

[Report 1937] / Medical Officer of Health, Rhyl U.D.C.

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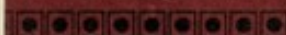


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Rhyl Urban District Council.



ANNUAL REPORT



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OF THE

CER OF HEALTH

IES, M.D., C.M., J.P.)

ER WITH THE

REPORT

OF THE

SENIOR

SANITARY INSPECTOR

(E. L. LLOYD JONES, M.S.I.A., M.R.S. Inst.)

FOR THE YEAR

1937

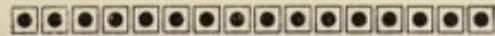
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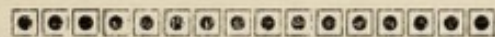




Rhyl Urban District Council.



ANNUAL REPORT



OF THE

MEDICAL OFFICER OF HEALTH

(E. HUGHES JONES, M.D., C.M., J.P.)

TOGETHER WITH THE

ANNUAL REPORT

OF THE

SENIOR

SANITARY INSPECTOR

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FOR THE YEAR

1937

RHYL :

" Leader " Office, High Street.

URBAN DISTRICT OF KHYL

Public Health Committee (1907)

Report of the Public Health Committee for the year 1907

Presented to the Council

at a meeting held on the 11th day of March 1908

by the Public Health Committee

at a meeting held on the 11th day of March 1908

in pursuance of a resolution of the Council

passed on the 11th day of March 1908

and printed by order of the Council

at the Town Hall, Khyber

on the 11th day of March 1908

ANNUAL REPORT

1907

SENIOR

SANITARY INSPECTOR

BY J. THOMAS, M.B., F.R.C.S.

1908

1907

Printed by the Government Printer, Khyber

at the Town Hall, Khyber

JONES

URBAN DISTRICT OF RHYL.

Public Health Committee, 1937.

Councillor R. L. Davies (Chairman of the Council).

Councillor S. Roose (Chairman).

Councillor Joseph Brookes

Councillor F. Hadley.

„ G. Cain.

„ D. A. Rodger.

„ T. J. Hughes.

„ R. W. Williams.

„ E. Williams.

„ B. Wadsworth.

Public Health Staff.

Medical Officer of Health :

E. HUGHES JONES, M.D., C.M., J.P.

Senior Sanitary Inspector :

E. L. LLOYD JONES, M.S.I.A., M.R.S.I.

Additional Sanitary Inspector :

I. G. GRIFFITH, M.S.I.A., A.R.S.I., M.R.I.P.H.,

Senior Clerk and Meteorological Observer :

W. A. FIELD.

Junior Clerk :

E. G. BLACK.

Matron of the Rhyl Isolation Hospital, Foryd Station :

Miss L. G. MORRIS, R.S.C.N., C.M.B.

Disinfectors :

S. JONES.

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Annual Report

OF THE

Medical Officer of Health

For the Year 1937.

TO THE CHAIRMAN AND MEMBERS OF THE RHYL
URBAN DISTRICT COUNCIL.

Gentlemen,

In submitting my 20th Annual Report I should like to congratulate you on the progress made in the administration of the town, not without difficulties and opposition, in attaining what must by now be admitted improvements.

I will only mention some of the most outstanding ones which, by not only contributing to the amenities and health of the town, have saved hundreds of lives.

NEW SEWERAGE WORKS which takes in an additional 639 acres, costing £72,000 and includes areas for development such as the Weaverton Estate, the Coast Road, and the new Pumping Station on the Rhyl to Prestatyn Road. The new outfall pipe is nearly double the size of the old one being 30 in. as against 18 in., but as the town has grown so rapidly increased storage capacity must be provided for.

THE TRAINING OF THE RIVER has been the means of restoring Rhyl's prestige of golden sands as nothing else would, and done an immense amount of good to the foreshore.

THE PROMENADE IMPROVEMENT. The laying of the gardens, greens and rockeries on the front has considerably reduced the sandrift and in that way will save a lot of money every year in cartage alone.

INFECTIOUS DEASES.

Cases admitted to Isolation Hospital.

	S.F.	Dip.	Enceph.	Lethargica.
Local	21	6	1	
Institution	17	4	—	—
	—	—	—	—
	38	10	1	

Cases treated at Home.

S.F.

1 (local).

Visitors removed to own Town.

S.F.

2

Dip.

3

An observation block is now used and all cases where doubt exists especially cases of Scarlet Fever are watched and tested there before removal to the wards, this will minimise cross infection and, I hope, check it altogether. Seventeen cases from one institution and twenty-one local, I think that if anything like the same number occur in institutions more precautions might be taken and immunity injections be given, or prophylactic, and notification be sent to the parents at their homes of the procedure adopted. Small Pox has to be protected by vaccination why not Diphtheria which is much more prevalent.

CLEAN MILK CAMPAIGN. Anyone who cares to read the report of my remarks in 1919 on clean milk will see the conditions then and how the whole system of milk producing has improved in the light of clearer understanding of the problems involved. An article of diet that was a menace and danger to life is now the safest and most nourishing perfect food that can be taken to those that are in need of it, such as, children and adults free from blood pressure.

Hopeless cases of Tubercular Infection and Infective Gastro Enteritis which were common in the summer during hot weather and were often accompanied by convulsions are now seldom met with.

MILK ANALYSES DURING THE YEAR 1937. 90 samples were taken, 60 ordinary and 30 Designated. With one or two exceptions they were satisfactory and show great improvements on previous years.

OPEN SPACES. Land purchased at a cost of £4,375 for the extension of the Botanical Gardens and £3,362 is being spent in the laying out.

HOUSING AND SLUM CLEARANCE. Although there were no slum areas in Rhyl as such, we have got to remember that a much higher standard and type of house is now required both by the laws of health and the tenants themselves to rear a healthy community upon which the country depends.

Clearance areas have to be scheduled and new accommodation has to be provided before the tenant can be moved. This year the Council have provided 38 semi-detached houses at a cost of £16,690, these houses are let at an inclusive rental of 9s. for a three bedroom house and 9s. 6d., for a four bedroom house. Houses built up to date are 350. In addition the Council have bought another $6\frac{1}{2}$ acres to build 70—80 more, 12 to the acre.

Next to sanitation there cannot be a more important duty upon any Council than to provide adequate housing accommodation for the population which is the basis of their health and general welfare.

I sincerely hope that the Council will not stay their hand but still go on providing houses for all that are in need of them, as healthy dwellings are essential for a healthy nation.

WATER UNDERTAKING. The Report would not be complete without pointing out how fortunate we are in having

such an abundant and excellent water supply and, what is more important, our Engineer, Mr. Cronshaw, has repeated analyses both chemical and bacteriological made to ensure that the supply is always up to the high standard of purity, the last analysis proves this to be the case. The following copy of a result of the Bacteriological Examination of a sample of water is just a typical example:—

The Chester Royal Infirmary.

The Pathological Department.

To:—The Water Engineer, Rhyl U.D.C.

Bacteriological Examination of Sample of Water.

Sample of Water from	5 Elm Grove, Rhyl
Physical Character	—
Sample Collected	15/6/38
Sample Received	15/6/38

Report.

Average number of organisms producing visible colonies on Gelatine plates, incubated at 20.22°C for three days	21 per c.c.
Average number of organisms producing visible colonies on Agar Plates, incubated at 37.5°C. for two days	Nil.
Bacillus coli communis was absent in	100 c.cs.
Streptococci was absent in	10 c.cs.
B. enteriditis sporogenes was absent in	50 c.cs.
REMARKS:—This is an excellent water.	

(Signed) W. H. GRACE, Pathologist.

M.D. (Lond.), B.Sc., M.R.C.P., D.P.H. (Lond.).

SEAWATER SWIMMING BATHS. Samples have been taken and the analysis shows or proves that the water of both the indoor and open air baths is satisfactory in both cases with very low Bacterial content and no pathological germs.

STATISTICS.

POPULATION. The Population of the district as given in the Census returns for 1931 was 13,485. The Registrar General estimates the figure for last year as being 15,540, which I still consider to be a very low estimate and naturally affects the statistics unfavourably. My estimate would be about 16,500 and I have given my reasons for this in previous years.

BIRTH RATE. The Registrar General's Birth Rate figure is 11.70 per 1,000 of the estimated population and the local Registrar's is 13.32 per 1,000. The birth rate is low and this is explained by the exodus of young people to the manufacturing centres, and by the influx of middle aged and elderly people from the other towns who come here to live a retired life.

THE DEATH RATE is 14.09 of the estimated population and the Infantile Mortality is down to 45.5. The death rates from Respiratory Diseases are lower. There was an increase of 0.22 in the Death Rate from Cancer.

