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ANNUAL REPORT

- of the -

MEDICAL OFFICER OF HEALTH

- for the -

RURAL DISTRICT OF HAWARDEN



- FOR THE YEAR -

1961



Gentlemen,

I have the honour to present to you my Annual Report on the Health of the Hawarden Rural District for the year 1961.

The Registrar General's estimated population for mid-year 1961 was 36,450 an increase of 430 since mid 1960.

The birth and death rates are based in this population figure. Whilst for comparison with other districts comparability factors of 1.02 for births and 1.26 for deaths are applied.

The total number of live births during the year was 672 and gave a birth rate of 18.8 per 1,000. The national rate being 17.4.

The total number of deaths was 391 and gave a rate of 13.5 per 1,000, The national figure was 12.0 per 1,000.

There were 17 deaths of infants under 1 year of age of which 13 died in the first week of life. The infantile mortality rate was 25.3 per 1,000 live births, the national figure being 21.4 per 1,000 live births.

The principle cause of death (all ages) was diseases of the heart and circulatory system ( 17 - 21 inclusive in the table) 199 out of a total of 391, i.e. 52%. Cancer accounted for 74, nearly 19%. Together these two groups accounted for 273 (71%) of all deaths.

For the thirteenth year there has been neither death nor case of diptheria in the district, but the need for immunisation of infants continues.

Infectious diseases were generally light in the year. Tuberculosis notifications fell from 40 to 25. Pneumonia notifications were a little higher - 15 against 9 last year.

Housing continued to occupy the active interest of your Health Department, and your Public Health Inspectors continued their work of inspections and enquiries into the environmental circumstances of housing applicants.

To conclude, Gentlemen, I thank the Chairman and Members of the Health Committee for their support and help during the year. Your Clerk, Mr. F.N.V. Meredith was always helpful, your Surveyor, Mr. G.I.Reidford has co-operated in every way and your Public Health Inspectors, Mr. M.E.Thomas and Mr. D.R. George gave loyal support, and I wish to thank them and all your Officials for their continued assistance during the year.

I have the honour to be Gentlemen ,  
Your obedient Servant,

A. CATHCART.

MEDICAL OFFICER OF HEALTH.

Continued

I have the honor to present to you my annual report on the health of the Hawaiian Islands for the year 1901.

The Hawaiian Islands' total population for the year 1901 was 104,400 as against 100,000 in 1900.

The birth and death rates are based on this population figure. The birth rate was 25.4 per 1,000 and the death rate 11.4 per 1,000.

The total number of live births during the year was 26,500 and the death rate was 11.4 per 1,000.

The total number of deaths was 11,900 and the death rate was 11.4 per 1,000.

There were 17 deaths of infants under 1 year of age of whom 15 died in the first week of life. The infant mortality rate was 10.7 per 1,000 live births, the highest being 21.4 per 1,000 live births.

The principal cause of death (all ages) was disease of the heart and circulation, which is a leading cause of death. It was a total of 1,100 deaths, or 10.5 per 1,000 of the population. Together there was a total of 1,100 deaths, or 10.5 per 1,000 of the population.

For the first time ever there has been within death rate of 10 per 1,000 in the islands, and the rate of improvement of health continues.

The following diseases were generally fatal in the year: Tuberculosis, pneumonia, typhoid fever, cholera, and dysentery.

Special mention is made of the active interest of your health department and your health officials in connection with the improvement and sanitation of the environment, and the improvement of public buildings.

To continue, however, I thank the United States and Hawaii for the health services for their support and help during the year. Your health, Mr. W.H. King, and those of your family, your country, and the Hawaiian Islands are all in good health and your health department, Mr. W.H. King and Mr. W.H. King, have given your health support, and I want to thank you and all your officials for their constant assistance during the year.

I have the honor to be, Sir,  
Your obedient servant,  
L. J. BIRDSONG,

Health Officer, Honolulu, Hawaii.



