

**[Report 1949] / Medical Officer of Health, St. Asaph (Denbigh) R.D.C. and St. Asaph (Flint) R.D.C.**

**Contributors**

St. Asaph (Denbighshire, Wales). Rural District Council.

**Publication/Creation**

1949

**Persistent URL**

<https://wellcomecollection.org/works/nge8fnrp>

**License and attribution**

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

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

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



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

WELSH ... HEALTH  
5 OCT 1950

ST. ASAPH RURAL DISTRICT COUNCIL.

OO O OO

ANNUAL REPORT

of the

MEDICAL OFFICER OF HEALTH and

the

SANITARY INSPECTOR

for the year

1 9 4 9



THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

OFFICE

PHYSICS DEPARTMENT

CHICAGO

ILLINOIS

1950

1 2 3 4 5



Annual Report of Medical Officer of Health

for the year 1949.

---

Mr Chairman, Ladies and Gentlemen,

I beg to submit my Annual Report for 1949 in accordance with the requirements of the Ministry of Health.

The general state of health in the district has been good during the year, 143 cases of Infectious Disease were notified, most of this total was made up of Measles (67) and Scarlet Fever (30). The only deaths due to infectious disease were three from pneumonia.

Our Statistics for the year 1949 show several very satisfactory trends.

For yet another year there has not been a maternal death in the Rural District. The Infant Mortality rate is 21.3 per 1000 live births. This is a remarkably low figure when compared with the rate for England and Wales which is itself low at 32 per 1000 live births I would point out here that in St. Asaph we are dealing with very small totals and one or two more infant deaths in the year would result in our rate being higher than the average. However it is the second year that our Infant Death rate has been below the average for the Country and it reflects great credit on the parents of the district and on those taking part in Child Welfare and Child Health Services.

The Birth rate at 17.18 per 1000 population (Civilian) is higher than the average for England and Wales which is 16.7 per 1000 total population and the crude death rate at 11.57 per 1000 civilian population is below the Death Rate for England and Wales which is 11.7 per 1000 total population. For strict comparison with England and Wales, the corrected Local Death Rate would be 9.49 deaths per 1000 civilian population. These figures show the healthy trend of a higher birth rate and a lower death rate than the Country as a whole.

Having pointed out the more satisfactory aspects, it behoves me to refer to other matters that are not so satisfactory. In the district, as indeed throughout the Country housing continues to be a major problem. At least 36 houses condemned or included in Clearance Areas ten years ago, are still occupied and there are upwards of 80 houses in very little better condition whose occupants will require rehousing in the future. The problem is aggravated by the fact that families evacuated to the area during the war are now permanently domiciled in the area, many in substandard houses. However 69 new houses were completed and occupied during the year, and the Council's building programme is planned to continue for some years yet.

Owing to the dry summer, difficulty was experienced in maintaining adequate water supplies in the parishes of Cwm, Waen and Bodfari, in the latter area rationing of water had to be resorted to, and supply failed on occasion in the other districts.

Contracts were put out for the laying of new mains in the Waen district, and this should improve the supply in that area.

The Council decided to chlorinate the Tremeirchion supply and arrangements were made for a suitable chlorinator to be installed.

However these improvements are mainly patchwork, and until the comprehensive scheme for the supply of Waen, Rhualt, Tremeirchion, Cwm and Bodfari is carried out the water supplies to these areas will never be satisfactory either as regards quality or quantity.

I regret to say that little progress was made with the scheme during the year.



In conclusion, I should like to express my appreciation of the co-operation and assistance of the Clerk, the Sanitary Surveyor, and all other officials of the Council during the year.

I remain,  
Your obedient Servant,

R.RHYDWEN

Medical Officer of Health.

---

GENERAL STATISTICS

Area (Land and Inland Water) .. .. . 23,057 acres  
Population at Census 1931 (which includes Meliden and part of Dyserth since transferred to Prestatyn Urban District) .. .. . 7,873  
Population, Registrar General's Estimate Mid 1949.. .. 8,380 Civilian  
Number of Inhabited Houses according to the Rate Books .. 2,351  
Rateable Value.. .. . 245,986  
Estimated product of a Penny Rate .. .. . 2178  
Military Population 1,990.

HEALTH SERVICES IN THE AREA

WATER

Bodelwyddan, Rhuddlan, and St. Asaph are supplied by the Rhyl Urban District Council's Undertaking.  
Dyserth. The greater part of the parish is supplied by the Prestatyn Urban District Council's Undertaking.  
Bryniau, Dyserth is supplied from the mains of the Holywell Rural District Council's Undertaking as it is a high level area.  
Bodfari is supplied by works constructed by the Council. The supply failed during the drought and the water is contaminated on occasions.  
Cwm is similarly supplied to Bodfari. One source (Aelwyd Ucha) fails completely during dry weather and on these occasions the supply is augmented by the Birkenhead Corporation supply via the Holywell R.D.C.  
Tremeirchion is supplied by works constructed by the Council. Since the supply has been augmented during dry weather by pumping from a stream, this supply is to be chlorinated.  
Rhualt has a piped supply derived from neighbouring springs.  
Waen is supplied from works constructed by the Council. This supply is inadequate during dry weather owing to the poor state of the mains. The Council is to have new mains laid and the situation should be much improved next year.

GENERAL REMARKS.