CAMPING. There has been satisfactory control of the Camping Grounds and so far there have been no complaints.

THE CAUSES OF SICKNESS. The causes of sickness are the same as before. No epidemics or increase in any of the more general ailments. Senility accounts for 130 deaths over 65 out of the total of 219. The average age being 76, giving a rate of 8.49 per 1,000.

RHYL CUT. The cleansing and clearing of this waterway has now been done and has made all the difference, being now tidy with a steady, clear stream of water flowing. This does away with the stagnant pools that were so objectionable but, unfortunately, there are signs that people are again throwing things in. Notices have been erected warning persons to avoid anything that will cause the same trouble again.

LITTER QUESTION. I am sorry to have again to mention this, but so many people seem to be indifferent. I should suggest that conspicuous warning notices be placed especially on the promenade stating that it is illegal and breaking the law to leave litter about or to endanger the public by breaking bottles, etc.

Six children were suffering from cuts on the feet on one day. All this is due to want of thought and carelessness on the part of a few individuals who ought to be taught a lesson.

ERADICATION OF BED BUGS.

1. The number of houses found to be infested during the year were:—

12 Council and 19 Private Houses and were disinfested.

2. The methods employed for freeing the houses from bed bugs were:—

(a) 12 Council and 18 Private Houses—Spraying with insecticide and the use of Sulphur Dioxide Gas.

(b) One Private House—H.C.N. Gas.

3. The bedding of 38 families rehoused from Clearance Area was disinfested by steam and all furniture and effects disinfested by H.C.N. Gas.

4. The work of disinfestation of dwellings was carried out by the Local Authority, with the exception of one Private House, and the furniture and effects of 38 families which was carried out by a contractor.

5. Persons rehoused are regularly visited and advice given as to methods of cleansing and the prevention of reinfestation of premises.

STATISTICS.

POPULATION.

The Population of the district as given in the census returns for 1931 was 13,485. The Registrar General estimates the figure for last year as being 15,540, which I still consider to be a very low estimate, and naturally affects the statistics unfavourably.

My estimate would be about 16,500.

BIRTH RATE.

During the year there were registered after inward and outward transfers, 198 births (R.G.R.), viz:—80 males and 118 females. Out of this number 5 males and 6 females were illegitimate. The rate on the estimated population is 11.70 per 1,000 or 0.77 lower than that of 1936, 14.68 per 1,000 of the census population (13,485); and 12.00 per 1,000 of my estimated population (16,500). The birth rate for England and Wales for the same period is 14.9. The local Registrar's returns show that 207 births, viz.:—90 males and 117 females were registered within the district—which is equal to the rate of 13.32 per 1,000 of the estimated population (15,540); 15.35 per 1,000 of the census population (13,485); and 12.55 per 1,000 of my estimated population (16,500).

DEATH RATE.

The total deaths from all causes registered (R.G.R.) was 219, viz.:—109 males and 110 females, which gives a corrected death rate of 14.09 per 1,000 of the population, and is higher than that of 1936 by 0.51; a rate of 16.24 per 1,000 of the census population (13,485); and a rate of 13.27 per 1,000 of my estimated population (16,500). The local Registrar's returns show that 199 deaths were registered within the district—which is equal to a rate of 12.82 per 1,000 of the estimated population (15,540); 14.76 per 1,000 of the census population (13,485); and 12.06 per 1,000 of my estimated population (16,500)—but of that number (199) 26 were non-residents whose deaths were registered and transferred to their different localities. On the other hand 44 persons belonging to the district died outside its boundaries, and are to be added to the local deaths of residents, giving a true or "corrected" death rate of 13.96 of the estimated population (15,540); 16.09 of the census population (13,485); and 13.15 of my estimated population (16,500).

The adjusted Death Rate, i.e., the crude death rate (14.09 per 1,000 of the estimated resident population) multiplied by the Comparability Factor (0.92 supplied by the Registrar General) = 12.96.

Rate amongst persons aged 65 years and upwards:—

At this age period 130 deaths occurred between the ages of 65 and 94, the average being 76 years, giving a rate of 8.49 per 1,000 of the estimated population (15,540); 9.64 per 1,000 of the census population (13,485); and 7.88 per 1,000 of my estimated population (16,500).

The 130 deaths equal 53.5 per cent. of the total deaths registered inside and outside the district, i.e., 199 local deaths plus 44 deaths of persons transferred to the district—243.

In the total of 130, 13 non-residents whose deaths were registered and transferred to their own districts and 20 belonging to this district, whose deaths were registered elsewhere, are included.

The total percentage of deaths aged 65 years and upwards actually belonging to the district, after inward and outward transfers, is equal to 54.

ZYMOTIC MORTALITY.

No deaths occurred from the principal Zymotic Diseases.

INFANTILE MORTALITY.

Amongst infants under one year, there were 9 deaths (R.G.R.), or in the proportion of 45.5 per 1,000 registered births, as against 58 for England and Wales and 57.9 for the district in 1936.

PULMONARY TUBERCULOSIS.

10 deaths were caused by Pulmonary Tuberculosis, equal to 0.64 per 1,000 of the estimated population (15,540), and 0.74 per 1,000 of the census population (13,485).

OTHER TUBERCULOSIS DISEASES.

Under this heading two deaths occurred, equal to a rate of 0.13 per 1,000 of the estimated population (15,540), and 0.15 per 1,000 of the census population (13,485).

OTHER RESPIRATORY DISEASES.

Under this heading one death occurred, equal to a rate of 0.06 per 1,000 of the estimated population (15,540); and 0.07 per 1,000 of the census population (13,485). Also Bronchitis 6, equal to a rate of 0.39 per 1,000 of the estimated population (15,540) and 0.45 per 1,000 of the census population (13,485). Pneumonia 10 equal to a rate of 0.64 per 1,000 of the estimated population, and 0.74 per 1,000 of the census population.

DEATH RATE FROM CANCER.

31 deaths were ascribed to Cancer, the rate being 1.99 per 1,000 of the estimated population (15,540), and 2.30 per 1,000 of the census population (13,485); an increase of 0.22 over that of 1936.

VACCINATION RETURNS.

The local Registrar has supplied me with the following information :—

During the year 1937 the number of successful vaccinations were 35, whilst 94 exemptions were granted, and 7 died unvaccinated. The number of births were 198 showing that only 16.3 per cent. of the children born were vaccinated.

NOTIFICATION OF BIRTHS.

MATERNITY AND CHILD WELFARE.

This section of Public Health Administration is entirely under the control of the Flintshire County Council and their Health Visitors. A Welfare Centre has been established at the Old Emmanuel School, Vale Road, at which local ladies also give voluntary assistance.

VENEREAL DISEASES.

This Department is also under the control of the Flintshire County Council, the nearest station for treatment being Chester.

ISOLATION HOSPITAL.

The number of cases of Infectious Diseases admitted into the hospital was 49.

Scarlet Fever	38
Diphtheria	10
Encephalitis Lethargica	1

The case of Encephalitis Lethargica was the first case for 13 years, i.e., since 1924. The patient died.

GENERAL STATISTICS.

Area—Exclusive of Foreshore	1,700 acres
Area—Inclusive of Foreshore	2,579 acres
Population at Census 1901	8,461
Population at Census 1911	9,005
Population at Census 1921	13,490
Population at Census 1931	13,485
Population R.G. Estimate 1937	15,540
Number of inhabited houses at Census 1931	3,013
No. of families or separate occupiers 1931	3,183
Rateable value ending March 31st, 1938	£158,000
Sum represented by a penny rate	£608
Number of inhabited houses, according to Rate Books	4,724

EXTRACTS FROM VITAL STATISTICS.

(Registrar-Generals Returns).

	Total.	M.	F.	
Live Births { Legitimate	187	75	112	} Birth Rate per 1,000 of the estimated resident population..... 11.79
{ Illegitimate	11	5	6	
Still births	14	7	7	} Rate per 1,000 total (live and still) births 66.04
Deaths	219	109	110	
				} Death Rate per 1,000 of the estimated resi- dent population 14.09

Deaths from puerperal causes :—	Deaths	Rate per 1,000 total (live and still) births.
Puerperal sepsis	1	4.72
Other Puerperal causes	0	...
Total	1	4.72

Death Rate of Infants under one year of age :—

All Infants per 1,000 live births	45.5
Legitimate Infants per 1,000 legitimate live births	42.8
Illegitimate Infants per 1,000 illegitimate live births	90.9
Deaths from Whooping Cough (all ages)	0
Deaths from Diarrhoea (under 2 years of age)	0
Deaths from Measles (all ages)	0
Deaths from Cancer (all ages)	31

CAUSES OF SICKNESS.

