

[Report 1970] / Medical Officer of Health, Ruthin R.D.C.

Contributors

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RURAL DISTRICT OF RUTHIN

ANNUAL

HEALTH REPORT

1970

Medical Officer of Health

- M. JONES ROBERTS, M.B., Ch.B., D.P.H.
(retired 31:3:70).

From 1:4:70

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Public Health Inspector

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To the Chairman and Members of the Ruthin Rural
District Council.

Mr. Chairman and Councillors,

It is with pleasure that I and the Public Health Inspector present this report on the health of the Rural District during the year 1970.

The year ended in expectation of major changes in both Local Government and the Health Services.

We wish to thank you, Mr. Chairman and all the members of the Council for your help, support and guidance during the year.

We thank Dr. M. Jones Roberts for the excellent work she has done diligently as District Medical Officer to the area over the years since her appointment in 1951.

Cyn terfynnu hoffwn ddiolch yn gynnes am gymorth diffuant y Cyngor a'r Swyddogion er pan fu i mi gymryd drosodd ddyledswyddau'r swydd o Feddyg Iechyd y Cyngor. 'Rwyf yn ddiolchgar i Dr. A. L. J. Williams am ei gyfryfoldeb o ran helaeth o'r gwaith ac hefyd i'r Arolygwyr Iechyd am eu brwdfrydedd a'u teyrngarwch.

Yr eiddoch yn gywir,

M. T. ISLWYN JONES.

Medical Officer of Health.

The Chairmen of the Council and the Committees during the year were as follows:-

Chairmen of the Council:-

January - May, 1970 - Councillor Llewelyn Roberts,
June - December, 1970. - Councillor John Stoddart,

Chairman of the Public Health Committee:-

January - December, 1970. Councillor C. Morris.

Chairman of the Housing Committee:-

January - May, 1970. - Councillor G. H. Roberts.
May - December, 1970. - Councillor Eric Williams.

GENERAL STATISTICS OF THE RURAL DISTRICT.

Area of the Rural District	98,651 acres.
Registrar General's estimated mid-year population . . .	9,120
Rateable Value (1:4:69.)	£280,131.
Sum represented by a penny rate	£1,101
Number of inhabited houses	3,374

The estimated population was 9,120 compared with 9,170 in 1969.

The number of inhabited houses has increased from 3,358 in 1969 to 3,374 in 1970.

DEATHS.

Comparability Factor: .90

	<u>England and Wales 1970</u>	<u>Ruthin R.D.C.</u> 1969	1970
Crude Death Rate (per 1,000 population)	11.7	12.4	12.8
Corrected Death Rate (per 1,000 population)	11.7	12.8	11.5
Still-Birth Rate (per 1,000 total live and still-births)	13	N11	8
Maternal Mortality Rate	0.18	N11	N11
Infant Mortality Rate (per 1,000 total live births)	18	18	N11
Neo-natal Mortality Rate (deaths under 4 weeks per 1,000 total live births)	12	18	N11
Early Neo-natal Mortality Rate (deaths under 1 week per 1,000 total live births).	11	18	N11
Peri-natal Mortality Rate (stillbirths and deaths under 1 week combined per 1,000 total live and still-births)	23	18	8

The following table shows the number of deaths which occurred during the year.

Cause of Death	Sex	Total all Ages	15-24	25-34	35-44	45-54	55-64	65-74	75 and over
Malignant Neoplasm, Stomach	M	1	-	-	-	-	-	-	1
	F	3	-	-	-	-	-	1	2
Malignant Neoplasm, Intestine	M	2	-	-	-	-	1	-	1
	F	-	-	-	-	-	-	-	-
Malignant Neoplasm Lung, Bronchus	M	3	-	-	-	1	2	-	-
	F	-	-	-	-	-	-	-	-
Malignant Neoplasm, Breast	M	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	1
Malignant Neoplasm, Prostate	M	1	-	-	-	-	-	1	-
Laukaemia	M	1	-	-	-	-	1	-	-
	F	-	-	-	-	-	-	-	-
Other Malignant Neoplasms	M	2	-	-	-	-	-	4	1
	F	2	-	-	-	1	-	1	-
Other Diseases of Nervous System	M	1	-	-	-	-	1	-	-
	F	-	-	-	-	-	-	-	-
Hypertensive Disease	M	1	-	-	-	-	1	-	-
	F	1	-	-	-	-	-	1	-
Ischaemic Heart Disease	M	17	-	-	1	2	2	7	5
	F	17	-	-	-	1	2	4	10
Other Forms of Heart Disease	M	4	-	-	-	-	-	1	3
	F	3	-	-	-	-	-	-	3
Cerebrovascular Disease	M	13	1	-	-	1	1	3	7
	F	9	-	-	-	-	-	2	7
Other Diseases of Circulatory System	M	2	-	-	-	-	-	-	2
	F	3	-	-	-	-	1	1	1
Influenza	M	3	-	-	-	-	-	3	-
	F	3	-	-	-	-	-	2	1
Pneumonia	M	2	-	-	-	-	-	1	1
	F	1	-	-	-	-	-	-	1
Bronchitis and Emphysema	M	5	-	-	-	-	2	2	1
	F	-	-	-	-	-	-	-	-
Other Diseases of Respiratory System	M	2	-	-	-	-	1	-	1
	F	1	-	-	-	-	1	-	-
Intestinal Obstruction and Hernia	M	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	1
Other Diseases of Digestive System	M	-	-	-	-	-	-	-	-
	F	1	-	-	-	1	-	-	-
Hyperplasia of Prostate	M	1	-	-	-	-	-	-	1

