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WELSH DEPT. OF HEALTH

29 MAR 1951

Montgomeryshire County Council

Annual Report

OF THE

County Medical Officer of Health

IVOR J. JONES, M.B., B.S., M.R.C.S., L.R.C.P., D.P.H.

FOR THE

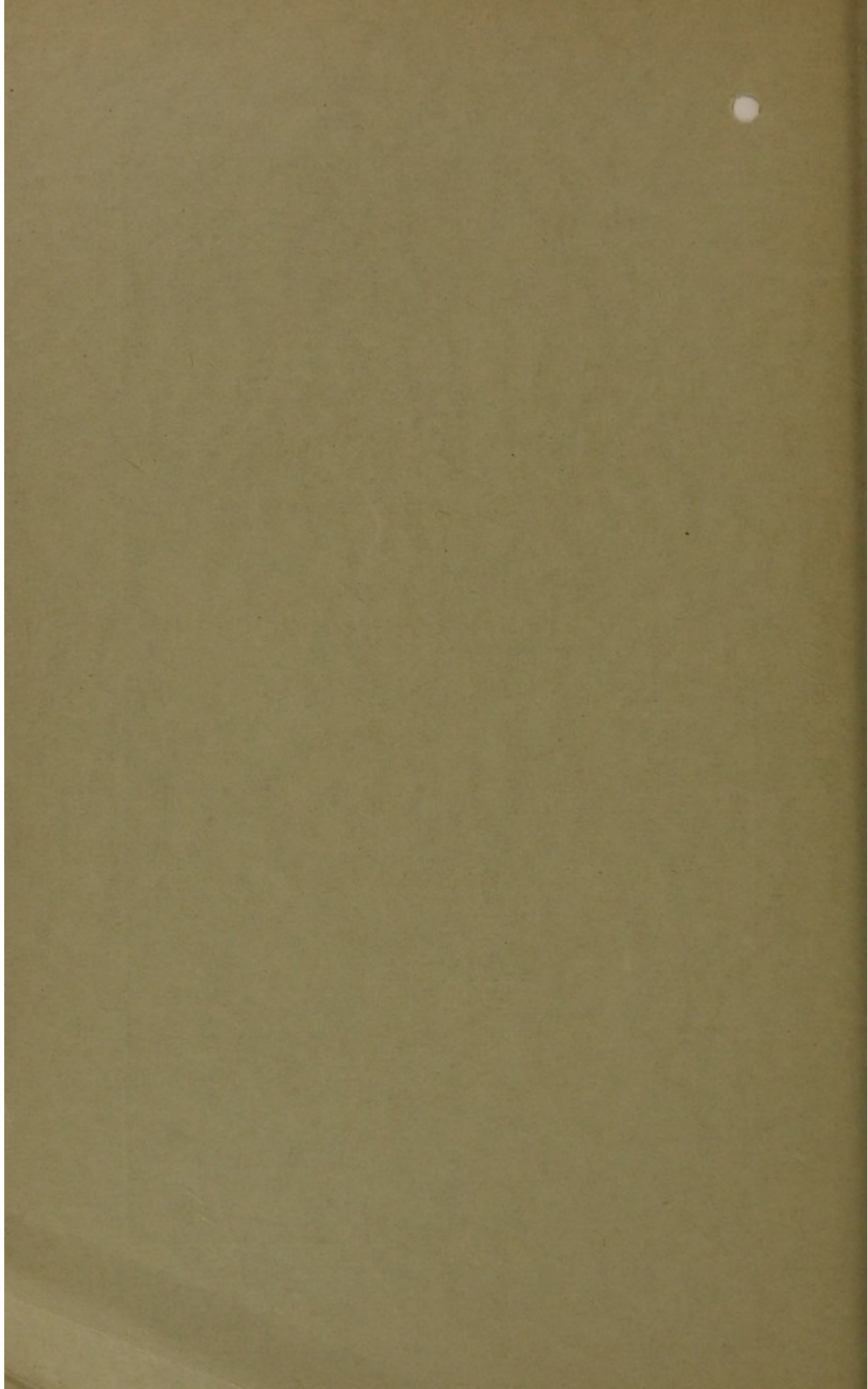
Year ended 31st December, 1949

COUNTY HEALTH OFFICES,

NEWTOWN, MONTG.

December, 1950.





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FOR THE

Year ended 31st December, 1949

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December, 1950.

TO THE CHAIRMAN AND MEMBERS OF THE MONTGOMERYSHIRE
COUNTY COUNCIL.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present the Annual Report of the County Medical Officer of Health for the Year 1949.

The work of the Council's Health Department has increased remarkably since 1940, but progress is hampered by the shortage of medical staff and suitable premises for clinical purposes and for office staff.

The Vital Statistics for 1949 show the same trend as in recent years. There has been a small increase in population each year since the end of the War and a decrease in the number of births each year since 1946. In 1949 there were 802 live births—a Rate of 17.5 per 1,000 population. The Stillbirth Rate remains at the same level as that for England and Wales. The Infantile Mortality Rate (i.e. deaths of infants under one year of age per 1,000 live births) viz. 46, is not so satisfactory, this being the highest Rate since 1942, comparing unfavourably with the Rate for England and Wales. The proportion of births which were illegitimate was 6.5%, a decrease from 7.4% in 1948. The Infantile Mortality Rate for illegitimate births was 41, i.e. lower than the Rate for legitimate births.

There were 590 deaths as against 802 live births in 1949. The Crude Death Rate was 12.9 per 1,000 population; the same as for 1948. Only once previously has the Death Rate in the County been lower than this, viz., 12.6 in 1926. The Rate of 12.9 compares favourably with the Rate of 11.7 for England and Wales, when the age constitution of the County population is compared with that of England and Wales; there being a higher proportion of old people in Montgomeryshire than in England and Wales.

It is apparent that, notwithstanding the excess of births over deaths in the County since 1941, the emigration of

adolescents and young adults from the County is continuing and the proportion of old people, therefore, continues to increase.

During 1949, 73 persons died of Cancer and 23 from pulmonary Tuberculosis, but there were no deaths from non-pulmonary Tuberculosis and no maternal deaths.

From the point of view of the incidence of infectious diseases, 1949 was a good year. There have been no cases of diphtheria since 1947 and no deaths from diphtheria since 1943. There were 2 cases of poliomyelitis, 1 case of typhoid, 62 cases of measles and 33 of whooping cough. Measles caused 1 death.

The National Health Service Act has caused much increased work on the part of the staff, particularly with regard to the Ambulance Service, but we are very grateful indeed to the St. John Ambulance Divisions in the County for providing an Ambulance Service, and to the W.V.S. for providing a Sitting Car Service. These voluntary bodies are saving the Council a very considerable sum of money each year. These Services also have placed an increased demand on the Health Department office staff. It has not been possible to develop the Home Help Service in the absence of an Organiser, but it is hoped that the Service will be developed in the near future.

The domiciliary District Nursing and Midwifery Service has continued to function satisfactorily after the take-over on the 5th July, 1948, from the County and District Nursing Associations to whom our thanks are due for many years of service.

The appointment of Health Visitors has enabled the Department to develop a systematic health visiting service, including the health visiting of tuberculous patients in their own homes.

The shortage of medical staff has prevented the opening of any Ante-natal or Post-natal clinics in the County or any increase in the number of Child Welfare Centres.

The Welsh Regional Hospital Board sent a Mass Radiography Unit to the County for three months and, in conjunction with the Medical Research Council, tuberculin testing and the X-raying of chests were offered to all school children.

The administration of the Milk (Special Designations) Regulations ceased to be a function of the County Council on the 1st October, 1949, and has now passed to the Ministry of Agriculture and Fisheries who have delegated their local functions to the County Agricultural Executive Committee.

I should like to express my gratitude to members of the Committees and officers of the Council, to the St. John Ambulance Divisions, the County Branch of the British Red Cross Society and the W.V.S. for their continued help throughout the year.

I have the honour to be,

Your obedient Servant,

IVOR J. JONES.

County Health Offices,
Newtown.
December, 1950.

HEALTH COMMITTEE.

County Council Representatives :

Alderman W. A. Tutton, Chairman of the Council;
" G. F. Hamer, Vice-Chairman of the Council;
" John Griffith
" Rev. David James
" Lloyd O. Owen (until May, 1949)
" W. Lloyd Pierce
" Thomas Williams

Councillor	T. R. Bridgewater (from May, 1949)
"	G. F. Davies
"	G. E. Edwards
"	David Hamer
"	H. R. Humphreys
"	Harry Jones (until March, 1949)
"	Miss Lorna Jones
"	J. B. Willans
"	Miss Ellen Wilson
"	C. F. Meade (from November, 1949)
"	Rev. J. E. John (until November, 1949)
"	Chas. H. Humphreys (until January, 1949)

Co-opted Members.**Body represented.**

Mrs. W. M. Dugdale	}	County Nursing Association
Mrs. Mervyn Hughes		
Miss Jannett Davies		
Mrs. H. E. Jehu,		British Red Cross Society
Rev. D. J. Sinnett Richards		(until June, 1949) St. John Ambulance Brigade
Supt. T. E. Jones (from July, 1949)		St. John Ambulance Brigade
Mrs. V. M. Amos,		Women's Voluntary Services
Mrs. F. F. Corbett-Winder,		Education Special Services Committee
Dr. D. Murray Young	}	British Medical Association
Dr. S. J. Stewart		
Mr. J. D. K. Lloyd (until July, 1949)		Local Executive Council
Mr. T. H. Pugh (from July, 1949)		Local Executive Council
Mr. W. E. Dakin (from January, 1949)		Hospital Management Committees.

MENTAL HEALTH, CARE AND AFTER-CARE SUB-COMMITTEE

Councillor David Hamer	Chairman of Health Committee
Alderman Rev. David James	Vice-Chairman of Health Committee.
Alderman John Griffith	
Alderman W. Lloyd Pierce	

Councillor Harry Jones (until March, 1949)
 „ H. R. Humphreys (from July, 1949)
 „ Miss Ellen Wilson
 Mrs. F. F. Corbett-Winder
 Miss Jannett Davies
 Mrs. H. E. Jehu
 Dr. S. J. Stewart
 Dr. D. Murray Young

MATERNITY AND CHILD WELFARE SUB-COMMITTEE

Councillor David Hamer ... Chairman of Health Committee
 Alderman Rev. David James

Vice-Chairman of Health Committee

Alderman John Griffith
 „ W. Lloyd Pierce
 Councillor Miss Lorna Jones
 „ Miss Ellen Wilson
 Mrs. W. M. Dugdale
 Mrs. Mervyn Hughes
 Miss Jannett Davies
 Mrs. H. E. Jehu
 Mrs. V. M. Amos
 Mrs. F. F. Corbett-Winder

AMBULANCE SUB-COMMITTEE

Councillor David Hamer ... Chairman of Health Committee
 Alderman Rev. David James

Vice-Chairman of Health Committee

„ John Griffith
 „ W. Lloyd Pierce (from July, 1949)
 „ Thomas Williams (from July, 1949)
 Councillor T. R. Bridgewater (from July, 1949)
 „ H. R. Humphreys
 „ G. F. Davies (to July, 1949)
 „ Miss Lorna Jones (from July, 1949)
 Mrs. H. E. Jehu (from July, 1949)
 Rev. D. J. Sinnett Richards (to June, 1949)
 Mr. W. E. Dakin (from January, 1949)
 Superintendents of the five Divisions of the St. John Ambulance Brigade in the County.

COUNTY HEALTH STAFF.

