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STAFFORDSHIRE COUNTY COUNCIL

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

W. D. CARRUTHERS, M.B., D.P.H.,

For the Year 1940

STAFFORD
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INDEX

	Page		Page
Ante-Natal Clinics	26	Inflamed and Discharging Eyes	19
Ante-Natal Scheme in Rural Districts	26	Isolation Hospital Accom-	
Area and Population	8	modation	49
Artificial Light Treatment	29	Local Government Act,	12
Bacteriological Laboratory	33	Maternal Mortality	21
Births	9	Maternity and Nursing Homes	
Births, Notification of	31	Maternity Outfits	27
Cancer	55		21
Chemical Laboratory	38	Mental Defectives: Insti- tutional Provision for the Care of	12
Clinics and Treatment Centres	25	Midwives Δct, 1936	13
Consulting Obstetricians	26	Midwives, Provision and	
Contributions to District	48	Inspection of	
Deaths	10	Medical Attendance	18
Dental Laboratory	33	Milk in Schools Scheme	45
D 11m 1	29	Milk Supply	39, 42
	20	Milk, Special Designations	44, 46
Extra-Nourishment Scheme	31	Mothercraft, Lectures on	32
Health Services, General Provision of	12	Nursing Homes Registra- tion	20
Health Visiting Scheme	25	Nursing in the Home—	
Health Visitors	32	General Nursing and Infectious Diseases	13
Hospitals 12,	24, 49	Ophthalmia Neonatorum	27
Housing Acts	49	Ophthalmic Treatment	27
Infant Life Protection	32	Orthopædic Hospital and Clinics	24, 28
Infantile Mortality	22	Poor Law Medical Out-	
Infant Welfare Centres	25	Relief	12
Infectious Diseases—Preva- lence of and Control over		Puerperal Pyrexia Regulations	20, 27

INDEX-continued.

Rivers Pollution Preven-	Tuberculosis	Page 53
tion 48	Vaccination	53
Sewerage and Sewage Disposal 48	Venereal Diseases	38, 56
Statistics, Vital 7, 60	Vital Statistics	7, 60
Stillbirths 9, 19	Water Supplies	47

STAFFORDSHIRE COUNTY COUNCIL

Annual Report of the Medical Officer of Health

PRELIMINARY NOTE.

The Annual Report for 1940 is again curtailed in view of war conditions, but contains the statistics which have been prepared for so many years in accordance with the requirements of the Ministry of Health.

It will be seen that the birth-rate continues to be higher, and the death-rate lower, than the corresponding rates for England and Wales as a whole. The maternal mortality is the lowest yet recorded for the County. The infant mortality is lower than in the previous year and is the same as that for England and Wales as a whole. During the year no serious epidemic of infectious disease occurred. From a public health point of view, therefore, the year 1940 has been a satisfactory one.

In the Report a full account will be found of the work undertaken under the Midwives Acts and the Health Visiting Scheme, and in spite of war conditions all these activities have been fully maintained.

In July the County generally, and the Bacteriological Laboratory in particular, suffered a heavy loss in the death of Dr. Menton. On referring to the report of the work of the Laboratory it will be noted how extensive it is and how greatly it is utilised by Local Authorities and General Practitioners in the County. To Dr. Menton belongs the credit of organising and building up the work of the Laboratory, and his successor, Dr. Edwards, is fortunate in taking over such a well thought-out and fully developed scheme, which has proved, and continues to prove, of such value in the diagnosis and treatment of disease.

In the report of the work of the Chemical Laboratory there is a full account of its many activities, which have been extensively utilised in an endeavour to safeguard the food supplies.

Owing to war conditions, Local Authorities have been obliged to curtail their activities, particularly in connection with water and sewage disposal schemes, so that this section of the Report is necessarily smaller than in peace-time. I would like to pay a tribute, however, to the efforts that are being made to maintain the valuable plants at sewage works under difficult labour conditions. The Government, realising the importance of public health activities, has urged Local Authorities to maintain them without curtailment during war conditions, which is by no means easy with the constant demands of the Services. I am sure, therefore, it will be encouraging to all who are interested to realise that, in spite of difficulties, such a favourable year can be recorded.