Cause of Death	Sex	Total	15-24	25-34	35-44	45-54	55-64	65-74	75 and over
		all Ages							
Other Diseases, Genito-Urinary System	M	1	-	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-
Symptoms and Ill-Defined Conditions	M	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	1
Motor Vehicle Accidents	M	2	-	1	-	-	-	-	1
	F	-	-	-	-	-	-	-	-
All Other Accidents	M	2	1	1	-	-	-	-	-
	F	2	-	-	1	-	1	-	-
Suicide and Self-Inflicted Injuries	M	1	-	1	-	-	-	-	-
	F	-	-	-	-	-	-	-	-
Total All Causes	M	67	2	3	1	4	12	19	26
	F	49	-	-	1	3	5	12	28

There were 116 deaths during the year compared with 114 the previous year, giving a corrected death rate of 11.5 compared with 12.8 in 1969 and 11.7 for England and Wales. This corrected death rate has improved from being greater than the national (British) average to being marginally better.

Of these deaths, nearly half (54) occurred in persons aged 75 years and over. No deaths occurred under the age of 15 years and only 2 in the 15 to 24 year age group, one of these was due to cerebrovascular disease and the other was an accidental death.

Diseases of the heart and circulation accounted for by far the largest proportion of deaths. This year they accounted for 60% of the total deaths. Ischaemic heart disease was the largest single cause of death accounting for 34 deaths. This disease along with cancer of the lung, which caused 3 deaths and bronchitis and emphysema which caused 5 deaths, is associated with smoking, particularly cigarette smoking and it is hoped that future years will see a decline in deaths from these causes as people relinquish this deadly pleasure.

Cancer caused 16 deaths compared with 21 last year. Of these 16 deaths, 6 occurred in persons under 65 years of age, 3 due to malignant neoplasm of the lung, 1 from malignant disease of the intestine, 1 from leukaemia and 1 from other malignant disease.

Influenza caused 6 deaths and pneumonia 3 deaths, all in persons over 65 years of age. Other diseases of the respiratory system caused 3 deaths.

There was one death in a female from intestinal obstruction and hernia, and one from other disease of the digestive system.

One elderly male died as a result of enlarged prostate gland and another elderly male from other diseases of the genito urinary system.

Symptoms and ill defined conditions accounted for one death in an elderly male.

There were 6 deaths due to accidents; 2 males, one in the 25-34 year age group and one from 75 years of age died as the result of motor vehicle accidents.

There was one suicidal death.

No deaths occurred this year from tuberculosis compared with 3 in 1969.

Infant Deaths.

There were no infant deaths this year compared with 2 in 1969 and one in 1968, giving an Infant Mortality Rate of nil compared with 18 per 1000 live births for England and Wales.

Peri-natal Deaths.

Peri-natal deaths are stillbirths and deaths within the first week of life. These are both due to similar causes and are thus combined to give the Peri-natal Mortality Rate.

There was one stillbirths giving a Perinatal Mortality Rate of 8 per 1,000 total births compared with 18 for 1969, and 23 for England and Wales.

The stillbirth occurred following a premature labour and was attributable to placental insufficiency.

Maternal Mortality.

There were no maternal deaths giving a Maternal Mortality Rate of nil compared with nil last year and 0.18 for England and Wales.

BIRTHS.

Comparability Factor: 1.15

Number of births relating to residents: 118

There are no maternity hospitals in the rural district and mothers are admitted to maternity homes or hospitals outside the area for their confinement.

The births were classified as follows:-

	<u>Males</u>	<u>Females</u>	<u>Total</u>	
Legitimate	62	49	111	
Illegitimate	4	3	7	
	<u>66</u>	<u>52</u>	<u>118</u>	
		<u>England and</u>	<u>Ruthin R.D.C.</u>	
		<u>Wales, 1970</u>	<u>1969</u> <u>1970</u>	
Crude Birth Rate (per 1,000 home population)		16.0	12.2	12.9
Corrected Birth Rate (per 1,000 population)		16.0	14.0	14.8

INFECTIOUS DISEASES

The following table shows the number of cases of infectious diseases in the various age groups notified during 1970. The number notified during 1969 is given in the first column for comparison.

Notifiable Disease	Total 1969	Total 1970	Under 1 yr.	1-5 yrs.	6-15 yrs.	16-25 yrs.	26-45 yrs.	46-65 yrs.	66 & over	Age Unknown.
Measles	14	199	1	73	121	-	1	-	1	2
Food Poisoning	1	5	-	-	-	2	2	1	-	-
Infective Jaundice	-	1	-	-	1	-	-	-	-	-
Whooping Cough	-	7	-	4	3	-	-	-	-	-
Dysentery	5	-	-	-	-	-	-	-	-	-
	<u>20</u>	<u>212</u>	<u>1</u>	<u>77</u>	<u>125</u>	<u>2</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>2</u>

The total number of cases notified in the area during the year was 212 compared with 20 in 1969. This tenfold increase was due largely to an outbreak of measles during the months of April, May and June, with a total of 199 cases compared with 14 in 1969. Due to the shortage of measles vaccine the vaccination programme received a setback and this resulted in an increase in the number of children susceptible to the disease. The number of cases notified during 1970 is higher than in any of the previous 9 years.

