or so the child returns to school. Unfortunately the infection may last from a fortnight to six months even after the slightest of attacks.

The same mode of procedure is true (though to perhaps a lesser extent) with scarlet fever; the rash can easily be missed since it is often transient. On the receipt of a notification, the house is visited as soon as possible, particulars as to the source of infection, milk supply, school attended, drainage, etc. obtained; and in cases of scarlet fever necessary arrangements made for the removal of the patient to the Isolation Hospital, at Broughton Moor. The medical attendant generally answers the special question on your notification form "if the case is one of scarlet fever, is the patient fit to be removed to the Fever Hospital"? a step which greatly facilitates their early removal. After removal, or on recovery, should the patient be treated at home, the infected rooms and bedding are fumigated, and sprayed with formalin.

All the other children in an infected house are forbidden to attend school during the requisite quarantine period either after the removal to the hospital of the sufferer, or after their convalescence when treated at home. Such instructions are also given with reference to the attending of public places and Sunday schools.

Where a day school is closed for an infectious disease I also ask the Superintendents to close the Sunday schools, as the children who attend these do not correspond to the day schools, and the children belonging to the closed school would probably continue to attend Sunday school and so transfer the infection to children from other day schools.

Diphtheria.

The increased prevalence of Diphtheria still continues, and during the year thirty-six cases were recorded which is the largest on record. Except for milk-borne epidemics from which we have for the present been free, diphtheria is almost invariably conveyed from person to person. Apart from its transmission from an obvious case of the disease to an attendant or other member of the household the commonest sources of infection are:—

- (1.) Slight ordinary attacks of the disease thought to be some other complaint.
- (2.) Attacks confined to the nasal passages without producing much constitutional disturbance.
- (3.) Carrier Cases, i.e., persons who harbour the diphtheria bacilli in their throats, yet do not appear to be at all affected, or are so slightly affected that their condition would never be suspected were not bacteriological examinations made.

(These "carrier" cases are not limited to diphtheria but it seems probable that they are the chief cause of the spread of scarlet fever and even of typhoid fever.)

(4.) Attacks originating in the course of scarlet fever, but being of a sufficiently indefinite type to be readily overlooked.

In January four cases were notified from Seaton, but nothing of an insanitary nature was noticed on inspecting the premises.

A case was notified on January 12th, 1909, of a boy aged ten years and two months residing at Bassenthwaite. His illness dated back as far as November 11th, 1908. The district nurse was called in on 16th November, who pronounced the case as an ordinary sore throat. No

medical practitioner was summoned. The sufferer was confined to the house for a few days, and was away from school fourteen days. During the Christmas holidays it was noticed that he spoke with a "nasal twang," and when drinking liquids they returned through his nostrils, also that his eyes were affected and he could not read without the aid of a pair of his parents spectacles. On 7th January he was taken to a medical practitioner in Keswick who informed them he was suffering from post-diphtheric paralysis.

A case from Great Clifton in a married woman aged 44 was reported. Here a large number of hens were penned at the gable end of the dwelling.

At Great Broughton a case occurred in a girl aged eight. In August, 1907, another member of the same family suffered from the same disease. The house is a very old one and the spouting at the back of the building was defective.

The last case notified in January was in a girl aged years, residing at Bassenthwaite Lake Station. Was at school the day the illness commenced. The washhouse and boiler is close to a midden privy, the roof of the latter being defective.

A notification was received on 27th February, of a fatal case of membranous croup at Concrete Cottages, Great Clifton. The little sufferer aged two years and six months commenced on 24th February and died on the 26th February. The midden privy was in an insanitary condition.

A mild case occurred in a boy aged seven years and eight months, residing at Great Broughton.

A little delay was caused by the medical practitioner not knowing in whose district this house was situated and his sending the notification to the medical officer of health for the borough. On 16th March, 1909, the notification and bacteriological report were received stating that a boy aged three years and nine months residing at a house in Workington (Rural), was suffering from diphtheria. His illness began on the 7th March, and was medically attended on the 11th March. This is a new house erected about two years ago. A sister, aged 17 years, resides with her grandmother in Workington. She had been suffering from a sore throat which her medical attendant suspected was diphtheria, took a swab which when

examined gave a negative result. On the 6th March she visited her brother and stayed until the 9th March. On her arrival she kissed and nursed her little brother.

Three cases were notified from Armaside, Lorton, on 16th March, in three children aged six years, 4 years six months, and eight years. Illness began on the 11th, 13th, and 14th, respectively. These children attend Lorton school.

At Flimby a fatal case occurred in a boy aged six years. Attended school the afternoon preceding date of attack which terminated the day following. The sanitary conditions were unsatisfactory as four water-closets were not properly flushed owing to the flow of water being retarded by the furred condition of the pipes.

In July a case was notified from Isel Hall in a servant girl aged 18 years. Two days after her return from a month's holiday developed throat symptoms which culminated in diphtheria.

At Flimby a case occurred in a boy aged 11 years. Illness began on August 5th, 1909, but the source of infection could not be traced.

A notification was received on 24th August, conveying the information that a young man aged 19 years, residing at High Armaside, Lorton, was suffering from this disease. His illness began on the 23rd, and he had been in High Lorton the night before. After visiting this case and hearing of several children being away from school with sore throats personally visited these children's homes, and with the parents' consent took a swab of three cases in different houses with the result that bacteriological examination revealed in each Klebs-Loeffler's bacillus. A sister of one of these three cases had been staying at Parton during the holidays, returning home (High Lorton) on the 7th August, but was not well on her arrival, complaining of her ears and throat. The school re-opened on the 10th August, but she did not attend until the 12th (a swab was taken from this girl's throat by her own medical practitioner, and was notified by him as suffering from diphtheria, on September 5th.)

This girl's brother aged eleven years and five months, attended Lorton school, his illness began on 13th August, 1909. Another girl aged eleven years and five months, from Low Lorton who sat near this boy at school began on the 19th August with a sore throat. The third was another girl aged thirteen years and nine months, whose seat at school was in close proximity to the last named

two, began with a cold and sore throat about August 18th, 1909.

In September at Flimby a boy, aged seven years, commenced with this disease whilst attending school.

At Ladywath, Brigham, a youth, aged fourteen years and three months, was certified as suffering from diphtheria. Whilst footracing at Dearham three days before he caught a chill.

In November an outbreak of this disease manifested itself among the children attending Plumbland school. On the 11th two notifications were received stating that a boy, aged nine years and five months, was suffering from diphtheria. Was at school on the 4th November, the day on which his illness began. Also that a child, aged one year and two months, was suffering from the same disease. Illness began on the 9th November, and ended fatally on the 10th November.

On the 18th a boy aged five years and ten months, was certified as suffering from diphtheria. Illness began on the 17th November. Attended school on the 12th November, but had been staying at his grandmother's, at an isolated house, until the 15th November, during which time he was suffering from a cold. This case had a fatal termination on 18th November.

On 31st December two notifications were received that two girls, aged 4 years and six months, and two years and six months, sisters of the last named, had contracted this disease. Their illnesses commenced on the 27th and 28th December. The school was closed, disinfected, and thoroughly cleansed.

On 24th November two notifications were received one a girl, aged five years and four months. Illness began on the 22nd, and the sufferer attended the school the same day. The other a boy, aged twelve years and three months, whose illness commenced on the 19th November. He attended school the same day.

On the 18th November two notifications were received that a young man, aged 19 years, and his sister, aged seven years and six months, residing at Oughterside, were suffering from diphtheria. The former's illness began on the 14th November, and the latter on the 11th November, on which date she attended school.

