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**Contributors**

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WELSH DEPT OF HEALTH  
RECEIVED  
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A.

I have pleasure in presenting to you my  
twenty-fifth annual report upon the health of  
the District.  
It is given in accordance with the  
duties imposed by the Ministry of Health to

A N N U A L R E P O R T

of the


MEDICAL OFFICER OF HEALTH

for the

RURAL DISTRICT OF HAWARDEN

FOR THE YEAR 1948.

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GENTLEMEN,

I have pleasure in presenting to you my  
Twenty-Fifth Annual Report upon the Health of  
the District.

It is drawn up in accordance with the  
Circular issued by the Ministry of Health to  
Medical Officers of Health.

Yours obediently,

J. LLEWELLYN-JONES.

STATISTICS AND SOCIAL CONDITIONS

OF THE AREA.

Area (in Acres)	... ..	31,576.
Population (Census 1931)	... ..	26,570.
Population (June 1948)	... ..	32,100.
Density	... ..	1.01.
Number of Inhabited Houses, end of 1948, according to Rate Books..	... ..	8,760.
Number of occupied Houses owned by Local Authority.	... ..	1,744.
Rateable Value	... ..	£163,267.
Sum represented by 1d Rate	... ..	£656.
Births	... ..	666.
Birth Rate per 1,000	... ..	20.7.
Deaths	... ..	314.
Death Rate per 1,000	... ..	9.78.
Infantile Mortality Rate 1,000..	... ..	22.5.
Death Rate from all form of Tuberculosis	... ..	.62.

EXTRACTS FROM THE VITAL STATISTICS  
FOR THE YEAR.

		M.	F.	Total.	
LIVE BIRTHS	) Legitimate.	319.	322.	651.	Birth rate per 1,000 of estimated resident population - 20.7
	) Illegitimate.	15.	11.	26.	
STILL BIRTHS	) Legitimate.	8.	14.	22.	Rate per 1,000 total (live and still births) - 22.91
	) Illegitimate.	-	-	-	
Death of Infants under 1 year.					
	Legitimate.	8.	5.	13.	
	Illegitimate.	-	2.	2.	
DEATHS.		158.	156.	314.	Death Rate 9.78
Deaths from diseases and accidents of Pregnancy and child birth.					
	From Sepsis.	...	...	...	1.
	From other causes.	...	...	...	-
Death Rates of Infants under 1 Year:-					
	All infants per 1,000 live births . . . . .				22.5
	Legitimate Infants per 1,000 Legitimate Live births . . . . .				20.3
	Illegitimate Infants per 1,000. . . . .				76.9
	Illegitimate Live births . . . . .				
				M.	F.
Deaths from Measles (all Ages)				1.	-
Deaths from Whooping Cough (all Ages)				-	-
Deaths from Diarrhoea (under 2 years of age).				1.	-
Deaths from Cancer (all Ages)				28.	32.

CAUSES OF DEATH.

All Causes.	M.	F.
1. Typhoid and Para-Typhoid Fevers	-	-
2. Measles.	1.	1.
3. Scarlet Fever.	-	1.
4. Whooping Cough.	-	-
5. Diphtheria.	-	-
6. Influenza.	-	-
7. Encephalitis Lethargica.	-	-
8. Cerebro-Spinal Fever.	-	-
9. Tuberculosis of Respiratory System.	8.	10.
10. Other Tuberculosis diseases.	1.	1.
11. Syphilis.	-	-
12. Cancer, Malignant Disease.	28.	32.
13. Diabetes.	2.	1.
14. Cerebral Haemorrhage, etc.	11.	15.
15. Heart Disease.	43.	53.
16. Aneurysm.	-	-
17. Other Circulatory Diseases.	9.	4.
18. Bronchitis.	12.	6.
19. Pneumonia (all forms).	4.	4.
20. Other Respiratory Disease.	3.	-
21. Peptic Ulcer.	2.	-
22. Diarrhoea etc., (Under 2 years)	1.	-
23. Appendicitis.	-	1.
24. Diseases of Liver etc.	-	-
25. Other Digestive Diseases.	4.	3.
26. Acute and Chronic Nephritis.	6.	5.
27. Puerperal Sepsis.	-	1.
28. Other Puerperal causes.	-	-
29. Congenital Debility, Premature Birth, Malformations etc.	3.	5.
30. Road Traffic Accidents.	6.	1.
31. Suicide.	1.	-
32. Other violence.	3.	3.
33. Other Defined Diseases.	10.	10.
34. Deaths of Infants under 1 year:-		
Legitimate.	8.	5.
Illegitimate.	-	2.
Population.	32,100.	