- County Medical Officer of Health and School Medical Officer of...Ivor J. Jones, M.B., B.S., D.P.H., M.R.C.S., L.R.C.P.
- Assistant Medical Officer ...J. Mary Pryce, M.A., M.B., Ch.B.
- Senior Dental Surgeon ...S. Jones Pritchard, L.D.S.
(left 31/8/47).
D. W. Maldwyn Vaughan, L.D.S. (Appointed 1/2/48; (left 13/8/49).
- Assistant Dental Surgeon ...Alexander T. Craig, L.D.S.
(Appointed 1/4/49);
(Senior Dental Surgeon from 1/11/49).
- Superintendent Nursing Officer ...Miss A. D. Breese, S.R.N., S.C.M.
- Health Visitors ...Mrs. C. Roberts, S.R.N., S.C.M. (Appointed July, 1948; left Sept., 1949).
Miss K. M. Mills, S.R.N., S.C.M. (Appointed July, 1948; left December, 1948).
Miss S. D. Wilson, S.R.N., S.C.M. (from 1st September, 1949).
Miss G. E. Evans, S.R.N., S.C.M. (from 2nd May, 1949).
- Food and Drugs Inspector ...Evan Walter Evans.
- Milk Officer ...Miss M. J. Williams, N D.D.
(retired 30th Sept., 1949).

Investigating Officer under ... William S. Lewis
 Blind Persons and Tuberculosis After-care Committees (to 4/7/48).

Duly Authorised Officers ... William S. Lewis }
 D. T. Llewellyn } from
 A. Sidney Evans } 5/7/48

Dental Attendants ... Miss A. E. Jones
 Miss A. F. Holloway (from
 17/5/49).

Office Staff ... Walter Jones, A.P.T.
 Grade IV.
 D. W. Rees, Clerical Grade.
 Maurice Richards }
 (left March, }
 1948) }
 Miss W. M. Hill } General
 Miss H. D. Evans } Division.
 Miss G. M. Evans }
 (from March, }
 1948) }

DISTRICT NURSE-MIDWIVES.

- a = State Certified Midwife
- b = State Registered Nurse
- c = Queen's Nurse
- d = Gas and Air Certificate

District.	Nurse-Midwife.	Qualifications.
BERRIEW	Nurse W. M. Powell (retired 31/12/49)	a.
CARNO	Nurse A. S. Peate	ad.
CEMMAES	Sister S. E. Morgans (resigned Sept., 1949)	abd.
	Sister M. E. Morgan (from Nov., 1949)	abd.

CAERSWS	Nurse E. E. Wainwright	ad.
CHURCHSTOKE	Sister B. A. Evans	abd.
GUILSFIELD	Nurse M. J. Pryce	ad.
KERRY	Sister E. F. Davies	abd.
LEIGHTON	Sister E. Mortimer	abd.
LLANBRYNMAIR	Sister Lavera Evans	ab.
LLANDINAM	Nurse S. Van Evans	ad.
LLANDYSILIO	Sister M. Thomas	abcd.
LLANFYLLIN	Nurse E. E. Fryer	ad.
LLANWDDYN	Nurse S. J. Watkins	ad.
LLANIDLOES	Sister R. E. Jones	abd.
LLANFAIR CAER.	Nurse H. Mills Evans	ad.
LLANSANTFFRAID	Nurse M. L. Jones	ad.
LLANRHAIADR	Sister O. M. Jones (resigned April, 1949)	abd.
MONTGOMERY	Nurse G. Wynne Jones	ad.
MACHYNLETH	Sister N. L. Jones	abd.
MEIFOD	Nurse M. L. Lewis	ad.
NEWTOWN	Sister C. Lloyd Jones	abcd.
TREGYNON	Nurse C. J. Lloyd	ad.
TREFEGLWYS	Sister M. Williams (resigned 31/3/50)	abd.
WELSHPOOL INNER	Sister D. Cotes	abcd.
WELSHPOOL OUTER	Nurse M. J. Ellis	a.

GENERAL STATISTICS.

Area of Administrative County	510,110 acres.
Population: Registrar-General's	
Mid-Year Estimate	1945 — 44,680
	1946 — 45,280
	1947 — 45,270
	1948 — 45,544
	1949 — 45,762
Rateable Value	1st April 1945 — £172,549
	1946 — £173,072
	1947 — £174,019
	1948 — £176,538
	1949 — £175,490
Sum represented by 1d. Rate	1945 — £703
	1946 — £699
	1947 — £702
	1948 — £693
	1949 — £695

VITAL STATISTICS.

	County of Montgomery.										England and Wales.					
	Number.					Rate per 1,000 civilians.					1945			1946		
	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	
Live Births	715	833	831	811	802	16.0	18.4	18.4	17.8	17.5	16.1	19.1	20.5	17.9	16.7	
Illegitimate Births (Live and Still)	94	87	40	61	52											
Percentage of Total Births	12.6	10.1	4.7	7.4	6.5											
Deaths:—																
All Causes	654	609	608	588	590	14.6	13.4	13.4	12.9	12.9	11.4	11.5	12.0	11.6	11.7	
Diphtheria	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.01	0.00	
Influenza	4	19	2	2	8	0.09	0.42	0.04	0.04	0.17	0.08	0.15	0.09	0.02	0.15	
Measles	1	0	1	0	1	0.02	0.00	0.02	0.00	0.02	0.02	0.00	0.01		Not given	
Whooping Cough	0	1	1	2	0	0.00	0.02	0.02	0.04	0.00	0.02	0.02	0.02			
Maternal Causes	4	3	1	2	0	5.4	3.5	1.2	2.5	0.00	1.8	1.4	1.2	1.0	0.98	
						Rate per 1,000 Total Births (Live and Still).										
						Rate per 1,000 Live Births.										
Infants under one year of age	29	31	33	33	37	41	37	39	41	46	46	43	41	34	32	
Diarrhoea (under two years of age)	3	2	6	1	2	4.2	2.4	7.2	1.2	2.4	5.6	4.4	5.8	2.4	3.0	
Stillbirths	30	31	17	16	18	42	37	20	20	22						

The chief causes of death were:—

	1945	1946	1947	1948	1949
Heart Disease ...	27.5%	24.1%	25.8%	26.5%	30.7%
Cerebral haemorrhage	10.9%	15.1%	15.1%	11.2%	14.1%
Cancer ...	15.6%	13.3%	14.3%	18.4%	12.4%

	Deaths (Numbers)				
	1945	1946	1947	1948	1949
Road Traffic Accidents ...	9	—	5	5	4
Suicide ...	6	4	4	5	6
Tuberculosis: Pulmonary	19	19	19	22	23
Non-pulmonary	10	5	7	5	0
Influenza ...	4	19	2	2	8

TABLE SHOWING TREND OF BIRTH RATE AND DEATH RATE IN THE COUNTY DURING THE LAST 25 YEARS.

Year.	Birth Rate.	Average.	Death Rate.	Average.
1925	17.5		13.8	
1926	19.4		12.6	
1927	16.7	17.0	13.5	13.4
1928	15.8		13.7	
1929	15.4		13.4	
1930	15.9		12.9	
1931	15.5		14.0	
1932	16.0	15.4	14.0	14.0
1933	14.7		14.3	
1934	14.8		14.8	
1935	16.1		14.4	
1936	14.3		14.3	
1937	14.9	15.1	14.4	14.2
1938	15.5		13.5	
1939	14.8		14.5	
1940	13.6		15.3	
1941	15.1		13.9	
1942	15.9	15.7	14.2	14.1
1943	16.5		13.5	
1944	17.2		13.6	
1945	16.0		14.6	
1946	18.4		13.4	
1947	18.4	17.6	13.4	13.4
1948	17.8		12.9	
1949	17.5		12.9	

NEO-NATAL DEATHS (Deaths of infants under four weeks of age).

	1945	1946	1947	1948	1949
Died within 24 hours of birth	7	5	4	7	7
Died aged 1—7 days ...	8	6	9	9	11
Died aged 7—28 days ...	2	4	5	6	5
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	17	15	18	22	23
Causes of Death:					
Premature birth ...	9	6	11	17	10
Acute diarrhoea ...	1	—	—	—	—
Congenital malformations ...	7	7	6	5	12
Broncho-pneumonia ...	—	1	—	—	—
Idiopathic convulsions ...	—	1	—	—	—
Whooping cough ...	—	—	1	—	—
Meningitis ...	—	—	—	—	1
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	17	15	18	22	23

INFANTILE MORTALITY.

Deaths of Infants under one year of age:—

	1945	1946	1947	1948	1949
Non-pulmonary tuberculosis .	2	—	—	—	—
Diarrhoea ...	3	2	4	1	2
Other digestive diseases ...	1	—	—	—	—
Premature birth ...	9	11	10	17	13
Congenital malformations, birth injury, infantile disease, etc. ...	10	11	13	7	17
Cerebro-spinal fever ...	—	1	—	—	—
Pneumonia ...	—	3	2	3	3
Whooping cough ...	—	—	1	1	—
Measles ...	—	—	1	—	—
Influenza ...	—	—	—	1	—
Bronchitis ...	—	—	—	1	1
Syphilitic diseases ...	—	—	—	—	1
All other causes ...	3	3	2	2	—
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	28	31	33	33	37

INFANTILE MORTALITY RATES 1925—1949.

Year.	Rate.	Average.	Year.	Rate.	Average.
1925	61		1940	57	
1926	46		1941	49	
1927	58	56	1942	54	46
1928	55		1943	33	
1929	60		1944	35	
1930	67		1945	41	
1931	69		1946	37	
1932	55	64	1947	39	41
1933	57		1948	41	
1934	73		1949	46	
1935	46				
1936	53				
1937	45	50			
1938	34				
1939	73				

Deaths of Infants under one year of age:

	Legitimate infants per 1,000 legitimate births.					Illegitimate infants per 1,000 illegitimate births.				
	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949
Llanfyllin M.B.	—	—	43.5	—	—	—	—	—	—	—
Llanidloes M.B.	71.4	—	33.3	45.5	60.6	333	500	—	—	—
Machynlleth U.D.	—	—	69.0	105.3	—	—	—	—	1000	—
Montgomery M.B.	—	47.6	—	—	55.6	—	—	—	—	—
Newtown U.D.	18.2	49.5	28.8	23.9	47.2	417	167	—	—	250
Welshpool M.B.	13.2	32.0	24.8	17.2	15.2	—	—	—	—	—
Urban Areas	15.0	30.9	31.5	30.9	37.9	177	107	—	45	71
Forden R.D.	59.7	42.1	33.7	66.6	37.0	—	—	400	—	—
Llanfyllin R.D.	40.7	35.5	35.7	30.0	54.6	48	53	—	105	—
Machynlleth R.D.	46.5	46.5	17.9	49.2	16.7	—	—	—	—	—
Newtown and Llan- idloes R.D.	35.2	33.1	55.6	42.6	62.1	56	53	250	100	200
Rural Areas	42.5	37.2	40.0	43.6	53.3	35	39	125	77	29
WHOLE COUNTY	33.7	34.5	36.6	38.7	46.5	88	63	103	66	41

NATIONAL HEALTH SERVICE ACT, 1946: PARTS III
AND V.

Section 22: Care of Mothers and Young Children.

„ 23: Midwifery.

„ 24: Health Visiting

„ 25: Home Nursing.

„ 28: Prevention of Illness, Care and After-Care.

„ 29: Domestic Help.

„ 51: Mental Health.

The Council's responsibilities under the above Sections are so closely related one to another that it is convenient to deal with them together.

STAFF: The Council employs two full-time Medical Officers: The County Medical Officer of Health, who is also the School Medical Officer for approximately 50 per cent. of his time, and the Assistant Medical Officer who is also Assistant School Medical Officer for 90 per cent. of her time. The Superintendent Nursing Officer, who is also Supervisor of Midwives, had 4 Health Visitors and 25 district nurse-midwives under her control during the year. The Welsh Board of Health has granted a special dispensation so that the District Nurse-Midwives may act as Health Visitors; they and the qualified Health Visitors also act as School Nurses.

Prior to the 5th July, 1948, the Council did not employ midwives and had no authority to employ district nurses. Up to this date the County Nursing Association and the affiliated District Nursing Associations employed them. The pioneer work done by these voluntary bodies in employing nurses and finding the wherewithal to pay and equip them, and frequently to train them, has been of inestimable value to the community, and it is to be hoped that their members and successors will continue to help in the setting up and staffing of ante-natal and post-natal clinics and more infant welfare centres.