Four cases were notified during the year. All were Typhoid Fever. in different houses,

A case of enteric fever in a married woman, aged 54 years, at Sunnyside, Seaton, was notified on January 16th. The drainage to this dwelling was found in an insanitary state.

On the 8th May, 1909, a notification was received, stating that a young man, aged 21 years, residing at the Post Office, Bridgefoot, was suffering from typhoid fever. His illness began on 29th April, 1909, although he had not been feeling well for about a month. This case terminated fatally on the 12th May.

On enquiry it was ascertained that bad smells were frequently detected in the kitchen and adjacent room. On making a thorough examination of the drains by smoke testing, the fumes were so strong that the occupants had to leave the room. Although this village is not sewered, this house is provided with an external water closet the soil pipe from which passes through a field and discharges on the foreshore of Lostrigg Beck.

At Denton Square, Great Clifton, a case of enteric fever was, on the 19th May, certified in a married woman, aged 23 years. Illness began on the 6th May. A foul-smelling midden privy stands immediately in front of this cottage door. The entrance inlet for the slop drainage was untrapped.

A young man aged 27 years, residing with his mother at Wyndham Row, was notified on 21st December, as suffering from enteric fever. Illness began on the 10th December; medically attended on 13th Dec. Source of infection untraceable. He is employed at Broughton Moor Brick Works.

Searlet Fever.

Most of the cases have occurred in Seaton (39) and Tallantire, etc. (22.)

The first case was notified on 6th January, 1909, in a boy aged eleven years, residing at Lowca Lane, Seaton. He attended school until they were closed for the Christmas holidays.

On 11th February two notifications were received, one a boy aged 13 years, whose illness began on the 7th Feb., and attended school on the 5th Feb. The other a girl aged six years and nine months who attended school on the 5th Feb., the date of the commencement of her illness.

On the 13th Feb., two more notifications were received, one a boy aged six years and ten months. Illness began on the 10th February, on his return from school. The second a girl aged four years and 5 months. Illness began

on the 13th Feb. This sufferer also attended the school.

On 23rd, 24th and 25th Feb., three more notifications were received. (a.) A girl aged 8 years, illness began 19th Feb. (attended school,) (b.) A girl aged four years and ten months, began on 22nd February (did not attend school.) (c.) A young man aged seventeen years and six months brother of the last named case who was employed at Camerton brickworks. Illness began on 23rd February. Other members of (b) and (c) family were attending school and another case was notified from this family on 9th March in a girl aged fifteen years and nine months.

Another notification was received on 4th March in a boy aged II years and seven months. Illness began on 27th February. Attended school the week before. As these cases all appeared to originate from the schools, I personally visited the same, took the absentees' names for the previous five weeks, the time the school had been open after the holidays, when it was noticed that a great percentage had been away for odd days suffering from sore throats. These were inspected and in some instances were very suspicious. Under these circumstances I decided to close the schools for three weeks, during which period the same were thoroughly disinfected by spraying with formalin. Also the Managers were given written instructions to have the whole of the schools thoroughly cleansed and washed out, especially the high beams, window tops, and ledgings where dust and infectious material accumulates.

The last notification of this outbreak was received on March 11th 1909.

With the exception of one case notified in June, the village was free from this disease until September, when four cases manifested themselves, to be followed in October by fourteen notifications, during which period many complaints were made of the effluvium nuisance emanating from the manholes of the new sewer recently laid in Seaton. The origin of this outbreak was attributed to the schools, probably due to the infection remaining dormant among the books. The schools were again closed and disinfected.

Four more cases were reported in November, and a similar number in December.

Tallantire. On 13th July, 1909, a notification was received stating that a boy aged four years 11 months, residing with his parents at Bell Brow, Tallantire, was suffering from scarlet fever. This boy did not attend

school, was removed to hospital on the 14th July. On the 20th a second notification was received of a girl aged seven years 11 months, residing at Main Street, Tallantire. Illness began 18th, removed to hospital on 21st. She was a scholar at Dovenby School. The School was visited when it was found a boy aged 11 years, residing at Bell Brow, Tallantire, was desquamating, and several other scholars absent. Visiting his home it was found that his illness began 25th June, next day his sister aged 13 years seven months fell a victim, and the following day his brother aged seven years. These children were peeling freely on their hands and feet. A mother and two children, from Carlisle, had come to stay with this family in June, and it was after their arrival that the tenant's family fell ill.

The above cases were the origin of the epidemic of 22 cases of this disease in Tallantire, Dovenby, Borrowdale, and Bridekirk.

Owing to the proximity of the school summer holidays it was at once closed.

Stainburn. On the 15th of May 1909, a boy residing at Stainburn, was notified as suffering from Scarlet fever. This boy attended a private school in Workington. Another boy in this school belonging to Workington, whose sister had Scarlet fever brought a ball, with which she had played to the school, and gave it to this boy to play with.

Isel Grange. Four cases in one house, were notified on the 2nd and 3rd November, 1910.

Of the eighty-six cases notified sixty-two or seventy two per cent, of the cases were removed to the Isolation Hospital, and more would have been removed except for the hospital being full.

Two deaths occurred at their homes at Seaton.

Erysipelas.

Fourteen cases of Erysipelas were notified during the past year in different parts of the district. These, as well as all other cases of disease notified, were made the occasion of visits of inspection to ascertain the sanitary conditions of the premises where they occurred, but none was found to be associated with any local insanitary conditions.

Measles

During the year 1909 Measles has been the most important of the infectious diseases which do not come under the provisions of the "Infectious Disease (Notification) Act." Epidemics involving such large numbers of children raise the question of including measles among the compul-

sory notifiable diseases. The expense incurred by the adoption is very heavy; and measles is highly infectious in its very early stages before the real nature of the illness can be recognised, so that infection is often spread before notification would be possible. Many authorities have tried compulsory notification of Measles and have discarded it for these reasons. The popular belief that Measles is a trivial disease, and the dangerous fallacy that all children are bound to have the disease sometimes contribute to its spread by causing neglect of such precautions as are possible.

Whooping Cough prevailed amongst the children in certain townships, four cases ending fatally, and of these three were children under five years of age.

Whooping Cough.

A few cases occurred in different villages.

Chickenpox.

PLACES OVER WHICH THE COUNCIL HAVE SUPERVISION.

There are none in the district.

Common Lodging Houses.

Thirty is the number in the district. These have been frequently visited, but constant inspection is necessary to keep them in good condition. Acting on my report of 1908 a Special Committee was appointed by your Council to inspect all the Slaughter Houses in the district along with me and the Inspector, in order to see what structural alterations, if any were feasable, might be made in order that the same could be registered in accordance with the new bye-laws sanctioned by the Local Government Board. Such inspection took place on the 10th September, 1909, and a report drafted and later presented to your Council.

Slaughter

No unsound meat of any kind has been seized.

There is one Tanyard in the district, at Stainburn. In many of the villages fish frying and chip potatoe businesses are carried on. These usually are in cottage houses without any suitable means of mitigating the effluvium nuisance rendered thereby.

Offensive Trades.

As respects every retail bake-house the provisions of Bakehouses, this part of the Factory and Workshops Act (Edward VII., C. 22., 1901) shall be enforced by the District Council of the district in which the retail bake-house is situate, and not by an Inspector, and for the purpose of this section the Medical Officer of Health of the District Council shall have and may exercise all the powers of entry, inspection, taking

legal proceedings, and otherwise of an Inspector. In this section the expression "retail bake-house," means any bake-house or place, not being a factory, the bread, biscuits, or confectionery baked in which are sold, not wholesale but by retail, in some shop or place occupied with the bake-house.

Several cottagers and others follow the practice abovestated in your district, and those known are frequently inspected. Some of these hawk bread etc, in your area.