The need for the provision of an adequate and pure water supply to the parishes of Bodfari, Cwm, Waen, Tremeirchion and Rhualt was amply demonstrated during the dry summer and though the Council has a scheme in the process of completion for the supply of those areas, it seems likely to be some time before the scheme is finally approved by the Welsh Board of Health and work commenced on it.

Properties supplied with water by the Council:-

	<u>Total No. of houses.</u>	<u>No. supplied with water</u>	
		<u>(a) into houses</u>	<u>(b) Standpipes</u>
Cwm	110	96	6
Bodfari	122	76	14
Tremeirchion	175	105	19
Waen	69	64	3

This amounts to 85% of the population in this area with a piped water supply, 10% supplied by standpipes, and the remaining 5% are without a piped water supply.



## DRAINAGE & SEWERAGE

Bodelwyddan, Bodfari, and Tremeirchion are without Sewerage Schemes, and Rhuddlan is without a Disposal Works. Outline Schemes in respect of Bodelwyddan, Rhuddlan, and Tremeirchion were accepted by the Council in 1948.

## RIVERS & STREAMS

It was found on one occasion that the effluent from the St. Asaph Sewerage Works was polluting the River Elwy. This was immediately remedied.

## CLOSET ACCOMMODATION

In areas supplied by sewers, very few privies remain. In other parts 90% have privies with fixed receptacles and 10% privies with removable receptacles.

## PUBLIC CLEANSING

Refuse is removed from all parishes in the Rural District by the Council's Refuse Lorry.

## SHOPS & OFFICES

No action required during the year.

## CAMPING SITES

The Maesgwilym Camp and Pleasant View Holiday Camp, Rhuddlan are licensed for the Summer Months only. The number of hutments on these sites are strictly limited by the Council.

The water supply to both these camps is satisfactory.

## ERADICATION OF BED BUGS

No action was required during 1949.

## SCHOOLS

No closure owing to infectious disease required during 1949.

## DIPHTHERIA IMMUNISATION

100 Children under five years of age and two children between the ages of five and fifteen years were immunised during the year according to information supplied by the County Council.

## MEAT AND OTHER FOODS

All animals are slaughtered at the Public Abattoir, Rhyl, which is the municipally controlled centre for the district.

## TUBERCULOSIS

The Welsh Regional Hospital Board has a Chest Clinic at 22, Edward Henry Street, Rhyl, for the treatment and investigation of cases or suspected cases of Tuberculosis. The clinic is open on Friday mornings. The nearest Sanatoria are at Llangwyfan and Penyffordd.

## VENEREAL DISEASE

The nearest clinic for the treatment of these diseases is at Chester Royal Infirmary. The treatment is Confidential, Free and inclusive of travelling expenses.

## MATERNITY & CHILD WELFARE

County Council Maternity & Child Welfare Clinics are situated at St. Asaph (Thursday p.m.) Rhyl (Wednesday p.m.) and Bodelwyddan, Kinnel Camp (Thursday p.m.)



## SMALLPOX

In the event of an outbreak, arrangements can be made for the isolation and treatment of cases, through the County Council and the Regional Hospital Board.

## DISINFECTION

The disinfection of large articles such as bedding can be carried out through arrangements being made by the Sanitary Inspector with the Rhyl Urban District Council.

## LABORATORY FACILITIES

These exist at the Public Health Laboratory, Conway. Examinations of water were made during the year. These showed that the water supplies to the parishes of Bódfari and Rhualt, were contaminated at some period of the year. (See Table one for details of the raw water samples submitted for examination).

## NATIONAL ASSISTANCE ACT 1948

Section 47. Removal to suitable premises of people in need of care and attention.

No formal action was required under this section of the Act during 1949.

## HOUSING

During 1949 the following number of Houses were completed and occupied:-

	<u>For the Local Authority</u>	<u>Private Houses</u>
Dymeirchion	--	1
Dyserth	--	1
Rhuddlan	34	1
St.Asaph	30	1
Waen	--	1
Total	.... 64	.... 5

## VITAL STATISTICS

### A. BIRTH RATE

The total number of births registered and Credited to the District in 1949 as given by the Registrar General was 141 of which 84 were male and 57 female, 8 of these children were illegitimate 5 being male and 3 being female.

The birth rate was 17.18 per 1000 of the Civilian Population as compared with a rate of 16.7 per 1000 population for England and Wales as a whole.

There were 3 still births during the year.

### B. DEATH RATE

The total number of deaths registered in the district and attributed to the district after allowing for inward and outward transfers was 107, 52 of these were male deaths and 55 female deaths.

The Death Rate for the District was 11.57 per 1000 of the Civilian Population as compared with a rate of 11.7 per 1000 population for England and Wales as a whole.

Allowing for the large proportion of Old People in the St.Asaph population, it is interesting to note that if the age distribution of St.Asaph were the same as that of the Country as a whole our Death Rate would have been 9.49 per 1000 of the Civilian Population.

### C. INFANTILE MORTALITY

There were three deaths of infants under one year of age. This gave an Infant Mortality Rate of 21.3 per 1000 live births as compared with 32 per 1000 live births for England and Wales.



This is a most satisfactory rate.

