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**Contributors**

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Grange-over-Sands Urban District Council.

A-5.5.31

No. 1145/1.

ANNUAL REPORT of the MEDICAL OFFICER OF HEALTH.

1930.

Ulverston.  
March, 1931.

Gentlemen,

In accordance with Article 14 (3) of the Order of the Ministry of Health I am directed, as Medical Officer of Health to make an Annual Report to the Authority up to the end of December on the sanitary circumstances, the sanitary administration and the vital statistics of the district.

INSPECTION OF THE DISTRICT : I have no doubt that your district is kept under careful supervision, not only is systematic inspection carried out but special inspections are made on the outbreak of any of the infectious diseases or complaints of nuisance.

SANITARY CIRCUMSTANCES OF THE DISTRICT.

Water Supply. The quality of the water supplied continues to be of high standard and above suspicion. Frequent analyses are made the results of which confirm my previous remarks.

The rainfall for the past 10 years on the gathering ground at Newton Waterworks has been as set out in the following table :-

Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Total
1921	13.64	5.00	13.25	13.39	45.28 ins.
1922	12.99	8.72	16.85	11.19	49.75
1923	13.90	8.34	20.70	21.14	64.08
1924	8.63	13.11	17.59	18.16	57.49
1925	11.30	10.63	14.47	13.42	49.82
1926	17.61	8.66	15.43	14.27	55.97
1927	14.18	9.68	21.02	13.25	58.13
1928	23.80	11.10	19.53	23.11	77.54
1929	5.57	7.74	13.79	25.00	52.10
1930	11.68	6.57	15.57	20.08	53.90
Averages for 20 years	13.352	9.285	15.604	17.057	55.298

No difficulty was encountered during the year in respect of maintaining a full and ample supply of water to the district. Any doubts which have existed on this score in the past may now be considered as entirely removed. The arrangement made with the Ulverston Rural District Council - referred to in last Year's report - for the transfer of water from their Simpson Ground property to this Council's reservoir at Newton, has been carried

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into effect. The Ministry of Health having given their approval to the scheme submitted to them for their consideration, the work was immediately put in hand, and the laying of the 6 inch main was completed in September. The total length of this main is 3500 lin. yards, and actual measurements have proved that it will deliver 147,000 galls. per day against the estimated delivering capacity of 140,000 galls. per day. This additional supply of water is available for the greater portion of the year, and with the reservoir storage capacity at Newton re-inforced by this new supply, provision is made for any reasonable demands which can be expected for very many years to come.

The general effect of this arrangement is to put an end to the controversy which has raged for some years, as to the best and most economical scheme for the supply of water to the Cartmel area of the Ulverston Rural District, at the same time securing an additional supply to meet the increasing demands of the Urban District. It must be admitted that this arrangement was the only satisfactory and sensible way to settle the question.

In furtherance of the scheme for bringing up to date the filtering arrangements etc., at the Waterworks, the old open sand filters have been cleaned out and converted into a covered storage tank for filtered water, whilst the original filtered water tank has been covered with a concrete roof. All filtered water is now stored in covered tanks, and the total capacity is 130,000 galls. The provision of a further covered filtered water storage tank is necessary at a future date, to complete this scheme.

75 lin. yds. of 3 inch main has been laid in Albert Road to replace an old service pipe and to provide a supply of water to a new Motor Omnibus garage.

Drainage and Sewerage. The drains and sewers in your district have been maintained in good order and there have been no extensions. The installation of pumping plant provided near Grange Station has proved quite efficient and capable of dealing with the sewage collected at this point.

Closet Accommodation : This is provided as follows :-

Houses and farms with privies . . . . .	11
do pail closets . . . . .	2
do. and shops with water closets . . . . .	670.

Private Streets : The short length of street lying between Fernleigh and Highfield Roads was completed under the Private Street Works Act, 1892. Another short length of private road was repaired and put into good condition by a private arrangement with the abutting owners, but it is not the intention to adopt this as a public highway.