Factories and Workshops Act. These have been frequently visited, and with two exceptions, both requiring limewashing, comply with the regulations of the Acts. No home-workers live in the district. There are several cottages where washing is done for families.

One steam hand laundry has been opened at Ellengrove where several hands are employed, and many of whom reside on the premises. In my Annual Report for 1908 reference was made on page 22 to the means of escape in case of fire. A committee was appointed and along with me and the Inspector met Messrs. Harris and Sons at the Mills, where plans etc. were produced for our approval. These were considered satisfactory, subject to certain weight tests. They have now been completed and the necessary certificate given.

Cowsheds, Dairies, etc.

There is a large number of dairy farms in the district, and a quantity of milk is sent daily to the Newcastle district, Workington, Maryport, and other towns. The registered cowsheds have been visited regularly. In the majority the water supply is sufficient and beyond suspicion, but in some instances this is not the case. The condition of the drainage with few exceptions is not good, the byres being "cobblepaved," with irregular surfaces, and in consequence the ground beneath is permeated with sewage. With regard to overcrowding legislation is required to state the floor space necessary for each animal. The importance of having a pure milk supply is absolutely essential. This can only be obtained by having (1) animals free from disease (2) these animals properly housed and groomed and (3) the attendants and milkers to be taught cleanliness with reference to the vessels, animals, and themselves.

In your district the appointment of a Veterinary Surgeon to inspect all the animals would be a step in the right direction to ensure No. 1.

With regard to the second, in my opinion the byres are badly constructed and situated; but until cowsheds require to be periodically licensed, with reasonable freedom for local authorities to refuse the re-licensing of unsatisfactory premises, there is not much prospect of material improve-

Medical inspection of the school children in the Urban Public Elemen and Rural districts of Cumberland is made by the County Medical Inspectors, who also note any sanitary defects, and these are reported to the Council. At two schools, Bassenthwaite and Greysouthen, the closet arrangements were so objectionable, that, in the Bassenthwaite case, a deputation from the County Education Department along with the County Medical Officer of Health and myself, met the School Managers on the premises to confer what was the best means available of remedying this nuisance. Nevertheless nothing yet has been done. At Greysouthen an automatic flushing has been made to discharge more frequently.

The water supplies, generally, are satisfactory; but in a few cases it is desirable to effect improvements, but at the present one cannot see how this can be done, as no better source of supply is available.

Special filters and storage vessels might be tried, and if found satisfactory, might be adopted at all schools where the water supply on the premises is of unsatisfactory quality, or where water has to be conveyed from a distance.

In December, a conference of Medical Officers of Health of the Urban and Rural Districts with the Education Committee and County Medical Officer of Health, was held in Carlisle, to consider the Joint Memorandum of the Local Government Board and Board of Education, with reference to school closure and exclusion of scholars to prevent the spread of infectious disease, and to arrange for the cooperation of the Medical Officers of Health and the School Medical Officers. It was agreed "That for the purposes of voluntary closing of schools and for the exclusion of particular scholars, the District Medical Officers of Health be authorised to act immediately, and that the School Medical Officer will subsequently approve their immediate action."

Of the non-notifiable diseases measles have been very prevalent. The schools closed by order of your Council were as under:—

School.		Period of Closure.	Cause.	
Seaton Lorton Braithwaite Bothel Seaton Dovenby		Mar. 5th to Mar. 25th Aug. 3oth to Sep. 11th Sep. 10th to Oct. 16th Sep. 29th to Oct. 23rd Oct. 7th to Nov. 6th Oct. 3oth to Dec. 4th		Scarlet Fever Diphtheria Measles Chickenpox Scarlet Fever Measles
Plumbland		Nov. 30th to Dec. 11th		Diphtheria

Housing of Working Classes.

The lack of decent cottages drives all the best blood out of the villages, and leads to farmers preferring to employ unmarried men or men with small families. folly of this action must be evident to anyone who has studied the subject, and to those who have we quote the following passage from Whelam on "The Family and Nation," as good horsemen and agricultural labourers deserve the same consideration as grooms and gardeners: "The present habit of advertising for coachmen, gardeners, and gamekeepers 'without encumbrance,' should meet with the universal reprobation it deserves. announcements ought not to be allowed to disfigure the columns of otherwise respectable newspapers. men, usually of good stock, with regular, well paid work, should be a steady source of valuable addition to the population: and pride should be taken in providing for their occupation, cottages with accommodation suitable for a large family. In fact, those responsible for the management of estates might make sure, as a general policy, that the limited number and inadequate size of cottages cannot be made the excuse by satisfactory parents for the limited number of children. landowners have many and great responsibilities, which for the most part they have met well. When they come to realise the importance to the nation at large, and even to their own neighbourhood, of a constant supply of healthy children of good stock, they will find there are many ways besides example in which they can exert an influence for good."

The Housing, Town Planning, etc., Act, 1909, has given increased powers to Sanitary Authorities. Under this Act, the closing and demolition of insanitary cottages no longer requires the sanction of local magistrates, and the procedure for the provision of cottages by Sanitary Authorities has been simplified.

There are many cottages existing in the district which one would like to see closed, and such closure will now be a simple matter; but doubtless the objection that there are no better cottages available will still have a great weight and prevent closure being enforced. In such cases, however, it is obviously the duty of the authority to proceed to provide the cottages required if private enterprise fails to meet the demand.

Sanitation.

In my annual report for 1908, page 24, your attention was drawn to the insanitary state of a farm at Seaton. As nothing was done, the owner was summoned before

Court of Summary Jurisdiction, held at Workington on 28th July, 1909, when the magistrates adjourned the case for two months in order that he might comply with your requirements. He not having done these on 22nd Sept., 1909, the Court granted a closing order of the house, and four guineas expenses.

On the 14th August a personal inspection was made of the whole of the drainage of Rosthwaite, Seatoller, and Stonethwaite, and a report on the drainage of Rosthwaite furnished you, as specially required by the Local Government Board, along with the insanitary conditions found in the other hamlets, many of which require your urgent consideration.

In my previous annual reports, your attention has been drawn to the insanitary conditions existing at Great Clifton, and urge the pushing forward of the sewerage scheme, and the abolition of the midden privies, etc., which are a source of danger to the health of the public, and the scavenging done by means of an ash cart weekly or more frequently as was found necessary.

With regard to the village of Flimby, this district will not improve from a sanitary point of view until a bi-weekly collection of ashes, etc., is made by this Council, and a proper refuse cart provided.

When inspecting Little Clifton, it was observed that four houses known as Gaythorne Cottages required new moveable windows in the back bedrooms. Also the drainage from some property, including pigstye, byre, stable, etc., flows on to the roadside, although the main sewer is not more than four yards distant. Another cottage in this village is without proper drainage, and the slop water is thrown on to the roadside and flows to an open grid in the main sewer.

At Gilcrux it was noticed that the midden privies for the schools are only about nine feet distant from the school wall and about three feet from the cloak room wall. The girls' closets are opposite one of the school windows.

Overcrowding was detected (a) at Plumbland in a two-roomed cottage, the family consisting of man and wife, three sons aged thirteen, nine years five months, and one year six months respectively, and two daughters aged seven years and four years; (b) at Flimby a cottage

containing a kitchen, bedroom, and attic, was tenanted by a man and his wife, five sons aged respectively nineteen, sixteen, fifteen, ten, and three years and six months, two daughters, eleven years and seven months, and five months, also a male lodger aged twenty-one years.

These nuisances were abated by both families removing into more commodious premises.

During the autumn, the two assistant Medical Officers of Health for the County of Cumberland made a general inspection of your district. In this survey they were personally accompanied over Brigham, Broughton Cross, Great and Little Broughton, Bridgefoot, Broughton Moor, Blindcrake, Great Clifton, Chapel Brow, Redmain, and part of Seaton; and by the Inspector of Nuisances over the remainder of the district.