There were 7 cases of whooping cough compared with none in 1969, and 7 in 1968. All cases occurred in children over 1 year of age; the disease is considerably less hazardous in this group than in young babies.

Five cases of food poisoning were notified in the area during the year; of these 4 cases occurred in one family, the symptoms occurred in the first case whilst she was staying in Southern England. The Medical Officer of Health for that area was informed. Three other members of the family subsequently developed the disease but no cases occurred outside the family and negative results were obtained following treatment. One other case of food poisoning occurred in a young woman; this case had no connection with the family outbreak.

One case of infective jaundice occurred in a ten year old schoolgirl who was a member of a party visiting the area during the summer holidays. She developed symptoms during the journey to the area and was admitted to hospital two days later; she was kept in hospital nine days and then discharged home. No further cases occurred in the area and the Medical Officer for her home area was notified.

The following cases of infectious diseases among school children were reported by head teachers.

Measles	45
Mumps	77
German Measles (Rubella)	32

This reporting by head teachers gives a good indication of the prevalence of childhood disease in the community. In many of the cases the family doctor had not been called in and we would not have been aware of the disease without the diligence of the head teachers concerned.

Anthrax.

Several cases of suspected anthrax were notified during the year, but none were confirmed on further investigation. The notices were withdrawn.

No confirmed cases of anthrax occurred during the year.

Brucellosis.

This is not yet a notifiable disease but two human cases were reported during the year.

One case occurred in a young lady whose work has not involved contact with animals. The milk supply was checked and found to be satisfactory and following investigation it was concluded that she had contracted the disease whilst staying outside the area.

The other case occurred in a farmer's wife following an infection in the farm's cattle.

Milk from all producer/retailers' who sell raw milk are taken at least every quarter by the County Public Health Inspector. During the year eight herds in the area were confirmed as being infected with brucellosis.

While this disease occurs so frequently in cattle, all who drink raw (untreated) milk run the hazard of contracting this insidious disease which can lead to chronic illhealth. Measures are being introduced in an

attempt to eradicate this disease from cattle and until this reservoir of infection is eliminated, human cases will continue to occur.

Tuberculosis.

The following table shows the number of cases of tuberculosis notified and the number on the register at the beginning and the end of the year;

	<u>Pulmonary</u>		<u>Non-Pulmonary</u>		<u>Total</u>
	<u>Males</u>	<u>Females</u>	<u>Males</u>	<u>Females</u>	
Number on Register on 1st January, 1970.	17	7	2	4	30
Number on Register on 31st December, 1970.	14	5	1	4	24

Two cases of tuberculosis were notified as compared with none in 1969, and two in 1968. Both cases were adult females, one non-pulmonary and one pulmonary.

Eight cases of tuberculosis were removed from the register during the year, 5 having left the area and 3 patients having been cured of the disease.

The new notifications illustrate that this disease is a continuing problem and it is essential that vigilance is maintained until it is completely eradicated.

PREVENTION OF INFECTIOUS DISEASES.

The following shows the number protected by prophylactic measures:-

	<u>Primary</u>	<u>Booster</u>
Diphtheria	112	138
Whooping Cough	110	48
Tetanus	131	143
Poliomyelitis (sabin vaccine)	101	165
Poliomyelitis (salk vaccine)	1	-
Measles	16	-
Smallpox	107	28
Rubella	32	-

A new immunisation procedure was introduced during the year, namely protection against Rubella (German Measles). This is a trivial illness but when infection occurs during pregnancy it can have disastrous effects on the unborn child, causing blindness, deafness, mental subnormality or heart disease or indeed all four in some cases. Protection against this disease is being offered to all girls in the age group 11-13 years, to eliminate the risk of their contracting the disease during their later child bearing years. This procedure introduces a new concept in protection against infectious disease in that it is not primarily for the protection of the individual but for the benefit of the next generation.

Tuberculosis - B.C.G. Vaccination.

Brynhyfryd Comprehensive School.

Number of children tested:	112
Number of children found to be positive:	7
Number of children found to be negative and given B.C.G. vaccination:	103

Those found to be positive were followed up by chest x-ray examination at the nearest chest clinic. Members of the family were also investigated.

The Mass Radiography Unit visited the following areas during the year:-

	Total number examined	Number found to be abnormal.	Requiring further observation	Other abnormal- ities of the chest.	Total Males	Females
Llanarmon Yn Ial	54	1 or 1.85%	-	- or 1.85%	24	30
Graianrhyd	43	1 or 2.33%	-	1 or 2.33%	27	16
Llanferres	60	1 or 1.67%	-	1 or 1.67%	9	51
Loggerheads	34	-	-	-	17	17
Maeshafn	14	1 or 7.14%	-	1 or 7.14%	4	10
Bryneglwys	27	1 or 3.70%	1 or 3.70%	-	15	12
Llandegla	30	-	-	-	14	16
Llanfair D.C.	62	1 or 1.61%	-	1 or 1.61%	27	35
Clawddnewydd	41	-	-	-	11	30

Care of the Aged.

No action was taken under Section 47 of the National Assistance Act, 1948, during the year.

A request was received from an Area Welfare Officer of the County Council to visit an old lady who it was felt was in need of assistance but would not accept it.

She was visited and found to be comfortably housed in one of the authority's bungalows which was reasonably clean. She was not confused but her memory was very poor. She was in need of medical treatment and had persistently refused. After considerable persuasion and coercion she eventually agreed to accept treatment from the District Nursing Sisters and to have the services of a County Home Help. Neighbours were also very ready to help. She made steady progress but unfortunately two months later she had an accident and was admitted to hospital.