Since the 5th July, 1948, these district nurse-midwives have been employed directly by the Council. Most of the district nurse-midwives live in lodgings with inadequate ac-

commodation. It is essential that each district nurse-midwife should have as minimum accommodation: a consultation room where she can interview, examine and treat her patients, with sufficient cupboard space that can be kept locked for the safe storage of records, dangerous drugs, instruments etc.; a **private** living room and bedroom. Each district nurse-midwife employed by the Council has a telephone and owns her own car. A number of these cars have been purchased with the aid of loans from the Council.

ANTE-NATAL AND POST-NATAL CLINICS.

In its proposals under Section 22 of the National Health Service Act, 1946, the Council decided to operate Ante-natal and Post-natal Clinics monthly at the following eight centres:

Newtown
 Welshpool
 Llanidloes
 Llanfyllin
 Machynlleth
 Llanwddyn
 Montgomery
 Llanfair Caereinion.

Owing to the shortage of medical staff, it has not been possible to commence any of these Clinics.

The number of reports from general medical practitioners on ante-natal examinations carried out by them under the Council's Scheme, prior to the "Appointed Day" was as follows:—

1941	...	150	1945	...	65
1942	...	133	1946	...	89
1943	...	92	1947	...	84
1944	...	97	1948	...	64

(to 4th July).

Since the "Appointed Day" the Council's midwives have carried out ante-natal examinations on maternity patients coming to them either in their capacity as midwives or mater-

nity nurses. It will be appreciated that a large number of women now book a doctor for maternity services, but the maternity nurse is still responsible for ante-natal and post-natal examinations and the actual confinement unless the doctor decides otherwise, or the midwife requires medical aid.

DOMICILIARY AND INSTITUTIONAL CONFINEMENTS

Year	Total Births (Live and Still)	Domiciliary Confinements:		Hospital Confinements:	
		Number	Percentage of Total Births	Number	Percentage of Total Births
1938	716	472	65.9	244	34.1
1939	709	504	71.1	205	28.9
1940	700	465	66.4	235	33.6
1941	808	500	61.9	308	38.1
1942	780	493	63.2	287	36.6
1943	797	476	59.7	321	40.3
1944	805	419	52.1	386	47.9
1945	705	362	51.3	343	48.7
1946	829	429	51.7	400	48.3
1947	868	426	49.1	442	50.9
1948	800	369	46.1	431	53.9
1949	793	307	38.7	486	61.3
Totals					
1938—					
1949	9310	5222	56.1	4088	43.9
Quarter ended					
31/12/49	201	62	30.9	139	69.1

The above figures relate to children actually born in the County and differ, therefore, from the figures given by the Registrar-General which are corrected for inward and outward transfers.

It will be noted that the percentage of domiciliary births in the County has fallen from 71 per cent. in 1939 to 39 per cent.

in 1949. Apart from the difficulties of home confinements, it is appreciated increasingly that hospital confinements are much cheaper, because while a person is in hospital, services such as food, cooking, laundry, etc., are provided free whereas treatment only is provided free at home, although it may be possible that a home help will be provided subject to a means test. There have been difficulties from time to time in obtaining the admission of a maternity patient to a hospital bed, when such admission was considered advisable because of the unsuitable environmental conditions in the home, or the inaccessibility of the home.

The work of the district nurse-midwives in a County such as Montgomeryshire can be very arduous, particularly as they have been responsible for the nursing of a larger number of chronic sick patients than before the "Appointed Day." There is a real danger that with the diminution of domiciliary midwifery, nurses will become increasingly unwilling to take up appointments as district nurses and many patients, including the chronic sick now nursed in their own homes, will have to be maintained in hospitals or other institutions.

Arrangements have been made in some places for hospitals to notify the Health Departments of Local Health Authorities of the discharge of patients from hospital. Such information would be particularly valuable in the case of maternity patients, and it is hoped that hospitals will find it possible to notify Local Health Authorities when a mother and her infant are being discharged from hospital, and of the arrangements that have been made for feeding the infant. It is noticeable that a very large proportion of mothers who have been confined in hospitals are feeding their infants artificially by the time they leave hospital.

48 midwives notified their intention to practise, of whom 25 were employed by the Council.

Maternity outfits have been supplied to expectant mothers

who have booked a midwife or doctor for a domiciliary confinement.

GAS AND AIR ANALGESIA

All the District Nurses employed by the Council, with the exception of two, have now qualified to administer gas and air analgesia. There were, during the year, 10 apparatus available for the District Nurse-midwives. Gas and air analgesia was administered by the Nurse-midwives to 93 patients.

Arrangements have been made for special equipment, including a special cot, to be available for premature babies born at home, who cannot be admitted to hospital.

CARE OF PREMATURE INFANTS

Space is provided on the notification of births forms for the weight at birth, so that premature infants (5½-lbs. or less) may be followed up by the health visitors. No special form of transport has yet been provided for the conveyance of these infants to hospital.

	1945	1946	1947	1948	1949
Total number of premature infants notified during the year	34	46	32	64	57
(a) born at home	15	22	19	28	22
(b) born in hospital	19	24	13	36	35
Number of those born at home:—					
(a) nursed entirely at home ...	15	22	19	28	19
(b) died during first 24 hours ...	3	3	2	6	1
(c) survived at end of one month	12	16	12	18	14
Number of those born in hospital:—					
(a) died during first 24 hours ...	4	2	2	1	2
(b) survived at end of one month	15	19	8	33	30

MEDICAL AID was sought by midwives in accordance with the Midwives Act, 1918, Section 14, as follows:—

1940 ...	157	1945 ...	92
1941 ...	159	1946 ...	92
1942 ...	157	1947 ...	101
1943 ...	104	1948 ...	35
1944 ...	98	1949 ...	-7

Arrangements were made in a number of cases for unmarried mothers, who could not be looked after at home, to be cared for by voluntary organisations. The six North Wales County Councils have, for many years, been considering the provision of a home for unmarried expectant mothers who, for one reason or another, could not be cared for in their own homes. The number of such cases at any one time is small, but when a case does occur the need becomes desperately urgent, and Miss Breese, the Superintendent Nursing Officer, is to be commended for the strenuous efforts she has made in finding accommodation for such patients. It is earnestly hoped that some provision will be made by the Council for these unfortunate women in the near future.

CARE OF ILLEGITIMATE CHILDREN

The following tables gives details of the number of illegitimate children born in the County during the last decade:—

Year.	Live Births.		Stillbirths.		Total Births.		Illegitimate Births.
	Legitimate.	Illegitimate.	Legitimate.	Illegitimate.	Legitimate.	Illegitimate.	Percentage of Total Births.
1940	582	53	37	3	619	56	8.3
1941	701	46	32	2	733	48	6.1
1942	710	49	31	2	741	51	6.4
1943	712	52	27	1	739	53	6.8
1944	728	54	24	1	752	55	6.8
1945	624	91	27	3	651	94	12.6
1946	753	80	24	7	777	87	10.1
1947	792	39	16	1	808	40	4.7
1948	750	61	16	—	766	61	7.4
1949	753	49	15	3	768	52	6.8
Totals :	7105	574	249	23	7354	597	8.1

The above figures are those given by the Registrar-General, i.e., they have been corrected for inward and outward transfers.

Incidence of Illegitimate Births in the Local Sanitary Districts during the last decade (1940—1949):

Sanitary District.	Total Births (Live and Still)	Illegitimate Births:	
		Births : Number	Percentage of Total Births.
Llanfyllin M.B. ...	253	18	7.1
Llanidloes M.B. ...	318	24	7.5
Machynlleth U.D. ...	274	22	8.0
Montgomery M.B. ...	151	13	8.6
Newtown and Llan- llwchaiarn U.D. ...	932	64	6.9
Welshpool M.B. ...	1100	61	5.5
Urban Areas ...	3028	202	6.7
Forden R.D. ...	875	54	6.2
Llanfyllin R.D. ...	1791	162	9.0
Machynlleth R.D. ...	544	60	11.0
Newtown and Llanidloes R.D. ...	1673	127	7.6
Rural Areas ...	4883	403	8.3
Whole County ...	7911	605	7.6

NURSING HOMES.—There are no Registered Nursing Homes in the County.

NURSES' ACTS 1943 AND 1945. — No agencies have been registered during 1949.

INFANT WELFARE CENTRES.

The Council, in its proposals under Section 22 of the National Health Service Act, 1946, agreed to the setting up of Infant Welfare Centres as follows:—

Newtown and Welshpool weekly;
Llanidloes, Llanfyllin and Machynlleth fortnightly;
Llanbryn-mair, Llanfair Caereinion, Llanwddyn, Caer-
sws, Montgomery and Four Crosses monthly.

No extra Infant Welfare Centres have been arranged since the "Appointed Day" because of the shortage of medical staff.

Infant Welfare Centres were held during 1949 at the following places in the County:

LLANFYLLIN: The Institute, 2-30 p.m. last Thursday in each month.

LLANIDLOES: Glandwr School Class Room: 2-30 p.m. last Wednesday in each month.

MACHYNLLETH: Church Hall, 2-30 p.m. first Tuesday in each month.

NEWTOWN: Methodist Church Schoolroom: 2-30 p.m. first and third Wednesday in each month.

WELSHPOOL: Victoria Memorial Hospital, 2-30 p.m. first and third Friday in each month.

LLANWDDYN: The Oaks, 2-30 p.m. second Friday in each month.

Children who attended the Centres for the first time:—

	1945	1946	1947	1948	1949
(i) Under one year of age ...	166	202	191	195	190
(ii) Aged 1 to 5 years ...	33	41	45	21	12
	199	243	236	216	202

In each case the Infant Welfare Centre is administered by a local voluntary committee.

The purposes of an Infant Welfare Centre are educational and social. They are intended to supplement the teaching of the Health Visitor, to provide facilities for more detailed investigation of difficulties in infant feeding, and an opportunity for an interview with a doctor with special experience in dealing with infants and young children. Talks and demonstrations on health subjects such as feeding, nutrition, clothing, sleep and emotional difficulties should be given, and an opportunity provided for mothers to discuss with one

another their difficulties and their prides, in a wholesome atmosphere.

The premises for an Infant Welfare Centre should provide covered accommodation for prams, a well-lighted consulting room with washing facilities for the doctor, a weighing room where the infants may be stripped and weighed and where records can be kept, and a general room for talks and demonstrations. All the rooms should be adequately heated and ventilated, and there should be closet accommodation for mothers and their infants. Facilities for the provision of light refreshments are desirable.

NEWTOWN.—The Centre is held twice each calendar month in the schoolroom of a Chapel. There is no accommodation for prams under cover, no closet accommodation and no weighing room. The general room becomes hot, stuffy and noisy.

WELSHPOOL.—The Centre is held twice monthly in the out-patient department of the Victoria Memorial Hospital. There is cover for only very few prams and no weighing room. The Centre is approached by a steep hill with chippings which are too large for comfort when pushing prams.

LLANIDLOES.—The Centre is held once monthly in an empty class-room of the Glandwr Council School. Facilities are inadequate.

LLANFYLLIN. — The Centre is held at the Institute once monthly. The Doctor's consulting room is partitioned off from the main room. There is no closet accommodation and no covered space for prams.

MACHYNLLETH.—The Centre is held once monthly at the Church Hall. These premises fulfil the majority of requirements.

LLANWDDYN. — The Centre is held at "The Oaks" once monthly. This is a private house which was converted by the Liverpool Corporation into a well-equipped Clinic, which has a comfortable waiting room for patients and a consulting

room which is used not only for Infant Welfare Centres, but also by local general medical practitioners.

Infant Welfare Centres conducted in unsuitable premises are of doubtful value, although it is obvious that many mothers appreciate their value to such an extent that they will walk miles to attend them. The educational value of Infant Welfare Centres is complementary to that of Health Visitors and together form the basis of all preventive or social hygiene.