D. INFECTIOUS DISEASES

143 cases of infectious diseases were notified during the year. These were made up of:-

Scarlet Fever	30 cases
Whooping Cough	17 "
Measles	67 "
Pneumonia	27 "
Erysypelas	1 case
Puerperal Pyrexia	1 "

E. ZYMOTIC MORTALITY

There were three deaths from Pneumonia and one death from Infuenza.

F. PULMONARY TUBERCULOSIS

There were 2 deaths from Pulmonary Tuberculosis, giving a mortality rate of 0.24 per 1000 of the civilian population as compared with a rate of 0.45 per 1000 civilian population for England and Wales.

G. TUBERCULOSIS(Other causes)

There were no deaths in this group.

H. OTHER RESPIRATORY DISEASES.

There was one death under this heading equivalent to a rate of 0.12 per 1000 of the civilian population.

J. HEART DISEASE.

There were 14 male deaths and 24 female deaths from heart disease being a total of 38 deaths.

K. INTRACRANIAL VASCULAR LESIONS

There were 13 deaths from this cause four being males and nine female deaths.

L. CANCER

There were 22 deaths recorded as due to cancer. The Cancer Mortality rate was 2.37 per 1000 civilian population.

The rate for England and Wales as a whole was 1.98 per 1000 Civilian Population. If the St.Asaph population had the same age distribution as England and Wales the local rate would have been 1.94 per 1000 civilian population so that the local rate is certainly no worse than the average for the country if allowance is made for our high percentage of old people.

	<u>Table 2</u>	
<u>Cause of Death</u>	<u>Male</u>	<u>Female</u>
6. Respiratory Tuberculosis	2	0
7. Other forms of Tuberculosis	0	0
9. Influenza	0	2
13. Cancer of Buccal Cavity & Oesophagus (Male)	3	
Cancer of Uterus (Female)		1
14. Cancer of Stomach & Doudenum	3	1
15. Cancer of Breast	0	3
16. Cancer of all other sites	7	4
17. Diabetes	1	0
18. Intracranial Vascular Lessions	4	9
19. Heart Diseases	14	24



<u>Cause of Death</u>	<u>Male</u>	<u>Female</u>
20. Other Diseases of Circulatory System	0	1
21. Bronchitis	1	1
22. Pneumonia	2	1
23. Other Respiratory Diseases	0	1
26. Appendicitis	0	1
27. Other Digestive Diseases	2	2
28. Nephritis	1	1
32. Congenital Malformations Birth Injuries, Infant Diseases	1	0
33. Suicide	1	0
35. Other Violent Causes	1	1
36. All other Causes	9	2
Total deaths from all Causes	<u>52</u>	<u>55</u>