Another old lady was visited following a report that she appeared confused. She was in poor physical health and housebound as a result. She was rational and as the result of excellent neighbours, was well cared for. She, however, was in need of supervision and this was arranged with the Health Visitor and Area Welfare Officer. A Home Help was also provided daily.

SANITARY CIRCUMSTANCES IN THE AREA.

Housing.

Forty pre-war dwellings and 445 post-war dwellings have been built by the Council, making a total of 485 dwellings. A further 15 two-bedroom bungalows were in course of erection at the end of the year, but none of these had been completed.

16 privately owned houses were completed and occupied since 1969, an increase of 3 on the previous year.

Regular inspections of council houses were carried out, and with very few exceptions, they were found to be in a satisfactory condition.

14 discretionary grant schemes were completed during the year. Since the Housing Acts, 1949 - 1954 introduced the scheme 290 houses have been improved at a cost to the Council of approximately £95,111.

During the year 13 standard grant schemes were completed. Since the House Purchase and Housing Act, 1959, introduced the system to supplement the discretionary grant scheme, 93 houses have been improved, at a cost to the Council of approximately £15,587.

Schools.

Inspections of the schools in the district revealed that they were being well maintained.

The school at Llanelidan was closed during the year. The total number of schools in the district has therefore been reduced from 18 to 17.

A new school is now in course of erection at Llandyrnog, to replace the existing primary school.

School Canteens.

The standard of hygiene and cleanliness in all the school canteens was found to be generally high. On account of the closure of the school at Llanelidan, the number of school canteens in the district has now been reduced to 12.

Of the 17 school canteens, there are only two which are not of good structural standard and design. These are situated at Graianrhyd and Derwen. However, the number of persons catered for at these two canteens is small, and every effort is made to comply with the Food Hygiene Regulations.

Food.

Number of food premises in the area: 98

The food premises in the area are mainly family concerns and only a few employ assistants. Regular inspections indicated that conditions were generally satisfactory as regards compliance with the Food Hygiene Regulations, and no statutory action was found necessary.

Food Hygiene (General) Regulations, 1960.

The following table indicates the various types of food premises in the area subject to the Food Hygiene (General) Regulations, 1960, and the numbers fitted to comply with regulations 16 and 19.

Type of Food Premises	Number	No. fitted to comply with Regulation 16.	No. to which Regulation 19 applies.	No. fitted to comply with Reg. 19.
Shops	40	40	24	24
Public Houses	26	26	26	26
Hotels	3	3	3	3
Cafés	6	6	6	6
School Canteens	17	17	17	17
Other Canteens	2	2	2	2
Vans	3	3	3	3
Dairies	1	1	1	1
	98	98	82	82

Condemned Foodstuffs.

1 - 6 lb. tin of Libby's Corned Beef was condemned during the year.

Food Sampling.

We are grateful to Mr. Owens, Chief Inspector for the County of Denbigh, for particulars of samples taken under the Food and Drugs Act, 1955, during the year.

ARTICLE	No. Taken.	GENUINE.	NOT GENUINE OR SUB-STANDARD.
Milk	16	15	1
Lard	1	1	-
Meat Pudding	1	1	-
Red Cabbage	1	1	-
Salmon Spread	1	1	-
Sauce	1	1	-
Soft Drink	1	1	-
Tea	1	1	-
Gin	1	1	-
Slimming Diet	1	1	-
Syrup of Figs	1	1	-
Throat Lozenges	1	1	-
Sweets	1	1	-
TOTAL	28	27	1

Of the 16 samples of milk submitted to the Public Analyst, only one received an adverse report. This sample was found to be below the standard for fat. Appeal to cow samples were taken and the results obtained were above the required standard. This matter has now been rectified and the person concerned advised and cautioned. Of the samples submitted five milks were tested for the presence of antibiotics with a negative result in each instance. Otherwise all samples were certified by the Analyst to be genuine and free from all prohibited preservatives and colouring matter.

Poultry Processing Premises.

There are no poultry processing premises within the district.

Milk Supplies.

The sampling of milk supplies forms part of the functions of the Denbighshire County Council who are the Food & Drugs Authority for the area.

When required, the Council's Public Health Inspector's co-operate with the County Public Health Officer in procuring samples of milk from the various milk retailers throughout the district. Arrangements for the analysis of the milk samples and keeping of records etc. is undertaken by the Food and Drugs Authority.

Ice Cream.

There are no manufacturers of ice cream in the district but 51 premises are registered for the sale of pre-packed ice cream. Vehicles from adjoining districts retail ice cream in the area. All premises were periodically inspected and found to be satisfactory.

Slaughterhouses.

There are no licensed slaughterhouses within the district.

Water Supplies.

The water supply to the district is controlled and administered by the West Denbighshire and West Flintshire Water Board.

The number of dwelling houses and population supplied from the Water Board's mains are as follows:-

	No. of dwelling houses supplied by Water Board's Mains direct to the houses.	Population	Dwelling houses served by stand- pipes.	Popu- lation.
Abersheeler	75	184	0	0
Bryneglwys	68	181	0	0
Clocaenog	54	150	0	0
Derwen	94	271	0	0
Efenechtyd	83	216	0	0
Cyffylliog	50	142	0	0
Llanarmon	327	786	2	4
Llanbedr	166	444	0	0
Llandegla	115	232	1	2
Llanelidan	123	355	0	0
Llandyrnog	263	1100	0	0
Llanfair D.C.	275	750	0	0
Llanferres	193	592	3	6
Llanfrog	53	203	0	0
Llangynhafal	159	450	0	0
Llanrhaeadr	266	803	0	0
Llanynys	215	601	0	0
Nantglyn	62	145	6	8
	2641	7605	12	20

Reports on Water Samples taken during the year.