SUMMARY OF STATISTICS.

1.—GENERAL STATISTICS.

				II ANTANA MINISTER							
Area of Administrative Coun	ty		eine.	. (acres) 685,503							
Estimated Civilian Populatio	n of Are	a, 1940	(prima	arily for							
calculation of Death-rat	tes or in	cidence	e of N	otifiable							
Diseases)				762,500							
Rateable Value at 1st April, 1940 (General County Purposes) £3,291,153											
Estimated net product of	a penny	rate	1940-4	1							
(General County Purpose	-										
and the second second	N. S.										
2.—EXTRACTS FROM VI	TAL ST	ATIST	ics o	F THE YEAR.							
	Total	M.	F.								
Live Births for Legitimate	13,133	6,744	6,389								
Birth Rates (Illegitimate	361	201	160								
out the multiplication than to	13,494	6,945	6,549	Birth-rate 17.7							
Do. for Legitimate	13.208	6.797	6.411								
Death Rates Illegitimate	362	202	160								
	13,570	6,999	6,571								
(D. J. D.	100	000	001								
Stillbirths {Death Rates Birth Rates	499	268	231	Rate per 1.000							
(Dittil Hates	100	200	200	total births 35.6							
Deaths	9,145	4,899	4,246	Death-rate 12·0							
Deaths from Puerperal Cause	es :—		I	Rate per 1,000							
	*	Dear	ths	total births							
Puerperal and Post-			many 's	of our our							
sepsis				. 0.6							
Other Maternal caus	ses	28	3	2.0							
Total .		36	;	2.6							
			MEL IN	A THE SECOND PROPERTY.							

Death Rates of Infants under one year of	age :		
All infants per 1,000 live births			 55
Legitimate infants per 1,000 legitimate	live b	irths	 54
Illegitimate infants per 1,000 illegitima	ate live	births	 80
Deaths from Cancer (all ages)		4	 1,096
Deaths from Measles (all ages)			 13
Deaths from Whooping Cough (all ages)			 28
Deaths from Diarrhœa (under two years of	age)		 69

AREA AND POPULATION.

Since 1934 there has been no alteration in the area of the Administrative County.

The estimated populations have been supplied by the Registrar-General and are primarily given for the calculation of death-rates and the incidence of notifiable diseases amongst civilians, non-civilian deaths and notifications having been excluded from the statistics. Estimates of the numbers and distribution of the non-civilian population are not available and the birth-rates can only be based on the civilian populations of 1940 as used for death-rates.

In the Report for 1939 alterations in the allocation of births and deaths were briefly described.

The Areal Comparability Factors for adjusting local deathrates have also been supplied by the Registrar-General, and are calculated for the year 1939. The rate obtained when the crude death-rate is multiplied by this factor is then comparable, from a mortality point of view, with the crude death-rate of the Country as a whole or with the mortality of any other local area, the crude death-rate of which has been similarly modified with its own factor for the purpose.

The rate for each district, adjusted by applying the Areal Comparability Factor, is shown in the tables at the end of the Report.

In the following table the census population of the Administrative County for 1931, and the estimated civilian population for 1940, are set forth:—

	1700	Census, 1931	Estimated Population, 1940
Urban	 	490,632	*574,840
Rural	 	212,622	*187,660
Totals	 	†703,254	762,500

^{*} The increase in the population of the Urban Districts, and the decrease in that of the Rural Districts, is due to the changes in Sanitary Districts and boundaries which took place on the 1st April, 1934, under the Staffordshire Review Order, 1934.

† The census population of the Administrative County as constituted at the 31st December, 1940, is less than this figure by 2902. The estimated population in the portion of the County, area transferred to the County Borough of Wolverhampton on the 1st April, 1933, was 5,419, but this decrease was partly neutralized by the fact that on the 1st April, 1932, a portion of the County of Warwick, with an estimated population of 2,517, was added to the Administrative County.

BIRTHS.