ANNUAL REPORT OF THE SANITARY INSPECTOR

FOR THE YEAR 1949.

~~~~~

GENERAL INFORMATION

WATER SUPPLIES

The supplies to Bodfari, Cwm and Tremeirchion again dried up considerably during the Summer. In Bodfari and Cwm rationing was again resorted to. In Tremeirchion an electric pump was installed as a temporary measure to augment the supply from the Catchment Areas. Due to this, no shortage was experienced.

In Waen parish, work was commenced on laying 4" pipes along to replace the existing 1½" branches from Farmers Arms to Ty Isaf, and well over half the work was completed by the end of the year.

CONTROL OF CIVIL BUILDING

The restrictions of the building of houses by private enterprise remained extremely tight, the only relaxations being on the agricultural side.

During the year 10 licences were issued, and of these, eight were to persons connected with agriculture.

INSPECTIONS

Total number of inspections and visits made 943

INFECTIOUS DISEASES

Number of cases inquired into, including Scabies 16  
Number of houses disinfected 15

DWELLINGS

Number made fit for habitation 7  
Number of cases of overcrowding 36

DRAINAGE ETC.,

Number laid or relaid 46  
Number cleaned, trapped and ventilated 12  
Number of new water closets 15  
Number of repairs to water closets 47  
Number of new privies and ashpits ---  
Number of privies converted into W.C.'s ---

SCAVENGING

During the year the Contracts for Scavenging Bodolwyddan parish was terminated and the work was carried on by the Council's workmen.

Number of Pail Closets emptied 2058  
Number of Ashbins emptied 43126  
Number of Ashpits emptied 498  
Number of loads of Refuse 735  
Number of tons of Refuse 1470

REFUSE

Number of accumulations removed 10  
Number of notices in respect of new bins 5

REFUSE TIPS

During the year the tip at St. Asaph was closed and all refuse directed to the tip at Dyserth. A part-time duty man was started here, but controlled tipping could not be carried out.



HOUSING SURVEY

|                         |  |    |
|-------------------------|--|----|
| No. of houses inspected |  | 1  |
| " " " Category 1        |  | 33 |
| " " " " 2               |  | 13 |
| " " " " 3               |  | 8  |
| " " " " 4               |  | 7  |

WATER

|                                              |     |
|----------------------------------------------|-----|
| Number of new connections made(all purposes) | 9   |
| Number of repairs, fittings etc.,            | 113 |

DAIRIES AND COWSHEDS

|                                                  |     |
|--------------------------------------------------|-----|
| Number of new dairies erected                    | 7   |
| Number of cowsheds erected                       | 3   |
| Number of dairies repaired                       | 1   |
| Number of cowsheds repaired                      | 1   |
| Number of persons registered                     | 168 |
| Number of registered places in use and inspected | 168 |

OFFENSIVE TRADES

|                   |    |
|-------------------|----|
| Number dealt with | -- |
|-------------------|----|

ANIMALS

|                                  |    |
|----------------------------------|----|
| Number of cases causing nuisance | -- |
|----------------------------------|----|

LODGING HOUSES

|                   |    |
|-------------------|----|
| Number registered | -- |
|-------------------|----|

CLERICAL WORK

|                                             |      |
|---------------------------------------------|------|
| Number of letters received                  | 1530 |
| Number of letters written                   | 1475 |
| Number of Preliminary Notices served        | 9    |
| Number of Preliminary Notices complied with | 7    |

LEGAL PROCEEDINGS

|                                           |    |
|-------------------------------------------|----|
| Number of abatement notices served        | 4  |
| Number of abatement notices complied with | 4  |
| Number of prosecutions                    | -- |

FOOD AND DRUGS

Details of food certified as unfit for human consumption:-

| <u>Description</u> | <u>No.of tins</u> | <u>Weight</u> | <u>No.</u> |
|--------------------|-------------------|---------------|------------|
| Eggs               |                   |               | 2,154      |
| Dried Apricots     |                   | 84 lbs        |            |
| Tomatoes           |                   | 7 lbs         |            |
| Oranges            |                   | 80 lbs        |            |
| Grapefruit         |                   | 29 lbs        |            |
| Beetroot           |                   | 15 lbs        |            |
| Meat Loaf          | 4                 |               |            |
| Sprouts            |                   | 8 lbs         |            |
| Apples             |                   | 11 lbs        |            |
| Flour              |                   | 149½ lbs      |            |
| Marmite            |                   |               | 1 bottle   |
| Potatoes           |                   | 93 lbs        |            |
| Minced Beef        |                   | 42 lbs        |            |
| Pilchards          | 1                 |               |            |
| Condensed Milk     | 11                |               |            |
| Fresh Fish         |                   | 24 stones     |            |
| Jam                |                   | 1 lb          |            |
| Sausage            |                   | 30 lbs        |            |
| Brawn              |                   | 42 lbs        |            |

| <u>Description</u> | <u>No. of tins</u> | <u>Weight</u>        | <u>No..</u>      |
|--------------------|--------------------|----------------------|------------------|
| Tomato links       |                    | 60 lbs               |                  |
| Ice Cream          |                    |                      | 1,140 Brickettes |
| Peas               | 1                  | 9 lbs                |                  |
| Pears              |                    | 85 lbs               |                  |
| Meat Pies          |                    |                      | 17               |
| Rhubarb            |                    | 5 lbs                |                  |
| Lettuce            |                    | 11 lbs               | 7                |
| Ground Mace        |                    | 5 $\frac{3}{4}$ lbs  |                  |
| Cheese             |                    |                      | 22 portions      |
| Peaches            | 1                  |                      |                  |
| Pate               | 1                  |                      |                  |
| Cucumber           |                    | 3 lbs                |                  |
| Radishes           |                    | 3 lbs                |                  |
| Butter             |                    | 5 $\frac{1}{2}$ lbs  |                  |
| Sugar              |                    | 26 lbs               |                  |
| Evaporated Milk    | 10                 |                      |                  |
| Soap Powder        |                    |                      | 24 packets       |
| Dried Parsely      |                    | 8 lbs                |                  |
| Sandwich Spread    |                    |                      | 73 bottles       |
| Baked Beans        | 10                 |                      |                  |
| Grapes             |                    | 11 $\frac{1}{2}$ lbs |                  |
| Snoek              | 1                  |                      |                  |
| Bacon              |                    | 6 lbs                |                  |
| Salmon             | 1                  |                      |                  |