The only noteworthy causes of sickness outside the notifiable or (epidemic) diseases were: Bronchial Colds, Influenza Colds and Catarrh.

SUMMARY OF NURSING ARRANGEMENTS.

Hospitals and other institutions available for the district.
Professional Nursing in the Home.

(a) The District Nursing Association, which is affiliated to the Queen's Institute, employ two district Nurses to visit the poorer people in their homes, to the funds of which the Council contribute.

(b) There are 9 Registered Nursing Homes in the district.

(c) There are no arrangements for the professional nursing of any class of infectious Disease, outside the Isolation Hospital.

Midwives.—There are seven midwives practising in the district, not including the six Nurses from the R.A. Hospital who are qualified but do not practice.

Maternity and Child Welfare.—There is a local centre at the Old Emmanuel School, Vale Road, Rhyl, under the control of the Flintshire County Council, the County M.O.H. and Inspector of Midwives.

Institutional Provision. No provision is made within the district for unmarried mothers or illegitimate infants. There is a small school for Blind Children, a Home for Waifs and Strays and a Convalescent Home for poor children.

Hospitals.—No provision is made for the treatment of Tuberculosis, Maternity or Smallpox. The R.A. Children's Hospital and Convalescent Home is provided for women and children, the patients coming from all parts of England and Wales. It is supported by voluntary contributions, and a minimum fee per patient. This Hospital consists of:—

(R.A. Hospital).

	No. of Beds.
Hospital Block.	
4 Large wards with balconies attached	69
6 Private wards	6
Convalescent Block.	
5 Private Rooms	5
5 Large Wards	74
3 Double Rooms	6
	—
Total number of beds	160

The Prince Edward War Memorial Hospital is doing good service. This consists of one block of buildings containing two wards of six beds each, four private wards of one bed each, and the usual administrative rooms. Extensions are being carried out at this hospital at a cost of £11,000 to provide extra beds in both Male and Female wards, a small Children's ward, several private wards, and a new nurses' home have been erected. It is supported by voluntary contributions, and a minimum scale of fees.

Isolation Hospital.—Provision is made for the treatment of Infectious Diseases occurring within the district, viz.:—Scarlet Fever, 4 adult beds; Diphtheria, 2 adult beds; Enteric Fever, 2 adult beds; total, 8 adult beds. There is also an annex building, consisting of two wards of 8 adult beds; and small nurses' room, which is intended for emergency purposes; also an Administrative Block, etc.

The Isolation Hospital is situated at Foryd Station, near Abergele, outside the district. There is no provision for the treatment of Smallpox beyond the possession of land as a site for a hospital.

Ambulance facilities:

- (a) For Infectious Diseases, Motor and Horse Ambulances.
- (b) For Non-infectious Cases and Accident Cases a small push ambulance kept by the County Police. A motor ambulance, the property of a private firm is used for general hospital cases.

LABORATORY WORK.

Arrangements have been made with the Authorities of the Chester Royal Infirmary for Pathological and Bacteriological examination.

Diphtheria Anti-Toxin is supplied free to medical practitioners for use in cases of Diphtheria and all suspect cases.

LIST OF NOTIFIABLE DISEASES IN RHYL DISTRICT.

Smallpox, Scarlet Fever, Diphtheria (including Membranous Croup), Enteric Fever (Typhoid and Paratyphoid), Pneumonia, Cholera, Plague, Puerperal Fever, Puerperal Pyrexia, Cerebro Spinal Fever, Acute Poliomyelitis, Acute Polioencephalitis, Encephalitis Lethargica, Typhus Fever, Dysentery, Erysipelas, Ophthalmia Neonatorum, Tuberculosis, Pulmonary and other forms, Malaria (cases contracted in this country) and other cases.

LIST OF ADOPTIVE ACTS, ETC., IN FORCE.

Public Health Acts Amendment Act, 1890. Public Health Acts Amendment Act, 1907, Sections 19, 20, 22, 26, 28, 30, 31, 35, 36, 37, 45, 49, 51, 53, 54, 55, 57, 59, 62, 63, 64, 65, 68, 69, 75, 85 and 86.

Public Health Act, 1925.

Infectious Diseases Prevention Act, 1890.

Regulations—Dairies, Cowsheds and Milkshops.

Byelaws—Slaughterhouses, 1931.

Tents, Vans, Sheds and similar Structures, 1913.

Offensive Trades—Dealers in Rags and Bones, and Fish

Friers, 1915, and Chip Potato Friers, 1931.

Registries for Female Domestic Servants, 1915.

Registries for Marine Stores, 1915.

Common Lodging Houses, 1877.

Nuisances, 1890.

Removal of Offensive Matters, 1896.

Sanitary Conveniences, 1897.

Rhyl Improvements Acts, 1852, 1872 and 1901.

Rhyl Water Act, 1932.

Rhyl Urban District Council Act, 1935.

NOTE.—(Sections 26, 35, 36, 37, 45, 49, 55, 57, 59, 62, 63, 64, 65, 68, 69 and 75 of the Public Health Acts, Amendment Act, 1907, and Portions of the Public Health Acts, Amendment Act, 1890, and Public Health Act, 1925, were repealed by the Public Health Act, 1936, which came into operation on the 1st October, 1937).

SANITARY ADMINISTRATION.

It was found necessary to take legal action against one person for contraventions of Section 141 of the Rhyl Urban District Council Act, 1935, relating to Camping.

SCHOOL AND MEDICAL INSPECTION
OF SCHOOLS.

The six elementary schools and one secondary school within the district have received attention.

Epidemic sickness, viz.:—Measles, Whooping Cough, Influenza Colds, and Mumps, were prevalent at varying periods, in consequence of which all the schools were closed for periods of two, three or four weeks. All the schools were disinfected after closure and during the holiday periods. The Medical Inspection of the children attending the schools is carried out by the County Medical Officer and Staff. There is a school clinic at the Old Emmanuel School, Vale Road, which is open each Monday between 1-30 and 4 p.m., when a Doctor is present.

PUBLIC HEALTH STAFF.

The staff consists of one Medical Officer of Health, M.D., C.M. (part time), one Senior Sanitary Inspector, C.S.I.B., C.M.I.L.U. (full time), one Additional Sanitary Inspector, C.S.I.B., Dip. R. Inst. P.H., C.M.I.L.U. (full time). (Contributions are made to the salaries of each of these Officers by Exchequer Grants), a Senior Clerk and Junior Clerk, also a Matron and Staff at the Isolation Hospital.

SANITARY INSPECTOR'S REPORT.

Herewith I append the Report and Statistics supplied to me by the Senior Sanitary Inspector, Mr. E. L. Lloyd Jones, also the usual statistics.

(Signed) E. HUGHES JONES, M.D.,

Medical Officer of Health.

June, 1938.

OPHTHALMIA NEONATORUM.

CASES			Vision Un- impaired	Vision Impaired	Total Blindness	Deaths
Notified	Treated					
	At Home	In Hospital				
1	1	Nil	1	Nil	Nil	Nil

TUBERCULOSIS.

New Cases and Mortality belonging to the District, during 1937.

Age Periods			New Cases				Deaths			
			Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
			M	F	M	F	M	F	M	F
0	...	...	...	...	...	...	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...
5	...	...	...	1	...	...	...	...	...	...
10	...	...	...	...	...	2	...	...	...	1
15	...	...	...	1	...	...	...	...	...	...
20	...	...	...	1	...	...	...	...	...	...
25	...	...	...	1	1	2	1	3	...	...
35	...	...	1	...	2	...	2	...	1	...
45	...	...	5	...	...	1	1	1	...	...
55	...	...	1	...	...	...	1	1	...	...
65 and upwards	...	...	...	...	...	...	...	...	...	...
Totals	...	...	7	4	3	5	5	5	1	1

The total number of deaths from Tuberculosis was ... 12

*The number of non-notified Tuberculosis deaths was ... 2

Ratio 1 to 6.

All cases of Tuberculosis notified locally are enquired into and forwarded on to the County Medical Officer and the Tuberculosis Officer. In any case of non-notified Tuberculosis deaths, enquiries are immediately made, and the replies forwarded to the County Medical Officer of Health. *Regarding the above 2 non-notified Tuberculosis deaths, one occurred outside the district (in hospital) and the other was revealed after P.M. examination. There is a local dispensary under the supervision of the County Tuberculosis Officer.

PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS) REGULATIONS, 1925.

No action was taken under the above Regulations.

PUBLIC HEALTH ACT, 1925, SECTION 62.

No action was taken under section 62 of the Public Health Act, 1925.

PUBLIC HEALTH ACT, 1936, SECTION 172.

No action was taken under section 172 of the Public Health Act, 1936.

TABLE I.
NOTIFIABLE DISEASES DURING THE YEAR.