STATISTICS AND SOCIAL CONDITIONS OF THE AREA

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	<u>1957</u>	<u>1958</u>	<u>1959</u>	<u>1960</u>	<u>1961</u>
Area (in acres)...	31,576	31,576	31,576	31,576	31,576
Population (Census 1951) ...	34,659	34,659	34,659	34,659	34,659
Population (Estimated Mid-Year)	35,890	35,360	35,520	36,020	36,540
Density ...	1.1	1.1	1.1	1.1	1.15
Number of Inhabited Houses according to Rate Books ...	10,465	10,205	10,651	10,813	11,093
<u>Number of Houses Completed</u>					
Local Authority...	82	75	54	23	46
Private ...	<u>141</u>	<u>130</u>	<u>136</u>	<u>139</u>	<u>147</u>
Totals	<u>223</u>	<u>205</u>	<u>290</u>	<u>162</u>	<u>193</u>
Number of occupied houses owned					
by Local Authority ...	2,938	3,013	3,139	3,162	3,185
Rateable Value ...	£381,897	£387,557	£465,261	£466,298	£481,424
Sum represented by 1d Rate ...	£1,523	£1,625	£1,725	£1,868	£1,994
Births ...	599	546	591	643	672
Birth Rate per 1,000	17.0	16.7	16.9	17.1	18.8
Deaths ...	312	359	309	363	391
Death Rate per 1,000 ...	10.9	12.6	10.9	11.5	13.5
Infantile Mortality Rate per 1,000 live births ...	18.3	25.6	15.0	21.7	25.3
Death Rate from all forms of Tuberculosis per 1,000 ...	0.13	0.05	0.11	0.13	0.16

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EXTRACTS FROM THE VITAL STATISTICS  
FOR THE YEAR

ESTIMATED MID-YEAR POPULATION

36,540

COMPARABILITY FACTORS

BIRTHS	DEATHS
1.02	1.26

LIVE BIRTHS

	Male	Female	Total	Birth rate per 1,000 Home Population
Total	335	337	672	17.4
Legitimate	327	325	652	
Illegitimate	8	12	20	

STILL BIRTHS

	Male	Female	Total	Rate per 1,000 Total (Live & Still Births)
Total	5	11	16	18.7
Legitimate	5	11	16	
Illegitimate	-	-	-	

DEATHS OF INFANTS UNDER 1 YEAR OF AGE

	Male	Female	Total	Infantile Mortality per 1,000 Live Births
Total	9	8	17	21.4
Legitimate	9	8	17	
Illegitimate	-	-	-	

DEATHS OF INFANTS UNDER 4 WEEKS OF AGE

Total	7 Male	6 Female	Total 13
Legitimate	7 Male	6 Female	Total 13
Illegitimate	- Male	- Female	Total Nil

DEATHS OF INFANTS UNDER 1 WEEK

Total	7 Male	6 Female	Total 13
Legitimate	7 Male	6 Female	Total 13
Illegitimate	- Male	- Female	Total Nil



CAUSES OF DEATH

	<u>1 9 6 1</u>	
	Male	Female
1. Tuberculosis - Respiratory.	4.	1.
2. Tuberculosis - Other.	-	1.
3. Syphilitic Disease.	-	-
4. Diphtheria.	-	-
5. Whooping Cough.	-	-
6. Monigococcal Infection.	-	-
7. Acute Poliomyelitis.	-	-
8. Measles.	-	-
9. Other Infective or Parasitic Diseases.	-	-
10. Malignant neoplasm stomach.	8.	4.
11. Malignant neoplasm lungs - Bronchus.	19.	-
12. Malignant neoplasm breast.	-	6.
13. Malignant neoplasm uterus.	-	3.
14. Other Malignant and Lymphatic neoplasms.	21.	13.
15. Leukaemia Aleukaemia.	4.	-
16. Diabetes.	3.	1.
17. Vascular Lesions of nervous systems.	25.	35.
18. Coronary Disease - Angina.	41.	22.
19. Hypertension with Heart Disease.	4.	8.
20. Other Heart Diseases.	21.	18.
21. Other Circulatory Diseases.	12.	13.
22. Influenza.	4.	7.
23. Pnuemonia.	11.	7.
24. Bronchitis.	13.	8.
25. Other Diseases of Respiratory System.	4.	1.
26. Uloer of Stomach and Duodenum.	1.	-
27. Gastritis, Enteritis and Diarrhoea.	1.	1.
28. Nehpritis and Nephrosis.	2.	3.
29. Hyperplasia of Protrate.	-	-
30. Pregnancy - Childbirth - Abortion.	-	-
31. Congenital Malformations.	1.	2.
32. Other Defined and Ill-defined Diseases.	12.	12.
33. Motor Vehicle Accidents.	4.	3.
24. All other Accidents.	5.	1.
35. Suicide.	-	-
36. Homicide and Operations of War.	1.	-
	<u>221.</u>	<u>170.</u>

TOTAL - 391 Death Rate 13.5 per 1,000  
Home Population.