| Tongue             | 1                  |                      |                  |
| Pork               | 1                  |                      |                  |
| Ham                |                    | 5 $\frac{1}{2}$ lbs  |                  |
| Sauce              |                    |                      | 1 bottle         |
| Cream of Tartar    |                    | 4 $\frac{1}{2}$ lbs  |                  |
| Suet               |                    | 2 lbs                |                  |
| Custard Pudding    |                    |                      | 31 packets       |

#### FOOD AND DRUGS ACT

Particulars of Samples purchased under the above Act in the St. Asaph District during the year ended 31st December, 1949 as supplied by the County Sanitary Inspector.

| <u>No.</u> | <u>Description</u> | <u>No.</u> | <u>Description</u> |
|------------|--------------------|------------|--------------------|
| 15         | Milk               | 1          | Barley Flour       |
| 1          | Ice Cream          | 1          | Vinegar            |
| 2          | Sausages           | 1          | Fish Cake          |
| 1          | Teasees Oil        | 1          | Custard Powder     |
| 1          | Jam Tart           | 1          | Calves Foot Jelly  |
| 1          | Pastry Mixture     | 1          | Chemical Food      |

TOTAL 27

-----  
 RAINFALL IN 1949 at YR ARDD  
 DENBIGH.  
 -----

| <u>Month</u> | <u>Total Depth (Inches)</u> | <u>Month</u> | <u>Total Depth (Inches)</u> |
|--------------|-----------------------------|--------------|-----------------------------|
| January      | 2.88                        | July         | 1.56                        |
| February     | 1.26                        | August       | 1.84                        |
| March        | 1.45                        | September    | 0.86                        |
| April        | 2.56                        | October      | 4.01                        |
| May          | 2.07                        | November     | 3.19                        |
| June         | 0.46                        | December     | 3.78                        |

Total -25.92

Average total depth for past 10 years - 27.76



Rain Gauge

Diameter of funnel - 5 inches  
Height of top above ground - 12 inches  
Height of ground above sea level - 195 feet.

RHYL'S RAINFALL - 10 YEARS AVERAGE

Average Rainfall for 10 years, in inches, is as follows:-

|      |   |       |      |   |       |
|------|---|-------|------|---|-------|
| 1940 | - | 29.32 | 1945 | - | 19.66 |
| 1941 | - | 19.73 | 1946 | - | 29.50 |
| 1942 | - | 22.90 | 1947 | - | 29.93 |
| 1943 | - | 26.14 | 1948 | - | 24.04 |
| 1944 | - | 26.02 | 1949 | - | 21.51 |

Yearly average for 10  
years  
24.03

Part 1 of the Act

(1) Inspections for purposes of provisions as to health (including inspections by Sanitary Inspectors)

| PREMISES<br>(1)                                                                                                 | M/c<br>line<br>No.<br>(2) | Number<br>on<br>Register<br>(3) | Number of          |                           | Occupiers<br>prosecuted<br>(6) | M/c<br>line<br>No.<br>(7) |
|-----------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------|--------------------|---------------------------|--------------------------------|---------------------------|
|                                                                                                                 |                           |                                 | Inspections<br>(4) | Written<br>Notices<br>(5) |                                |                           |
| (1) Factories in which Sections 1, 2, 3, 4 & 6 are to be enforced by Local Authorities                          | 1                         | 36                              | 36                 | --                        | --                             | 1                         |
| (2) Factories not included in (1) in which Sec. 7 is enforced by the Local Authority.....                       | 2                         | 32                              | 29                 | 1                         | --                             | 2                         |
| (3) Other premises in which Section 7 is enforced by the Local Authority (excluding out-workers' premises.....) | 3                         | --                              | --                 | --                        | --                             | 3                         |
| TOTAL                                                                                                           |                           | 68                              | 65                 | 1                         | --                             |                           |



| Name         | Age         | Sex         | Occupation         | Education         | Marital Status         | Religion         | Political Party         | Other         |
|--------------|-------------|-------------|--------------------|-------------------|------------------------|------------------|-------------------------|---------------|
| [Faint Name] | [Faint Age] | [Faint Sex] | [Faint Occupation] | [Faint Education] | [Faint Marital Status] | [Faint Religion] | [Faint Political Party] | [Faint Other] |
| [Faint Name] | [Faint Age] | [Faint Sex] | [Faint Occupation] | [Faint Education] | [Faint Marital Status] | [Faint Religion] | [Faint Political Party] | [Faint Other] |
| [Faint Name] | [Faint Age] | [Faint Sex] | [Faint Occupation] | [Faint Education] | [Faint Marital Status] | [Faint Religion] | [Faint Political Party] | [Faint Other] |

(1) Individuals in brackets in brackets in the original document are not included in this list.

(2) Individuals in brackets in brackets in the original document are not included in this list.

Page 1 of 1

2. CASES IN WHICH DEFECTS WERE FOUND.

(If defects are discovered at the premises on two, three or more separate occasions they should be reckoned as two, three or more "cases")

| PARTICULARS                                                                 | M/c line No | Number of cases in which defects were found |          |                                | Number of cases in which prosecutions were instituted (7) | M/c line No. |
|-----------------------------------------------------------------------------|-------------|---------------------------------------------|----------|--------------------------------|-----------------------------------------------------------|--------------|
|                                                                             |             | Found                                       | Remedied | Referred To H.M. Inspector (5) |                                                           |              |
| Want of cleanliness (S.1.)                                                  | (2)         | (3)                                         | (4)      | (5)                            | (6)                                                       | (8)          |
| Overcrowding (S.2)                                                          | 4           | ---                                         | ---      | Nil                            | Nil                                                       | 4            |
| Unreasonable temperature (S.3)                                              | 5           | ---                                         | ---      | ---                            | ---                                                       | 5            |
| Inadequate ventilation (S.4)                                                | 6           | ---                                         | ---      | ---                            | ---                                                       | 6            |