DENTAL CARE.—The Committee undertook to provide dental treatment for expectant and nursing mothers and young children not attending school, and it has been agreed by the Education Committee that up to 25% of the time of each of two full-time Dental Surgeons should be devoted to these priority classes. Unfortunately the School Dental Service itself is far from adequate to serve the needs of the school population, and the Committee has not had the services of two full-time Dental Surgeons simultaneously for more than a very short period. It has not been possible, therefore, to make arrangements for any dental treatment under the Council's Scheme for these priority classes.

HEALTH VISITORS.—The two Health Visitors originally appointed in 1948 resigned before the end of 1949, but two further Health visitors were appointed in 1949. These have done excellent work.

HEALTH VISITING

		1945	1946	1947	1948	1949
Ante-natal visits to expectant mothers: ..	First visits:	467	528	526	462	394
	Total visits:	2031	2170	2420	2677	6647
Visits to infants under one year of age ..	First visits:	714	760	975	780	813
	Total visits:	5908	4178	4166	5338	4536
Visits to children aged 1—5 years	Total visits:	6216	5484	5460	6172	5527
	Total number of health visits:	12155	11832	12046	14187	16710

The Welsh Board of Health has granted a dispensation to the District Nurse-midwives employed by the Council to act as Health Visitors, but it is hoped eventually that all health visiting will be carried out by qualified health visitors. A commencement was made during the year in the visiting of tuberculous patients by Health Visitors. These visits are of the utmost importance in the tracing of sources of infection and in the prevention of spread of infection. The Health Visitor reports on each newly notified case of tuberculosis whether pulmonary or non-pulmonary giving details concerning the constitution of the household, the social and environmental conditions and the financial circumstances. Contacts are urged to attend the Chest Clinic for examination by the Chest Physician. Possible sources of infection, whether human or bovine, are followed up. Copies of these reports are sent to the Chest Physician and form the basis of requests to the Mental Health, Care and After-care Committee for after-care in the way of extra nourishment, etc. Advice is given on the prevention of spread of infection. The Health Visitors attend the Chest Clinics so that they may inform the Chest Physician on the home conditions, and so that he may advise them on any further steps that may be necessary on their part. Close liaison is maintained with the Chest Physician on all newly notified cases and any patients in whom the disease has become re-activated.

The Welsh Regional Hospital Board, in conjunction with the Medical Research Council, brought a mobile Mass Radiography Unit to the County for three months, together with its team of Chest Physician, Radiologist, Radiographers, nurses, clerical staff, etc. The Unit was stationed at seven different centres in the County, and the parents of every child attending school were urged to consent to the child being subjected to a tuberculin test and an X-ray of the chest at the same visit. Each X-ray was closely examined and any suspicion of a lung lesion resulted in the child being sent for again for a further X-ray. Particular attention was paid to those children giving a positive reaction to the tuberculin

test. This investigation involved considerable office work and arrangements for the transport of the children from the Schools to the Centre and back to School in time for the mid-day meal or the school 'bus.

The Medical Research Council has not published the detailed results of the investigation, although any child showing an abnormal X-ray was referred immediately to the Chest Physician. The teachers throughout the County were addressed by the County Medical Officer on the purposes of the Scheme and their co-operation in obtaining parental consents led to the great success of the Scheme.

MASS RADIOGRAPHY AND SKIN TESTING SCHEME

	No. on School Regis- ters.	Number of consents.	Per- cent- age.	Number Actually Treated.	Per- cent- age.
Llanidloes Area	859	792	92.2	728	84.7
Llanfair Caer. Area	634	572	90.2	496	78.2
Newtown & Caersws Area	1633	1458	89.3	1278	78.3
Machynlleth Area	691	599	86.7	565	81.8
Llanfyllin Area	812	670	82.5	620	76.4
Welshpool Area	1739	1419	81.6	1286	73.9
Whole County	6368	5510	86.5	4973	78.1

DOMESTIC HELP SCHEME: SECTION 29.

It was not possible to develop this Scheme during the year as there was no member of the staff available to do so. Urgent requests for home helps were dealt with by the Superintendent Nursing Officer, the Health Visitors or the District Nurse-midwives. Any Home Help Service, unless carefully administered and closely watched, is very susceptible to abuse. Each request for a home help necessitates a visit by a competent social worker who can assess the need for help and the capacity to pay, because home helps can be provided only subject to a means test. It is then necessary to find a suitable home help for the particular circumstances of the household concerned, and to arrange for reasonable supervision of the work done. The Health Committee held a

Special Meeting in September, 1949, to which Dr. Berenice Humphreys, Senior Medical Officer for Maternity and Child Welfare for the City of Leicester, who has had considerable experience in the organisation and administration of such Schemes, was invited to attend. Dr. Humphreys stressed the need for an efficient Home Help Supervisor to prepare a Scheme, to recruit and arrange for the training of personnel, etc. She further urged the importance of encouraging home helps to develop pride in their important service. It is to be hoped that a Supervisor will be appointed in the near future as the demand for home helps is increasing rapidly, and this demand cannot be satisfied by the makeshift arrangements which had to be made during 1949.

MENTAL HEALTH SERVICE (SECTION 52).

Particulars of Mental Defectives at 31st December, 1949:—

(1) Number of Ascertained Mental Defectives found to be "Subject to be dealt with":—

(a) In Institutions (including cases on licence therefrom):—

	Males	Females	Total
Under 16 years of age	3	2	5
Aged 16 years and over	13	35	48
(b) Under Guardianship (including cases on licence therefrom)	—	—	—
(c) In "places of safety"	—	—	—
(d) Under statutory supervision (excluding cases on licence):—			
Under 16 years of age	1	—	1
Aged 16 years and over	29	24	53
Total ascertained cases found to be "subject to be dealt with"	46	61	107
Number of cases included in (b) to (d) above awaiting removal to Institution	—	1	1
Admissions to Institutions during the year	1	1	2

All mentally defective persons under supervision were visited regularly by the Health Visitors or local District Nurse-midwives. Any alterations in circumstances were reported to the County Medical Officer. The Health Visitors supplied detailed reports on mentally defective patients "out on licence" from Institutions when these patients came up for review by the County Visitors to Mental Deficiency Institutions.

LUNACY ACTS.

Number of patients admitted to and discharged from Mental Hospitals during 1949:—

Admitted: Certified	16	Discharged: Certified	20*
Voluntary	20	Voluntary	14
	—		—
	36		34

(*Including 9 patients who died during the year).

The Mental Health, Care and After-Care Sub-Committee of the Council's Health Committee consists of eleven members, of whom five are co-opted members of the full Health Committee, representing:—

County Nursing Association

Education (Special Services) Sub-Committee

British Red Cross Society

Local Branch of the British Medical Association (2)

The Council appointed three District Welfare Officers as officers "duly authorised" to take initial proceedings in providing care and treatment for persons suffering from mental illness, i.e., by admission to a Mental Hospital. Close liaison has been maintained with Dr. Gordon Diggle, Medical Superintendent to the Mid-Wales Hospital, Talgarth. During the year arrangements were made for the appointment of a joint Psychiatric Social Worker by the Mid-Wales Mental Hospitals Management Committee, and the County Councils of Brecon, Radnor and Montgomery. The cost of providing

this important officer has been apportioned as to two-thirds to the Mid-Wales Mental Hospitals Management Committee, and one-third to the Councils of the three Counties. This one-third has been apportioned as to:—Breconshire 5/11ths, Radnorshire 2/11ths and Montgomeryshire 4/11ths. The Psychiatric Social Worker has been invaluable in helping patients with mild or early signs of mental disorder, and in visiting and supervising patients discharged or on licence from the Mental Hospital or from Mental Deficiency Colonies.

VACCINATION AND IMMUNISATION (Section 26).

In accordance with the Council's proposals under Section 26, all general medical practitioners practising in the County were invited to participate in the Council's arrangements for vaccination against smallpox and immunisation against diphtheria. Unfortunately there was considerable delay before the negotiations between the Associations of Local Authorities, representatives of the medical profession, and the Ministry of Health could agree as to the fees that were to be paid by local authorities for the records to be supplied by the general medical practitioners.

VACCINATION RECORDS RECEIVED FROM GENERAL MEDICAL PRACTITIONERS DURING THE PERIOD 5th July, 1948, to 30th September, 1950.

Year of Birth	5.7.48 to 31.12.48		1949		1.1.50 to 30.9.50		Totals: 5.7.48 to 30.9.50	
	V	RV	V	RV	V	RV	V	RV
1950	—	—	—	—	46	—	46	—
1949	—	—	141	—	66	—	207	—
1948	115	—	76	—	9	—	200	—
Before 1948	8	21	4	37	12	25	24	83
	<u>123</u>	<u>21</u>	<u>221</u>	<u>37</u>	<u>133</u>	<u>25</u>	<u>477</u>	<u>83</u>

V—Vaccinations.

RV—Re-vaccinations.

SUMMARY OF VACCINATION RECORDS RECEIVED
FROM INDIVIDUAL GENERAL MEDICAL
PRACTITIONERS.

	Vaccin- ations	Re-vaccin- ations	Total
Dr. S. J. Stewart, Montgomery ...	144	14	158
Dr. W. Milton Jones, Llanfair ...	84	14	98
Dr. D. R. B. Mathias, Welshpool ...	38	4	42
Dr. J. J. O'Dwyer, Newtown ...	33	4	37
Dr. J. O. Walters, Welshpool ...	30	4	34
Dr. A. G. Smith, Newtown ...	37	18	55
Dr. H. L. Shimmin, Llanidloes ...	17	4	21
Dr. A. Shearer, Newtown ...	17	5	22
Dr. R. G. Silver, Welshpool ...	13	1	14
Dr. J. F. Clarke, Newtown ...	13	1	14
Dr. C. V. Lewis, Machynlleth ...	10	4	14
Dr. Dan E. Davies, Machynlleth	6	7	13
Dr. W. B. Clegg, Bishop's Castle	7	—	7
Dr. M. J. Clay, Penybontfawr ...	5	1	6
Dr. J. H. Chitty, Llanrhaiadr ...	5	—	5
Dr. J. Adams, Bishop's Castle ...	6	—	6
Dr. H. D. Gemmell, Westbury ...	6	—	6
Dr. L. J. Forman Bull, Llanfyllin	2	1	3
Dr. A. M. Symondson, Kinnerley	2	—	2
Dr. W. E. Smithson, Oswestry ...	2	—	2
Dr. T. Fitt, Oswestry ...	—	1	1
	477	83	560

DIPHTHERIA AND DIPHTHERIA IMMUNISATION

Annual Incidence and Mortality:—

Year	Cases	Deaths	Year	Cases	Deaths
1927	18	1	1939	54	4
1928	28	3	1940	57	8
1929	27	2	1941	25	3
1930	33	3	1942	51	5
1931	10	1	1943	8	1
1932	8	—	1944	1	—
1933	6	1	1945	6	—
1934	10	—	1946	3	—
1935	26	1	1947	1	—
1936	21	1	1948	—	—
1937	4	—	1949	—	—
1938	32	2			

Number of children who completed the full course of immunisation during the year:—

	0—4 years	5—14 years	Total: Under 15 years
1945	532	68	600
1946	604	83	687
1947	667	55	722
1948	692	36	728
1949	645	43	688

State of immunisation in the County as at 31st December,
1945—1949.