GENERAL PROVISIONS OF HEALTH  
SERVICES IN THE AREA.

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1. Public Health Officers of the Authority.

The Public Health Officials of the Hawarden Rural District Council consist of:-

Medical Officer of Health (part time) -  
J.G. Llewellyn-Jones, M.B., Ch.B., D.P.H.

Sanitary Inspector (No.1 District) -

M. Emlyn Thomas M.S.I.A., A.R.S.I., Meat and  
Food Certificate, R.S.I.

Sanitary Inspector (No.2. District) -

Watkin Williams M.S.I.A., A.R.S.I., Meat and  
Food Certificate, R.S.I.

2. Laboratory Facilities.

This work is carried out by the Bacteriological Department, Royal Infirmary, Chester. The Bacteriological Department, University of Liverpool, and Harold Lowe, Esq., Public Analyst, Chester. The examination of Milk Samples is carried out at the University College of North Wales, Bangor, and the Emergency Public Health Laboratory, Conway.

3. Ambulance Facilities.

(a) For Infectious Cases. The Isolation Hospital is provided with a Motor Ambulance which is used solely for the conveyance of Infectious Diseases.

(b) For Non-Infectious and Accident Cases. No official provision is made, but the Ambulance provided by Messrs. John Summers and the Deeside Voluntary Ambulance are available. There is also an agreement between the Flintshire County Council and the Chester Corporation, under which the Ambulance of the latter are available when required.



4. Clinics and Treatment Centres.

There have been no additional Clinics or Treatment Centres established during the year.

5. Hospitals: Public and Voluntary.

Isolation Hospital, Pentrobin, Hawarden.  
Catherine Gladstone Maternity Home, Mancot.  
Meadowslea Sanatorium, Penyffordd.

SANITARY CIRCUMSTANCES OF THE AREA.

1. Details of Water Supply in Area.

Parish.	Name of Supply Undertaking.	Houses.		Total.
		With piped supply.	Without piped supply.	
Hawarden.	Hawarden & Dist. Waterworks Co.	3218.)	63.	3360.
	Chester Waterworks Co.	64.)		
	Wrexham & E. Denbighshire Water Co.	15.)		
Hope.	Wrexham & E. Denbighshire Water Co.	1118.	171.	1289.
Kinnerton.	Hawarden R.D. Council.	57.)	50.	112.
	Wrexham & E. Denbighshire Water Co.	5.)		
Llanfynydd.	Brymbo Water Co.	160.)	172.	482.
	Wrexham & E. Denbighshire Water Co.	150.)		
Marford & Heselcy.	Wrexham & E. Denbighshire Water Co.	143.	2.	145.
East Saltney.	Chester Waterworks Co.	1007.	-	1007.
West Saltney.	Hawarden & Dist. Waterworks Co.	1019.	24.	1043.
Sealand.	Hawarden & Dist. Waterworks Co.	402.)	107.	646.
	Chester Waterworks Co.	137.)		
Treuddyn.	Brymbo Water Co.	327.	54.	371.
		<b>7822.</b>	<b>643.</b>	<b>8465.</b>

During the year 71 Samples of water were taken 58 from Public supplies and 13 from Private supplies, of these samples, some were found to be unsatisfactory, and where results of samples were found to be below the required standard, all possible steps were taken to improve the quality of the supply.