| Ineffective drainage of floors (S.6)                                        | 7           | ---                                         | ---      | ---                            | ---                                                       | 7            |
| Sanitary Conveniences (S.7) (a) insufficient                                | 8           | ---                                         | ---      | ---                            | ---                                                       | 8            |
| (b) Unsuitable or defective                                                 | 9           | ---                                         | ---      | ---                            | ---                                                       | 9            |
| (c) Not separate for sexes                                                  | 10          | 3                                           | 2        | ---                            | 2                                                         | 10           |
| Other offences against the Act (not including offences relating to Outwork) | 11          | ---                                         | ---      | Nil                            | Nil                                                       | 11           |
|                                                                             | 12          | 3                                           | 3        | ---                            | 3                                                         | 12           |
| TOTAL                                                                       | 60          | 6                                           | 5        | Nil                            | 5                                                         | 60           |



| DATE | NO. | DESCRIPTION | AMOUNT | DATE | NO. | DESCRIPTION | AMOUNT | DATE | NO. | DESCRIPTION | AMOUNT |
|------|-----|-------------|--------|------|-----|-------------|--------|------|-----|-------------|--------|
| 18   | 1   | ...         | 2      | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 19   | 2   | ...         | 2      | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 20   | 3   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 21   | 4   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 22   | 5   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 23   | 6   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 24   | 7   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 25   | 8   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 26   | 9   | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 27   | 10  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 28   | 11  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 29   | 12  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 30   | 13  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 31   | 14  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 32   | 15  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 33   | 16  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 34   | 17  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 35   | 18  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 36   | 19  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 37   | 20  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 38   | 21  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 39   | 22  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 40   | 23  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 41   | 24  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 42   | 25  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 43   | 26  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 44   | 27  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 45   | 28  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 46   | 29  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 47   | 30  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 48   | 31  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 49   | 32  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 50   | 33  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 51   | 34  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 52   | 35  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 53   | 36  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 54   | 37  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 55   | 38  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 56   | 39  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 57   | 40  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 58   | 41  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 59   | 42  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 60   | 43  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 61   | 44  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 62   | 45  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 63   | 46  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 64   | 47  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 65   | 48  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 66   | 49  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 67   | 50  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 68   | 51  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 69   | 52  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 70   | 53  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 71   | 54  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 72   | 55  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 73   | 56  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 74   | 57  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 75   | 58  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 76   | 59  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |
| 77   | 60  | ...         | ---    | ---  | --- | ---         | ---    | ---  | --- | ---         | ---    |

(1) ...  
 (2) ...  
 (3) ...  
 (4) ...  
 (5) ...  
 (6) ...  
 (7) ...  
 (8) ...  
 (9) ...  
 (10) ...

Details of Bacteriological Analysis of Samples of Water  
sent to the Public Health Laboratory Conway in 1949

| Nature of Sample                                                     | Date & hour of Coll.  | P L A T E C O U N T                           |                                              |                    | Probable No. of coliform bacilli, MacConkey 2 days 37°C | Approximate proportions of Faecal & Non-Faecal Coli                                                                                            | REMARKS |
|----------------------------------------------------------------------|-----------------------|-----------------------------------------------|----------------------------------------------|--------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|                                                                      |                       | (a)<br>Yeastrel agar 3 days 22° C aerobically | (b)<br>Yeastrel agar 2 days 37°C aerobically | CO                 |                                                         |                                                                                                                                                |         |
| Raw water taken from storage tank above Pistyll Farm, Bodfari        | 9-45 a.m.<br>27:4:49  | 22 per m.l.                                   | 2 per m.l.                                   | 50 per 100 m.l.    | Faecal Coli<br>0 per 100 m.l.                           | Reasonably satisfactory for a private supply                                                                                                   |         |