Estimated number immunised at:—

Age	31.12.45	31.12.46	31.12.47	31.12.48	31.12.49
0—1	—	—	21	78	70
1—2	409	414	483	495	549
2—3	493	522	504	560	558
3—4	518	538	567	537	583
4—5	484	550	566	598	552
	— 1904	— 2024	— 2141	— 2268	— 2312

5—6	534	505	568	582	612
6—7	629	560	524	580	596
7—8	597	645	564	526	590
8—9	564	601	649	566	529
9—10	636	570	600	649	567
10—11	722	640	573	604	650
11—12	693	723	641	574	604
12—13	741	693	726	642	574
13—14	707	743	695	728	642
14—15	760	708	743	697	728
	— 6583	— 6390	— 6283	— 6148	— 6092
	8487	8414	8424	8416	8404

		0—4 years	5—14 years	Total: Un- der 15 years
Child population (Registrar-General's Year estimate)	1945	3470	6830	10300
	1946	3367	6440	9807
	1947	3476	6287	9763
	1948	3531	6368	9899
	1949	3615	6456	10,071
Child population immunised at—	31.12.45	1904	6583	8487
	31.12.46	2024	6390	8414
	31.12.47	2141	6283	8424
	31.12.48	2268	6148	8416
	31.12.49	2312	6092	8404
Percentage of total child population ...	31.12.45	54.9%	96.4%	82.4%
	31.12.46	60.1%	99.2%	85.8%
	31.12.47	61.6%	99.9%	86.3%
	31.12.48	64.2%	96.5%	85.0%
	31.12.49	63.9%	94.4%	83.4%

Total number of children immunised in the County from the commencement of the Scheme until 31st December, 1949 13688

The bulk of the work of immunisation against diphtheria has been carried out directly by the Council's Health Department staff. The parent of every child, whose birth has been notified to the Health Department, is sent an invitation when the child reaches 8 months of age to complete a form of consent for the child to be immunised against diphtheria. If this is not returned, a further request is sent each month and if the form of consent is not received by the time the child reaches 12 months of age, a personal visit is made by a Health Visitor who either persuades the parents to give their consent or reports on the reasons why consent has not been obtained. Arrangements have been made for children in their first year at school to receive a boosting dose of the prophylactic.

Mass immunisation against diphtheria by the County Council was commenced in 1941 and the marked diminution in the number of cases since 1942 will be noted, and the facts that no case of diphtheria in the County has been notified since 1947 and no deaths from diphtheria since 1943.

INFECTIOUS DISEASES

The following table shows the infectious diseases notified in each Sanitary District during the years 1945, 1946, 1947, 1948 and 1949.

Sanitary District.		Scarlet Fever	Diphtheria	Pneumonia	Puerperal Pyrexia	Erysipelas	Whooping Cough	Cerebro-spinal Fever	Measles	Typhoid Fever	Ophthalmia Neonatorum	Acute anterior Poliomyelitis
Llanfyllin M.B.	1945	1	—	2	—	—	2	—	2	—	—	—
	1946	1	—	3	—	1	10	—	49	—	—	—
	1947	1	—	—	—	1	9	—	64	—	—	—
	1948	—	—	3	—	—	11	—	3	—	—	—
	1949	—	—	1	—	1	—	—	1	—	—	—
Llanidloes M.B.	1945	—	—	—	1	—	—	—	49	—	1	—
	1946	—	—	—	—	—	—	—	—	—	—	—
	1947	—	—	—	—	—	—	—	—	—	—	1
	1948	—	—	—	—	—	—	—	—	—	—	—
	1949	—	—	—	—	—	—	—	—	—	—	—
Machynlleth U.D.	1945	2	—	3	—	—	—	—	1	—	—	—
	1946	—	1	—	1	—	—	—	—	—	—	—
	1947	—	—	—	—	—	—	—	64	—	—	—
	1948	—	—	—	—	—	—	—	1	—	—	—
	1949	—	—	—	—	—	—	—	—	—	—	—
Montgomery M.B.	1945	—	2	—	—	—	—	—	8	—	—	—
	1946	—	1	4	—	—	5	—	1	—	—	—
	1947	—	—	4	—	1	7	—	2	—	—	—
	1948	—	—	—	—	—	7	—	—	—	—	—
	1949	13	—	—	—	1	1	—	5	—	—	—
Newtown and Llanllwchaiarn U.D.	1945	4	—	3	—	—	—	—	28	—	—	—
	1946	1	—	5	—	—	1	—	1	—	—	—
	1947	—	—	10	—	—	4	—	6	—	—	1
	1948	—	—	7	—	1	28	—	157	—	—	—
	1949	—	—	5	—	4	3	—	—	—	—	—
Welshpool M.B.	1945	4	1	12	3	6	5	—	34	—	—	—
	1946	1	—	8	4	3	11	—	15	1	—	—
	1947	—	—	8	—	1	8	—	54	—	—	—
	1948	—	—	10	1	1	31	1	44	3	—	—
	1949	4	—	12	—	—	3	—	25	1	—	—
Forden R.D.	1945	—	—	5	—	2	3	—	84	—	—	—
	1946	—	—	15	1	1	36	1	46	—	—	—
	1947	—	—	5	—	2	11	—	15	—	—	—
	1948	10	—	5	—	1	64	—	19	—	—	—
	1949	11	—	2	—	1	5	—	22	—	—	2
Llanfyllin R.D.	1945	7	—	19	—	4	21	1	19	—	—	—
	1946	12	—	22	—	—	2	—	220	—	2	—
	1947	7	1	17	—	—	5	—	33	—	—	—
	1948	8	—	11	—	1	7	—	22	—	—	—
	1949	4	—	5	—	—	5	—	4	—	2	2
Machynlleth R.D.	1945	5	3	2	—	—	—	—	—	1	—	—
	1946	1	1	2	—	—	—	—	—	—	—	—
	1947	—	—	1	—	—	—	—	38	—	—	1
	1948	1	—	—	—	—	—	—	12	—	—	—
	1949	4	—	—	—	—	—	—	—	—	—	—
Newtown and Llanidloes R.D.	1945	1	—	13	—	—	45	2	141	—	—	—
	1946	2	—	10	—	2	7	—	9	—	—	—
	1947	1	—	7	—	1	3	—	44	—	—	9
	1948	4	—	7	—	2	19	—	132	—	—	—
	1949	—	—	12	—	1	16	—	5	—	—	—
Whole County	1945	24	6	59	4	12	76	3	366	1	1	—
	1946	18	3	69	6	7	72	1	341	1	2	—
	1947	9	1	52	—	6	47	—	320	—	—	12
	1948	23	—	43	1	6	167	1	390	3	—	2
	1949	36	—	37	—	8	33	—	62	1	2	2
Admissions to Isolation Hospital	1945	3	6	—	—	—	—	1	1	1	—	—
	1946	3	3	—	—	—	—	—	—	1	—	—
	1947	5	—	—	—	—	—	—	1	—	—	—
	1948	3	—	—	—	—	—	—	—	—	—	6
	1949	—	—	—	—	—	—	—	—	3	—	2

No cases of dysentery or food poisoning were notified during 1949.

AMBULANCE SERVICE: (Section 27).

Five St. John Ambulance Divisions in the County have provided an ambulance service covering the whole of the County with the exception of the area of the Llanfyllin Borough and Rural District. Each Division owns one ambulance and the areas served were as follows:—

WELSHPOOL:

Welshpool Borough; Montgomery Borough, Parishes of Bausley, Middletown, Trelystan, Forden, Berriew, Castle Caereinion, and Manafon.

NEWTOWN:

Newtown Urban District; Parishes of Kerry, Churchstoke, Llandyssil, Llanmerewig, Bettws; Radnorshire Parishes of Llananno, Llanbister and Llaithddu.

MACHYNLLETH:

Machynlleth Urban District; Parishes of Caereinion Fechan, Cemmaes, Darowen, Isygarreg, Uwchygarreg, Llanbryn-mair, Llanwrin and Penegoes; Merionethshire parishes of Upper and Lower Corris, Pennal and Aberllefenni.

LLANIDLOES:

Llanidloes Borough; Parishes of Llangurig, Llanidloes Without, Llandinam (South of Dolwen River Bridge), Trefeglwys (West of Cross Roads in Trefeglwys village).

CAERSWS:

Parishes of Llanwnnog, Llandinam (North of Dolwen River Bridge), Tregynon, Trefeglwys (to Cross Roads in Trefeglwys Village), Penstrowed, Mochdre, Llanwyddelan, Llanllugan, Carno and Aberhafesp.

The County Council pays £250 per annum to each Division plus 1/- per mile for each mile travelled on operational service. It will be appreciated that if the Council were to employ paid ambulance workers, the cost would be very much larger. Reciprocal arrangements have been made with Councils of adjoining Counties for dealing with patients from border areas.

The Health Department has received every possible help from the officers of the five St. John Ambulance Divisions.

The Council is indebted to the Salop County Council for providing an ambulance service for the area of the Llanfyllin Borough and Rural District, and also for providing an ambulance for the transport of infectious patients from any part of the County. Payments to the Salop County Council for this service have been at the rate of 2/- per mile for ambulance journeys and 6d. per mile for sitting case car journeys.

SITTING CASE CARS.

As from February, 1949, the County Branch of the W.V.S. operated a Sitting Car Service on behalf of the County Council. The W.V.S. obtained a rota of members who were willing to drive their own cars at the request of the Health Department. In cases of emergency, authority has been given for the hire of taxis. A medical certificate or a certificate from a Matron of a Hospital is needed before either an ambulance or a sitting car journey can be authorised. Nevertheless the Service has been abused, particularly the Sitting Car Service. If this abuse is to be checked, it is essential that Hospitals and general medical practitioners should ensure that no request is made for an ambulance or a sitting car unless such transport is necessary because of the patient's physical or mental condition.

AMBULANCE SERVICE : SUMMARY OF JOURNEYS AND COSTS.

AMBULANCE	PERIOD	Number of: Jour- neys	Pat- ients	Mile- age	Mileage Costs		Mersey Tunnel Fees		County Council Grant		Total Cost		Average cost per: Mile		Patient- mile
					£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	
MACHYNLLETH	6 months to 31.12.48	64	68	4233	211	13 0	—	—	125	0 0	336	13 0	1 7	s. d.	1 6
	6 months to 30.6.49	57	62	2848	142	8 0	4 8	—	125	0 0	267	12 8	1 10½	1 8½	1 8½
	6 months to 31.12.49	52	61	3509	175	9 0	—	—	125	0 0	300	9 0	1 8½	1 8½	1 8½
	18 months to 31.12.49	173	191	10590	529	10 0	4 8	—	375	0 0	904	14 8	1 8½	1 8½	1 6½
LLANIDLOES	6 months to 31.12.48	69	73	3312	165	12 0	—	—	125	0 0	290	12 0	1 9	1 7½	1 7½
	6 months to 30.6.49	48	51	2766	138	6 0	6 0	—	125	0 0	263	12 0	1 10½	1 9½	1 9½
	6 months to 31.12.49	62	63	2448	122	8 0	—	—	125	0 0	247	8 0	2 0½	1 11½	1 11½
	18 months to 31.12.49	179	187	8526	426	6 0	6 0	—	375	0 0	801	12 0	1 10½	1 9½	1 9½
CAERSWS	6 months to 31.12.48	19	19	1137	56	17 0	—	—	125	0 0	181	17 0	3 2½	3 2½	3 2½
	6 months to 30.6.49	17	19	752	37	12 0	—	—	125	0 0	162	12 0	4 4	3 10½	3 10½
	6 months to 31.12.49	18	18	943	47	3 0	—	—	125	0 0	172	3 0	3 7½	3 7½	3 7½
	18 months to 31.12.49	54	56	2832	141	12 0	—	—	375	0 0	516	12 0	3 7½	3 6½	3 6½
NEWTOWN	6 months to 31.12.48	40	49	1376	68	16 0	—	—	125	0 0	193	16 0	2 9½	2 9½	2 9½
	6 months to 30.6.49	42	46	1672	83	12 0	4 8	—	125	0 0	208	16 8	2 6	2 3½	2 3½
	6 months to 31.12.49	48	73	1462	73	2 0	—	—	125	0 0	198	2 0	2 8½	1 9½	1 9½
	18 months to 31.12.49	130	168	4510	225	10 0	4 8	—	375	0 0	600	14 8	2 8	2 0½	2 0½
WELSHPOOL	6 months to 31.12.48	59	59	1873	93	13 0	—	—	125	0 0	218	13 0	2 4	2 4	2 4
	6 months to 30.6.49	68	71	1885	94	5 0	—	—	125	0 0	219	5 0	2 4	2 2½	2 2½
	6 months to 31.12.49	86	98	2708	135	8 0	—	—	125	0 0	260	8 0	1 11	1 8½	1 8½
	18 months to 31.12.49	213	228	6466	323	6 0	—	—	375	0 0	698	6 0	2 2	2 0½	2 0½
TOTALS	6 months to 31.12.48	251	268	11931	596	11 0	—	—	625	0 0	1221	11 0	2 0½	1 11	1 11
	6 months to 30.6.49	232	249	9923	496	3 0	15 4	—	625	0 0	1121	18 4	2 3	2 1½	2 1½
	6 months to 31.12.49	266	313	11070	553	10 0	—	—	625	0 0	1178	10 0	2 1½	1 9½	1 9½
	18 months to 31.12.49	749	830	32924	1646	4 0	15 4	—	1875	0 0	3521	19 4	2 1½	1 11½	1 11½

The Llanfyllin Borough and Rural District was served by a Salop County Council Ambulance based at Oswestry. Accounts for the 18 months ended 31st December, 1949, were as follows:—

No. of Journeys.	Total Mileage.	Mileage Costs.	Cost per mile.
82	8333	£833 6 0	2/-

SITTING CAR SERVICE.