No complaints were received about the quantity of water in the several parts of the area during the year. No lead, copper or zinc contents have been found in any of the samples taken.

## 2. Sewerage and Sewage Disposal.

Works.	Parishes served.	Approx. Population.	Remarks.
Q'Ferry.	Hawarden (greater part).	15,000.	Council have issued instructions for the reconstruction of these Works.
Sealand. (G.City).	Sealand (part).	1,150.	These Works were constructed by Sealand Tenants Ltd., in connection with their estate. No sewers provided for remainder of parish except for 80 houses belonging to W.L.S. Council have issued instructions for a scheme to be prepared to deal with the developed portion of the Parish.
Saltney.	Hawarden (part). E. Saltney (whole).	5,000.	These Works deal with drainage from R.A.F. Station and Vickers Armstrongs Factory. Scheme for enlargement of these Works in course of preparation.
P'ffordd.	Village of Penyffordd.	1,230.	
Hope.	Villages of Hope and Caergwrle.	1,710.	
Gwern Alyn.	Village of Abermorddu all in parish of Hope and part Cefn-y-bedd in Parish of Llanfynydd.	700.	Consideration is being given to the abandonment of these Works and diverting to Hope Works.
Treuddyn.	Treuddyn (Developed portion).	650.	
Cymau.	Village of Cymau in Llanfynydd Parish.	252.	
Ffrith.			Scheme prepared for Sewerage & Sewage disposal for this Village.

In addition to these Works the Council have a number of small schemes dealing with small groups of houses, which, owing to their location, cannot readily be connected to the main sewage systems.

### 3. Public Cleansing.

With the exception of Marford & Hoseley, the whole of the area is scavenged by direct labour.

### 4. Shops and Offices.

Shops in the area are inspected periodically for the purposes of the Shops Act, 1934, but no formal action was found necessary during the year.

### 5. Camping Sites.

There are no organised camping sites in the area, and no licences have been issued under Section 269 of the Public Health Act, 1936.

There are however, two sites on which caravans and temporary dwellings are situated.

Blackham's Field, Pentre, Queensferry.  
Higher Ferry Lane, Sealand.

### 6. Smoke Abatement.

No action has been taken in this respect.

### 7. Swimming Baths and Pools.

There are no swimming baths or bathing pools in the area.

### 8. Eradication of Bed Bugs.

Several privately owned dwelling houses and Council Houses were dealt with during the year for bug infestation.

The necessary work of disinfection was carried out by the Sanitary Inspectors. The methods adopted included the stripping off of all wall paper, removal of skirting boards and picture rails, and periodical spraying with "Zaldecide", "Gamexine" and D.D.T.

### 9. Rag Flock Acts, 1911 and 1928.

There are no premises in this area in which Rag Flock is manufactured or sold.

SCHOOLS.

Name of School.	Situation.	Water Supply.	Sanitary Accommodation.
Flintshire C.C.	Saltney.	Chester Water Co.	Water Closets.
Wood Memorial.	Saltney.	Chester W. Co.	Water Closets.
Roman Catholic.	Saltney.	Chester W. Co.	Water Closets.
Flintshire C.C.	Mold Junct.	Chester W. Co.	Water Closets.
Flintshire C.C.	Broughton.	Hawarden W. Co.	Water Closets.
Canon Drew Memorial.	Hawarden.	Hawarden W. Co.	Water Closets.
Infants School.	Hawarden.	Hawarden W. Co.	Water Closets.
Flintshire C.C.	Queensferry.	Hawarden W. Co.	Water Closets.
Flints.C.C.Infts.	Queensferry.	Hawarden W. Co.	Water Closets.
Grammar School.	Hawarden.	Hawarden W. Co.	Water Closets.
Church of England.	Sandycroft.	Hawarden W. Co.	Water Closets.
Flintshire C.C.	Shotton.	Hawarden W. Co.	Water Closets.
St. Ethelwold's.	Shotton.	Hawarden W. Co.	Water Closets.
Flintshire C.C.	Ewloe Green.	Hawarden W. Co.	Water Closets.
Flintshire C.C.	Garden City.	Hawarden W. Co.	Water Closets.
St. John's.	Penymynydd.	Wrexham W. Co.	Pail Closets.
Flintshire C.C.	Penyffordd.	Wrexham W. Co.	Water Closets.
Flintshire C.C.	Hope.	Wrexham W. Co.	Water Closets.
Flintshire C.C.	Abermorddu.	Wrexham W. Co.	Water Closets.
Church of England.	Kinnerton.	Kinnerton Water Supply.	Water Closets.
Church of England.	Treuddyn.	Brymbo Water Co.	Water Closets.
Flintshire C.C.	Coed Talon.	Brymbo Water Co.	Water Closets.
Flintshire C.C.	Llanfynydd.	Private Supply.	Pail Closets.
Roman Catholic.	Shotton.	Hawarden W. Co.	Water Closets.