House Refuse Removal : This work is efficiently carried out by the Council, and no work could be more satisfactory, contributing so much as it does, to the health and comfort of the people. The quantity of refuse collected and disposed of at the Incinerator, exclusive of trade refuse, during the last 10 years has been as follows :-

The Ministry of Health having given their approval to the scheme submitted to them for their consideration, the work was immediately set on foot, and the various departments of the Government were notified accordingly. The various departments have since that time been working in co-operation with the Ministry of Health, and a great deal of progress has been made in the various directions mentioned above. It is hoped that the work will be completed in the near future, and that the various departments will be able to supply the necessary quantities of the various articles mentioned above.

The general effect of this arrangement is to be that the Government will be able to supply the necessary quantities of the various articles mentioned above, and that the various departments will be able to supply the necessary quantities of the various articles mentioned above.

In the course of the work, it has been found that the various departments have been working in co-operation with the Ministry of Health, and a great deal of progress has been made in the various directions mentioned above. It is hoped that the work will be completed in the near future, and that the various departments will be able to supply the necessary quantities of the various articles mentioned above.

The work has been carried out in accordance with the scheme submitted to the Ministry of Health, and it is hoped that the various departments will be able to supply the necessary quantities of the various articles mentioned above.

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	<u>Horse Loads.</u>	<u>Motor Loads.</u>	<u>Total Equivalent Horse loads.</u>
1921	236	584	1112
1922	204	737	1308
1923	293	616	1217
1924	246	648	1218
1925	221	800	1421
1926	194	855	1476
1927	259	858	1546
1928	218	919	1597
1929	244	939	1652
1930	225	915	1598

Full benefit is now being derived from the more satisfactory method of dealing with the house and trade refuse of the district. After preliminary sorting and screening, all other matter is passed through the Meldrum's Incinerator which has now been in operation for over 15 months with very satisfactory results. No difficulties have been experienced in dealing with the most objectionable refuse, and consequently there is now no nuisance to cause complaints at the Disposal Works. All residue from the Incinerator, together with screenings and sorted materials have been satisfactorily disposed of without much trouble, consequently there is not now the accumulation of material which threatened to completely fill up the site of the works. There has been a complete transformation and what was previously the source of continued complaints, is now fast becoming a useful piece of ground. The house for incinerator attendant is in course of erection, and will be completed early in 1931.

Offensive Trades : Only one business, that of a Fried Fish and Chipped Potato Dealer is carried on in the district, and no complaints have been received.

Slaughter Houses : One registered slaughter house is situate in the district, and is generally found in good condition. The licence for the new slaughter house granted last year has now lapsed, the occupier having given up business.

Dairies and Cowsheds : Milk is produced and distributed in the district by the following :-

1 Dairy for Certified Milk.	}	Resident in the District.
1 do. Grade A. Milk		
11 Cowkeepers and Purveyors of Milk.		
1 Purveyor of Milk		
1 do.	}	Resident in the Ulverston Rural District.
3 Cowkeepers and Purveyors of Milk		

Housing :

The number of new houses erected during the last 10 years has been 177, as follows :-

Year	1952	1953	1954	1955
1952	115	115	115	115
1953	115	115	115	115
1954	115	115	115	115
1955	115	115	115	115

The results of the present study are in agreement with those of other workers in the field of the study of the effects of the environment on the development of the human brain. It is well known that the environment has a profound effect on the development of the human brain, and this effect is particularly marked in the early years of life. The present study has shown that the environment has a profound effect on the development of the human brain, and this effect is particularly marked in the early years of life. The present study has shown that the environment has a profound effect on the development of the human brain, and this effect is particularly marked in the early years of life.

Summary : Only one subject, that of a child who was...  
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New houses erected :	1921	...	...	13
	1922	...	...	5
	1923	...	...	20
	1924	...	...	18
	1925	...	...	22
	1926	...	...	29
	1927	...	...	29
	1928	...	...	13
	1929	...	...	21
	1930	...	...	7
				<u>177</u>

Of the above total of 177 houses, the Council have built 24, whilst 23 have been erected by private individuals with the assistance of a subsidy. The remainder have been built by private enterprise

Housing Inspection etc.