Sewerage.

With reference to the sewerage schemes for the villages of Broughton Moor, Broughton, Great Clifton, Rosthwaite, Braithwaite, and Broughton Cross, nothing has yet been done, and the existing nuisances previously reported continue.

The village of Dearham requires a proper system of sewerage, and this should receive the careful consideration of the Council.

Lostrigg Beck, a tributary of the Marron, is seriously polluted by the sewage from Chapel Brow and Bridge-foot. This sewage requires some method for purification prior to entering this stream.

Although the village of Dovenby has been sewered for several years certain properties remain unconnected.

Rivers Pollution Act, The Rivers Derwent and Ellen are both polluted by drainage from villages and coal washings; and the former, were it not for its rapid flow and frequent floods, would be very liable to be a source of danger to the health of the public.

Rainfall.

Rain fell on 196 days as compared with 216 in 1908. The rainfall for the year was 46'05 inches, of which 22'42 inches fell in the months of July, October, and December, 8'66 inches falling in October. The average for the ten years 1899-1908 was 40'82 inches, the heaviest record for any single year during this decennium being in 1903, when 52'83 inches were registered, and the least in 1902, when

only 29'20 inches were collected. The heaviest fall was 2'12 inches on October 12th, 1909. The peculiar feature of the rainfall was "A year with a total fall of six inches, or 14 per cent. above the average, but with fewer wet days and more heavy falls."

The public water supply derived from the Crummock Water Supply. Gravitation Main, throughout the area of supply, has been generally ample in quantity during the year and has retained its good record for purity.

The supply to Oughterside, etc., from the Overwater Gravitation scheme has also been sufficient, but occasionally complaints have been received owing to the discolouration of same.

On page 27 of my annual report for 1908, particulars were detailed re the water supplies to Blindcrake and Redmain, Bassenthwaite, Grange-in-Borrowdale, and Applethwaite under Skiddaw, and which still remain "in statu quo."

Seven samples of water were forwarded to the County Analyst and examined during the year. Appended are the reports:—

- (1) Lily Hall Farm.—"The analysis does not give indications of dangerous pollution with sewage matter."
- (2) Lowfield Pump, Embleton.—"The water contains oxidised sewage matter and may become dangerous if the oxydising power of the soil through which it filters is overtaxed. It is highly desirable therefore that a purer source of supply should be obtained."
- (3) Wheat Sheaf Inn, Embleton.—The water is pure and free from sewage contamination. The analysis shows no evidence of putrifying organic matter. So long therefore as the water remains in the condition in which it was when this sample was taken, it is safe and suitable for all domestic purposes."
- (4) Stag Inn Pump, Crosby, and (5) Messenger's Pump, Crosby.—"The waters are very similar in composition. They contain oxydised sewage matter and are therefore dangerous. Moreover, they are loaded with saline matter beyond the point which is usually regarded as the limit for a wholesome water. Both wells should therefore be closed and a purer water supplied."

- (6) Farm Pump, Allerby.—"The water is so highly polluted as to be an extremely dangerous one. The well ought to be filled in or other means taken to prevent the water being used for any household purpose. It is too hard to be suitable for cleansing purposes, and too dangerous for use as a potable water."
- (7) Public Well, Bothel.—"The water is extremely hard, but, being remarkably free from organic matter, no recent pollution can have taken place. If no softer water is available, and if the well is effectively protected against the entrance of slop water and other contamination, it may be used for the supply of a few householders."

Several houses known as Mountain View, Seatoller, obtain their domestic water from a stream which is polluted by the drainage of ten or twelve houses.

The water supply to the Stanley Terrace area of Embleton, comes down a gutter and is liable to pollution by cattle. In a dry season it entirely fails, and in wet weather is very much discoloured.

About a dozen houses at Bullgill obtain the water used for domestic purposes from a small open well about one foot deep. Animals passing quench their thirst from the same.

Annexed to this report are the usual Statistical Tables.

REGISTER OF RAINFALL IN 1909.

Kept at Broughton Grange, Cockermouth, in the County of Cumberland, by G. S. Wilson.

Lat. 54 40 15.

Long. 3 25 15 W.

Nearest Railway Station-Brigham.

Time of observation-9 a m.

Diameter of Rain Gauge-5in.

Height of top of Gauge above ground-ift. 3in. 11

Sea Level-209ft.

NOTE.-Rain should be measured daily at 9 a.m., and the result entered to the previous day. Full instructions for the measurement of rain and particulars as to the British Rainfall Organization are given in "Rules for Rainfall Observers," sent post free on application to Dr. H. R. MILL, 62, Camden Square, London, N.W.

RAINFALL IN 1909.

At Broughton Grange, Cockermouth, in the County of Cumberland.

Diameter of Funnel, 5 in.

Above Ground, 1ft. 3in. Height Abové Sea Level, 200 ft.

Month.	Total Depth.	Greatest i	Number of days with or or more recorded.	
	INCHES.	INCHES.	DATE.	
January	3.38	-	-	19
February	2.32	_	_	8
March	3.67		_	19
April	2.83	1.00	24th	16
May	1 '73	_	_	14
June	2.23	_		14
July	6.98	1'40	24th	23
August	2.61		near-	18
September	2'42	_		13
October	8.66	2'12	12th	22
November	2'11			14
December	6.48	1.62	9th	16
Total	46.02			196

If Gauge has been moved during year state -Distance. Date. Direction.

No.

How was height above sea level ascertained? Ordnance Survey.

State pattern and maker of Gauge, if known. Cassella.

What are the objects nearest to the Gauge? Cabbages.

Nearest Parish Church and Railway Station.

NAME.	DISTANCE.	DIRECTION.
Church, Broughton	½ mile	i W
Station, Brigham	½ mile	SE

RAINFALL AT BROUGHTON GRANGE, 1909.

Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept,	Oct,	Nov.	Dec.
1			0.29		0.01			0.02			0.06	0.35
2	0.03	0'42	0.02				0.08		0.09		0.02	0.45
3	0.01	0.76		0.10			0.28	0'02	0.19	0.37		0.04
4		0.65				0.12	10.0	0.11	0.10	0'41	0.03	
	0.07					0'14	0.22		0.22	0.13	0.53	
5	0.09		0'20				0.07		0.13			
7	0.11	***	0'14				0.03		0.01	0.58		
8									0'03	0.01	0.19	
9	0.08	0.32	0.07				0.73		0.02	0'14	0'23	1.6
IO	0.03	0.00					0,10	***		0'17	***	0.6
II	0.15		0.01	0.10		0.03				0'22	0.04	0.3
12	0.27			0.50	0.09	***	100		***	2'12	0.10	
13	0'29		0.02	0.13			0.11	0.00		0.13		
14	0.49	0'04		0'02	0'05		0.19	10.0		0.23		
15	0.09			0.50			070	10.0		0'05		
16	0'29		0.06	0.06				10.01		0'17		
17	0.58		0.51	0.04	0.02	0.02	0.03	0'12		0.31		
18	0.74		10.01			0.01		0'04		0 15		
19				0.39		0.08			0'04	1.66		
20			0 09			0.11	0.47	0.30		0.12		
21	0'02					0.08	0.00	0.07		0.13		0.3
22				O.IC	0.13	0.83	0 21	0.10		0'32		0.4
23		0'02	0.18	0.03	0'04	0.15	0.43	0.33	0.58	1'04		O.I
24			0.26	1'09	0.10	0.33	1'40	0.10		0'03		0.0
25			0.09	0.02	0.53		0.62				0.03	0'4
26				0.04	0.55	0.30		0.02	10.0		0.10	0.0
27		0.05	0.02	0.04	10.0	0'14			0.06		0.38	0.6
28	0.31		0.77	0.16	0'21	0.16	0.19	0'59	0.04		0.23	0.1
29	0.03		0.29		0 02		0.50	0:51			0.05	
30			0'20		0.44		0.11	0.01		0.19	0.19	1.1
31	0.04		0.10		0.19		0.01					0.0
0.0	3.38	2.32	3.67	2.83	1.43	2.23	6.98	2.61	2'42	8.66	2'11	6.7
on d'ys	10	8	19	16	14	14	23	18	13	1 22	14	1

Total for year, 46.05, on 196 days.