INSPECTION AND SUPERVISION OF FOOD.

1. Milk Supply.

The milk supply on the whole is of fairly good quality. Considerable amount of work has been done during the past year with regard to the production of clean milk by way of sampling, structural improvement and general supervision.

2. Milk Samples.

During the year 25 samples were submitted for analysis. Of these 3 were submitted for biological examination. The Bacteriologist reported that the bacilli of Tuberculosis was not present in any of the samples **examined.**

In all cases of adverse reports, steps were taken to ascertain the cause, and to bring about an improvement of the supply.

## Meat and Other Foods.

All premises concerned in the production of food have been regularly visited and the following is the amount of food found to be unfit for human consumption during the year:-

Evaporated Milk.....	407	tins.
Irish Stew.....	22	tins.
Grape Fruit.....	20	lbs.
Tinned Peas.....	54	tins.
Tinned Meat.....	60	tins.
Eggs.....	254	.
Dried Milk.....	19	tins.
Tinned Fish.....	33	tins.
Tinned soup.....	38	tins.
Jan.....	34	jars.
Pickles.....	18	bottles.
Dried Peas.....	20	lbs.
Oranges.....	220	lbs.
Wet Fish.....	51	stone.
Spaghetti.....	20	pkts.
Tinned Tomatoes.....	11	tins.
Tinned salmon.....	10	tins.
Tinned Beans.....	10	tins.
Tinned Carrotts.....	5	tins.
Semolina.....	140	lbs.
Tinned Pork & Beans.....	27	tins.
Tinned Fruit.....	98	tins.
Prunes.....	25	lbs.
Sago.....	176	lbs.
Macaroni.....	66	lbs.
Scotts Oats.....	4	pkts.
Fish Paste.....	1	tin.
Bacon.....	30	lbs.
Margarine.....	2½	lbs.
Honey.....	2	jars.
Sauce.....	40	bottles.
Pudding Mixture.....	23	lbs.
Cheese.....	21	lbs.
Apples.....	140	lbs.
Mussels.....	23	tins.
Dried Egg.....	12	lbs.
Dates.....	56	lbs.
Butter.....	4	lbs.
Rolled oats.....	17	cwts.
Lemons.....	25	lbs.

PREVALENCE AND CONTROL OF INFECTIOUS  
DISEASES.

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Diphtheria.

Diphtheria Prophylactic Serum is issued free to Medical Practitioners for the immunization of children in the area.

The number of children who received the full course of immunization during the year was 214, together with 715 who received a third, or 'boosting' dose.

Vaccination.

No Vaccinations were carried out by the Medical Officer of Health under the Public Health Regulations, 1917.

Cleansing and Disinfection.

No facilities are available for the cleansing of and disinfection of verminous persons.

In all cases of Scarlet Fever and Diphtheria and death resulting from Tuberculosis and in all cases where it is considered advisable, the houses of the patients are thoroughly disinfected by the Sanitary Inspectors.