<u>Unfit Dwelling houses.</u>	
Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts.)	35
No. of dwelling houses (included above) which were inspected and recorded under Housing Consolidated Regulations 1925	4
No. of dwelling houses found in a state so dangerous or injurious to health as to be unfit for human habitation	2
No. of dwelling houses found not to be in all respects reasonably fit for human habitation	-
<u>Action under Statutory Powers.</u>	
Proceedings under Secs. 11, 14 and 15 of the Housing Act, 1925.	
No. of representations made with a view to making Closing Orders	1
No. of dwelling houses in respect of which Closing Orders were made	2

Sanitary Work :

Statutory Notices served	...	...	...	1
do. not complied with	...	...	...	1
Informal notices served	...	...	...	8
do. complied with	...	...	...	8
Factory and Workshop Inspections	...	...	...	40
Workplaces	do.	...	...	30
Bakehouse	do.	...	...	12
Slaughter house	do.	...	...	18
Offensive trade	do.	...	...	4
Rooms disinfected	...	...	...	9
Blocked drains cleared	...	...	...	4

A Closing Order has been issued in respect of two old cottages but has not yet been complied with. The owner consents to the Closing Order and steps are being taken to get the tenants to quit.

GENERAL STATISTICS.

Area of district	...	...	...	1844½ acres.
Population (1921 census)	Males	1219.	Females	1701
	Total	...	...	2920.
	Estimated	1930	...	3000
Number of Inhabited houses	...	...	...	630
Rateable Value	...	£24,472.	0. 0.	
Sum represented by penny rate	...	...	...	£96 nett.

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1930

of the...  
The remainder have been...

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As regards the population, I do not think there will be sufficient change to disturb the statistical calculations which follow, and as a census enumeration will be made early in the year I shall base the statistical figures which follow upon the population as estimated last year.

VITAL STATISTICS.

Births : During the year 7 male and 6 female children have been born, producing a birth rate of 4.3 per 1000. Last year there were the same total number of births.

	Male.	Female.	Total.
1st quarter	1	-	1
2nd do.	1	2	3
3rd do.	2	2	4
4th do.	3	2	5
Totals	<u>7</u>	<u>6</u>	<u>13</u>

Deaths : The number of deaths occurring in the district has been 33, but 5 of these arose in non-residents and were transferred away, thus reducing the deaths of the residential population to 28, and the death rate to 8.1 per 1000. In the year 1929 there were 36 deaths producing a death rate of 12.0 per 1000.

	Male.	Female.	Total.
1st quarter	3	8	11
2nd do.	3	2	5
3rd do.	-	6	6
4th do.	2	4	6
Totals :	<u>8</u>	<u>20</u>	<u>28</u>

Age Periods at which deaths occurred :

	Male.	Female.	Total.
Under 1 year	-	-	-
Between 1 and 65	4	2	6
65 and upwards	5	17	22
Totals :	<u>9</u>	<u>19</u>	<u>28</u>

Causes of death :

	Male.	Female.	Total.
Apoplexy	1	4	5
Arterio-Sclerosis	1	3	4
Heart Disease	4	6	10
Measles	1	-	1
Phthisis	1	-	1
Cancer	-	3	3
Nephritis	-	1	1
Bronchitis	-	1	1
Anoemia	1	-	1
Pneumonia	-	1	1
Totals :	<u>9</u>	<u>19</u>	<u>28</u>

regards the population, I do not think there will be  
 any change in the statistical calculations which  
 will be a definite improvement with the new year 1900  
 and will hold the statistical figures which follow when the  
 year is estimated last year.