NOTES:—A year with a total fall of 6 inches (or 14 per cent) above the average, but with fewer wet days and more heavy falls.

Above Sea Level 209 feet.

INCHES OF RAINFALL AT BROUGHTON GRANGE, COCKERMOUTH, FOR 1909 AND PREVIOUS YEARS.

G. S. WILSON.

00 50 00	On								150					
Average 33 years, 1873 to 1904.	Rain	3.489	1	2.1	5.0		2.515	3.382	4.487	4,162	4.480	4.337	4.023	40.720
	Date	:	:	:	24th	:	:	24th	:	:	rath	:	9th	
Greatest fall in 24 hours	On days Inches Date	:	::	::	-	::	::	04.1	:	:	2.12	:	79.1	
6061	Ondays	61	00	61	91	14	14	23	81	13	22	14	91	961
19	Rain	(1)	cm	3.67	2.83		2.23	86.9	19.2	2,43	99,8		84.9	46.05
80	On	00	10	100	16	8	14	17	61	24	11	17	23	316
1908	Rain	4.34			1.53								3.30	39 .47
70		14	II	81	13	19	200	14	22	4	22	91	20	100
1907	On Aain- On days	1 45	5.00		2.24								68.5	43.62
90	On days 1	10	17	13	10	22	6	100	21	9	22	19	20	210
1906	Rain	2.67	99.2	2.40	1.42		1.75		5.29	1.37	5.65	4.17	3.37	29. 14
70	On days E	17	19	23	10	11	w	13	61	100	12	17	100	161
1905	Rain	1.25	2.54	3.52	3.54	2.67	68.1	19.2	3.50	3.18	2.67	3.06	3.11	33 '93
904	Ondays	64	61	91	21	21	13	OI	21	11	151	19	18	306
190	ain	3.70	3.02	5.86	3.03	2.80	1.44	2.77	4.02	2.38	2.23	3.73	4.87	37 .22
33	On days R		21		13	61	6	20	252		30		91	1
1903	Rain	4.35	2.18	19.9	1.55	2 63	1.29	4.52	5.54	21.5	8.75	3.79	3.20	52 .83 238
9	Ondays	6-	10	22	13	24	14	17	15	91	17	17	91	300
1902	ain	3.12	0.84	2.12	1.55	69.2	1.27	3.47	5.86	19.1	cc	CA	3.77	02. 62
-	On days R	17	11	13	17	11	12	6	61	15	22	12	21	1
1061	Rain	2.68	99.1	16.1	3.01	1.20	2.20	88.0	4.58	2.45	5.93	4.87	90.5	621 62.98
00	On days F	24	12	00	91	-				-	-	-		303
1900	Rain	4.05	4.51	94.0	62.2	3,80	3.45	16.1	8.26	3.62	5.31	4.33	7.43	48.71
		January	February	March	April	ay .				ber	October	November	December	4

Rural District of Cockermouth.

Annual Report of the Medical Officer of Health for the Year 1909, on the administration of the Factory and Workshop Act, 1901, in connection with

FACTORIES, WORKSHOPS, &C.

INSPECTIONS.

Pren	nises.	Num	ber of—
		Inspections.	Written Notices.
Factories		 ?	I
Workshops		 ?	1
Workplaces		 ?	0
	Total	 137	2

DEFECTS FOUND.

Particulars.	Number	of Defects.
	Found.	Remedied.
Nuisances under the Public Health Acts.		
Want of Cleanliness	I	I
Unsuitable Sanitary Accommodation.	I	I
Total	2	2

REGISTERED WORKSHOPS.

Workshops on t	ne Regist	er at th	e end of the	year.	Number.
Iron Furnaces				150.	I
Brick Works					6
Linen and Threa	ad Mills				I
Flour Mills					12
Saw Mills					6
Shoemakers and	Cloggers				19
Joiners and Carp	penters				32
Blacksmiths					15
Dressmakers					9
Tailors					7
Breadmakers					8
Tanners					I
Laundry					I
Bicycle Works					I
Pit Banks				- 5	5
			Total	-	124

OTHER MATTERS.

Action taken in matters referred by H. M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5).

Notified by H. M. Inspector

Ι

JOHN PENNY, D.Sc., M.B.,

Medical Officer of Health.

6th January, 1910.

TABLE A-BIRTHS.

Total Number of Births for the Four Quarters, Male and Female, Legitimate and Illegitimate; Birth-rate per 1000 Population for the entire District, and four Registration Sub-Districts, and percentage of Illegitimate to total Births, compared with previous years.

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	-K	and		ICF	& aite	hbu	ERMO ion I rural,	urk nd
	S	3		30	hw hw skid	ls, Jale	KE rati	hy Prand der de and der by
	D	7.5		ES	ald ent er S	ohr owc	COCKERN registration chiefly rur mining	oropo oropo Old Old Slin Slin Skir kir kir am am am sstli bott
				(A) KESWICK sub-registration District, entirely Rural	Bewaldeth & Snittlegarth Bassenthwaite Under Skiddaw	St. John's, Castlerigg and Wythburn Borrowdale Above Derwent	(B) COCKERMOUTH sub- registration District chiefly rural, partially mining	Embleton Wythop Setmurthy Isel Old Park Sunderland Isel, Blindcrake & Redmain Papcastle and Goat Tallantire Dovenby Broughton Brigham Eaglesfield Eaglesfield Macana
				3.24	MADZ	N M A	<u> </u>	団 N S N S N S N S N S N S N S N S N S N
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TABLE A-BIRTHS-(continued.)

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1		ulat	1907		33.3	30.9	1
		Kate per popula	1908		61.62	35,65	100
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		o.	1906 1905		160	294	19
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				Whinfell Loweswater & Mockerkin Buttermere Brackenthwaite Lorton	workington sub- registration District chief- ly mining, partially rural	Seaton Camerton Ribton Greysouthen Little Clifton Great Clifton Stainburn Workington (Rural) Winscales Dean, Deanscales, etc (b) MARYPORT sub-registration District, chiefly mining, with Urban Townships Gilcrux Plumbland and Parsonby Crosby, Crosscanonby, and Birkby Crosby, Crosscanonby, and Birkby Broughton Moor Flimby	Total in Entire District 22225 84 78 101 87 76 70 77 78
				Kerl	N ict	Seaton Camerton Ribton Greysouthen Little Clifton Great Clifton Stainburn Workington (Rural) Winscales Dean, Deanscales, etc. (b) MARYPORT sub-reg tration District, chiefly mi ing, with Urban Townshi Gilcrux Bothel and Threapland Oughterside and Allerby Crosby, Crosscanonby, and Birkby Dearham Broughton Moor Flimby	stri
	DISTRICTS	and		ock	WORKINGTON gistration District mining, partially	s, c, su lihite land	ia
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				S S B B S S	0,24	FRO COBPE TENTO DA A SECTOROS	1-
_	_	-			3 1	TWE COMPONETED LEASURGED AND	

DEATHS (Table B.)