Period	Jour- neys	Pat- ients	Mileage	Mileage Costs	Other Charges	Total Costs	Average Mile	Cost per: Patient- mile
			£	s.	d.	£	s.	d.
QUARTER TO 30.9.48	60	64	4688	174	2 6	175	1 10	8.96
QUARTER TO 30.12.48	39	42	2668	66	17 6	69	13 6	5.82
W.V.S. Cars	145	154	5845	219	19 3	222	13 3	8.61
Taxis	184	196	8513	286	16 9	292	6 9	7.73
Total								
QUARTER TO 31.3.49	120	125	7282	183	14 6	195	14 2	6.15
W.V.S. Cars	90	99	5444	205	4 3	210	17 1	8.45
Taxis	210	224	12726	388	18 9	406	11 3	7.19
Total								
QUARTER TO 30.6.49	222	231	11698	294	11 0	312	9 2	6.16
W.V.S. Cars	85	86	4382	168	12 8	176	13 5	9.57
Taxis	307	317	16080	463	3 8	489	2 7	7.07
Total								
QUARTER TO 30.9.49	202	212	11427	288	16 0	309	18 8	6.20
W.V.S. Cars	90	91	4758	185	17 0	190	0 2	9.58
Taxis	292	303	16185	474	13 0	499	18 10	7.14
Total								
QUARTER TO 31.12.49	186	196	13080	327	9 6	345	12 10	6.01
W.V.S. Cars	52	55	1886	73	13 11	75	19 5	9.14
Taxis	238	251	14966	401	3 5	421	12 3	6.41
Total								
EIGHTEEN MONTHS TO 31.12.49	769	806	46155	1161	8 6	1233	8 4	6.12
W.V.S. Cars	522	549	27003	1027	9 7	1051	5 2	8.94
Taxis	1291	1355	73158	2188	18 1	2284	13 6	7.14
Total								

N.B.—The figures given for W.V.S. Cars include the following details of car journeys undertaken by Salop County Council Ambulance Service in the Llanfyllin Borough and Rural District:

Journeys.	61	4153	£103 16 6	Cost per mile.	Cost per patient-mile.
Patients.	67				5.46d.

LABORATORY FACILITIES.

Examinations made by the Emergency Public Health Laboratory, Aberystwyth, of material from Montgomeryshire:—

Year.	Swabs.	Faeces.	C.S.F.	Widals.	Water.	Urine.	Miscellaneous.	Totals.
1940	335	12	6	2	39	4	11	409
1941	435	9	8	7	115	13	53	640
1942	375	5	4	18	98	10	8	518
1943	228	54	3	5	246	14	92	642
1944	159	59	5	9	330	42	216	820
1945	235	87	9	13	225	64	217	850
1946	312	22	6	2	161	38	202	743
1947	75	8	7	6	220	44	183	543
1948	165	12	12	6	368	73	287	923
1949	58	6	8	5	281	37	234	629
Totals	2377	274	68	73	2083	339	1503	6717

Samples of sputum examined for the Chest Physician for Montgomery and Merioneth:—

1945	...	...	...	...	500
1946	...	...	...	...	437
1947	...	...	...	...	642
1948	...	...	...	...	628
1949	...	...	...	...	539

BLIND.

Number of persons registered under the Blind Persons Acts during the Years:—

1941	...	5	1946	...	13
1942	...	23	1947	...	12
1943	...	9	1948	...	15
1944	...	9	1949	...	28
1945	...	9			

Number of blind persons on register at 31st December:—

	1941.	1942.	1943.	1944.	1945.	1946.	1947.	1948.	1949.	
Males	...	46	49	48	47	43	45	38	40	47
Females	...	48	57	62	62	59	62	62	61	72
Totals	...	94	106	110	109	102	107	100	101	119

CANCER.

Cancer Deaths in the Ten Sanitary Districts of the County of Montgomery during the years 1945—1949.

SANITARY DISTRICT	Estimated Mid-year Population.					Cancer Deaths.					Rate per 1,000 population.				
	1945.	1946.	1947.	1948.	1949.	1945.	1946.	1947.	1948.	1949.	1945.	1946.	1947.	1948.	1949.
Llanfyllin M.B.	1379	1385	1370	1430	1470	1	2	2	1	3	0.73	1.44	1.46	0.69	2.04
Llanidloes M.B.	2148	2167	2160	2226	2225	13	9	7	7	3	6.06	4.17	3.24	3.14	1.35
Machynlleth U.D.	1827	1855	1875	1898	1920	8	4	6	8	6	4.38	2.16	3.20	4.22	3.13
Montgomery M.B.	841	862	851	896	912	—	2	2	5	1	0.00	2.32	2.35	5.58	1.10
Newtown and Llan- llwchaiarn U.D.	4901	4917	4918	5421	5542	14	7	6	12	9	2.86	1.42	1.22	2.21	1.62
Welshpool M.B.	5474	5714	5856	5817	5856	8	6	7	13	9	1.46	1.05	1.19	2.23	1.54
Forden R.D.	4788	4905	4851	4894	4967	12	13	12	8	5	2.51	2.65	2.47	1.63	1.01
Llanfyllin R.D.	10420	10490	10360	10320	10380	21	23	24	25	19	2.02	2.20	2.32	2.42	1.83
Machynlleth R.D.	3224	3274	3311	3233	3213	8	2	9	8	7	2.48	0.61	2.72	2.48	2.18
Newtown and Llan- idloes R.D.	9678	9711	9718	9409	9268	17	13	12	21	11	1.76	1.34	1.23	2.23	1.18
COUNTY	44680	45280	45270	45544	45762	102	81	87	108	73	2.28	1.79	1.92	2.37	1.59

MILK (SPECIAL DESIGNATIONS) REGULATIONS.

Prior to the 1st October, 1949, these Regulations had been administered by the Veterinary Committee of the Council. Miss M. J. Williams, N.D.D., who had been in the service of the Council for many years, acted as County Milk Officer under the general direction of the County Medical Officer of Health. Regular visits were paid by the County Milk Officer to farms, dairies, milk depots, etc., and samples of milk were taken for examination by the prescribed tests, viz., Methylene Blue Test, Coliform Test and Phosphatase Test. Any samples at a Milk Depot which were unsatisfactory, resulted in visits to the producer's premises during milking. Advice was given where necessary and where no improvement resulted, the producer was referred to the Milk Samples Sub-Committee.

The following table gives a summary of the samples taken. It should be noted that the percentage of samples failing to satisfy the tests is not an indication of the general standard of milk production, inasmuch as any milk producer found to give two or more unsatisfactory samples had frequent samples taken until either the results remained consistently satisfactory or his licence was revoked or suspended. On the 1st October, 1949, the administration of these Regulations and of the supervision of milk production as a whole came under the Agricultural Executive Committee.

SAMPLES OF "T.T." AND "ACCREDITED" MILK.

(Taken at farms, milk depots, stands, lorries and delivery vans).

Year.	No. of samples taken.	No. of samples failed.
1945	2602	231 (8.8%)
1946	2537	174 (6.8%)
1947	2134	241 (11.2%)
1948	2252	199 (8.8%)
1949 (to 1st Oct.)	1668	196 (11.7%)

FOOD AND DRUGS ACT, 1938.**Report of Food and Drugs Inspector for the Year ended
31st December, 1949.**

Two hundred and two samples were purchased during the Year. 149 were samples of milk and 53 were samples of miscellaneous articles of food.

The action taken with regard to the milk samples found to be "not genuine" is given under:

SAMPLE No. 475.

A warning letter was sent by the Clerk of the County Council to B. R. Corfield, Gungrog Dairy, Welshpool, for selling milk containing added water.

SAMPLE No. 3.

John Victor Thomas, Spring Bank, Arddleen, was prosecuted for selling milk containing added water and was convicted and fined £1, and ordered to pay £2 12s. costs.

SAMPLES Nos. 44 and 51.

Richard Thomas Davies, Maerdu Farm, Llanymynech, was prosecuted in respect of both samples, for selling milk containing added water, and the cases were dismissed. A successful Appeal was made by way of "Case Stated" to the Divisional Court of the High Court of the King's Bench Division, and the decision of the Magistrates were reversed, with costs against the defendant, the cases being returned to them with instructions to convict at the resumed hearing. Mr. Davies was fined £40 and ordered to pay £5 16s. 0d. costs.

With regard to the remaining samples of milk found to be "not genuine" by reason of deficiency in fat, no further

action was advisable. Where the Solids not Fat were below standard no further action was possible as there was no evidence of added water being present.

The miscellaneous samples of food were as under:—

SAMPLE.	Genuine.	Not Genuine.	Total.
Sauce	4	—	4
Pepper	4	—	4
Fish Paste	6	—	6
Meat Paste	1	—	1
Tomato Sauce	2	—	2
Mustard	1	—	1
Potted Meat	3	—	3
Beverage	1	—	1
Ginger Wine Essence ...	1	—	1
Ice Cream	18	—	18
Saltpetre	1	—	1
Salad Cream	2	—	2
Custard Powder	3	—	3
Gelatine	3	1	4
Saccharin	1	—	1
Cocktail Tonic	—	1	1
	51	2	53

In the case of the Cocktail Tonic and Gelatine no further action was advisable.

E. WALTER EVANS,

Inspector of Food and Drugs.

Weights and Measures Office,

Welshpool.

December 15th, 1950,

POPULATION OF MONTGOMERYSHIRE as enumerated at each Census 1801 to 1931 and as estimated by the Registrar-General for each year 1932—1949.

Year.	Population.	Density (Persons per acre).
1801	48,184	0.094
1811	52,184	0.105
1821	60,245	0.110
1831	66,844	0.131
1841	69,607	0.136
1851	67,335	0.132
1861	66,910	0.131
1871	67,623	0.133
1881	65,718	0.129
1891	58,003	0.114
1901	54,801	0.107
1911	53,146	0.104
1921	51,263	0.100
1931	48,462	0.095
1932	47,950	0.094
1933	47,380	0.093
1934	46,700	0.092
1935	46,200	0.091
1936	45,950	0.090
1937	45,270	0.089
1938	44,890	0.088
1939	44,830	0.088
1940	46,600	0.091
1941	49,610	0.097
1942	47,850	0.094
1943	46,280	0.091
1944	45,480	0.089
1945	44,680	0.087
1946	45,280	0.089
1947	45,270	0.089
1948	45,544	0.089
1949	45,762*	0.089

AVERAGE ANNUAL BIRTH AND DEATH RATES 1931—1949.