DISEASE	At all Ages	Under 1 year	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	Over 65	Cases Admitted to Hospital	Total Deaths
Small Pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria ...	13	...	...	1	...	2	1	2	4	3	...	...	...	10	...
Scarlet Fever ...	41	1	...	1	1	2	16	10	4	6	...	...	...	38	...
Enteric Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(including Paratyphoid)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sub-Acute Poliomyelitis	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	3	1	...	...	3	2	10	6	6	...	8
Pneumonia ...	35	...	1	2	...	...	1	...	...	...	...	1	...	1	1
Encephalitis Lethargica	1	...	...	...	...	...	...	...	...	1	...	1	...	...	1
Puerperal Pyrexia ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebro Spinal Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ophthalmia Neonatorum	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	94	2	1	4	4	5	18	12	12	12	10	8	6	49	10
Removal to Hospital	...	1	...	2	1	1	17	10	7	9	...	1	...	49	...

TABLE III.
Vital Statistics of Whole District During 1937 and previous years.
Name of District—RHYL URBAN.

Year.	Population estimated to Middle of each Year.	Births.			Total Deaths Registered in the District		Transferable Deaths		Nett Deaths belonging to the District			
		Corrected Number	Number	Nett Rate	Number	Rate	Of Non-residents registered in the District	Of Residents not registered in the District	Under 1 Year of Age		At all ages	
									Number	Rate per 1,000 Births	Number	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13
1926	11080	...	150	13.53	135	13.18	19	12	10	66.66	128	11.55
1927	11670	...	165	14.13	152	13.0	33	22	11	66.66	141	12.08
1928	12690	...	175	13.79	187	14.74	30	22	6	34.28	179	14.19
1929	12810	...	169	13.19	185	14.44	37	26	9	53.3	174	13.58
1930	12810	...	180	14.05	174	13.58	35	26	9	50.0	165	12.88
1931	13100	...	172	13.81	175	13.35	31	19	8	46.5	163	12.44
1932	13530	179	171	12.64	198	14.63	37	26	10	58.5	187	13.82
1933	13930	...	162	11.63	187	13.42	43	35	5	30.9	179	12.85
1934	14360	172	178	12.40	197	13.72	33	31	10	56.2	195	13.58
1935	14760	195	203	13.75	224	15.18	33	29	10	49.3	220	14.90
1936	15240	...	190	12.47	186	12.20	32	51	11	57.9	207	13.58
1937	15540	207	198	11.70	199	12.82	26	44	9	45.5	219	14.09

Area of District in acres (land and inland water) : 1,700 (exclusive of foreshore) ; 2,579 (inclusive of foreshore).
Total population at all ages : 13,485. At Census, June, 1931.
Estimated population, 19540.

Causes of Death in Rhyl Urban District, 1937.

Causes of Death.							Males.	Females
All causes ...							109	110
1	Typhoid and paratyphoid fevers						...	...
2	Measles						...	...
3	Scarlet fever						...	...
4	Whooping cough						...	...
5	Diphtheria						...	...
6	Influenza						13	10
7	Encephalitis lethargica						...	1
8	Cerebro-spinal fever						...	...
9	Tuberculosis of respiratory system						5	5
10	Other tuberculous diseases						1	1
11	Syphilis						1	...
12	General paralysis of the insane, tabes dorsalis						...	...
13	Cancer, malignant disease						9	22
14	Diabetes						1	...
15	Cerebral Hæmorrhage, &c.						7	9
16	Heart Disease						28	19
17	Aneurysm						...	...
18	Other circulatory diseases						4	2
19	Bronchitis						1	5
20	Pneumonia (all forms)						6	4
21	Other respiratory diseases						1	...
22	Peptic Ulcer						...	...
23	Diarrhœa, &c. (under 2 years)						...	...
24	Appendicitis						1	...
25	Cirrhosis of liver						1	...
26	Other diseases of liver, &c.						1	2
27	Other digestive diseases						3	1
28	Acute and chronic nephritis						6	3
29	Puerperal sepsis						...	1
30	Other puerperal causes						...	...
31	Congenital debility, premature birth, mal-formation, &c.						...	4
32	Senility						8	9
33	Suicide						1	1
34	Other violence						5	2
35	Other defined diseases						5	8
36	Causes ill-defined or unknown						1	1
Special Causes (included in No. 35 above)								
Small-pox							...	...
Poliomyelitis							...	...
Polioencephalitis							...	...
Deaths of Infants under 1 year		Total	...	...	...	3	6	
		Legitimate	...	...	...	2	6	
		Illegitimate	...	...	...	1	...	
Live Births		Total	...	...	...	80	118	
		Legitimate	...	...	...	75	112	
		Illegitimate	...	...	...	5	6	
Still Births		Total	...	...	...	7	7	
		Legitimate	...	...	...	7	7	
		Illegitimate	...	...	...	...	...	
Comparability Factor							0.92	
Resident Population							15,540	
General Register Office, Somerset House, London, W.C.2.								

TABLE IVa.

Causes of and Ages at Death during Year 1937.

Name of District—RHYL URBAN.

LOCAL RETURNS—AGE PERIODS.

Causes of Death	Deaths at the subjoined ages of Residents, whether occurring in or beyond the District.							Total Deaths, whether of "Residents" or "Non-Residents" in Institutions in the District
	All Ages	Under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 years and upwards	
All Causes—Certified	215	11	4	5	26	54	115	28
Uncertified	2	...	...	...	...	...	2	...
1 Typhoid and paratyphoid fevers	...	...	...	...	...	...	...	...
2 Measles	...	...	...	...	...	...	...	...
3 Scarlet Fever	...	...	...	...	...	...	...	...
4 Whooping Cough	...	...	...	...	...	...	...	...
5 Diphtheria	...	...	...	...	...	...	...	...
6 Influenza	22	2	1	1	5	4	9	2
7 Encephalitis lethargica .	1	...	...	...	...	1	...	...
8 Cerebro-spinal fever ...	...	...	...	...	...	...	...	...
9 Tuberculosis of respiratory system	10	...	...	...	6	4	...	...
10 Other Tuberculous Diseases	2	...	1	...	1	...	...	...
11 Syphilis	1	1	...	...	...	...	...	...
12 General paralysis of the insane, tabes dorsalis	...	...	...	...	...	...	...	...
13 Cancer, malignant disease	30	...	...	...	2	15	13	2
14 Diabetes	...	...	...	...	...	...	1	...
15 Cerebral hæmorrhage, &c	17	...	...	...	...	3	14	...
16 Heart Disease	45	...	...	1	1	11	32	2
17 Aneurysm	...	...	...	...	...	...	...	...
18 Other Circulatory Diseases	9	...	...	...	...	2	7	1
19 Bronchitis	7	...	...	...	...	...	7	1
20 Pneumonia (all forms)	11	4	...	...	4	1	2	1
21 Other respiratory diseases	3	...	...	...	1	...	2	...
22 Peptic Ulcer	...	...	...	...	...	...	...	...
23 Diarrhœa, &c. (under 2 years)	...	...	...	...	...	...	...	...
24 Appendicitis	1	...	1	...	...	...	...	4
25 Cirrhosis of Liver	...	...	...	...	...	...	...	...
26 Other Diseases of Liver, &c.	2	...	...	...	1	...	1	1
27 Other Digestive Diseases	3	...	...	...	1	2	...	1
28 Acute and Chronic Nephritis	8	...	...	...	1	4	3	1
29 Puerperal sepsis	1	...	...	...	1	...	...	...
30 Other Puerperal causes	...	...	...	...	...	...	...	...
31 Congenital Debility, Premature birth, Malformation, &c.	4	4	...	...	...	...	...	1
32 Senility	19	...	...	...	...	...	19	2
33 Suicide	2	...	...	1	...	1	...	...
34 Other Violence	6	...	1	1	1	2	1	5
35 Other defined diseases ...	10	...	...	1	1	4	4	4
36 Causes ill-defined or unknown	3	...	...	...	...	...	3	...
Total	217	11	4	5	26	54	117	28

TABLE V.

Infant Mortality during the Year 1937.

Nett Deaths from stated causes at various Ages under
1 Year of Age.

Name of District—RHYL URBAN.