The live births registered in the Administrative County for birth-rate purposes numbered 13,494, compared with 13,290 the previous year, the number in the Urban Districts being 10,524 and in the Rural Districts 2,970.

Stillbirths.—There were 498 stillbirths registered during the year, of which 380 were in Urban and 118 in Rural Districts. The stillbirth rate per thousand of the population for the combined Urban and Rural Districts is 0.65. During the same period the rate for England and Wales was 0.55.

				LIVE	LIVE BIRTH-RATE PER 1,000 OF POPULATION									
DISTRICTS			5 yrs 1894– 1898						5 yrs 1924– 1928		5 yrs 1934– 1938	1939	1940	
Combined Urban and Rura		33.6	33.2	32.5	30.3	27.8	24.0	24.1	20.2	17.6	17.1	17.4	17.7	
Urban		35.5	34.7	33.6	31.5	29.2	25.0	25.0	20.7	18.1	17.5	17.9	18.3	
Rural		30.2	30.5	30.2	27.0	24.4	21.6	22.0	19.0	16.6	15.7	15.9	15.8	
gland and Wales		30.8	29.7	28.7	26.9	24.5	20.4	21.3	17.8	15.6	14.9	15.0	14.6	
rge Towns in Engla	nd	31.5	30.7	29.7	27.8	25.2	*20.9	22.0	18.2	15.8	14.9	14.8	16.0	

DEATHS.

The number of deaths in the Administrative County amounted to 9,145, the number in the Urban Districts being 6,943, and in the Rural Districts 2,202.

Bandla loom		BE	Di	ЕАТН-І	RATE P	ER 1,0	00 of 1	Popul	ATION				
DISTRICTS	5 yrs 1889– 1893	1894-	1899-	1904-	1909-	1914-	1919-		-1929	5 yrs 1934– 1938	1939	1940	
Combined Urban and Rural Urban	18.1	16.9	16.1	14.6	14.1	15.0	12.3	11.4	11.6	11.3	11.2	12.0	
Urban	18.9	17.5	16.6	15.1	14.7	15.5	12.6	11.5	11.8	11.3	11.1	12.1	
Rural	16.8	15.7	15.1	13.4	12.7	13.8	11.6	11.2	11.2	11.2	11.4	11.7	
England and Wales Large Towns	0.0	Car H	10 34		3023	15.2 15.5		No.	12.3 12.3	11.9	12.1 12.0	14.3 15.8	
Smaller Towns	17.6	15.9	15.7	14.9	13.6	14.1	11.5	11.0	11.2	11.4	11.2	12.8	

In the following table I have shown the *chief* causes of death for the last ten years, the numbers given for 1940 being 70.6 per cent. of the total deaths:—

TABLE SHOWING CHIEF CAUSES OF DEATH.

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
*Zymotic Diseases	281	311	231	223	303	217	241	194	193	178
Influenza	311	221	424	139	170	121	359	142	166	207
Tuberculosis of Respira- tory System	497	412	469	438	434	358	412	372	368	348
Tuberculosis, other forms	112	113	87	93	86	74	90	93	75	74
Cancer	897	915	896	963	981	968	989	1033	1046	1096
†Cerebral Hæmorrhage	477	510	460	443	457	477	505	472	492	_
†Intra-Cranial Vascular Lesions	_	-		_				_	_	808
Heart Disease	1500	1561	1579	1556	1618	1846	2006	2003	2246	2024
Bronchitis	485	369	409	311	377	366	329	262	273	797
Pneumonia	630	570	607	570	562	540	603	633	403	474
Premature Birth Congenital Malformations Birth Injuries, Infantile Diseases	459	443	413	412	415	472	482	428	466	217

^{*}Typhoid and Paratyphoid Fevers, Measles, Small-pox, Scarlet Fever, Whooping Cough Diphtheria and Diarrhœa.

[†] Change of Classification.

MORTALITY AT DIFFERENT AGES FROM VARIOUS CAUSES.