Samples of mains water are taken regularly from various parts of the district, and sent for bacteriological examination. In this way the Council are kept constantly informed of the standard of the supplies.

All unsatisfactory reports are brought to the attention of the Water Board who have been very co-operative in their endeavours to improve the the supplies.

145 samples of mains water were sent for bacteriological examination during the year, and were classified as follows:-

Class 1.....	126 samples
Class 2.....	7 samples
Class 3.....	Nil samples
Class 4.....	12 samples
Total:	145 samples

During the year 19 samples of raw water from private supplies were taken and sent for bacteriological examination. All unsatisfactory reports were followed up and the owners advised as to the steps to be taken to bring about an improvement in their supplies. The samples were classified as follows:-

Satisfactory for private supplies:	7 samples
Containing a small number of	
Bact. coli :	8 samples
Unsatisfactory :	4 samples
Total :	19 samples

Chemical Samples.

Five chemical samples were taken during the year. Details of these samples are as follows:-

14th October 1970. Nant-y-Ne Filters.

Analysis.

Appearance	clear & colourless
Odour	chlorinous
Reaction, pH	8.0
Colour (Hazen Units)	less than 5
	- parts per million -
Total solids	104
Nitrogen as free and saline ammonia	0.035
Nitrogen as albuminoid ammonia	0.00
Nitrogen as nitrites	nil
Nitrogen as nitrates	0.5
Chlorides, as Cl	16
Oxygen absorbed from permanganate in 4 hours at 27°C	1.0
Total hardness	43
Temporary hardness	26
Permanent hardness	17
Alkalinity	26
Total residual chlorine	0.35
Free available chlorine	0.2
Potassium, as K	0.4
Anionic synthetic detergents	-
Manganese, as Mn	less than 0.025
Cyanides and thiocyanates	-
Poisonous metals	nil
Iron, as Fe	0.07

Opinion

The chemical condition of this water is satisfactory.

14th October 1970. Meifod Filter Station.

Analysis.

Appearance	clear
Odour	nil
Reaction, pH	7.15
Colour (Hazen Units)	15
	- parts per million -
Total solids	82
Nitrogen as free and saline ammonia	0.05
Nitrogen as albuminoid ammonia	0.00
Nitrogen as nitrites	nil
Nitrogen as nitrates	less than 0.5
Chlorides, as Cl	12
Oxygen absorbed from permanganate in 4 hours at 27°C	2.7
Total hardness	31
Temporary hardness	18
Permanent hardness	13
Alkalinity	18
Total residual chlorine	less than 0.1
Free available chlorine	ni.
Potassium, as K	0.4
Anionic synthetic detergents	-

Manganese, as Mn	less than 0.025
Cyanides and thiocyanates	-
Poisonous metals	nil
Iron, as Fe	0.17
Free carbon dioxide	4

Opinion

The chemical condition of this water is satisfactory.

14th October 1970.

Moel Famau Intakes.

Analysis

Appearance	clear & colourless
Odour	nil
Reaction, pH	7.2
Colour (Hazen Units)	less than 5 - parts per million -
Total solids	90
Nitrogen as free and saline ammonia	0.045
Nitrogen as albuminoid ammonia	less than 0.01
Nitrogen as nitrites	nil
Nitrogen as nitrates	less than 0.5
Chlorides, as Cl	14
Oxygen absorbed from permanganate in 4 hours at 27°C	1.1
Total hardness	36
Temporary hardness	10
Permanent hardness	26
Alkalinity	10
Total residual chlorine	0.15
Free available chlorine	nil
Potassium, as K	0.4
Anionic synthetic detergents	-
Manganese, as Mn	less than 0.025
Cyanides and thiocyanates	-
Poisonous metals	nil
Iron, as Fe	0.01

Opinion

The chemical condition of this water is satisfactory.

21st October 1970.

Cricor Filter Stn.(tap)

Analysis.

Appearance	clear slight yellow
Odour	nil
Reaction, pH	7.3
Colour (Hazen Units)	20 - parts per million -
Total solids	97
Nitrogen as free and saline ammonia	0.015
Nitrogen as albuminoid ammonia	0.00
Nitrogen as nitrites	nil
Nitrogen as nitrates	less than 0.5
Chlorides, as Cl	18
Oxygen absorbed from permanganate in 4 hours at 27°C	3.3
Total hardness	44
Temporary hardness	20
Permanent hardness	24
Alkalinity	20
Total residual chlorine	less than 0.1
Free available chlorine	nil
Potassium, as K	0.2
Anionic synthetic detergents	-
Manganese, as Mn	less than 0.025
Cyanides and thiocyanates	-
Poisonous metals	nil

Iron, as Fe

0.24

Opinion

The chemical condition of this water is satisfactory.

21st October 1970.