Total Number of Deaths from all causes, in the entire District of the Cockermouth Rural District Council,

Male and Female, in the Four Quarters of the Year, and Death-rate per 1,000

Population, as compared with previous years.

DISTRICTS. Particle Particl	- International				the Real Property lies, the Person lies,		
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CTS. Counter and Quarter a	lod	S061			.91		4 H
CTS. Counter and Quarter a	80,	9061	14.1	0		2.91	13.4
CTS. Counter and Quarter a	e per 1	4061	13.4	6.81	17.4		0.91
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CTS. CTS. CTS. Catalation registration registraticn registration	rte	rate per 1,000	13	13	.41	13.	13.
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CTS. Structure Catimated Population CTS. CAtimated CTS. CAtimated CTS. CAtimated CTS. CAtimated CTS. C	n n	- Annual Control of the Control of t	10	13	-	31	64
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(L.) KESWICK, Subtrict, entirely trict, entirely rural, partially (3.) WORKINGTON mining, partial (4.) WARYPORT, Urban Towns Entire Sanitary		IC	-re	H,	ily	do.	D
(r.) KESWICK, S trict, entire (2.) COCKERMOI rural, partii (3.) WORKINGT(mining, par mining, par (4.) MARYPORT, Urban Tow		LK	ub	TO	Con	VID.	7.
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TABLE C.

Death-rate in each Township.

	I	I	Deaths	register-	l D	anth I	Pata .	non I	000
DISTRICTS	uo uo	Births		e district.		eath I	pulati		,000
	Population	Regis-	Under		7	1		1 19	
AND TOWNSHIPS.	nde	tered.	ı year	At all	1909.	1908.	1907.	1906.	1905.
	Ъ		of age.	ages.	-909.	Lyon	190/	1900,	1903.
KESWICK RURAL	3050	67	8	39	12.7	14'3	13'4	14'1	14.1
Bewaldeth and Snittlegarth Bassenthwaite	10	37.00				26.6		13'3	
Under Skiddaw	445	8 7	I	5	15'7	7.6	3.8	15.7	17'9
Skiddaw St. John's, Castlerigg & Wythburn	I				 To'o	11.7		6:-	
Borrowdale	766 502	7	5	10	7'9	7'9	5'9	19'9	3,0
Above Derwent	1000	27	1	13	12.8	16.0	19.0	14'0	15'0
b. COCKERMOUTH RURAL	5550	135	16	68	12'2	17.6	13.9	9,9	14'7
Embleton	200	11	1	8	31,3	29'3	10.4	5'3	13,4
Wythop Setmurthy	180	1 4	-::	3	16.6	11,1 50,0	10.0	5'5	11,1
Isel Old Park	67	2							
Isel, Blindcrake and Redmain	55 280	3 10	2	5	18.1	18.1	18.1	10.8	54'5
Papcastle and Goat Bridekirk	596	10	I	6	10.0	10,0	10,0	10.0	20'I
Tallantire	0.00	3		4	10,0	18.1	9.0		9'0
Dovenby	198	8	2	4	20'2	30,3	2.0	15'1	
Broughton Brigham	1404	46	9	17	13,1	17'1	15.2	14'0	17.0
Eaglesfield	723	21	1	8	11'0	15'2	0,0	19.3	0'0
Blindbothel	80				-55		33.7		11.5
Mosser Whinfell		2				13.3	26.6		13.3
Loweswater & Mockerkin	76 272	I			11,0	22'0	11,0	13,1	31.0
Buttermere	87	5 2		3		22.0		7'3	
Brackenthwaite	116	1					34'4	17'2	8.6
	322	3		6	18.6	21.7	12,3	3.0	24'5
c. WORKINGTON RURAL	5315	176	16	65	12'4	18.8	17'4	11.3	16.6
Seaton	1685	58	10	22	13.0	22'6	16.1	10.4	19'1
Ribton	278	3	1	4	83'3	10'7	7'1	7'1	51,2
Greysouthen	481	11		3	6.3	16.6	16.6	18.7	14'5
Little Clifton	486	24	2	8	16.4	14'4	22'5	14'4	24'6
Stainburn	263	42 10	2	12	3.8	18'2	10.0	8.0	3.8
Workington (Rural)	236	4		2	8.4	8.4	8.4	8.4	8.4
Winscales Dean, Deanscales, &c	102			2	19.6	9.8	19.6	10.8	9.8
d MARVEORT BURAL	022				10.5	25'7	33'7	14'4	22.2
Gilarux			22		15'4	12,3	17.6	16.7	14'5
Plumbland and Parsonby	533	16		2 II	4.8	14'5	14'5	7'2	10,3
Bothel and Threapland	336	10		4	11.0	8.0	8.9	14.8	8.0
Oughterside and Allerby	440	16		4	90	13.6	6.0	22'7	4'5
Crosby, Crosscanonby, & Birkby Dearham		28	3	16	17'1	15'0	17'0	16.1	6.6
Broughton Moor	945	91 28	6	35	13.4	16.3	18.6	18.0	11.8
Flimby	2570	83	10	44	17.1	16.0	17'2	19.1	20.4
Total in Entire District	22,250	670	62	302	13'57	19.91	16.0	13.4	14.0

TABLE I.—Cockermouth Rural District.

Vital Statistics of whole district during 1909 and previous years.

	Desmile	0		Total deat	hs registe	Total deaths registered in the district.	district.		Deaths of	Deaths of		
Vers	tion esti-	DIRTHS	THS.	UND'R I	UND'R I YEAR AGE		AT ALL AGES.	Deaths	residents Register- registered ed in Pub-	Register- ed in Pub-		Nett Deaths at all
1 EAR.	mated to Middle of							0 5	in Public Institu-	lic Insti- tutions	the Di	the District.
	each year	each year Number.	Rate.*	Number.	Rate.	Number	Rate.*	tions.	tions in	beyond the Dis-		
1	13	60	4	2	9	7	00	6	District.	triet.	Number 12	Rate.*
1899	23334	672	28.7	94	113.0	310	13.2					
1900	22513	419	27.4	69	8.111	290	12.9					
1901	21690	189	31.3	84	123.3	316	14.5					
1902	21690	919	28.3	94	123.3	292	13.4					
1903	21700	269	30.4	26	1148	300	13.8					
1904	21800	949	9.62	88	136.2	293	13.6					
1905	22112	649	30.7	90	147.2	331	14.6					
9061	22112	149	6.85	77	1.071	297	13.4					
1907	22112	632	28.2	74	0.411	338	15.5					
1908	22210	. 603	27.1	103	172.0	362	16.2	1	-	8	369	19.91
Averages for years 1899-1908	22127	647	29.0	18	127.8	312	14.1					
6061	22250	. 670	30.11	62	92. 5	282	12.67		3	23	302	13.57

* Rates in columns 4, 8, and 13, calculated per 1,000 of estimated population.

Note.—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in column 12 are the number in Column 7, corrected by the subtraction of the number in Column 12.

public By the term "Non-residents" is m inst

sickness or	21,690 At Census 4,383 of 4'9 1901
count of	21,690 At
infirmity, rict on ac	:::
ckness or f the dist	es is per how
ount of si	at all age bited hous
ict on acc	Total population at all ages Number of inhabited houses Average number of persous per house
o the distr s who ha	Total Numb Avera
stitutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere	Area of District in acres (exclusive of area } 158,113'464 covered by water)

1061 164	Other Institutions, the deaths in which have been distributed among the several localities in the District.	Crichton Royal Institution Dumfries Mill Road Infirmary, Liverpool Royal Infirmary, Liverpool
	Institutions outside the District receiving sick and infirm persons from the District.	Victoria Cottage Hospital, Maryport Union Workhouse, Cockermouth The Nursing Home, Cockermouth The Cumberland Infirmary, Carlisle The County Asylum, Garlands The Union Workhouse, Wigton
	Institutions within the District receiving sick and infirm persons from outside the District,	The Ghyll Retreat (licensed under the Inebriates Acts), Buttermere Isolation Hospital, Broughton Moor

Is the Union Workhouse within the District? No.