| Raw water taken from storage tank Llety'r Eos, Bodfari               | 11 a.m.<br>9:5:49     | 14 per m.l.                                   | 6 per m.l.                                   | 25 per 100 m.l.    | Faecal Coli<br>0 per 100 m.l.                           | Satisfactory for a land-spring water.                                                                                                          |         |
| Raw water taken from storage tank                                    | 10-15 a.m.<br>27:4:49 | 300+ per m.l.                                 | 39 per m.l.                                  | 1800+ per 100 m.l. | Faecal Coli<br>1800+ per 100 m.l.                       | This sample was heavily polluted                                                                                                               |         |
| Llety'r Eos, Bodfari                                                 | 10-50 a.m.<br>9:5:49  | 300+ per m.l.                                 | 6 per m.l.                                   | 250 per 100 m.l.   | Faecal Coli<br>250 per 100 m.l.                         | This sample was heavily polluted                                                                                                               |         |
| Raw water taken from land spring Intake chamber of storage tank.     | 10-50 a.m.<br>2:5:49  | 10 per m.l.                                   | 4 per m.l.                                   | 25 per 100 m.l.    | Faecal Coli<br>0 per 100 m.l.                           | Not up to the standard recommended for piped supplies, but reasonably satisfactory for a land-spring water supplying a small number of persons |         |
| Wael Water Supply above Rhuallt Village                              | 10-15 a.m.<br>10:5:49 | 9 per m.l.                                    | 2 per m.l.                                   | 25 per 100 m.l.    | Faecal Coli<br>0 per 100 m.l.                           | Reasonably satisfactory for a land-spring water supplying a small number of persons.                                                           |         |
| Raw water taken from land springs storage tank near Aelwyd Ucha, Cwm | 10-0 a.m.<br>5:5:49   | 25 per m.l.                                   | 10 per m.l.                                  | 25 per 100 m.l.    | Faecal Coli<br>0 per 100 m.l.                           | Satisfactory for a land-spring water.                                                                                                          |         |
| land springs storage tank near Aelwyd Ucha, Cwm                      | 10-0 a.m.<br>11:5:49  | 14 per m.l.                                   | 3 per m.l.                                   | 25 per 100 m.l.    | Faecal Coli<br>0 per 100 m.l.                           | Satisfactory for a land-spring water.                                                                                                          |         |



|                                                                                        |                                            |                                                             |                                            |                                                      |                                                                          |
|----------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| Young' Coat<br>New' Yerk<br>Young' Coat<br>Young' Coat<br>Young' Coat<br>Young' Coat   | 012:40<br>10-10 0-0<br>012:40<br>10-10 0-0 | 10 bel. n.Y.<br>80 bel. n.Y.<br>8 bel. n.Y.<br>80 bel. n.Y. | n.Y.<br>50 bel. 100<br>n.Y.<br>80 bel. 100 | 0 bel. 100<br>15000 0011<br>0 bel. 100<br>15000 0011 | Young-adults...<br>Young-adults...<br>Young-adults...<br>Young-adults... |
| Adulte<br>Adulte<br>Adulte<br>Adulte<br>Adulte<br>Adulte                               | 012:40<br>10-10 0-0                        | 10 bel. n.Y.<br>8 bel. n.Y.                                 | n.Y.<br>80 bel. 100                        | 0 bel. 100<br>15000 0011                             | Young-adults...<br>Young-adults...<br>Young-adults...                    |
| Young' Coat<br>Young' Coat<br>Young' Coat                                              | 012:40<br>10-10 0-0                        | 10 bel. n.Y.<br>8 bel. n.Y.                                 | n.Y.<br>80 bel. 100                        | 0 bel. 100<br>15000 0011                             | Young-adults...<br>Young-adults...<br>Young-adults...                    |
| Adulte<br>Adulte<br>Adulte<br>Adulte<br>Adulte<br>Adulte                               | 012:40<br>10-10 0-0                        | 10 bel. n.Y.<br>8 bel. n.Y.                                 | n.Y.<br>80 bel. 100                        | 0 bel. 100<br>15000 0011                             | Young-adults...<br>Young-adults...<br>Young-adults...                    |
| Young' Coat<br>Young' Coat<br>Young' Coat<br>Young' Coat<br>Young' Coat                | 012:40<br>10-10 0-0                        | 10 bel. n.Y.<br>8 bel. n.Y.                                 | n.Y.<br>80 bel. 100                        | 0 bel. 100<br>15000 0011                             | Young-adults...<br>Young-adults...<br>Young-adults...                    |
| Young' Coat<br>Young' Coat<br>Young' Coat<br>Young' Coat<br>Young' Coat<br>Young' Coat | 012:40<br>10-10 0-0                        | 10 bel. n.Y.<br>8 bel. n.Y.                                 | n.Y.<br>80 bel. 100                        | 0 bel. 100<br>15000 0011                             | Young-adults...<br>Young-adults...<br>Young-adults...                    |

THE...  
 ...  
 ...  
 ...  
 ...  
 ...  
 ...

REVISED

R E M A R K S

| nature of Sample                                          | Date & hour of Coll.     | P L A T E C O U N T                          |                                              | Probable No. of coliform bacilli, MacConkey 2 days 37°C | Approximate proportions of Faecal & Non-Faecal Coli | REMARKS                                                                                                             |
|-----------------------------------------------------------|--------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                           |                          | (a)<br>Yeastrel agar 3 days 22°C aerobically | (b)<br>Yeastrel agar 2 days 37°C aerobically |                                                         |                                                     |                                                                                                                     |
| Raw water taken from cave, Storage tank, Church Woods Cwm | 10-20 a.m.<br>3: 5: 49   | 24 per m. l                                  | 6 per m. l                                   | 350 per 100 m. l                                        | Faecal Coli<br>0 per 100 m. l                       | The presumptive Coliform count was high, although there was no evidence of recent excretal pollution.               |
| Raw water taken from cave, near Fron Farm, Cwm.           | 10-25 a.m.<br>11: 5: 49  | 12 per m. l                                  | 1 per m. l                                   | 25 per 100 m. l                                         | Faecal Coli<br>0 per 100 m. l                       | Satisfactory for a sand-spring water Satisfactory.                                                                  |
| Raw water taken from storage tank Tyn y ffordd, Bodfari   | 10-50 a.m.<br>11: 5: 49  | 2 per m. l                                   | 0 per m. l                                   | 0 per 100 m. l                                          | Faecal Coli<br>0 per 100 m. l                       |                                                                                                                     |