Llanynys Borehole (tap)

Analysis

Appearance	clear & colourless
Odour	nil
Reaction, pH	7.0
Colour (Hazen Units)	less than 5 - parts per million -
Total solids	203
Nitrogen as free and saline ammonia	0.00
Nitrogen as albuminoid ammonia	0.00
Nitrogen as nitrites	nil
Nitrogen as nitrates	2.0
Chlorides, as Cl	17
Oxygen absorbed from permanganate in 4 hours at 27°C	0.3
Total hardness	132
Temporary hardness	124
Permanent hardness	8
Alkalinity	124
Total residual chlorine	less than 0.1
Free available chlorine	nil
Potassium, as K	1.8
Anionic synthetic detergents	-
Manganese, as Mn	less than 0.025
Cyanides and thiocyanates	-
Poisonous metals	nil
Free carbon dioxide	26
Iron, as Fe	0.04

Opinion

The chemical condition of this water is satisfactory.

SEWERAGE AND SEWAGE DISPOSAL SCHEMES

The following report is submitted by Mr. Rogers, the Councils Engineer and Surveyor.

(a) New Sewerage Schemes

(1) Llanbedr Sewage Works Extension

The work of extending this sewage disposal works was completed during the year, and the plant is now operating very satisfactorily. Provision has been made at the works for the treatment of sewage from a substantial number of dwellings, should any development take place within the drainage area.

(2) Llanfair D.C. Sewage Works Extension.

Rhewl and Gellifor Sewer and Sewage Works Extension.

Tenders have been accepted for the completion of both these schemes, and the work is to commence in early 1971.

(3) Pwllglas Sewerage and Sewage Disposal Scheme

Welsh Office authority to proceed as far as inviting tenders has been received, and arrangements are being made to prepare the necessary detail plans and contract documents.

(4) Tafarn-y-Gelyn, Llanferres and Maeshafn Sewerage Scheme.

An Inquiry to investigate the Council's proposals for this scheme was held during the month of November by an Engineering Inspector from the Welsh Office. It has since become known that the Welsh Office have approved the scheme for loan consent purposes, and it is hoped to invite Tenders early in 1972.

(5) Llandyrnog Sewage Works Extension including Sewerage Scheme for Llanrhaeadr and Fentre.

Prolonged discussions have taken place between representatives of the Co-operative Wholesale Society, and the Council regarding technical details of the proposed works extensions, as well as regarding the financial aspects. It is hoped that agreement in principle concerning the major issues will soon be reached, when it will be possible to submit details of the scheme to the Welsh Office for their consideration.

(b) General Considerations

The District as a whole is fairly well served by sewerage and sewage disposal works. A few small works require replacing or enlarging in the villages of Llanellidan, Derwen, Clawddnewydd, Nantglyn and Graianrhyd, together with appropriate sewer extensions in some instances.

Closet Accommodation.

Twenty eight conversions from privies and pail closets to water closets were carried out during the year.

Rodent Control.

The Council has a rodent control service in operation and employs a part-time Rodent Operator, who carries out the practical work of destruction of rats and mice, under the supervision of the Public Health Inspector.

As a general rule a charge is made for this service in respect of treatments of business premises. Private dwellings are treated free of charge.

Caravan Sites.

The various caravan sites were inspected as frequently as possible, and were generally found to be satisfactorily maintained.

Following approval of applications by the Denbighshire County Planning Authority, two new caravan site licences were issued during the year. Two licences, formerly issued for a temporary period, were amended to allow for an unlimited period of approval, and one other licence was amended to allow for the siting of additional caravans.

Refuse Collection.

The following report is submitted by Mr. Rogers, the Council's Engineer and Surveyor.

The collection of refuse in the District is undertaken mainly on a fortnightly basis, except for a few commercial premises, where a weekly collection takes place. Three refuse vehicles, each with a crew of two operatives, are employed on this work.

A new refuse vehicle was delivered during the year to replace an older vehicle that had become un-serviceable.

Premises and Occupations which can be controlled by Byelaws or Regulations.

There are no offensive trades or hop-pickers in the district.

Rag Flock Act, 1951.

There are no premises within the district in which rag is manufactured, used or sold.

Rivers and Streams.

No complaints were received regarding the pollution of rivers or streams.

Summary and Classification of Visits made by the Public Health Inspectors.

Visits made under the Public Health and Housing Acts.	1,281
Visits made to inspect drainage work.	272
Visits made to Council Houses.	255
Visits in respect of water supplies	292
Visits for Food Inspection.	100
Visits to Caravan Sites	77
Visits to investigate cases of infectious diseases	4
Disinfections	2
Visits to Factories and Workshops	33
Visits to Schools	23

FACTORIES ACT, 1961.

Prescribed Particulars on the Administration
of the Factories Act, 1961.

PART 1 OF THE ACT.

1. INSPECTIONS for purposes of provisions as to health.

Premises (1)	Number on Register (2)	Number of		
		Inspections (3)	Written Notices (4)	Occupiers Prosecuted (5)
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities.	Nil	Nil	Nil	Nil
(ii) Factories not included in (1) in which Section 7 is enforced by the Local Authority.	10	15	Nil	Nil
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding out-worker's premises).	17	18	Nil	Nil
Total :	27	33	Nil	Nil

2. Cases in which DEFECTS were found.

Particulars (1)	Number of cases in which defects were found				Number of cases in which prosecutions were instituted (6)
	Found (2)	Remedied (3)	To H.M. Inspector (4)	By H.M. Inspector (5)	
Want of cleanliness (S.1)	-	-	-	-	-
Overcrowding (S.2)	-	-	-	-	-
Unreasonable temperature (S.3)	-	-	-	-	-
Inadequate ventilation (S.4)	-	-	-	-	-
Ineffective drainage of floors (S.6)	-	-	-	-	-
Sanitary Conveniences (S.7)					
(a) Insufficient	-	-	-	-	-
(b) Unsuitable or defective	-	-	-	-	-
(c) Not separate for sexes	-	-	-	-	-
Other offences against the Act (not including offences relating to Out-work)	-	-	-	-	-
Total:	-	-	-	-	-

Laboratory Service.