Causes of Death.		Under 4 weeks.	4 weeks and under 6 months.	6 months and under 12 months.	Total Deaths under 1 year.
All causes {	Certified	4	3	2	9
	Uncertified	...	...	...	...
Small-pox		...	...	...	...
Chicken-pox		...	...	...	...
Measles		...	...	...	...
Scarlet Fever		...	...	...	...
Whooping-Cough		...	...	...	...
Diphtheria and Croup		...	...	...	...
Erysipelas		...	...	...	...
Tuberculous Meningitis		...	...	...	...
Abdominal Tuberculosis		...	...	...	...
Other Tuberculous Diseases		...	...	...	...
Meningitis (not Tuberculous)		...	...	...	...
Convulsions		...	...	...	...
Laryngitis		...	...	...	...
Bronchitis		...	...	...	...
Pneumonia (all forms)		...	2	2	4
Diarrhoea		...	...	...	...
Enteritis		...	...	...	...
Gastritis		...	...	...	...
Syphilis		1	...	...	1
Rickets		...	...	...	...
Suffocation, overlying		...	...	...	...
Injury at Birth		...	...	...	...
Atelectasis		...	...	...	...
Congenital Malformations		...	...	...	...
Premature Birth		2	...	...	2
Atrophy, Debility & Marasmus)		1	...	...	1
Influenza		...	...	...	...
Other Causes		...	1	...	1
Total		4	3	2	9

Nett Births registered during the calendar year 1937	(	Legitimate	187
	(	Illegitimate	11
Nett Deaths registered during the calendar year 1937	(	Legitimate Infants	8
	(	Illegitimate Infants	1

RHYL ISOLATION HOSPITAL RETURNS.

Patients Admitted.

1937	Scarlet Fever.	Diphth- theria	Typhoid	Suspect Dip	Encephalitis Lethargica
January ...	...	...	...	...	...
February	...	...	...	...	1
March ...	4	...	...	...	...
April ...	1	3	...	...	...
May ...	2	...	...	...	...
June ...	3	...	...	...	...
July ...	3	4	...	...	...
August ...	1	...	...	...	...
September	...	...	...	...	...
October ...	3	...	...	...	...
November	12	3	...	...	...
December	9	...	...	...	...
Totals...	38	10	...	...	1

Remaining in Hospital December 31st, 1937 ... 13

Admitted.

Under 5 years	...	...	...	...	...	5
Over 5 years	...	...	...	...	...	44
Patients in Hospital January 1st, 1937	...	...	...	...	...	3
						52
Males	..	...	...	...	...	24
Females	...	...	...	...	...	25
						49

Results.

Patients Cured	...	...	...	...	...	38
Deaths	..	...	...	...	...	1
Patients Remaining in Hospital	...	...	...	...	...	13
						52

L. G. MORRIS,

Matron.

January, 1938.

**Annual Report of the Medical Officer of Health for the year 1937
for the Urban District of Rhyl on the administration of the
Factory and Workshop Act, 1901, in connection with
Factories, Workshops and Workplaces.**

1—Inspections of Factories, Workshops and Workplaces.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises (1)	Number of		
	Inspections (2)	Written Notices (3)	Prosecutions (4)
Factories (Including Factory Laundries)	18	2	...
Workshops (Including Workshop Laundries)	36	...	...
Workplaces (Other than Outworkers' premises)	...	...	...
Total	54	2	...

2—Defects found in Factories, Workshops and Workplaces.

Particulars (1)	Number of Defects			No. of offences in respect of which prosecutions were instituted. (5)
	Found (2)	Remedied (3)	Referred to H.M. Inspector (4)	
Nuisances under the Public Health Acts :—*				
Want of cleanliness	1	1	...	...
Want of ventilation	...	...	...	...
Overcrowding	...	...	...	...
Want of drainage of floors ...	...	...	...	...
Other nuisances	1	1	...	...
Sanitary accommodation { insufficient	...	...	...	...
{ unsuitable or defective	...	...	...	...
{ not separate for sexes	...	...	...	...
Offences under the Factory and Workshop Acts :—				
Illegal occupation of underground house (s 101)	...	...	...	...
Other offences	...	...	...	...
(Excluding offences relating to outwork and offences under the Sections mentioned in the Schedule to the Ministry of Health (Factories and Workshops Transfer of Powers) Order 1921)				
Total	2	2	...	...

* Including those specified in Sections 2, 3, 7 and 8 of the Factory and Workshop Act, 1901, as remediable under the Public Health Acts.

3—HOME WORK.—NONE RETURNED.

4—REGISTERED WORKSHOPS.

Important classes of workshops, such as workshop bakehouses, may be enumerated here.

Workshops on the Register (s 131) at the end of the year.	Number
Dressmakers, etc.	10
Tailors	6
Bakers and Confectioners	33
Boot Repairers	8
Joiners	7
Miscellaneous	32
	—
Total number of Workshops on Register ...	96

5—OTHER MATTERS.

Class.	Number
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshops Acts (s 133, 1901)	Nil.
Action taken in matters referred to by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshops Acts (s 5, 1901) :—	
Notified by H.M. Inspector	2
Reports (of action taken) sent to H.M. Inspector	2
Other	Nil.
Underground Bakehouses (s 101) in use at the end of year	Nil.

E. HUGHES JONES, M.D.,

May, 1938.

Medical Officer of Health.

FOOD AND DRUGS.

REPORT OF SAMPLES TAKEN, 1937.

A copy of the report received from Mr. A. E. Lindsay, Supt. Flint Constabulary, who is responsible to the County for samples taken in Rhyl and District as Inspector of Food and Drugs.

FOOD AND DRUG SAMPLES.

As desired, I append particulars of samples of Food and Drugs taken during the year of 1937, within the Rhyl Urban District by the Police.

Description of Sample	No. of Samples taken	Result of Analysis.	Doubtful.	Prosecutions.
New Milk	10	Genuine	10	
Plain Flour	1	Genuine	1	
White Bread	2	Genuine	2	
Malt Vinegar	1	Genuine	1	
Stork Margarine ...	1	Genuine	1	
Cheshire Cheese ...	1	Genuine	1	
Tomato Sauce	1	Genuine	1	
	17	Genuine	17	

FERTILISERS AND FEEDING STUFFS.

Complete Concentrated			
Grass Fertiliser ...	1	Genuine	1
Superphosphate ...	1	Genuine	1
	2	Genuine	2

(Signed) A. E. LINDSAY (Supt.)

SANITARY INSPECTOR'S REPORT.

For the Year ending 31st December, 1937.

TABLE I.—GENERAL SUMMARY.

Number of Complaints Received	1255
Number of Drains and W. C.'s Released and Cleansed by Department	1242
Number of Nuisances Found	509
Number of Nuisances Abated	309
Number of Nuisances Not Abated	200
Number of Preliminary Notices Served	307
Number of Statutory Notices Served	29
Number of Reference to Officials	7
Number of Visits to Infectious Diseases and Enquiries ...	176
Number of Visits re Disinfection	59
Number of Visits or Revisits	3943
Number of Visits to Bakehouses, Factories and Work- shops	81
Number of Visits to Cowsheds, Dairies and Milkshops ...	77
Number of Visits to Shops and Stalls (Meat and Foods, &c.)	1076
Number of Visits under Shops Act, 1934	66
Number of Visits to Slaughterhouses and Offensive Trades	511
Number of Visits to Van Dwellers, Tents and Camps ...	186
Number of Visits to Marine Stores	4
Number of Visits to Fried Fish Establishments	19
Number of Visits to Cinemas and Billiards Halls, &c. ...	21
Drainage Visits	459
Milk Samples	90

Drain Tests	30
Rhyl Cut	60
Smoke Observations	7
Rats and Mice	10
Stables and Piggeries	10
Schools	21
Ice Cream Premises	47
Preserved Meat Premises	23

TABLE II.—SANITARY DEFECTS.

Damp Living and Bedrooms	38
Defective Chimney Pots, Flues and Stacks	1
Defective Roofs	19
Defective Floors, Living and Bedrooms	14
Defective Gutters and Downspouting	18
Defective Plaster, Wall and Ceilings	22
Defective Window Frames, Casings and Doors	6
Brickwork	6
Cords to Windows and Fastenings	14
Defective Dustbins	191
Defective Kitchen Ranges and Grates	10
Defective Entrance Gate	1
Piggeries	3
Verminous Houses and Rooms	3
Caravans contrary to Byelaws	8
Remove Accumulation	12
Defective Pavement	8
Filthy Houses and Rooms	8
Miscellaneous	9

Drainage and Water Closets.

Choked Drains or W.C.s	11
Defective Fittings, W.C. and Sinks	21
Defective Drains	21
Defective W.C. Premises	9
Defective Access Covers and Chambers	12
Boxed-in Water Closets	2
Absence of Water Supply	10
Defective Gully and Surrounds	12
Defective Fresh Air Inlet	2
Filthy Latrines, W.C. Premises or Basins	3
Defective Soil Pipe	2
Defective Sinkstone	3
Absence of Water Closet	1
Defective Flushing Cistern	7

 507

FACTORIES AND WORKSHOPS.