SANITARY DISTRICT	BIRTHS			DEATHS		
	Average population.	Live Births.	Average Annual number of Births.	Total Deaths.	Average Annual number of Deaths.	Average Annual Death Rate.
Llanfyllin M.B.	1,425	476	25.1	368	19.4	13.6
Llanidloes M.B.	2,300	544	28.6	697	36.7	15.9
Machynlleth U.D.	1,882	490	25.8	594	31.3	16.6
Montgomery M.B.	873	276	14.5	257	13.5	15.5
Newtown and Llan- llwchaearn U.D.	5,030	1494	78.6	1402	73.8	14.7
Welshpool M.B.	5,548	1798	94.6	1499	78.9	14.2
Urban Districts	17,058	5078	267.2	4817	253.6	14.9
Fordeu R.D.	5,027	1583	83.3	1265	66.6	13.2
Llanfyllin R.D.	10,950	3362	177.0	2923	153.8	14.0
Machynlleth R.D.	3,385	918	48.3	982	51.7	15.3
Newtown and Llan- idloes R.D.	9,892	3082	162.2	2368	124.6	12.6
Rural Districts	29,254	8945	470.8	7538	396.7	13.5
Whole County	46,312	14023	738.0	12355	650.3	14.0

TUBERCULOSIS DEATH RATE - 1900

Year	Population
1900	289
1901	290
1902	272
1903	261
1904	252
1905	244
1906	236
1907	228
1908	220
1909	212
1910	204
1911	196
1912	188
1913	180
1914	172
1915	164
1916	156
1917	148
1918	140
1919	132
1920	124

County Times
 Printer
 Webster

TUBERCULOSIS MORTALITY RATE
 (Average no. based on population 100,000)

Year	Population	Mortality Rate
1900	289	1.4
1901	290	1.4
1902	272	1.3
1903	261	1.3
1904	252	1.2
1905	244	1.2
1906	236	1.1
1907	228	1.1
1908	220	1.0
1909	212	1.0
1910	204	0.9
1911	196	0.9
1912	188	0.8
1913	180	0.8
1914	172	0.7
1915	164	0.7
1916	156	0.6
1917	148	0.6
1918	140	0.5
1919	132	0.5
1920	124	0.4

AVERAGE ANNUAL BIRTH AND DEATHS RATES 1951-1959

Country or District	Average Annual Birth Rate	Average Annual Death Rate	Total Annual Deaths	DEATHS	
				Average Annual Deaths	Deaths per 1,000
Canada	17.0	10.4	666	10.4	10.4
United States	17.0	10.4	666	10.4	10.4
Western Europe	17.0	10.4	666	10.4	10.4
Eastern Europe	17.0	10.4	666	10.4	10.4
Asia	17.0	10.4	666	10.4	10.4
Africa	17.0	10.4	666	10.4	10.4
Oceania	17.0	10.4	666	10.4	10.4
World	17.0	10.4	666	10.4	10.4

County Times,
Printers,
Welshpool.

TUBERCULOSIS.

Cases on register at:	Pulmonary		Non-Pulmonary		Totals		Both sexes
	M.	F.	M.	F.	M.	F.	
31st December, 1942	102	82	45	48	147	130	277
" " 1943	114	85	43	50	157	135	292
" " 1944	117	90	50	52	167	142	309
" " 1945	130	96	52	60	182	156	338
" " 1946	147	101	53	61	200	162	362
" " 1947	162	115	52	59	214	174	388
" " 1948	164	127	50	62	214	189	403
" " 1949	156	95	39	45	196	140	336

New cases of and mortality from Tuberculosis, taken from notifications received and death returns:—

AGE PERIODS	NEW CASES																DEATHS															
	Pulmonary.								Non-Pulmonary.								Pulmonary.								Non-Pulmonary.							
	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949							
0 — 1 year	—	—	—	—	—	1	—	1	—	—	1	—	—	—	—	—	—	—	—	—	2	—	—	—	—							
1 — 5 years	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—							
5 — 15 "	2	—	—	3	—	2	1	—	1	—	2	3	2	2	3	2	2	—	—	—	—	—	—	—	—							
15 — 45 "	23	17	24	18	28	23	16	15	20	17	4	8	1	6	2	—	—	—	—	—	4	2	1	5	7							
45 — 65 "	7	5	6	2	4	9	2	6	7	5	1	—	—	—	—	—	—	—	—	—	3	4	6	3	4							
65 years and over	—	—	4	1	—	1	4	1	1	1	—	—	—	1	—	—	—	—	—	—	1	—	2	5	—							
TOTALS	32	22	34	21	35	33	25	24	28	24	10	11	4	9	6	2	2	9	4	4	8	11	9	10	8							

TUBERCULOSIS DEATH RATE per 1,000,000 population: COUNTY OF MONTGOMERY.

Year.	Pulmonary.	Non-Pulmonary.	Total.
1936	696	174	870
1937	530	116	646
1938	579	156	735
1939	394	43	437
1940	408	107	515
1941	443	141	584
1942	606	167	773
1943	465	162	627
1944	374	154	528
1945	425	224	649
1946	420	110	530
1947	420	154	574
1948	483	110	593
1949	503	—	503

TUBERCULOSIS MORTALITY RATE 1931—1939. Average Annual Death Rates per 1,000,000 population (based on average population in the ten Sanitary Districts.)

SANITARY DISTRICT	Population Average 1931—49.	DEATHS FROM TUBERCULOSIS.					
		Pulmonary	Average Annual Rate.	Non-pulmonary	Average Annual Rate	All forms	Average Annual Rate
LLANFYLLIN M.B.	1,425	10	369	5	185	15	554
LLANIDLOES M.B.	2,300	32	732	5	114	37	846
MACHYNLLETH U.D.	1,882	38	1063	6	168	44	1231
MONTGOMERY M.B.	873	6	362	2	121	8	483
NEWTOWN & LLAN-LLWCHAIARN U.D.	5,030	57	596	11	110	68	706
WELSHPOOL M.B.	5,548	36	342	8	76	44	418
URBAN DISTRICTS	17,058	179	552	37	114	216	666
FORDEN R.D.	5,027	37	388	7	73	44	461
LLANFYLLIN R.D.	10,950	74	356	23	111	97	467
MACHYNLLETH R.D.	3,385	60	933	14	218	74	1151
NEWTOWN & LLANIDLOES R.D.	9,892	110	591	27	136	137	727
RURAL DISTRICTS	29,254	281	506	71	128	352	634
WHOLE COUNTY	46,312	460	523	108	123	568	646



TABLE SHOWING CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE.

CAUSES OF DEATH.	Sex	(1945)						(1946)						(1947)						(1948)						(1949)										
		All Ages	0 to 1	1 to 5	5 to 15	15 to 45	45 to 65	65 and Ovr	All Ages	0 to 1	1 to 5	5 to 15	15 to 45	45 to 65	65 and Ovr	All Ages	0 to 1	1 to 5	5 to 15	15 to 45	45 to 65	65 and Ovr	All Ages	0 to 1	1 to 5	5 to 15	15 to 45	45 to 65	65 and Ovr	All Ages	0 to 1	1 to 5	5 to 15	15 to 45	45 to 65	65 and Ovr
1. Typhoid and Paratyphoid Fever	M																																			
2. Cerebro-spinal Fever	F																																			
3. Scarlet Fever	M																																			
4. Whooping Cough	F																																			
5. Diphtheria	M																																			
6. Tuberculosis of Respiratory System	F																																			
7. Other forms of Tuberculosis	M																																			
8. Syphilitic Diseases	F																																			
9. Influenza	M																																			
10. Measles	F																																			
11. Acute Poliomyelitis and Polioencephalitis	M																																			
12. Acute Infectious Encephalitis	F																																			
13. Cancer of Buccal Cavity and Oesophagus	M																																			
14. Cancer of Uterus	F																																			
15. Cancer of Stomach and Duodenum	M																																			
16. Cancer of Breast	F																																			
17. Cancer of all other sites	M																																			
18. Diabetes	F																																			
19. Intra-cranial Vascular Lesions	M																																			
20. Heart Disease	F																																			
21. Other Diseases of the Circulatory System	M																																			
22. Bronchitis	F																																			
23. Pneumonia	M																																			
24. Other Respiratory Diseases	F																																			
25. Ulceration of the Stomach and Duodenum	M																																			
26. Diarrhoea (under two years)	F																																			
27. Appendicitis	M																																			
28. Other Digestive Diseases	F																																			
29. Nephritis	M																																			
30. Puerperal and Post-Abortive Sepsis	F																																			
31. Other Maternal Causes	M																																			
32. Premature Birth	F																																			
33. Congenital Malformations, Birth Injury, Infantile Disease, etc.	M																																			
34. Suicide	F																																			
35. Road Traffic Accidents	M																																			
36. Other Violent causes	F																																			
37. All other causes	M																																			
TOTALS: ALL CAUSES	M	365	15	3	4	32	76	235	284	19	2	2	15	63	183	285	17	3	4	21	51	189	303	20	1	4	24	62	192	304	20	3	2	20	50	209
	F	289	14	3	5	29	70	168	325	12	6	5	24	60	218	323	16	5	3	20	59	220	285	13	6	1	19	51	195	286	17	2	18	55	194	

BIRTH RATES : CIVILIAN DEATH RATES : ANALYSIS OF MORTALITY : MATERNAL MORTALITY AND CASE-RATES FOR CERTAIN INFECTIOUS DISEASES IN THE YEARS 1945, 1946, 1947, 1948 and 1949.