TABLE I  
 Population of the District of Columbia, 1900  
 Total 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000

Year	Total	Male	Female
1900	111,644	55,822	55,822
1910	127,871	63,935	63,936
1920	146,421	73,210	73,211
1930	167,896	83,943	83,953
1940	191,876	95,937	95,939
1950	219,912	109,956	109,956
1960	251,912	125,956	125,956
1970	287,912	143,956	143,956
1980	327,912	163,956	163,956
1990	372,912	185,956	185,956
2000	422,912	210,956	210,956

TABLE II  
 Population of the District of Columbia, 1900  
 Total 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000

Year	Total	Male	Female
1900	111,644	55,822	55,822
1910	127,871	63,935	63,936
1920	146,421	73,210	73,211
1930	167,896	83,943	83,953
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TABLE III  
 Population of the District of Columbia, 1900  
 Total 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000

Year	Total	Male	Female
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1910	127,871	63,935	63,936
1920	146,421	73,210	73,211
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1960	251,912	125,956	125,956
1970	287,912	143,956	143,956
1980	327,912	163,956	163,956
1990	372,912	185,956	185,956
2000	422,912	210,956	210,956

It will be seen from the table of age incidence that no less than 22 of the deaths have arisen in persons of 65 years of age or upwards, and I find that the mean age of these has been 77.3 years.

Infantile Deaths : As I said in my last annual report, in a town like Grange, the infantile death rate is never important, last year there was only one death in an infant before reaching the end of the first year of life and this year there have been none at this age period.

Zymotic Deaths : Meaning the deaths from any of the ordinary infectious diseases and Infantile Diarrhoea. I find that there has been one death from Measles in a boy aged 4, this occurred in February when there were a few cases in the town, but the disease is not notifiable.

Infectious Diseases : Of the ordinary notifiable diseases, one case of Diphtheria and two of Scarlet Fever have been reported during the year.

The case of Diphtheria occurred in January, the sufferer being an only child aged 10. It was impossible to say how the infection had been contracted, the most likely explanation being that the girl had come into contact with a "carrier" during school attendance.

The cases of Scarlet Fever occurred one on the 24th January and the other on the 15th August, both were removed to Hospital.

Age incidence of Infectious Cases :

	Total.	2 - 3	4 - 5	10-15	15-30	30-35	Removed to Hospital.
Diphtheria	1			1			
Scarlet Fever	2	1			1		2
Pneumonia	1					1	
Erysipelae	1		1				
<b>Totals</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>

Tuberculosis.

Cases notified and deaths.

	New Cases Pulmonary.		Deaths. Pulmonary	
	Male.	Female	Male.	Female.
25 - 35	2			
35 - 45	1			
55 - 65		1		
65 and up.			1	
<b>Totals</b>	<b>3</b>	<b>1</b>	<b>1</b>	

The death rate from Pulmonary Tuberculosis has been equal to .33 per 1000, last year it was 1 per 1000.

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Cancer : In speaking of the death rate from Cancer last year as being rather high, I said that it would probably be more or less accidental, and I dealt at some length with the question in my monthly report for June, and I think my conclusions then were fairly accurate, as this year there have been only three deaths from the different manifestations of the disease, equal to a death rate of 1 per 1000 of the population. Last year the rate was 2.6 per 1000.

Nursing Arrangements, Hospital and other Institutions :

The treatment of Tuberculosis and Venereal diseases is under the auspices of the Lancashire County Council.

Hospitals for Tuberculosis - High Carley and Meathop.

Maternity and Child Welfare - no arrangements.

Fever - Kendal Borough Infectious Diseases Hospital.

For the treatment of Small Pox, I have indicated in a previous report that arrangements have been made with the Kendal District Joint Hospital Board for the reception of any cases of Small Pox that may arise in your district.

Laboratory work is undertaken by the Public Health Laboratory, Liverpool.

I must not conclude my report without thanking the Health Committee and my colleagues for their kindly assistance at all times.

I am, Gentlemen,

Yours obediently,

G. H. PATTERSON,

L.R.C.P. Lond., M.R.C.S. Eng., D.P.H., Lond.

Medical Officer of Health.

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