

**[Report 1947] / Medical Officer of Health, Hawarden R.D.C.**

**Contributors**

Hawarden (Wales). Rural District Council.

**Publication/Creation**

1947

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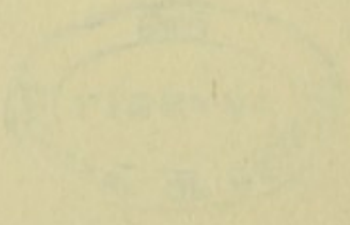


A N N U A L   R E P O R T .

of the  
MEDICAL OFFICER OF HEALTH.  
for the  
RURAL DISTRICT OF HAWARDEN.

FOR THE YEAR 1947.

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ANNUAL REPORT

of the

MEDICAL OFFICER OF HEALTH,

for the

RURAL DISTRICT OF HAWAII.

FOR THE YEAR 1947.

—00—

GENTLEMEN,

I have pleasure in presenting to you my  
Twenty-Fourth 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 1946 <sup>7</sup> )	... ..	31,920
Density	... ..	.99
Number of Inhabited Houses, end of 1947, according to Rate Books...	... ..	8,973
Number of occupied Houses owned by Local Authority	... ..	1,590
Rateable Value	... ..	£173,531
Sum represented by ld. Rate	... ..	£689
Births	... ..	721
Birth Rate per 1,000	... ..	22.3
Deaths	... ..	364
Death Rate per 1,000	... ..	11.3
Infantile Mortality Rate 1,000...	... ..	65.1
Death Rate from all forms of Tuberculosis ...		.63

EXTRACTS FROM THE VITAL STATISTICS  
FOR THE YEAR.

		M.	F.	Total		
LIVE BIRTHS	}	Legitimate	362	323	685	Birth rate per 1,000 of estimated resident population - 22.3
		Illegitimate	15	21	36	
STILL BIRTHS	}	Legitimate	11	8	19	Rate per 1,000 total (live and still- births) Births - 21.6
		Illegitimate	-	-	-	
Deaths of Infants						
Under 1 year		Legitimate	24	21	45	Death Rate - 11.3
		Illegitimate	-	2	2	
DEATHS.			207	157	364	
Deaths from diseases and accidents of Pregnancy and child birth.						
		From Sepsis	...	...	...	-
		From other causes	....	....	....	1
Death Rates of Infants under one Year:-						
		All infants per 1,000 live births	.. ... ..			65.1
		Legitimate Infants per 1,000 Legitimate Live births	... ..			21.6
		Illegitimate Infants per 1,000 Illegitimate Live Births	... ..			55.5
						M. F.
Deaths from Measles (all Ages)			...	...	...	1 -
Deaths from Whooping Cough (all Ages)			...	...	...	1 1
Deaths from Diarrhoea (under 2 years of age)			...	...	...	1 3
Deaths from Cancer (all Ages)			...	...	...	28 19



CAUSES OF DEATH.

	M.	F.
All Causes.	207	157
1. Typhoid and Para-Typhoid Fevers .....	0	0
2. Measles .....	1	0
3. Scarlet Fever .....	0	0
4. Whooping Cough .....	1	1
5. Diphtheria .....	0	0
6. Influenza .....	0	0
7. Encephalitis Lethargica .....	0	0
8. Cerebro-Spinal Fever .....	0	1
9. Tuberculosis of Respiratory System .....	9	9
10. Other Tuberculosis diseases .....	2	1
11. Syphilis .....	0	0
12. Cancer, Malignant Disease .....	28	19
13. Diabetes .....	0	1
14. Cerebral Haemorrhage, etc. ....	17	24
15. Heart Disease .....	64	42
16. Aneurysm .....	0	0
17. Other Circulatory Diseases .....	10	6
18. Bronchitis .....	10	12
19. Pneumonia (all forms) .....	9	9
20. Other Respiratory Disease .....	0	1
21. Peptic Ulcer .....	3	1
22. Diarrhoea etc., (Under 2 years) .....	1	3
23. Appendicitis .....	2	1
24. Diseases of Liver etc., .....	0	0
25. Other Digestive Diseases .....	3	2
26. Acute and Chronic Nephritis .....	5	5
27. Puerperal Sepsis .....	0	0
28. Other Puerperal causes .....	0	1
29. Congenital Debility; Premature Birth, Malformations etc., .....	16	9
30. Road Traffic Accidents. ....	2	0
31. Suicide .....	1	0
32. Other violence .....	6	3
33. Other Defined Diseases .....	17	6
34. Deaths of Infants under 1 years:- .....		
Legitimate .....	24	21
Illegitimate .....	0	2
Population .....	31,920	



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 Ambulances 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 Ambulances of the latter are available when required.



4. Nursing in the Home.

(a) The District Nurses are greatly in demand and co-operate most willingly with the Medical Practitioners. Nursing is provided by public subscriptions to the Nursing Funds, under the auspices of the North Wales Nursing Association. By the kindness of the District Nurses I am in the position to give you the following information:-

<u>Name of Association</u>	<u>Name of Nurse</u>	<u>Cases.</u>	<u>No. of visits.</u>
Shotton, Queensferry and Garden City.	Nurse Shaw.	177	3,135
	Nurse A.E. Humphreys.	247	3,158
Hawarden.	Nurse Bennion	282	2,951
Llanfynydd	Nurse M.N. Gordon.	173	2,006
<i>Hope</i>	<i>nurses Williams &amp; Williams</i>	<i>336</i>	<i>4,229</i>
(b) Infectious Diseases. No provision has been made for the home nursing of such cases.			