The Public Health Laboratory at Conway carries out bacteriological examinations of water, food, etc. to detect any contamination. Milk is also examined bacteriologically and biologically for the presence of tubercle bacilli and brucella abortus.

Examination of throat swabs, blood, faeces etc. are carried out to detect the presence of bacteria and viruses at Conway Public Health Laboratory and specimens have also been accepted at Rhyl Hospital laboratory.

Ambulance Service.

The following is given for the information of the Council, and the numbers refer to cases conveyed by the various ambulances and the mileage covered during the year.

Table 12.

	<u>Denbigh/ Ruthin</u>	<u>Llanrwst</u>	<u>Cerrig</u>	<u>Totals</u>
Number of cases conveyed -				
by ambulance:	14,403	2,530	110	17,043
sitting case cars:	7,098	6,110	2,331	15,539
Total miles travelled -				
by ambulance:	143,235	26,078	6,676	175,989
sitting case cars:	66,609	56,689	40,382	163,680
Number of ambulances per station:	7	1	1 at Pentrefoelas	9
Whether manned by voluntary or full-time personnel.	8 full-time.	1 full-time and 3 voluntary	3 voluntary	9 full-time 6 voluntary.
Number of sitting case cars:	7	4	5	16
<u>Area Summary:</u>	<u>Number of journeys:</u>	<u>Number of cases:</u>	<u>Total mileage:</u>	
Ambulances:	4,426	17,043	175,989	
Sitting Case Cars:	3,454	15,539	163,680	
Total:	7,880	32,582	339,669	

Mental Health Service.

This service is under the supervision of the County Medical Officer of Health. The Mental Welfare Officer for this area is Mr. Glyn Lloyd, who may be contacted at the County Council Health Department, Mount Street, Ruthin, telephone number Ruthin 2361. As from the 1st April, 1971, this service will be transferred to the Social Services Department of the County Council.

Orthopaedic Clinic.

This clinic is held at the Clinic, Middle Lane, Denbigh, on the first and third Wednesday morning in each month. Surgeons from the Gobowen Orthopaedic Hospital attend on the third Wednesday in each month.

Patients from the rural district also attend the orthopaedic clinics held weekly at Rhyl and Wrexham hospitals.

Venereal Disease Clinic.

Clinics are held as follows:-

<u>Place</u>	<u>Day</u>	<u>Time</u>
H. M. Stanley Hospital, St. Asaph.	Tuesday.	4.30 - 6.30 p.m.
War Memorial Hospital, Wrexham.	Monday (males)	5 - 7 p.m.
	Wednesday (females)	5 - 7 p.m.

Family Planning Clinics.

Clinics are held as follows:-

Nant-y-Glyn Clinic, Colwyn Bay.	Monday	2.30 - 3.30 p.m.
	Thursday	7 - 8 p.m.
The Clinic, Fforddlas, Rhyl.	Wednesday	7 - 9 p.m.
The Clinic, Prestatyn.	Thursday	10 - 11 a.m.
The Clinic, King Street, Mold.	Wednesday	7 - 8 p.m.
The Infant Welfare Centre, Borough Grove, Flint.	Thursday	7 - 8 p.m.
1 Grosvenor Road, Wrexham.	Thursday	2 - 4.30 p.m.
	2nd & 4th Wednesday	6.15 - 7.30 p.m.
Child Health Clinic, Mount Street, Ruthin.	2nd Wednesday	10 - 11.30 a.m.
	4th Wednesday	7 - 8 p.m.

The Ruthin Family Planning Clinic continues to hold one morning and one evening session per month.

The total number of members has risen to 95, making 60 additional members in 1970, 49 of whom were new members to the Family Planning Association. Of the 60, 6 were officially referred, 21 were recommended by a friend or another member, 8 by the Family Doctor, 10 were transferred from other clinics and 15 from advertising.

The largest group, namely 19, were from the age range 25-29, 3 were younger than 20, 12 between 20 - 24, 11 between 30 - 34 and 15 were over 34. Again, the majority of members, namely 38, had had 1 - 2 pregnancies.

40 members availed themselves of the cytological smear facility and all the results have been negative.

Cervical Cytology Clinic.

Clinics are held as follows:-

1 Grosvenor Road, Wrexham.	Thursday	5.30 - 8 p.m. by appointment only.
Nant-y-Glyn Clinic, Colwyn Bay.	Friday	5 - 8 p.m. by appointment only.

and also by General Practitioners.

Chiropody Clinic.

This clinic is held at the Clinic, Mount Street, Ruthin, every Wednesday, by appointment, and also at the Clinic, Middle Lane, Denbigh, every Thursday, by appointment. Patients are referred to these clinics by General Practitioners, Health Visitors and District Nurses. A charge of 13p per treatment is made. The number of persons who attended this clinic during the year was as follows:-

Number of sessions held:	94
Number of appointments made:	596
Number of attendances:	536

Chest Clinic.

Patients from the rural district attend the Chest Clinic held every Wednesday morning at the Denbigh Infirmary and at the weekly clinics held at the Chest Clinic, Grosvenor Road, Wrexham, and at the Royal Alexandra Hospital, Rhyl.