Limewashing	1
Filthy Bakehouse	1

TABLE III.—INFECTIOUS DISEASES.

Number of Cases Reported by M.O.H. and Enquiries made	122
Number of Cases Removed to Isolation Hospital	49
Number of Rooms Disinfected, Lamp and Spray	76
Number of Rooms Disinfected, Sulphur	38
Number of Houses Disinfected, Sulphur	15
Number of Houses Disinfected, Spray	20
Number of Houses Disinfected, Lamp and Spray	1
Number of Rooms Disinfected, Spray only	117
Number of Wards Disinfected	35
Number of Articles Disinfected by Steam	103
Number of Articles Disinfected by Lamp only	161
Number of Schools Disinfected	12
Number of Motor Ambulances, Taxis or Cars Disinfected	188
Number of Books Destroyed	18
Number of Articles Destroyed with Consent of Owner ...	15
Disinfector Used (Steam)	21

TABLE IV.—SCAVENGING.

Loads of Ashes to Refuse Destructor and Tip	3339 $\frac{3}{4}$
Loads of Trade Refuse to Destructor and Tip	989 $\frac{3}{4}$
Loads of Fish Refuse to Destructor and Tip ...	130 $\frac{1}{2}$
Loads of Pumping Station Refuse	57
—	1177 $\frac{1}{4}$

Total Loads: 4517—14.7 per working day.

UNSOUND FOOD.

During the year the following from Slaughterhouses and Tradesmen's Premises, were condemned as being unfit for human consumption, and their use for such purpose prevented, same being voluntarily surrendered and destroyed:

6 Beasts Livers.
 15 Pigs Heads.
 19 Sheeps Livers.
 156 Pigs Feet.
 1 Set Beasts Lungs.
 5 lb. 1 oz. Leg of Mutton.
 2 Pigs Carcases and Offal.
 1 Ox Kidney, Suet and Trimmings (19½ lbs).
 28 lbs. Fannon Haddock.
 6 Tins of Ham.
 13 lbs. 1½ oz. Gammon.
 5 Tins Pineapple.
 1 Tin Golden Plums.

DAIRIES, COWSHEDS AND MILKSHOPS.

The following table gives the number of dealers operating within the district:—

Resident Retailers	58
Resident Cowkeepers and Retailers	4
Resident and Non-Resident Wholesalers	10
Non-Resident Retailers	4
Non-Resident Cowkeepers and Retailers	10

The approximate number of Cows kept by Resident Cowkeepers is between 80 and 90, so that over 90 per cent. of the milk consumed in Rhyl is produced outside the district boundary.

MILK SUPPLY.

During the year, 90 samples of milk were taken from the purveyors of milk who retailed in the district, for the purpose of bacteriological examination; viz.:—60 Ordinary and 30 Designated samples. The samples were forwarded to the Agricultural Department of the Bangor University. The result of each sample taken was forwarded on to the purveyor along with a letter either pointing out the necessity of cleanliness in the handling of the milk, grooming of the cows, etc., or expressing satisfaction with all favourable results. The Retail Purveyor and his Producer were interviewed in many cases, and instructed accordingly.

OFFENSIVE TRADES.

There are 16 persons and places registered under the Offensive Trades Clauses of the Public Health Act and the Public Health Amendment Act, viz.:—15 Fish and Chip Potato Friers and 1 Tripe Dresser, etc. (all these are subject to annual licence); and 3 Marine Stores, persons and places.

SLAUGHTER HOUSES AND PUBLIC ABATTOIR.

There are 3 Private Slaughter Houses within the District, 1 Registered, 2 Licensed. Needless to say none of the above premises are up-to-date buildings.

PUBLIC ABATTOIR.

The following are particulars and details of organs of animals found unfit for human consumption and, with the consent of the owners, destroyed, during the year 1937 :—

	Carcases				Heads			Lungs			Livers			Ox Intestines	Ox Stomach	Ox Mesentry	Calf Pluck
	Beef	Veal	Mutton	Pork	Ox	Sheep	Pig	Ox	Sheep	Pig	Ox	Sheep	Pig				
Abscess	...	...	...	...	...	...	...	2	...	...	5	...	3	...	...	...	...
Adhesions	...	...	...	...	...	...	...	3	...	3	...	...	...	...	...	...	...
Actinomycosis	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Cirrhosis	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...
Congestion	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Cysts	...	...	...	...	...	...	...	1	1	...	...	...	1	...	...	...	...
Fluke	...	...	...	...	...	...	...	...	...	...	31	83	...	...	...	...	...
Gid	...	...	...	...	...	1	...	...	1	...	...	1	...	...	...	...	...
Septic Condition	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculosis	3	...	...	...	15	26	45	4	9	6	7	2	6	...	...	...	...
Total	3	1	...	...	16	26	52	2	7	46	85	11	7	2	6	...	...

No. of Animals Slaughtered during 1937 :—

Beasts.	Calves.	Sheep & Lambs.	Pigs.	Total.
509	227	7420	876	9032

Carcases inspected and killed at Public Abattoir 1937.

	Cattle other than Cows	Cows	Calves	Sheep and Lambs	Pigs
Number of Killed Number Inspected	467	39	236	7419	853
All Diseases except Tuberculosis Whole Carcases Condemned			1	1	1
Carcases of which some part or or organ was condemned	29	5	—	83	7
Percentage of No. inspected affected with disease other than Tuberculosis	6.2	12.8	.425	1.13	.9
Tuberculosis only. Whole Carcases condemned.	1	1	1		
Carcases of which some part or organ was condemned	29	11			32
Percentage of the number inspected affected with Tuberculosis	6.4	30.76	.425	—	3.75

REFUSE COLLECTION.

The whole of the work of Collection of House Refuse is under the supervision of the Sanitary Inspectors. Two S. & D. Freighters and two Leyland Cub Refuse Collecting Vehicles are used, 90 per cent. of the refuse is conveyed and tipped under controlled tipping system. Paper and trade refuse being Baled, and that which is unsuitable for baling burnt at the Destructor Works once per week.

REFUSE DESTRUCTOR.

This consists of an 8-cell Destructor, 4 of which were erected in 1926, and 4 during 1931. The whole of the work of erection was carried out by Messrs. Heenan and Froude, of Worcester, a baling machine for scrap tins, etc., being also installed. The whole of the scrap has, as far as possible been disposed of along with the clinker produced by the Destructor.

HOUSING.

The approximate NUMBER OF DWELLING HOUSES for all classes number 4,700.

38 HOUSES were erected for the working class and 155 other houses were built.

In course of erection, 73.

No Legal Action was taken under the Public Health Acts.

There are no really UNHEALTHY AREAS in the district.

The only staff engaged on Housing Inspections are the Sanitary Inspectors along with their other general duties.

RAG FLOCK ACTS, 1911—1928.

There are no premises which are governed by the above Acts in the district.

HOUSING CONDITIONS FOR YEAR ENDING DECEMBER, 1937.

1.—INSPECTION OF DWELLING HOUSES DURING THE YEAR.

1. (a) Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts)	362
(b) Number of inspections made for the purpose ...	909
2. (a) Number of dwelling houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	91
(b) Number of inspections made for the purpose ...	250
3. Number of dwelling houses found to be in a state so dangerous or injurious to Health as to be unfit for human habitation	68
4. Number of dwelling houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	316

2.—REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES.

Number of defective dwelling houses rendered fit in consequences of informal action by the Local Authority or their Officers	205
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3.—ACTION UNDER STATUTORY POWERS DURING THE YEAR.

A.—Proceedings under Sections 9, 10 and 16, of the Housing Act, 1936 :—

1. Number of dwelling houses in respect of which notices were served requiring repairs	Nil.
2. Number of dwelling houses which were rendered fit after service of formal notices :—	
(a) By owners	Nil.
(b) By Local Authority in default of owners	Nil.

B.—PROCEEDINGS UNDER PUBLIC HEALTH ACTS:

- | | |
|--|------|
| 1. Number of dwelling houses in respect of which notices were served requiring defects to be remedied | 274 |
| 2. Number of dwelling houses in which defects were remedied after service of formal notice:— | |
| (a) By Owners | 50 |
| (b) By Local Authority in default of owners | Nil. |

C.—PROCEEDINGS UNDER SECTIONS 11 AND 13 OF THE HOUSING ACT, 1936.

- | | |
|---|----|
| 1. Number of dwelling houses in respect of which Demolition Orders were made | 13 |
| 2. Number of dwelling houses demolished in pursuance of Demolition Orders | 1 |

D.—PROCEEDINGS UNDER SECTION 12 OF THE HOUSING ACT, 1936.