5. Clinics and Treatment Centres.

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

6. Hospitals: Public and Voluntary.

Isolation Hospitals, Pentrobin, Hawarden.  
Catherine Gladstone Maternity Home, Manot.  
Meadowslea Sanatorium, Penyffordd.



SANITARY CIRCUMSTANCES OF THE AREA.

L. Details of Water Supply in Area.

Parish.	Name of Supply Undertaking.	Houses		Total.
		With piped supply	Without piped supply.	
Hawarden	Hawarden & Dist. Waterworks Co.,	3070	272	3421
	Chester Waterworks Co.,	64		
	Wrexham & E. Denbighshire Water Co.,	15		
Hope	Wrexham & E. Denbighshire Water Co.,	1008	271	1279
Kinnerton	Hawarden R.D. Council	57	50	112
	Wrexham & E. Denbighshire Water Co.,	5		
Llanfynydd	Brymbo Water Co.,	117	191	458
	Wrexham & E. Denbighshire Water Co.,	150		
Marford & Hoseley	Wrexham & E. Denbighshire Water Co.,	143	2	145
East Saltney	Chester Waterworks Co.,	995	16	1011
West Saltney	Hawarden & Dist. Waterworks Co.,	1019	24	1043
Sealand	Hawarden & Dist. Waterworks Co.,	402	117	646
	Chester Waterworks Co.,	127		
Treuddyn	Brymbo Water Company.	268	90	358
		7440	1013	8473

During the year 49 Samples of water were taken 25 from Public supplies, and 24 from Private supplies, of these samples, some were found to be unsatisfactory, and where the 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) West Saltney (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 Sowerago & Sewage disposal for this Village.

In addition to the above 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 "Zaldehyde", "Gamexinc" 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.	Sandyroft.	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 18 samples were submitted for analysis. Of these 6 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:-

Tinned Meat.....	49	tins.
Tinned Peas.....	27	tins.
Tinned Plums.....	60	tins.
Tinned Milk.....	272	tins.
Tinned Beans.....	50	tins.
Tinned Spagghetti.....	2	tins.
Tinned Sardines.....	2	tins.
Tinned Soup.....	30	tins.
Tinned Salmon.....	15	tins.
Tinned Stew.....	1	tin.
Tinned Pilchards.....	21	tins.
Tinned Peaches.....	1	tin.
Tinned Tomatoes.....	16	tins.
Tinned Jam.....	1	tin.
Tinned Tongue.....	1	tin.
Meat & Fish Paste.....	21	jars.
Pickles.....	72	jars.
Eggs.....	250	
Margarine.....	108	lbs.
Flour.....	113	lbs.
Ginger.....	11	lbs.
Rolled oats.....	4	awts. 38 lbs.
Carrots.....	10	tons 3 awts.
Tomatoes.....	4	cases.
Oranges.....	1	Box.
Cheese.....	41	lbs.
Potatoes.....	1	ton 1 awt.
Fish.....	38	stones.
Yeast.....	14	lbs.
Cake.....	180	lbs.
Bacon.....	26	lbs.
Bacon Pig.....	1	
Crushed Cherries.....	12½	lbs.
Beef.....	13	lbs.
Brown Sugar.....	44	lbs.
Dried Peas.....	50	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 287, together with 269 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 1947.

	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	-	-	3.	5.	3.	2.	-	-	13.
Diphtheria	-	-	-	1.	-	-	-	-	1.
Enteric Fever incl. Para T.	-	-	-	-	-	-	-	1.	1.
Puerperal Pyrexia	-	-	-	-	-	-	2.	-	2.
Pneumonia	3.	1.	-	-	-	4.	8.	-	16.
Erysipelas	-	-	-	-	-	-	-	-	-
Ophthalmia Neon.	1.	-	-	-	-	-	-	-	1.
Measles	5.	17.	46.	63.	16.	5.	5.	-	157.
Whooping Cough	5.	8.	18.	15.	8.	1.	-	-	55.
Cerebro Spinal	-	2.	-	-	-	-	-	-	2.
Acute Polio- myelitis	-	-	1.	1.	-	-	-	-	2.

TUBERCULOSIS.  
TABULATED NEW CASES FOR 1947.

Age Periods.	Resp.		Non Pulm		Total.
	M.	F.	M.	F.	
1.	1.	1.	1.	1.	4.
5.	-	1.	1.	2.	4.
10.	10.	4.	-	-	14.
25.	7.	6.	1.	-	14.
35.	2.	1.	-	-	3.
45.	-	1.	-	1.	2.
55.	-	2.	-	-	2.
65 and up- wards	-	-	-	-	-
TOTAL -	20.	16.	3.	4.	43.



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.
Scarlet	147.	92.	109.	62.	31.	36.	46.	41.	79.	44.	21.	13.
Fever.	109.	78.	59.	26.	29.	77.	37.	39.	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.
Puerperal												
Pyrexia												
Pneumonia.	17.	42.	48.	24.	37.	52.	26.	18.	16.	25.	26.	16.
Erysipelas.	11.	5.	9.	5.	4.	5.	2.	5.	3.	4.	2.	-
Cerebro												
Spinal												
Meningitis)												
Measles	-	-	-	135.	3.	126.	409.	90.	62.	311.	21.	157.
Whooping												
Cough.												
Tuberculosis.	31.	39.	50.	34.	261.	103.	44.	28.	52.	12.	11.	55.
				44.	36.	40.	42.	46.	59.	40.	52.	43.



NAME	REGT	COMP	DATE	NOV	NO	CO	NO	REGT	COMP	DATE	NOV	NO	CO	NO	REGT	COMP	DATE	NOV	NO	CO	NO	REGT	COMP	DATE	NOV	NO	CO	NO
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

COMPANY RECORD BOOK OF THE REGIMENT