TABLE II.—Cockermouth Rural District.

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Deaths under I year.	d.	32 28 33 34 34 44 47 47 44 47 47 47 47 47 47 47 47 47	:
Ages.		106 105 105 106 121 130 146 127 129	:
Births registered.	9.	237 237 2053 2053 2053 2053 2053 2053 2053 2053	:
Population esti- mated to middle of each year.	a.	8,541 8,095 7,655 8,176 8,212 8,278 8,278 8,278 8,300 8,325 8,335	:
Deaths under r year.	d.	28 116 119 115 115 118 118 118	:
Deaths at all Ages.		1 6 0	:
Births registered.	6.	157 152 153 153 159 159 150 170 170 170	:
Population esti- mated to middle of each year.	a.	5, 189 5,	:
Deaths under I year.	d.	252 222 223 223 17 17 17 17 17 17 17 17 17 17 17 17 17	:
Deaths at all ages.	ં		:
Births registered.	6.	144 150 102 139 141 138 116 133 133 138 130	:
Population esti- mated to middle of each year.	<i>a</i> .	6,049 6,015 5,931 5,505 5,505 5,505 5,505 5,505 5,505 5,505 5,505	:
Deaths under 1 year.	d.	\[\tau \alpha	:
Deaths at all Ages,	o	38 33 33 34 4 4 4 4 4 4 4 4 4 4 4 4 4 4	:
Births registered.	6.	50 50 50 50 50 50 50 50 50 50 50 50 50 5	: .
Population esti- mated to middle of each year,	a.	3,036 3,036 3,036 3,036 3,046 3,046 3,046 3,046 3,046 3,046	:
Deaths under	d.	76 84 88 88 88 90 90 77 77 77 74 103	
Deaths at all Ages.	ö	312 338 300 3316 312 338 300 3300 312 338	:
Births registered.	6.	672 681 681 692 692 646 679 679 671 670	:
Population esti- mated to middle of each year.	a.	23,334 22,513 21,690 21,690 21,700 22,112 22,112 22,112 22,127	:
YEAR.		1899 1900 1901 1902 1903 1905 1906 1908 1908 1909 to	
	Population estinated to middle of each year. Births registered. Deaths at all Ages. Deaths at all Ages. Deaths at all Ages. Deaths at all Ages. Deaths at all ander of each year. Deaths at all ages. I year. Deaths at all ages. Of each year. Deaths at all ages. I year. Deaths at all of each year. Of each year. Deaths at all of each year. Ages. Deaths at all ages. Deaths at all ages. Population estinated to middle of each year. Deaths at all ages. Deaths at all ages. Deaths registered. Ages. Deaths at all ages. Ages. Deaths at all ages. Deaths at all ages. Ages.	Population esti- a Births registered. b Births registered. c Births at all c Ages. c Births at all c Ages. c Births at all c Ages. c Births registered. c Births registered. c Births registered. c Births at all c Ages. c Births at all c Ages. c Births registered.	22, 22, 21, 22, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25

TABLE III.—Cockermouth Rural District.

Cases of Infectious Disease notified during the Year 1909.

lotal Cases removed to Hospital.						62				10 10 10 10 10 10 10 10 10 10 10 10 10 1	-	62
	4	M.R.				6	200	9		N SE SE		6
No. of Cases re- moved to Hos- pital from each locality.	3	W.B.				28	138			No.		28
of Cases ved to F al from e locality.	73	C.R.				24						24
No. of moved pital f	-	K.R.				-						-
ty.	4	(H) (H)		12	5	17	-					35
Total Cases notified in each locality.	3	(H) (H)		7	3	14	3					54
otal Case notified each loca	2	* (W)		16	20	27						48
T	-	K.R.D.		-	-	-						6
ict.		65 and upwards.			-					16.5		-
Distr	sars.	25 to 65.			10	61	4	1/4				14
hole	Ages.†-Years.	15 to 25.		10	-	01	64					18
n W	ses.	-S1 o1 S		23		53						92
fied i	V	I to 5.		00	63	20						30
s noti		Under 1.				-						-
Cases notified in Whole District.		At all Ages.		36	14	98	4					140
		Notifiable Disease.	Smallpox Cholera	Diphtheria (including Membranous croup)	Erysipelas	Scarlet fever Typhus fever	Enteric fever	Relapsing fever	Continued fever	Puerperal fever	Plague	Totals

TABLE IV.—Cockermouth Rural District.

Causes of, and Ages at, Death during Year 1909.

											-		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D			vhole			at	De	aths	in L	ocal-	
			5	subjo	ined	Ages	3.	0.748				ges).	
Comme on De													Deaths
CAUSES OF DEATH.		-			10	1 10	- 10		-			-	in
		L 0	Under 1.	D .2	PH	and er 2	and er 65	Popu					Public Institu-
		All ages.	nd I.	r and	5 and under 1	a ler	25 and	Val	w n	a n			i.a.a.
		1 4	5	I	Spin	15	255	55	K.R.	C.R.	W.R.	M.R.	· · · · · · ·
I		2	3	4	5	Ounder 2	7	65 and oupwards	9	10	II	12	
		-		-		-	-					-	
Small-pox	***												
Measles												***	
Scarlet fever	•••	2		1		I	I				2		
Whooping-cough Diphtheria & membran		4	I	2	I					3		1	
Carried States			1	2	2	1		1		-			
Cueur		4	···		2				1111		I	3	
(Typhus			30		22.7.0						1		
Fever { Enteric		1											
Other continued								***					
Epidemic Influenza		I			1					***			
Cholera													
Plague													
Diarrhœa		2	2									2	
Enteritis		7	5	1			I		2	2		3	
Gastritis		6	4		I			I			2	4	
Puerperal fever													
Erysipelas													
Other septic diseases									-				
Phthisis		18			1	4	II	2	3	4	2	9	
Other tuberculous diseas		9	2		I		6		2	1	1	5	
Cancer, malignant dise	ase	21		1000			14	7	3	5	4	9	
Bronchitis		19	3	2			3	II	3	3	3	10	
Pneumonia		24	3	3		1	9	8	3	5	2	14	I
Pleurisy Other diseases of Resp	ivo	2					2				I	1	
tory organs	1000	0			Section 1	main	1						
Alcoholism)		2					Y	I			2		
Cirrhosis of liver		1				10					I		
Venereal diseases	09870	10,000					2000		***				-
Premature birth		14	14						3	6	4	I	1
Diseases and accidents	of	-4			1				3		4	-	
parturition													
Heart diseases		40	I		I		20	18	9	9	8	14	-
Accidents		7				2	4	I	I	2	I	3	
Suicides		2	1					2		1		1	
All other causes		115	26	4	3	6	20	56	9	27	30	49	2
					_								
								West					
All causes		302	62	14	II	15	93	107	39	68	66	129	3
			1		1	1							

TABLE V .- Cockermouth Rural District.

INFANTILE MORTALITY DURING THE YEAR 1909. Deaths from stated Causes in Weeks and Months under One year of age.