- | | |
|--|------|
| 1. Number of separate tenements or underground rooms in respect of which closing orders were made ... | Nil. |
| 2. Number of separate tenements or underground rooms in respect of which closing orders were determined, the tenements or room having been rendered fit | Nil. |

4. Housing Act, 1936—Part IV Overcrowding:—

- | | |
|---|------|
| (a) (i) Number of dwellings overcrowded at the end of the year | 28 |
| (ii) Number of families dwelling therein | 28 |
| (iii) Number of persons dwelling therein | 201 |
| (b) Number of new cases of overcrowding reported during the year | Nil. |
| (c) (i) Number of cases of overcrowding relieved during the year | Nil. |
| (ii) Number of persons concerned in such cases | Nil. |

(Signed) E. L. LLOYD JONES,
M.S.I.Assoc., M.R.San.Inst.

TABLE N.—REFUSE.
Showing Cost of Refuse Collection and Disposal, year ending March 31st, 1938.

Particulars.	Collection.		Disposal.		Total.	
	Including loan charges	Excluding loan charges	Including loan charges	Excluding loan charges	Including loan charges	Excluding loan charges
Gross expenditure	£ 3391	£ 3146	£ 1856	£ 1412	£ 5247	£ 4558
Gross income	357	357	152	152	509	509
Net cost	3034	2789	1704	1260	4738	4049
Unit costs—Gross expenditure per ton ...	9/5.03	8/8.86	5/1.88	3/11.06	14/6.91	12/7.92
Gross income per ton...	11.90d.	11.90d.	5.06d.	5.06d.	1/4.96d.	1/4.96
Net cost per ton	8/5.13	7/8.96	4/8.82	3/6.00	13/1.95	11/2.96
Net cost per 1,000 population	£195.23	£179.47	£109.65	£81.08	£304.88	£260.55
Net cost per 1,000 premises	£534.62	£491.45	£300.26	£222.03	£834.88	£713.48
Net cost, equivalent Rate in the £	5.18d.	4.76d.	2.89d.	2.11d.	8.07d.	6.87d.

Refuse removed during the year (approximately) 7,200 tons.
Estimated Population (R.G.R.—Mid-year, 1937) ... 15,540

Signed,

E. L. LLOYD JONES, Sanitary Inspector.

No. of rated premises 5.675
Total Rates in the £ 15/1
Product of a 1d. Rate £586

RHYL METEOROLOGY FOR THE YEAR 1937.

Supt. Observer: Dr. E. HUGHES JONES.

Observer: W. A. FIELD.

Health Department,

Council Offices, Rhyl.

Bright Sunshine.

The total bright sunshine recorded during the year 1937 was 1,348 hours 18 minutes and was 20 hours 48 minutes more than that of 1936, which year was the lowest amount for 32 years, i.e., since 1905 when records were first taken. This total though, was higher than the other local resorts which forward regular monthly returns to the Meteorological Office, viz.:—Colwyn Bay—1,310 hours 6 minutes, Llandudno—1,329 hours 12 minutes, and Prestatyn—1,253 hours 12 minutes.

The sunshine averages and comparisons for the past ten years will be seen in the table on page 39. It will also be observed from the report for 1937 on page 38, that the sunniest months were May (204 hours), August (172 hours), April (170 hours) and July (150 hours) and the dullest December (42 hours), January (43 hours), February (53 hours) and November (60 hours). There was a very sunny spell from July 28th to August 3rd, when 76 hours 24 minutes was recorded on the 7 days. The sunniest day in the year at Rhyl was June 21st, with 15 hours 24 minutes compared with 14 hours 42 minutes on May 28th, 1936. Bright sunshine was registered on 303 days leaving 62 sunless days of which 27 occurred during the three dark months, January, November and December. October, February and March had 25 sunless days. Thus the other 6 months had 10 sunless days between them. Comparisons of the sunshine value of each of the 12 months for the past ten years on page 40, is interesting and from the extremes, which are in bold type, it will be observed that June proves to be the best month for sunshine, on the average, May next and then July. The month of December averages the least sunshine.

In 1937 Rhyl had 58 days on which 8 hours or more bright sunshine was recorded, as against 56 like days in 1936. On 76 days there was 7 hours, or more recorded sunshine against 68 in 1936, and 97 days had 6 hours or more against 79 days in 1936.

During May, June, July and August there were 12 days with 12 hours or more bright sunshine as compared with 15 like days during the same months in 1936. From April 1st to September 30th there were 33 days with 10 hours or more as against 32 during the same period in 1936.

Rainfall.

The total rainfall for the year 1937 with its 25.51 inches was 4.91 inches lower than that of 1936, and was the lowest since 1934, when 21.48 inches was recorded. A glance at the averages for the past twenty years on page 38 shows the year's total as nearly 2 inches below the average. Rain was recorded on 178 days as against 190 in 1936. The average number of days rain fell for the past twenty years is 184, so that this year was 6 days below. The wettest month was February with 4.24 inches, as against September with 4.11 inches in 1936.

The highest amount recorded at one period only, during the year, was on the 14th. August, registering at 9 a.m. 1.12 inches. It is interesting to note that on 23 days rain was recorded during the month of February (usually a dry month) and the total fall of 4.24 inches, was the highest for this month since 1925.

July recorded the lowest monthly amount with only 1.04 inches this being spread over 18 days, against August with 0.85 inches on 12 days in 1936.

The past ten years show that October and September are the wettest months, whilst March is the driest with February a close second.

Again during May, June, July, August and September (the holiday months) of the year 1937, the total amount of rain recorded was 8.23 inches, during the same months of the year 1936 the total was 14.25 inches—a decrease of 6.02 inches. This total of 8.23 inches during the holiday months was the lowest since 1933 when only 5.50 inches was recorded.

The longest period without rain during 1937 occurred from October 3rd to October 22nd—19 days.

Temperatures.

The hottest days of the year were July 14th and August 2nd which registered 79.0 deg. F. in the shade, and the coldest night December 10th with 24.2 deg. F. in the screen. The lowest reading on the grass during 1937 was 20.0 deg. F. on December 8th and 9th. The number of ground frosts (30.4 deg. F. or less) registered during the year was 51, but in the screen there were only 37 frosts. The latest spring frost in the screen (air) occurred on April 12th and on the grass on May 11th. The first Autumn frost on the ground occurred on October 19th and in the screen (air) on November 13th.

Other features were that the month of March was 3.5 deg. F. and December 2.7 deg. F., below the average temperature of the respective months during the past eight years. February and April were 2.0 deg. F. higher than the average for the past eight years. Further interesting particulars can be seen in the Mean Temperatures and Extremes Table on page 40.

Miscellaneous.

The Instruments used are by Negretti and Zambra, and are situate in Westbourne Avenue (opposite the Pumping Station). They include a Maximum, Minimum, Dry and Wet Bulb Thermometers in a Stevenson Screen, a Grass Minimum Thermometer, Rain Gauge and Measure and a Campbell-Stokes Sunshine Recorder. A Hyetograph, giving the rate and duration of rainfall, is also situate outside the Pumping Station. The Barometer (Kew pattern) and Thermometer attached is at the Council Offices.

At the Meteorological Kiosk on the East Promenade, a Self recording Barograph, Maximum and Minimum Thermometer, Tide Table, Greenwich Time, previous day's Sun Card, Daily weather forecast from Negretti and Zambra Forecaster, Ultra Violet Ray Record, Daily Weather report of the Air Ministry and combined weather charts and records, are exhibited for public information. A Wind Vane is also on the top of the Kiosk.

Observations are taken at 9 a.m. and 5 p.m. Greenwich Mean Time each day. Code Weather Telegrams are despatched every day throughout each year to the Meteorological Office at 5 p.m. Greenwich Mean Time and these are supplement during the summer season by an additional telegram, on week days, at 9 a.m. Greenwich Mean Time for certain evening papers, served (through the Meteorological Office) by the Press Association.

Weekly, Monthly and Annual Reports are prepared, and are furnished to the local papers, and supplied to any enquiries, advertisement or private. Full reports Monthly are forwarded to the Meteorological Office.

The station was officially inspected, and the instruments tested, on behalf of the Meteorological Office by one of their Officers on June 1st, 1937.

Notes.

The Station is situate 31 feet above sea level. Latitude $53^{\circ} 19' N$. Longitude $3^{\circ} 29' W$. The Sunshine Recorder is 11 feet above the ground on which it is situate and the Rain Gauge is 1 foot above the ground.

Humidity is calculated with Hyrometrical Tables, published by the Meteorological Office (Saturation = 100 per cent.).

The percentage of possible duration of sunshine, is calculated by the Meteorological Office, with reference to the maximum

duration theoretically possible in the latitude. The percentage of normal figures represent the mean daily duration for the year $\times 100 \div$ the average for the year (the past 30 years ending 1930 being the figure taken = 4.33 hours for Rhyl). The average rainfall for the years 1881—1915 (35 years) is 25.79 inches, and is the figure used by the Meteorological Office.