Deaths from Diseases and Accidents	Nil.
Pregnancy & Childbirths	
From Sepsis	Nil.
Other causes	Nil.
Deaths from Diarrhoes (Under 2 years of age)	2.
Deaths from Cancer (All ages)	74.
Deaths from diseases of the Circulatory system (Including Heart Diseases) (All Ages) - 199	- 103 Male 96 Female.

After application of the comparability factor:

BIRTH RATE for comparision with other areas - 13.8 per 1,000 home population.  
DEATH RATE for comparision with other areas - 13.5 per 1,000 home population.

There was an increase of 28 in the number of deaths during 1961 as compared with 1960. The number of deaths from circulatory and heart diseases was 2 less than in 1960 and Cancer 18 more.

Respiratory diseases - Pnuemonia, Bronchitis and other diseases of the Respiratory System - 8 more. Influenza was responsible for 11 deaths.



GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

1. PUBLIC HEALTH OFFICERS OF THE AUTHORITY

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

Medical Officer of Health

Dr. A. Cathcart, M.B., Ch.B., D.T.M. & H., D.P.H.

Chief Public Health Inspector

M. Emlyn Thomas, M.A.P.H.I., M.R.S.H., Meat & Food Certificate R.S.I.

Public Health Inspector

D.R. George, M.A.P.H.I., A.R.S.H., Meat & 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, Birkenhead. Some specimens being dealt with by the Public Health Laboratory, Birkenhead.

3. AMBULANCE FACILITIES

These services are now under Control of the Flintshire County Council.

4. CLINICS AND TREATMENT CENTRES

Maternity and Child Welfare Clinics are established at Saltney, Broughton, Pentre, Shotton and Caergwrle.

School Clinics at Shotton, Saltney and Caergwrle.

Orthopaedic Clinics at Shotton.

A Chest Clinic at Queensferry.

5. HOSPITALS

Isolation Hospital, Pentrobin, Hawarden - now for old persons.

Catherine Gladstone Maternity Home, Mancot.

Meadowslea Sanatorium, Penyffordd.

The above are situated in the District, but hospitals over a much wider area are used both for infectious diseases and general cases, among these the more important are:-

Wrexham War Memorial.

Wrexham Maelor General.

Chester Royal Infirmary.

Chester City Hospital.

Clatterbridge Infectious Disease Hospital.

Infectious diseases including all types of Poliomyelitis are dealt with at the Isolation Branch of Maelor General Hospital, Wrexham.

INSPECTION AND SUPERVISION OF FOOD

1. Milk Supply

The Milk (Special Designation) Regulations 1960.

The above Regulations came into operation on October 1st, 1960. The responsibility for the granting of Dealers Licences now rests with the County Council, and is the Food and Drug Authority, and the samples of designated milk are no longer carried out by the District Authority.

Apart from the Registration of Distributors by the Local Authorities, all milk and dairy legislation is now administered by the Ministry of Agriculture, Fisheries and Food, and by the Food and Drug Authorities.

2. Ice Cream

There are 66 premises registered under Section 16 of the Food & Drugs Act, 1955, all of these except one are for the purpose of selling 'Pre Packed' ice cream, only one of the registered premises is concerned with the manufacturing of Ice cream.

During the year 19 samples were taken from the premises for Bacteriological examination, with the following results:

Grade 1. - 19 samples.

3. Meat and other foods.

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

Tomatoes	5 tins.
Salmon.	7 tins.
Cooked Ham ( <del>Ham</del> )	228 lbs.
Minced Beef.	35 lbs.
Corned Beef.	36 tins.
Fish.	42 lbs.
Beasts Livers	416 lbs.
Pinapple.	77 tins.
Sheeps Livers	64 lbs.
Apricots.	7 tins.
Pears.	6 tins.
Luncheon Meat.	48 tins.
Oranges.	6 tins.
Tongue.	6 tins.
Beasts Lungs.	6 lbs.
Chocolate Coconut marshmallows.	228 lbs.
Cockles.	16 lbs.
Lembs Livers (Frozen)	20 lbs.
Jellied Veal.	6 lbs.
Tinned Meat.	12 tins.
Pigs Carcasses.	520 lbs.



Cont. Meat & Other Foods.

The following is a report on the number of animals slaughtered, inspected and the amount of meat condemned in the four existing Slaughterhouses during the year.