The following table gives the mortality from various causes in different age groups in the Administrative County during 1940:—

-la the objectations at			Ag	ge at De	ath		
Causes of Death	Under 1	1 and under 5	5 and under 15		45 and under 65		TOTAL
1. Typhoid and Paratyphoid							
Fevers	173	-	-	2	_	-	2
2. Cerebro-Spinal Fever 3. Scarlet Fever	1	11	9	12	6	1	45 5
3. Scarlet Fever 4. Whooping Cough		18	1	-			28
5. Diphtheria	1	19	33	8	-	_	61
6. Tuberculosis of Respiratory				2220		33237	-
System		3	3	231	94	16	348
7. Other forms of Tuberculosis	3	19	13	22	11	5 2	74 23
8. Syphilitic Diseases	+0	11	3	34	65	81	207
10. Measles		8	4		_		13
11. Acute Poliomyelitis and		10000	-	1			1000
Polioencephalitis	-	1	-	3	-	-	4
12. Acute Infectious Encephalitis	-	1	-	2	4	-	7
 Cancer of Buccal Cavity and Œsophagus (M) Uterus (F) 	-	_		6	53	82	141
14. Cancer of Stomach and					- Carl	100	
Duodenum		-	-	11	98	118	227
15. Cancer of Breast			-	17	49	43	109
16. Cancer of all other sites	1	2	1	67	225	325 62	619 112
17. Diabetes				10	0.0	02	112
Lesions	-	1	1	25	207	574	808
19. Heart Disease	-	2	- 11	132	516	1363	2024
20. Other Diseases of	17.15			5	30	143	178
Circulatory System 21. Bronchitis	1 1000	15	5	44	231	471	797
22. Pneumonia	110	85	8	63	93	109	474
23. Other Respiratory Diseases		4	2	15	55	54	135
24. Ulcer of Stomach or					10	0=	
Duodenum	0=	4	-	11	40	25	76 69
25. Diarrhœa under 2 years 26. Appendicitis		2	8	9	7	4	30
27. Other Digestive Diseases	0	10	9	46	65	96	234
28. Nephritis		-	3	50	86	89	229
28. Nephritis 29. Puerperal and Post-Abortive				1 0			0
Sepsis	-	-	-	27	1		8 28
30. Other Maternal Causes 31. Premature Birth	0.00	1		21	1		217
32. Congenital Malformations;		1					1
Birth Injuries; Infantile			-				1
Diseases	214	3	3	7	3	1	231
33. Suicide		11	13	20 68	31 27	11 26	62 145
34. Road Traffic Accidents 35. Other Violent Causes	10	20	30	93	71	92	319
36. All other causes	100	20	35	117	160	684	1056
	-	0.50	105	1100	0001	4400	01.15
Totals	748	272	195	1169	2284	4477	9145
	1		1		1	1	-

The following table has been prepared covering the last 21 years, in which the percentage of deaths under 45 years of age is worked out in relation to the total deaths at all ages, and in the table the sexes are divided. Speaking generally, 26 per cent. of all deaths now occur under the age of 45.

DEATHS UNDER 45 YEARS OF AGE—MALE AND FEMALE—SHEWING PERCENTAGE OF TOTAL DEATHS (ALL AGES).

		MALE		FEMALE					
YEAR	Deaths all ages	Deaths under 45	% of Total	Deaths all ages	Deaths under 45	% of Total			
1920	4626	2295	49.61	4084	1935	47.38			
1921	4545	2120	46.64	3985	1759	44.14			
1922	4534	1943	42.58	4191	1793	42.78			
1923	4197	1816	43.27	3788	1556	41.08			
1924	4332	1795	41.43	3906	1520	38.91			
1925	4556	1919	42.12	4161	1724	41.43			
1926	4148	1658	39.97	3808	1441	37.84			
1927	4458	1766	39.61	4082	1564	38.31			
1928	3965	1449	36.54	3563	1180	33,12			
1929	4813	1827	37.96	4293	1453	33.84			
1930	4100	1473	35.92	3672	1211	32.98			
1931	4376	1472	33.64	3933	1272	32.34			
1932	4190	1425	34.01	3824	1174	30.70			
1933	4213	1415	33.59	3900	1207	30.95			
1934	4105	1261	30.72	3655	1054	28.84			
1935	4284	1354	31,61	3802	1159	30.48			
1936	4203	1266	30.12	4022	1100	27.35			
1937	4793	1484	30.96	4075	1041	25,55			
1938	4497	1296	28.82	3915	1065	27.20			
1939	4498	1223	27.19	4038	973	24.10			
1940	4899	1315	26.84	4246	1069	25.18			

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA.