A fall of one inch (25.4 millimetres) is equivalent to nearly 101 tons of water to the acre. One ton of water equals 224 gallons or nearly 36 cubic feet. An inch of rain implies 64,640 tons or 14,479,360 gallons of rain per square mile.

HUMIDITY.

THE MEAN MONTHLY HUMIDITY OF THE AIR AND BRIGHT SUNSHINE PERCENTAGES AT RHYL FOR THE YEAR 1937 was as follows :—

1937	HUMIDITY	BRIGHT SUNSHINE		
	9 Hours Observations Per cent.	Total Hours	Percentage of Average	of Possible
January	79	43.1	74	17
February	81	53.6	71	27
March	77	108.2	89	30
April	77	120.4	73	29
May	73	204.9	101	42
June	74	170.0	80	34
July	76	150.6	76	30
August	71	172.9	100	38
September	73	138.9	96	36
October	80	82.9	84	25
November	79	60.5	96	23
December	84	42.3	97	18
Mean of the Year	77	112.4	87*	30*

The relative humidity of the air is always expressed as the percentage of total saturation (100 per cent.) and is an inverse measure of the drying effects of air. See the above figures.

*Calculated on mean **daily** average for the year (See Miscellaneous Notes).

TABLE I.

METEOROLOGICAL REPORT FOR 1937.

MONTH	AIR TEMPERATURE IN DEGREES FAHRENHEIT					RAINFALL				WIND	BRIGHT SUNSHINE			
	MEANS OF		A. and B.	Highest	Lowest	Date	TOTAL FALL		No. of days Rain fell	Mm. Most in a Day	Imm. or More		Days on which Bright Sun Recorded	TOTAL HOURS
	A. Max.	B. Min.					Inches	Mm.			Days	Nights		
January	48.1	38.0	43.1	58	27	30/31	1.69	42.8	17	7.1	5	5	20	43.1
February	47.1	38.4	42.7	55	32	12/28	4.24	107.8	23	23.3	9	18	21	53.6
March	44.6	33.8	39.2	54	25	10	1.84	46.8	17	6.5	6	12	24	108.2
April	54.1	43.0	48.5	61	32	12	2.50	63.6	15	15.1	3	8	26	120.4
May	60.9	45.9	53.4	73	37	11/14	2.13	54.2	11	18.5	2	6	30	204.9
June	62.5	50.9	56.7	73	42	19	1.43	36.3	13	19.4	5	2	29	170.0
July	67.8	54.3	61.1	79	45	8	1.04	26.2	18	5.0	3	7	29	150.6
August	69.5	54.2	61.9	79	46	8	1.45	36.9	6	28.4	2	2	30	172.9
September	63.5	51.0	57.3	76	41	21	2.18	55.3	16	16.1	4	8	29	138.9
October	57.5	44.8	51.1	57	37	5/10/11/18/20/31	2.23	56.6	11	18.1	3	5	20	82.9
November	49.3	38.3	43.8	59	26	14	1.57	39.9	12	10.7	3	5	23	60.5
December	44.4	35.0	39.7	57	24	10	3.21	81.5	19	22.6	9	7	22	42.3
Total for year	...	...	...	...	...	...	25.51	647.9	178	...	54	85	303	1348.3
Monthly Average	55.8	44.0	49.9	...	...	...	2.13	54.0	14.8	...	4.5	7.1	...	112.4
Total for 1936	...	...	...	...	...	...	30.42	772.7	190	...	60	102	...	1327.5
Monthly Average	55.4	43.8	49.6	...	...	...	2.54	64.4	15.8	...	5.0	8.5	...	110.6

TABLE II.

10 Years Averages—Sunshine, Rainfall & Humidity.

RAINFALL										SUNSHINE					HUMIDITY
YEAR	INCHES	Monthly Average (Inches)	Total Rain Days	Month's Greatest (Inches)	Month's Lowest (Inches)	HOURS	Sunless Days	Sunshine Days	Daily Average (Hours)	Highest in One Month (Hours)	Lowest in One Month (Hours)	Duration, Percentage		9-a.m. Per Cent	
												Of Possible	Average		
1928	27.48	2.29	197	4.05	0.77	1557.2	57	309	4.25	254.3	31.8	95	35	75	
1929	26.23	2.19	179	5.38	0.08	1894.4	47	318	5.19	276.4	47.1	116	43	74	
1930	32.62	2.72	194	4.01	0.30	1411.1	64	301	3.86	230.0	32.7	86	32	78	
1931	27.85	2.32	197	4.42	0.45	1351.4	75	290	3.69	194.7	35.9	82	30	78	
1932	26.79	2.23	194	4.52	0.13	1342.9	60	306	3.72	252.3	45.2	82	30	79	
1933	18.10	1.51	146	4.35	0.60	1612.0	44	321	4.42	205.6	50.7	92	36	76	
1934	21.48	1.79	186	3.94	0.13	1494.7	63	302	4.10	249.6	34.5	95	34	77	
1935	27.43	2.29	188	5.28	0.47	1540.0	46	319	4.22	247.1	34.6	97	34	76	
1936	30.42	2.54	190	4.11	0.85	1327.5	62	304	3.63	197.2	43.6	84	30	79	
1937	25.51	2.13	178	4.24	1.04	1348.3	62	303	3.69	204.9	42.3	87	30	77	
Totals	263.91	...	1849	...	...	14879.5	580	3073	...	...	...	916	334	769	
Average 10 years	26.39	2.20	185	...	...	1488.0	58	307	4.08	...	...	92	33	77	
Average 20 years	27.35	2.28	184	...	...	1505.6	58	307	4.12	...	...	...	...	77	

TABLE IV.

10 YEAR'S MONTHLY SUNSHINE AND RAINFALL TOTALS.

Month	SUNSHINE (Hours).										RAINFALL (Inches).									
	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
January ...	49.9	56.7	54.4	70.5	67.9	64.3	78.0	76.8	34.6	43.6	2.19	4.05	0.85	3.90	1.81	3.39	2.26	1.71	1.65	3.83
February ...	80.5	86.1	67.4	66.1	60.4	65.3	89.9	90.0	53.9	75.3	1.21	2.60	0.91	0.30	2.60	0.13	1.65	0.13	2.17	1.84
March ...	116.2	96.1	230.7	112.6	140.2	103.1	159.7	106.4	113.4	52.3	2.92	0.77	0.08	3.42	0.45	1.55	1.55	1.78	0.50	2.24
April ...	149.9	156.2	209.7	114.4	111.8	124.2	160.8	137.6	170.8	177.1	0.81	0.89	0.76	2.96	2.49	2.96	0.60	1.49	2.00	1.04
May ...	227.4	191.5	259.9	174.7	194.7	132.0	158.7	150.1	247.1	197.2	1.17	2.21	1.25	1.22	2.41	2.99	1.06	2.02	1.63	2.40
June ...	220.4	195.0	276.4	230.0	154.0	252.3	205.6	219.2	179.9	172.5	3.21	3.77	1.30	0.92	2.84	0.46	1.14	1.11	3.34	3.58
July ...	168.4	254.3	213.7	157.1	144.0	135.7	205.2	249.6	224.1	132.5	1.94	0.93	2.05	2.76	1.06	3.04	0.67	0.56	0.47	3.31
August ...	160.8	177.7	161.2	164.0	166.1	171.0	178.7	163.1	184.3	177.7	5.50	2.17	2.63	3.34	3.68	1.48	1.63	2.19	0.81	0.85
September ...	126.0	165.2	174.7	117.8	99.4	124.1	186.0	156.4	147.7	94.6	5.79	1.42	2.03	2.13	3.54	2.74	1.00	1.46	5.28	4.11
October ...	121.9	91.0	118.8	106.8	129.8	75.2	79.1	68.2	73.3	97.8	2.06	3.35	4.06	4.01	1.35	4.52	4.35	3.94	4.57	1.22
November ...	60.7	55.6	47.1	64.4	47.2	45.2	59.6	42.8	69.3	56.1	3.20	3.26	5.38	3.88	4.42	2.21	1.33	1.30	2.51	2.56
December ...	32.2	31.8	80.4	32.7	35.9	50.5	50.7	34.5	41.6	50.9	1.09	2.06	4.93	3.78	1.20	1.32	0.86	3.79	2.50	3.44
Difference from Average for the Year	0.18	0.08	0.85	0.47	0.64	0.61	0.09	0.23	0.11	0.70	5.30	1.69	0.44	6.83	2.06	1.00	7.69	4.31	1.64	4.63