Facilities are available at the Isolation Hospital for the steam disinfection of bedding, etc.

These facilities are being made use of by neighbouring authorities and County Council.

Cancer.

Special arrangements have been made with the Registrar of Births and Deaths, whereby he immediately notifies the Medical Officer of Health, of all deaths from Cancer. The homes are visited, clothing and bedding are usually surrendered and destroyed.

Similar measures are carried out in the case of Tuberculosis.

Prevention of Blindness.

No action was taken under Section 66 of the Public Health Act, 1925.



INFECTIOUS DISEASES (OTHER THAN TUBERCULOSIS)  
DURING THE YEAR 1948.

	Under 1 Year.	1 and under 3.	3 and under 5.	5 and under 10.	10 and under 15.	15 and under 25.	Over 25.	Non Civil -ian.	Total
Small Pox.	-	-	-	-	-	-	-	-	-
Scarlet Fever.	-	6	12	50	12	1	1	-	72
Diphtheria.	-	-	-	-	-	-	-	-	-
Enteric Fever incl. Para T.	-	-	-	-	-	-	-	-	-
Puerperal Pyrexia.	-	-	-	-	-	-	2	-	2.
Pneumonia.	2	-	2	-	3	-	3	-	10.
Erysipelas.	-	-	-	-	1	-	3	-	4.
Ophthalmia Neon.	1	-	-	-	-	-	-	-	1.
Measles.	7	77	128	142	7	1	1	-	363.
Whooping Cough.	5	11	8	14	-	-	-	-	38
Cerebro Spinal Acute	1	1	-	-	-	-	-	-	2.
Polio- myclitis.	-	-	-	-	-	-	-	-	-

TUBERCULOSIS.  
TABULATED NEW CASES FOR 1948.

Age Periods.	Resp.		Non. Pulm.		Total.
	M.	F.	M.	F.	
1.	-	-	3.	3.	6.
5.	-	-	-	2.	2.
10.	5.	6.	3.	2.	16.
25.	4.	8.	2.	1.	15.
35.	6.	-	-	-	6.
45.	9.	3.	-	1.	13.
55.	1.	-	-	-	1.
65 and up- wards.	1.	1.	1.	-	3.
<b>TOTAL.</b>	<b>26.</b>	<b>18.</b>	<b>9.</b>	<b>9.</b>	<b>62.</b>

COMPARATIVE FIGURES OF INCIDENCE OF NOTIFIABLE  
INFECTIOUS DISEASES FOR THE LAST 10 YEARS.

	1936.	1937.	1938.	1939.	1940.	1941.	1942.	1943.	1944.	1945.	1946.	1947.	1948.
Scarlet	147	92	109	62	31	36	46	41	79	44	41	13	72
Fever.	109	78	59	26	29	77	37	30	23	6	4	1	-
Diphtheria	2	3	2	1	-	5	1	-	-	2	-	1	-
Typhoid.	12	7	4	11	4	11	7	-	2	1	4	2	2
Puerperal.													
Pyrexia.	17.	42	48	24	37	52	26	18	16	25	26	16	10
Pneumonia.	11	5	9	5	4	5	2	5	3	4	2	-	4
Erysipelas													
Cerebro													
Spinal													
Menigitis.	-	-	-	1	17	17	7	7	1	1	3	2	2
Measles	-	-	-	135	3	126	409	90	62	311	21	157	363
Whooping													
Cough.	-	-	-	34	261	103	44	28	52	12	11	55	38
Tuberculosis	31	39	50	44	36	40	42	46	59	40	52	43	62

-22-

Leptocarpus  
 Conifer  
 Myrica  
 Nymphaea  
 Ranunculus  
 Physalis  
 Onocrotis  
 Silene  
 Prunella  
 Salix  
 Equisetum  
 Lycopodium  
 Dipsosaurus  
 Basil  
 Bopyrus

THE NATIONAL ARCHIVES AT COLLEGE PARK, MARYLAND  
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