School Ophthalmic Clinic.

Clinics for school children are held at the Clinic, Middle Lane, Denbigh, by appointment, and children attend ophthalmic clinics held at Denbigh and St. Asaph Hospital, and at Dr. Enid Hughes' surgery at Ruthin.

Child Guidance Clinic.

Clinics are held as follows:-

Bod Difyr, Cefn Road, Colwyn Bay.	Wednesday and Friday by appointment.
Kelso House, Grosvenor Road, Wrexham.	Thursday and Friday by appointment.
Mercier House Clinic, Russell Road, Rhyl.	Monday, by appointment.

Child Health Clinic.

Two clinics serve the area - Ruthin Clinic is held on Tuesday afternoons between 1.30 p.m. and 3.30 p.m. at the Clinic, Mount Street, and Denbigh Clinic is held on Wednesday afternoons between 1.30 and 3.30 p.m. at the Clinic, Middle Lane, Denbigh.

(a) First Attendances:

<u>Year of Birth</u>	<u>Ruthin</u>	<u>Denbigh</u>
1970	78	146
1969	114	94
1968/65	134	138
	<u>326 (289)</u>	<u>378 (454)</u>

(b) Total attendances:

Under 1 year:	759 (700)	1,504 (1,434)
1 - 5 years:	383 (301)	928 (951)
	<u>1,142 (1,001)</u>	<u>2,432 (2,385)</u>

The figure in brackets show the corresponding numbers for 1969.

The total attendances at Denbigh Child Health Clinic show a small increase (2%), while total attendance at Ruthin Child Health Clinic show the substantial increase of 14%.

Special transport to the clinic is provided from the outlying districts of Eryrys, Llanferres and Maeshafn, where there are no convenient buses. The numbers carried during the year were as follows:-

	<u>Number of Visits</u>	<u>Number carried -</u>	
		<u>Mothers</u>	<u>Babies</u>
From Llanarmon Yn Ial, Llanferres and Maeshafn to Ruthin.	12	74	74

Welfare Foods.

Welfare foods are sold at the clinics during the clinic sessions.

Dental Clinic.

There was no dental officer in the area from April 1969 until April 1970, when Mr. John Jones was appointed and since then regular clinics have been held at Mount Street, Ruthin. Dental inspections have also been carried out at schools in the area.

School Health Attendant.

The School Health Attendant visited the schools in the area for the purpose of routine testing of children's vision and hearing. Children who were found to have defective hearing and/or vision were followed up and referred to a consultant for further examination where necessary. Colour vision tests are given to all boys at the age of 10 years.

The number of children tested during the year was as follows:-

	<u>Audiometric</u> <u>Sweeps</u>	<u>Vision</u> <u>Sweeps</u>	<u>Colour</u> <u>Vision</u>
Number of children tested:	652	621	53
Number of children found satisfactory:	631	605	48
Number of children found to be defective:	21	16	5
Number referred to Medical Officer:	18	-	-
Number referred to School Nurse:	-	16	-
Number referred for observation:	3	-	-

Speech Therapy Clinic.

This is held by appointment weekly at the Ruthin and Denbigh Clinics. Children are referred from school by teachers, health visitors and through the medical officers. General practitioners also refer children to the clinic. The clinic is much appreciated by the parents, who learn how to cope with a speech defect in their children.

Young Welsh speaking children may be seen at Denbigh Clinic where the Speech Therapist is Welsh speaking.

Nursing Services.

The following are the names and addresses of the nursing staff serving the Ruthin Rural District:-

Health Visitors:	Miss C. J. Davies	County Council Clinic,
	Mrs. E. Jones	Mount Street, Ruthin. Tel. No. Ruthin 2361/2
	Miss O. M. Hobson	The Clinic, Middle Lane, Denbigh.
	Miss J.B. Angwin (until June 1970)	Tel. No. Denbigh 2789.
	Mrs. M. Jones, (Commenced duties 21st Sept. 1970.)	Pentre Rhydeden, Llangernyw.
Tuberculosis Health Visitor:	Miss E. Leach Jones	Bryn Glas, 25 Bodrhyddan Ave., Rhuddlan, Nr. Rhyl. Tel. No. Rhuddlan 372.
	Mrs. M. Lloyd Jones.	The Chest Clinic, Grosvenor Road, Wrexham. Tel. No. Wrexham 4242.
District Nurses and Midwives:	Miss M. M. Williams,	Min-y-Coed, Rhewl, Tel.No. Ruthin 2754.
	Mrs. L. I. Jones,	Frondeg, Eryrys. Tel. No. Llanarmon-yn-Ial 640.
	Miss E. Owen,	139 Mwrog Street, Ruthin. Tel. No. Ruthin 2642.
	Miss G. Thomas,	Flat 84 Haulfryn, Ruthin. Tel.No. Ruthin 2011.
Relief District Nurses:	Miss M. J. Jones,	Annedd Wen, Nantglyn. (Part-time) Tel. No. Nantglyn 225.
	Mrs. M. E. Dowell,	23 Park Road, Ruthin. Tel. No. Ruthin 2489.

Domestic Help Service.

This service is provided by the County Health Dept., of the County Council.

The number of cases where domestic help was provided was as follows:-

Chronic Sick and T.B.:	1
Mentally disordered:	1
Maternity:	1
Over 65 years of age:	13

As from the 1st April, 1971, this service will be transferred to the Social Services Department of the County Council.