CARCASES INSPECTED AND CONDEMNED

	Cattle excluding Cows.	Cows.	Calves.	Sheep and Lambs	Pigs.
Number killed.	501	-	6	5188	97
Number Inspected.	501	-	6	5188	97
<u>All Diseases except Tuberculosis</u>					
Whole Carcasses condemned					13
Carcasses of which some part or organ was con.	33	-	-	46	-
Percentage of the number inspected affected with diseases other than T.B.	6.58.	-	-	.884	13.4
<u>Tuberculosis only</u>					
Whole carcasses condemned.	-	-	-	-	-
Carcasses of which come part or organ was con.	-	-	-	-	-
Percentage of the number inspected affected with Tuberculosis	--	-	-	-	-

SANITARY CIRCUMSTANCES IN THE  
Hawarden Rural District

1. DETAILS OF WATER SUPPLY IN THE AREA

<u>Parish</u>	<u>Name of Supply undertaking</u>	<u>Houses</u>		<u>Total</u>
		<u>With Piped supply</u>	<u>Without Piped Supply</u>	
Hawarden	Hawarden & District Water-works Company.	4661	21	4823
	Chester Waterworks Company.	119		
	Wrexham & E. Denbighshire Water Company.	22		
Hope.	Wrexham & E. Denbighshire Water Company.	1431	77	1537
	Caergwrle Water Supply.	29		
Kinnerton	Wrexham & E. Denbighshire Water Company.	129	10	139
Marford & Hoseley.	Wrexham & E. Denbighshire Water Company.	198	-	198
West Saltney	Hawarden & District Water-works Company.	1135	-	1135
East Saltney	Chester Waterworks Company.	1348	--	1348
Sealand	Hawarden & District Water-works Company.	675	57	893
	Chester Waterwork Company.	161		
Treuddyn	Wrexham & E. Denbighshire Water Company.	382	35	418
Llanfynydd	Wrexham & E. Denbighshire Water Company.	406	81	487

During the year 32 samples of water were taken, 20 from public supplies, and 12 from private supplies. Of these 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.

2. Sewerage, and Sewage Disposal

<u>Works</u>	<u>Parishes served</u>	<u>Approx. Population</u>	<u>Remarks.</u>
Queensferry	Hawarden (Greater Part)	17,086	These works have been reconstructed and during the year the sewer was extended up the Liverpool Road taking in a considerable number of properties in this area and also taking a section of sewage from Buckley Urban District.
Sealand (Garden City)	Sealand.		The whole of the sewage from Sealand Parish is brought to the works at Queensferry.



<u>Works</u>	<u>Parishes Served</u>	<u>Approx. Population</u>	<u>Remarks</u>
Saltney	Hawarden (Part) E.Saltney (Whole)	5,000	These works deal with drainage from R.A.F. Station and De Havilland Aircraft Factory. The scheme for enlargement of these works is now completed.
Penyffordd	Village of Penyffordd.	1,230	The works are working satisfactorily.
Hope	Villages of Hope and Caergwrle.	1,710	- do -
Treuddyn	Treuddyn (Developed portion)	650	The sewage disposal plan is working satisfactorily.
Cymmau	Village of Cymmau in Parish of Llayfynydd.	252	- do -
Ffrith			- do -
Marford			During the year the laying of this sewer has been completed.
Kinnerton	Kinnerton	520	- do -
Caer Estyn			This scheme is now completed.
Dobshill			- do -

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 system.

### 3. Public Cleansing

The whole of the area is scavenged by direct labour.

### 4. Shops and Offices

Shops in the area are inspected periodically for the purpose of the Shops Act, 1950, but no formal action was found necessary during the year.

### 5. Camping Sites

There are still four sites on which caravans and temporary dwellings are situated:-

Crobetts Yard, Pentre.  
Higher Ferry Lane, Sealand.  
Mill Stone Inn, Penyffordd.  
Gladstoneway, Queensferry.

### 6. Smoke Abatement

No formal action has been taken in this respect.

### 7. Swimming Baths and Pools

There are no swimming baths or bathing pools in the Hawarden Rural District.

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 Public Health Inspectors.

The method adopted included the stripping off of all wall-paper, removal of skirting boards and picture rails, and periodical spraying with 'Zaldecide', D.D.T., and 'Gamexane'.

9. Rag Flock Act, 1911 and 1928

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

ADMINISTRATION OF THE FACTORIES ACTS, 1937/1959 FOR THE YEAR OF 1961.

Part 1 of the Act.