	ENGLAND AND WALES.					126 County Boroughs and Great Towns (including London).					148 Smaller Towns (Resident Population 25,000 to 50,000).					London Administrative County.					County of Montgomery.				
	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949	1945	1946	1947	1948	1949
BIRTHS:—																									
Live	16.1	19.1	20.5	17.9	16.7	19.1	22.2	23.3	20.0	18.7	19.2	21.3	22.2	19.2	18.0	15.7	21.5	22.7	20.1	18.5	16.0	18.4	18.4	17.8	17.5
Still	0.46	0.53	0.50	0.42	0.39	0.58	0.67	0.62	0.52	0.47	0.53	0.59	0.54	0.43	0.40	0.40	0.54	0.49	0.39	0.37	0.67	0.68	0.38	0.35	0.39
DEATHS:—																									
All causes	11.4	11.5	12.0	10.8	11.7	13.5	12.7	13.0	11.6	12.5	12.3	11.7	11.9	10.7	11.6	13.8	12.7	12.8	11.6	12.2	14.6	13.4	13.4	12.9	12.9
Typhoid and Paratyphoid	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Scarlet Fever	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Whooping Cough	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.03	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.00	0.02	0.02	0.04	0.01
Diphtheria	0.02	0.01	0.01	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Tuberculosis				0.51	0.45				0.59	0.52				0.46	0.42				0.63	0.52	0.65	0.53	0.57	0.59	0.50
Influenza	0.08	0.15	0.09	0.03	0.15	0.07	0.13	0.09	0.03	0.15	0.07	0.14	0.08	0.04	0.14	0.07	0.12	0.08	0.02	0.11	0.09	0.42	0.04	0.04	0.17
Smallpox	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Measles	0.02	0.00	0.01			0.02	0.01	0.02			0.02	0.00	0.02			0.01	0.01	0.01			0.02	0.00	0.02	0.00	0.02
Acute Poliomyelitis & Polioencephalitis				0.01	0.01				0.01	0.02				0.01	0.02				0.00	0.01	0.00	0.00	0.00	0.02	0.00
Pneumonia				0.41	0.51				0.38	0.56				0.36	0.49				0.54	0.59	0.22	0.33	0.35	0.37	0.24
NOTIFICATIONS:—																									
Typhoid Fever	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.02	0.02	0.00	0.06	0.02
Paratyphoid Fever	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Cerebro-spinal Fever	0.05	0.05	0.05	0.03	0.02	0.05	0.05	0.06	0.03	0.03	0.05	0.04	0.05	0.02	0.02	0.06	0.06	0.05	0.03	0.02	0.07	0.02	0.00	0.02	0.00
Scarlet Fever	1.89	1.38	1.37	1.73	1.63	2.02	1.51	1.54	1.90	1.72	2.03	1.33	1.37	1.82	1.83	1.57	1.42	1.31	1.37	1.46	0.54	0.39	0.19	0.51	0.78
Whooping Cough	1.64	2.28	2.22	3.42	2.39	1.65	2.48	2.41	3.51	2.44	1.47	2.05	2.02	3.31	2.39	1.25	2.22	2.80	3.13	1.70	1.70	1.59	0.91	3.67	0.72
Diphtheria	0.46	0.22	0.13	0.08	0.04	0.52	0.32	0.15	0.10	0.05	0.56	0.31	0.14	0.09	0.04	0.31	0.24	0.14	0.10	0.07	0.13	0.07	0.02	0.00	0.00
Erysipelas	0.25	0.28	0.19	0.21	0.19	0.28	0.25	0.21	0.23	0.20	0.24	0.22	0.18	0.21	0.19	0.31	0.27	0.22	0.22	0.17	0.27	0.15	0.12	0.12	0.17
Smallpox	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Measles	11.67	3.92	9.41	9.34	8.95	10.89	4.73	9.13	9.75	8.91	11.19	3.70	9.58	8.84	9.18	9.03	7.35	5.29	9.17	8.54	9.19	7.53	7.07	8.56	1.36
Pneumonia	0.87	0.89	0.79	0.73	0.80	1.03	1.02	0.89	0.84	0.91	0.72	0.74	0.68	0.60	0.65	0.78	0.75	0.64	0.57	0.55	1.32	1.50	1.19	0.94	0.80
Acute Poliomyelitis				0.04	0.13				0.05	0.13				0.04	0.12				0.04	0.18	0.00	0.00	0.26	0.04	0.04
DEATHS: Infants under 1 year of age																									
Diarrhoea (under 2 years)	4.6	4.3	4.1	3.4	3.2	5.4	4.6	4.7	3.9	3.7	4.3	3.7	3.6	3.2	3.0	5.3	4.1	3.7	3.1	2.9	4.1	3.7	3.9	4.1	4.6
	5.6	4.4	5.8	3.3	3.0	7.8	6.1	8.0	4.5	3.8	4.5	2.8	3.7	2.1	2.4	7.6	4.2	4.8	2.4	1.7	4.2	2.4	7.2	1.2	2.4
Maternal Mortality	1.79	1.43	1.17	1.02	0.98																5.36	3.47	1.20	2.42	0.00
Notifications: Puerperal Fever	9.93	8.50	7.16	6.89	6.31	12.65	10.35	8.99	8.90	8.14	8.81	7.63	6.27	4.71	5.30	3.60	1.62	1.21	7.34	6.82	5.37	6.94	0.00	1.21	0.00
																15.87	9.68	6.94							

BIRTH RATES - CURRENT DEATH RATES & AVERAGE
CASE RATES FOR CERTAIN INFECTIOUS DISEASES

Year	Birth Rate (per 1,000 live births)	Current Death Rate (per 1,000 live births)	Average Case Rates (per 1,000 live births)	
			Diphtheria	Scarlet Fever
1910	24.5	10.5	0.1	0.1
1911	24.5	10.5	0.1	0.1
1912	24.5	10.5	0.1	0.1
1913	24.5	10.5	0.1	0.1
1914	24.5	10.5	0.1	0.1
1915	24.5	10.5	0.1	0.1
1916	24.5	10.5	0.1	0.1
1917	24.5	10.5	0.1	0.1
1918	24.5	10.5	0.1	0.1
1919	24.5	10.5	0.1	0.1
1920	24.5	10.5	0.1	0.1
1921	24.5	10.5	0.1	0.1
1922	24.5	10.5	0.1	0.1
1923	24.5	10.5	0.1	0.1
1924	24.5	10.5	0.1	0.1
1925	24.5	10.5	0.1	0.1
1926	24.5	10.5	0.1	0.1
1927	24.5	10.5	0.1	0.1
1928	24.5	10.5	0.1	0.1
1929	24.5	10.5	0.1	0.1
1930	24.5	10.5	0.1	0.1
1931	24.5	10.5	0.1	0.1
1932	24.5	10.5	0.1	0.1
1933	24.5	10.5	0.1	0.1
1934	24.5	10.5	0.1	0.1
1935	24.5	10.5	0.1	0.1
1936	24.5	10.5	0.1	0.1
1937	24.5	10.5	0.1	0.1
1938	24.5	10.5	0.1	0.1
1939	24.5	10.5	0.1	0.1
1940	24.5	10.5	0.1	0.1

ANALYSIS OF VITAL STATISTICS FOR THE TEN LOCAL SANITARY DISTRICTS.

SANITARY DISTRICT	Year	Popu- lation.	Live Births.	Rate per 1,000 popu- lation.	Still- births.	Per- centage of Live Births	Illeg- itimate births (live & still).	Per- centage of total births.	Deaths of infants under 1 year.	Rate per 1,000 live births.	Deaths (All (Causes)	Rate per 1,000 popu- lation.	Deaths from tuber- culosis.	Rate per 1,000,000 popu- lation.
LLANFYLLIN M.B.	1945	1,379	23	16.7	1	4.3	3	—	—	—	—	—	—	—
	1946	1,385	38	27.4	1	2.6	4	12.5	—	—	13	9.4	—	—
	1947	1,370	25	18.2	1	4.0	2	10.3	—	—	17	12.3	—	—
	1948	1,430	25	17.5	—	0.0	2	7.7	1	40	17	12.4	2	1444
	1949	1,470	10	6.8	—	0.0	2	8.0	—	—	12	8.4	—	—
LLANIDLOES M.B.	1945	2,148	17	7.9	—	0.0	3	20.0	—	—	17	11.6	1	680
	1946	2,167	28	12.9	2	7.1	2	17.6	2	118	50	23.3	3	1397
	1947	2,160	30	13.9	1	3.3	—	6.7	1	36	36	16.6	1	461
	1948	2,226	22	9.9	2	9.1	—	0.0	1	33	34	15.8	2	926
	1949	2,225	33	14.8	—	0.0	—	0.0	1	45	34	15.3	—	—
MACHYNLETH U.D.	1945	1,827	21	11.5	—	0.0	3	0.0	2	61	36	16.2	2	899
	1946	1,855	38	20.5	—	0.0	4	14.3	—	—	39	21.3	2	1095
	1947	1,875	29	15.5	1	3.4	—	10.5	—	—	27	14.6	2	1078
	1948	1,898	39	20.5	1	2.6	1	0.0	2	69	41	21.9	1	534
	1949	1,920	18	9.37	—	0.0	1	2.5	5	128	29	15.3	3	1581
MONTGOMERY M.B.	1945	841	18	21.4	1	5.5	1	5.6	—	—	29	15.1	5	2604
	1946	862	21	24.4	—	0.0	2	0.0	1	48	13	15.5	—	—
	1947	851	12	14.1	—	6.3	—	16.7	—	—	15	17.4	1	1160
	1948	896	16	17.9	1	5.5	2	0.0	—	—	11	12.9	2	2350
	1949	912	18	19.7	1	1.5	13	10.5	1	55	13	14.3	—	—
NEWTOWN AND LLAN- LLWCHAIARN U.D.	1945	4,901	67	13.6	1	5.0	13	19.1	6	89	75	15.3	1	204
	1946	4,917	101	20.5	5	1.9	2	12.3	7	69	85	17.3	4	813
	1947	4,918	106	21.6	2	2.4	8	1.9	3	28	73	14.8	—	—
	1948	5,421	84	15.5	2	1.9	4	9.3	2	24	65	11.9	5	922
	1949	5,542	106	19.1	2	2.3	12	3.8	5	47	72	12.9	2	361
WELSHPCOL M.B.	1945	5,474	88	16.1	2	2.4	7	13.3	1	11	80	14.6	7	1279
	1946	5,714	125	21.9	3	1.6	2	5.5	4	32	73	12.8	4	700
	1947	5,856	122	20.8	2	2.4	11	1.6	3	25	72	12.3	3	512
	1948	5,817	127	21.8	3	1.5	5	8.5	2	16	68	11.7	2	344
	1949	5,865	132	22.5	2	—	—	3.7	4	30	66	11.3	2	341
URBAN AREAS	1945	16,570	234	14.1	5	2.1	35	14.6	9	38	270	16.3	13	785
	1946	16,900	351	20.8	11	3.1	30	8.3	13	37	253	15.0	12	710
	1947	17,030	324	19.0	7	2.2	8	2.4	10	31	248	14.6	10	588
	1948	17,688	313	17.7	9	2.9	22	6.8	10	32	220	12.4	10	565
	1949	17,934	317	17.7	5	1.6	14	4.3	12	38	233	12.9	12	669
FORDEN R.D.	1945	4,788	77	16.1	4	5.2	10	12.3	4	52	81	16.9	3	626
	1946	4,905	102	20.8	6	5.9	9	8.5	4	39	57	11.6	3	612
	1947	4,851	94	19.4	1	1.1	5	5.3	5	53	61	12.6	2	412
	1948	4,894	97	19.8	2	2.1	7	7.1	6	62	56	11.4	5	1022
	1949	4,967	81	16.3	3	3.7	6	7.1	3	37	53	11.7	1	201
LLANFYLLIN R.D.	1945	10,420	193	18.5	7	3.6	22	11.0	8	41	141	13.5	4	384
	1946	10,490	160	15.3	4	2.5	21	12.8	6	37	147	14.0	4	324
	1947	10,360	184	17.8	6	3.3	16	8.4	6	33	141	13.6	6	579
	1948	10,320	186	18.0	1	0.5	19	10.2	7	38	143	13.9	4	388
	1949	10,380	183	17.6	1	0.5	18	9.8	10	55	135	13.0	3	289
MACHYNLETH R.D.	1945	3,224	51	15.8	3	5.9	9	16.7	2	39	42	13.0	1	310
	1946	3,274	50	15.3	2	4.0	7	13.5	2	40	49	14.9	4	1222
	1947	3,311	59	17.8	2	3.4	3	4.9	1	17	47	14.2	5	1510
	1948	3,233	64	19.8	3	4.7	3	4.5	3	47	57	17.6	3	928
	1949	3,213	60	18.7	2	3.3	8	12.9	1	17	48	14.9	4	1245
NEWTOWN AND LLAN- IDLOES R.D.	1945	9,678	160	16.5	11	6.9	18	10.5	6	38	120	12.4	8	827
	1946	9,711	170	17.5	8	4.7	20	11.2	6	35	103	10.6	1	103
	1947	9,718	170	17.5	1	0.6	8	4.7	11	65	111	11.4	3	309
	1948	9,409	151	16.0	1	0.7	10	6.6	7	46	112	11.9	5	531
	1949	9,268	161	17.4	7	4.3	6	3.6	11	68	116	12.5	3	324
RURAL AREAS	1945	28,110	481	16.9	25	5.2	59	11.7	20	42	384	13.7	16	569
	1946	28,380	482	16.9	20	4.1	57	11.4	18	37	356	12.5	12	423
	1947	28,240	507	17.9	10	1.9	32	6.2	23	45	360	12.7	16	567
	1948	27,856	498	17.9	7	1.4	39	7.7	23	46	368	13.2	17	610
	1949	27,828	485	17.4	13	2.7	38	7.6	25	52	357	12.9	11	395
WHOLE COUNTY	1945	44,680	715	16.0	30	4.2	94	12.6	29	41	654	14.6	29	649
	1946	45,280	833	18.4	31	3.7	87	10.1	31	37	609	13.4	24	530
	1947	45,270	831	18.4	17	2.0	40	4.7	33	39	608	13.4	26	574
	1948	45,544	811	17.8	16	2.0	61	7.4	33	41	588	12.9	27	593
	1949	45,762	802	17.5	18	0.4	52	6.5	37	46	590	12.9	23	503