| Raw water taken from storage tank Tyn y ffordd, Bodfari   | 10 -30 a.m.<br>27: 4: 49 | 107 per m. l                                 | 64 per m. l                                  | 350 per 100 m. l                                        | Faecal Coli<br>0 per 100 m. l                       | The total presumptive coliform count was high, but there was no evidence of recent excretal pollution.              |
| Raw water taken from storage tank, Adwy Wynt, Bodfari     | 11 - 25 a.m.<br>9: 5: 49 | 204 per m. l                                 | 33 per m. l                                  | 1800 per 100 m. l                                       | Faecal Coli<br>0 per 100 m. l                       | This sample showed a large number of non-faecal coli, but there was no evidence of recent excretal pollution.       |
| Raw water taken from storage tank, Adwy Wynt, Bodfari     | 10-0 a.m.<br>27:4:49     | 22 per m. l                                  | 10 per m. l                                  | 300 per 100 m. l                                        | Faecal Coli<br>0 per 100 m. l                       | This sample showed a high total presumptive coliform count, but there was no evidence of recent excretal pollution. |
| Raw water taken from storage tank, Adwy Wynt, Bodfari     | 10-50 a.m.<br>9: 5: 49   | 56 per m. l                                  | 27 per m. l                                  | 250 per 100 m. l                                        | Faecal Coli<br>0 per 100 m. l                       | This sample showed large numbers of non-faecal Coli                                                                 |





R E M A R K S

| Nature of Sample                                                                       | Date & hour of Coll.                                 | P L A T E C O U N T                                                                                                                | Probable No. of coliform Bacilli, MacConkey 2 days 37° C | Approximate proportions of Faecal & Non-Faecal Coli      | REMARKS                                                                                                                                                        |
|----------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Raw water taken from land springs near Mynydd Bychan, Tremeirchion                     | 10-10 a.m.<br>4 : 4 : 49                             | (a) Yeastrel agar 3 days 22° C aerobically.<br>1000+ per m.l.<br><br>(b) Yeastrel agar 2 days 37° C anaerobically.<br>300 per m.l. | 1500+ per 100 m.l.                                       | Faecal Coli 1800+ per 100 m.l.                           | Not suitable for drinking purposes in the raw state.                                                                                                           |
| Land-spring Rhualt water supply storage tank above Rhualt Village                      | 10-20 a.m.<br>2 : 5 : 49                             | 26 per m.l.                                                                                                                        | 25 per 100 m.l.                                          | Faecal Coli 0 per 100 m.l.                               | Reasonably satisfactory for a land-spring water supply- ing a small number of persons.                                                                         |
| Raw water taken from land-spring Rhualt water supply storage tank above Rhualt Village | 9-45 a.m.<br>10 : 5 : 49<br>11-15 a.m.<br>2 : 5 : 49 | 34 per m.l.<br><br>1 per m.l.                                                                                                      | 25 per 100 m.l.<br><br>25 per 100 m.l.                   | Faecal Coli 0 per 100 m.l.<br>Faecal Coli 0 per 100 m.l. | as above.<br>Not up to the standard recommended for piped supplies, but reasonably satisfactory for a land-spring water supply- ing a small number of persons. |
|                                                                                        | 10-10 a.m.<br>10 : 5 : 49                            | 6 per m.l.                                                                                                                         | 25 per 100 m.l.                                          | Faecal Coli 0 per 100 m.l.                               | Reasonably satisfactory for a land-spring water supply- ing a small number of persons.                                                                         |



|                                                                                                                             |                                                                                            |                                                                |                                                               |                                                                         |                                                                                                     |                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <p>ATTA<br/>       1909<br/>       1910<br/>       1911<br/>       1912<br/>       1913<br/>       1914<br/>       1915</p> | <p>10 : 2 : 40<br/>       10-10 5' 1/2"</p>                                                | <p>3 bel. w'y<br/>       1 bel. w'y<br/>       24 bel. w'y</p> | <p>2 bel. w'y<br/>       0 bel. w'y<br/>       4 bel. w'y</p> | <p>w'y<br/>       52 bel. 100<br/>       w'y<br/>       82 bel. 100</p> | <p>0 bel. 100 w'y<br/>       1 bel. 100 w'y<br/>       0 bel. 100 w'y<br/>       0 bel. 100 w'y</p> | <p>of bel. w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y</p> |
| <p>1916<br/>       1917<br/>       1918<br/>       1919<br/>       1920</p>                                                 | <p>8 : 2 : 40<br/>       11-10 0' 1/2"<br/>       10 : 25 : 40<br/>       8-12 0' 1/2"</p> | <p>1 bel. w'y<br/>       24 bel. w'y</p>                       | <p>0 bel. w'y<br/>       4 bel. w'y</p>                       | <p>w'y<br/>       82 bel. 100</p>                                       | <p>0 bel. 100 w'y<br/>       1 bel. 100 w'y<br/>       0 bel. 100 w'y<br/>       0 bel. 100 w'y</p> | <p>of bel. w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y</p>                    |
| <p>1921<br/>       1922<br/>       1923<br/>       1924<br/>       1925</p>                                                 | <p>8 : 2 : 40<br/>       11-10 0' 1/2"<br/>       10 : 25 : 40<br/>       8-12 0' 1/2"</p> | <p>1 bel. w'y<br/>       24 bel. w'y</p>                       | <p>0 bel. w'y<br/>       4 bel. w'y</p>                       | <p>w'y<br/>       82 bel. 100</p>                                       | <p>0 bel. 100 w'y<br/>       1 bel. 100 w'y<br/>       0 bel. 100 w'y<br/>       0 bel. 100 w'y</p> | <p>of bel. w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y</p>                    |
| <p>1926<br/>       1927<br/>       1928<br/>       1929<br/>       1930</p>                                                 | <p>8 : 2 : 40<br/>       11-10 0' 1/2"<br/>       10 : 25 : 40<br/>       8-12 0' 1/2"</p> | <p>1 bel. w'y<br/>       24 bel. w'y</p>                       | <p>0 bel. w'y<br/>       4 bel. w'y</p>                       | <p>w'y<br/>       82 bel. 100</p>                                       | <p>0 bel. 100 w'y<br/>       1 bel. 100 w'y<br/>       0 bel. 100 w'y<br/>       0 bel. 100 w'y</p> | <p>of bel. w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y<br/>       100 w'y</p>                    |

1909  
 1910  
 1911  
 1912  
 1913  
 1914  
 1915  
 1916  
 1917  
 1918  
 1919  
 1920  
 1921  
 1922  
 1923  
 1924  
 1925  
 1926  
 1927  
 1928  
 1929  
 1930

3 3 3 3 3 3  
 3 3 3 3 3 3  
 3 3 3 3 3 3  
 3 3 3 3 3 3  
 3 3 3 3 3 3