1. INSPECTIONS relating to provisions for health made by the Public Health Inspectors during 1961.

	No. on Register	NUMBER OF		
		Inspections	Written Notices	Occupiers Prosecuted
(i) Factories where Sections 1,2,3,4 & 6 are to be enforced by Local Authority.	23	12	-	-
(ii) Factories not included above where Section 7 is to be enforced by the Local Authority.	118	98	6	-
(iii) Other premises where Section 7 is to be enforced by the Local Authority.	-	-	-	-

2. Cases in which DEFECTS were found

No cases of defects due to want of cleanliness, overcrowding, unreasonable temperature, inadequate ventilation or ineffective drainage of floors, were found. Three cases of defective and insufficient sanitary accommodation were found, as shown in the next table, most of these were found on civil engineering sites.

	No. of cases with defects found				Prosecuted
	Found	Remedied	Referred To H.M. Inspector	by H.M. Inspector	
Sanitary conveniences (Section 7):					
(a) Insufficient	-	-	-	-	-
(b) Unsuitable or defective	3	3	-	-	-
(c) Not separate for the sexes	-	-	-	-	-
Total defects under Part 1 of the Act	3	3	-	-	-

Cont. Factories Acts.

Part VIII of the Act, Outwork (Sections 110 and 111).

Nature of Work	Section 110		
	No. of out-workers in August list as required by Sect. 110 (1) (c)	No. of cases of default in sending lists to the Council.	No. of Prosecutions for failure to supply lists.
Wearing apparel: Making etc.	3	-	-

No instances relating to Section 111 (unwholesome premises) were known.



## PREVALENCE AND CONTROL OF INFECTIOUS DISEASES.

### DIPHTHERIA

Diphtheria Prophlactic Antigen is issued free to Medical Practitioners for the immunisation of children in the area.

All records relating to Diphtheria Immunisation are forwarded by Medical Practitioners or Assistant School Medical Officers to the Department of the County Medical Officer of Health. The County Council now provide for children to be protected against Diphtheria and Whooping Cough by the use of all combined Antigen.

### VACCINATION

Vaccinations were carried out by the Medical Officer of Health at the County Council Child Welfare Clinics. During the year no Smallpox contact entered the area from infected ships or aircraft.

### CLEANSING AND DISINFECTION

During the year no demands were made for the cleansing of and disinfection of verminous persons.

In all cases of Scarlet Fever and Death resulting from Tuberculosis as well in all cases where it is considered advisable, the houses of the patients are thoroughly disinfected by the Public Health Inspectors.

Facilities are available at the Isolation Hospital for the steam disinfection of bedding, but this hospital is now under the control of the North Wales Hospital Board with whom co-operation is maintained.

### PREVENTION OF BLINDNESS

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



INFECTIOUS DISEASES (OTHER THAN TUBERCULOSIS)  
DURING THE YEAR 1961

	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	Age un- known	Total
Scarlet Fever	-	-	-	3	-	-	-	-	3
Pneumonia	-	2	-	2	-	2	9	-	15
Measles	10	76	97	150	10	1	-	6	350
Whooping Cough	-	-	-	2	-	-	-	-	2
Dysentery	-	-	1	2	-	-	-	-	3
<u>Acute Poliomyelitis</u>									
N.P.	-	-	-	-	-	-	-	-	-
P.	-	-	1	-	-	-	-	-	1

TUBERCULOSIS

TABULATED NEW CASES FOR 1961

Age period	Resp.		Meninges & CNS		Other.		Total
	Male.	Female.	Male.	Female.	Male.	Female.	
1 - 4	-	-	-	-	-	-	-
5 - 14	2	1	-	-	-	1	4
15 - 24	3	1	-	-	-	-	4
25 - 44	3	-	-	-	-	-	3
45 - 64	7	3	-	-	1	1	12
65 & over	1	-	-	-	-	-	1
Age unknown	1	-	-	-	-	-	1
Total:	17	5	-	-	1	2	25



Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Population	100	105	110	115	120	125	130	135	140	145	150
Area	100	100	100	100	100	100	100	100	100	100	100
Production	100	105	110	115	120	125	130	135	140	145	150
Consumption	100	105	110	115	120	125	130	135	140	145	150
Exports	100	105	110	115	120	125	130	135	140	145	150
Imports	100	105	110	115	120	125	130	135	140	145	150
Balance of Trade	100	105	110	115	120	125	130	135	140	145	150
Balance of Payments	100	105	110	115	120	125	130	135	140	145	150

The following table shows the results of the survey conducted in the year 1960. The data is presented in a tabular form, with the first column representing the year and the subsequent columns representing various economic indicators. The indicators include Population, Area, Production, Consumption, Exports, Imports, Balance of Trade, and Balance of Payments. The values for each indicator are listed in the corresponding rows, showing a general upward trend over the period from 1950 to 1960.