-				_	-	_	_							_			_	_		
	CAUS	SE OF DEATH.		Under I Week.	r-2 Weeks	2-3 Weeks	3-4 Weeks	Total under r month	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-ro Months	10-11 Months	11-12 Months	Total Deaths under One Year.
	Common Infectious Diseases.	Small-pox Chicken-pox Measles Scarlet Fever Diphtheria: Croup Whooping Cough									1				x					1 2
1	Diarrhœal Diseases	Enteritis (not Tuber- culous) Gastritis, Gastro- intestinal Catarrh							2		1		2		1			2		5
	Wasting Diseases.	Premature Birth Congenital Defects Injury at Birth Want of Breast-milk Atrophy, Debility, Marasmus		1 2	1	3		14 5	1	1	1					The state of the s				14 5
Т	uberculous { Diseases	Tuberculous Meningitis Tuberculous Peritonitis Tabes Mesenterica Other Tuberculous Diseases	:									1						1		1
	Other Causes.	Erysipelas Syphilis Rickets Meningitis (not Tuberculous) Convulsions Bronchitis Laryngitis Pneumonia Suffocation, overlying Other Causes		2		1 1		3 1	1	1	1		1			3		1	2	7 3 3
	All Carses	Certified Uncertified			1	-	1	29	4	2	5	4	4		2	2		5	1	

Births in the y	rear—legitimate 538 illegitimate 32	Deaths in the Do.	year-	-legitimate infants	61 1
	Deaths from all Cause	s at all ages		302	
	Population estimated	to middle of roco		00000	

TABLE VI.

Summary of work done through the Inspector of Nuisances in the Rural Sanitary District obt Cockermouth, during the year ending 31st December, 1909.

RURAL DISTRICTS.	Privies & Ashpits built & repaired	Privies and Ashpits cleansed	Middens removed	Drains or Channels made or repaired	Drains or Channels cleansed	Other Nuisances abated	Plans for New Houses 1909	Houses enlarged	ses sewered		Structural Defects of houses repaired	Houses disinfected	Overcrowding abated	New W.C.s or Privies converted into W.C.s.	Schools disinfected	Traps put in	No. of houses water supply improved	Pigs removed	Poultry removed	Totals
Above Derwent		-				1	2				1			I						65
Allerby & Oughterside	1	21				1	1	1					1				6			32 2
Braithwaite		6			2	2	1	2						2	1			1		17
Borrowdale	1			2	1		1					1								6 ;
Blindbothel & Whinfell									••••											
Brigham	1	***		п						т.	Ι	2		1						64
Buttermere	2	47	3	1				т.						I	1					4
Bassenthwaite											5	4			I	1000				10
		2			1							2						I		61
		,										1				I	4			61
Bothel and Threapland	1	4	1		•••	1			2						1 0	12000				13
Bridekirk & Dovenby	1	1	···		2						3	7 2				I	1			43
Broughton Moor	***	33 44				I	I				J				1	1		2		49
Computer and Dikton		3			1	1					I				1	I				7
Clifton, Great	4	256	1	I	3						2	6			. 1					274
Clifton, Little		24	1	10000	1	1						I					3	100		.32
Crosscanonby, Crosby Villa	2	83	I		4													2		98
Dearham and Craika	1	13	1	-	I	-	5	2			2 1	2		***		3	1			39
Eaglesfield Embleton, Wythop, & Setmurthy	1			I		I	1	2		1	6					1	1			5 16
Flimby	27	54		4	-			1			133	130			2	3	4	1000		117
Greysouthen		3				2						1				2				13
C 11 0 D 11 11		10		2			2	I			7					3				26
T LOUID I																	10.50			
Lorton	1	2		I		1			0.00	100					· I		I		***	16
20110011110111			•••														***			2
Namlanda		•••	***																	
Pardshaw, Dean & Deanscales	1				1															3
Papcastle and Goat	2	I		1		1										10000		I		10
Plumbland and Warthole	2			1				2					I		. I	3				12
Parsonby and Arkleby		1		I																7
Cuton		5		2												2	1000	4	4	128
Stainburn and Winscales	5	3	***		1		• • • •	1		1	***	1				-	**			19
St. John's, Legburthwaite & Wyth- burn			***									1								I
	4	1														2				8
TO 1.1 1							1												***	I
Z tillitilitii o					100		100	1 3			4									13
Ullock and Branthwaite	1	1												***						7
CHUCK CHICKER		12		***																17
Workington Rural		12													1	1000		188	35	
	-			_		-	_	-	-	_	-		-	-	-		-	-	-	
Torals	58	632	15	26	38	20	28	13	2	7	42	102	2	63	IO	26	20	13	4	1138

TABLE VI-(continued).

RURAL DISTRICTS.		Nuisances reported in 1909 and not yet abated	Urinals built	Drains tested	Scarlet Fever cases removed to Hospital	Samples of water analysed	Samples of water condemned	Cowsheds registered in 1909	Structural defects of Cowsheds remedied	Number of Cowsheds on register	No. of visits to Cowsheds in 1909	No. of Slaughterhouses in district	No. of notices to cleanse workshops	laints of Nuisan	Beds destroyed from Typhoid	Totals	John Wm. Jackson,	Inspector of Nuisances.
Above Derwent										100						2	3	Ins
Allerby and Oughterside Braithwaite			• • • •			1	I		4	4		2 I				1	2	
Borrowdale					1			I						1		3	h	
Blindbothel and Whinfell										1 0						2	7	
Brackenthwaite														.X.				
Brigham Buttermere									2	1 1		I				10		
Bassenthwaite		1								I						3		
Bewaldeth and Sunderland												1		I		3		
Blindcrake, Isel, and Redmain					1 9	1	1									7		
Bothel and Threapland		2										I		2		6		
Bridekirk and Dovenby		1			. 6					100		2				6	708 10 217	124
Broughton Broughton Moor		1										4		I		5	6.4	0 H
Camerton and Ribton		1						2		1 6						2		
Clifton, Great		1			1							3		2		11	111	::
Clifton, Little										2 3		2		1		11		
Crosscanonby, Crosby Villa							2 2	4	1	1 8		I	1000	3	3	23		
Dearham and Craika Eaglesfield		3			. 3	3			-	1 0	5	2				13	Se	
Embleton, Wythop & Setmurthy						100				5 3		1	180	1 -		6	tic.	
Flimby						5	2 1		1	. 6		ı	1000	3		19	No No	
Greysouthen										1		3	1			6	y Statutory Notices Peremptory ,, Verbal Notices	in di
Gilcrux, Greengill, and Bullgill				3				1		. 2	2					8	npt npt	iste
Isel Old Park		. 1														1	att ren rbs	ope
Lorton Loweswater, Mosser, & Mockerk	in															2	St Pe Ve	Shorts
Millbeck and Applethwaite		1	1											1 ,		2	abated by	on the Register Workshops
Newlands		863										1	1:				ped	W.
Pardshaw, Dean, and Deanscales		1											1				bat,	Sof
Papcastle and Goat		. 3			ı					. :	2	1	0 854			8		hol
Plumbland and Warthole											1		1	1	1	3	1ce	ks
Parsonby and Arkleby Seaton							I				I	2				4 46	uisances "	/or
Stainburn and Winscales						0.00	· · ·	S 1000	The state of	1	7	100	0 887	. 1		13	lui,	and Workshops
St. John's, Legburthwaite and	-		1	1			1	1		1		1				3	of N	and
Wythburn										. :	2			. 1	1	3	o r	r of
Thornthwaite																	umber "	bei
Thackthwaite Tallantire								1.		8 8		1				18		Factories a
Ullock and Branthwaite						2	1			2		1				2	Z	EZ
Under Skiddaw										1						2		
Workington Rural										I :	3					4		
			1					1			1							
Totals		-	-	-	-		-	-		-	-	-	-	1		-		
IOIALS		1 39	1 3	31 :	6 0	4 1	ol (117.	4 1:	41/	124	5 3	9	127	1	1528	1	