Local Government Act, 1929.

In view of the war, the question of hospital provision remains in abeyance and there has been no further development during 1940.

Poor Law Medical Out-Relief.

There has been no alteration in this scheme.

Institutional Provision for the Care of Mental Defectives.

On the 1st January, 1941, there were 490 certified cases in Institutions chargeable to the County, 422 of whom were at Great Barr Park Colony or on licence therefrom.

There was no alteration in the accommodation for mental defectives during 1940.

NURSING IN THE HOME.

(a) General Nursing.

At the end of 1940 there were 99 local Associations affiliated to the County Nursing Association undertaking general nursing in the Administrative County. This represents an increase of one, compared with the previous year, the independent Association at Huntington having become affiliated.

There has been no alteration in the number of Associations undertaking midwifery, viz., 92. Ninety-one of these are concerned with the midwifery service established by the County Council under the Midwives Act, 1936, the other, which is at Tipton, being centred in the area of another Local Supervising Authority.

In addition to the Administrative County, the County Nursing Association now have six affiliated Associations working in the City of Stoke-on-Trent, and the County Boroughs of Walsall and Wolverhampton, the Walsall Association having become affiliated during 1940.

There are nine independent Nursing Associations undertaking general nursing, and three, viz., Essington, Stafford and Tutbury, also include midwifery, the two first named forming part of the County Council Scheme.

(b) Infectious Diseases.

During 1940, no application was received for the nursing facilities available in the County Health Visiting Area in the event of an epidemic of measles or diarrhœa.

MIDWIVES ACT, 1936.

During the year under review, there is nothing outstanding to report on the scheme established under this Act in 1937, and the work continues quite normally.

As stated in a preceding section, at the 31st December 93 local Nursing Associations, 91 of which are affiliated to the County Association, were concerned with the Service. In addition, the work of whole-time midwives in four areas is controlled directly from the County Nursing Association Headquarters.

As regards the nursing personnel, there has been no change in the establishment, but in certain instances the service has been improved by the appointment of fully trained women to fill vacancies caused by the resignation of midwives holding the Certificate of the Central Midwives' Board only. The following is a summary of the staff placed in districts, i.e., excluding relief nurses, at the

end of the year :-

cha or the year.		TIME MII S.R.N., S.C.M.		PART-TIME MIDWIVES S.R.N., Queen's S.C.M. S.C.M			
Affiliated Associations Unaffiliated ,,	6 3	24	32 2	24	5_	47	
County Nursing Associa- tion Headquarters	1	3	15	10	110-31	1	
Totals	9	27	49	24	5	48	
		-	-		_		

S.R.N.-State Registered Nurse. S.C.M.-State Certified Midwife.

As will be seen, there were 162 midwives, 85 whole-time and 77 part-time, in addition to which there was one unfilled vacancy on the whole-time staff.

There was also no change in the relief staff, which, at the close of 1940, numbered 12, viz., 3 Queen's Nurses, 2 State Registered Nurses, and 7 holding the Certificate of the Central Midwives' Board only.

The Parish of Tutbury (Tutbury R.D.) which is the only area not included in the scheme, is served by an entirely independent unaffiliated Nursing Association. In addition, the Military Barracks at Whittington (Lichfield R.D.) have their own Nurse-Midwife, who is employed by the Soldiers', Sailors' and Airmen's Families Nursing Association.

MIDWIVES ACTS, 1902-1926.

The area for which the County Council is the Local Supervising Authority for the purpose of the Midwives Acts is the whole of the Administrative County with the exception of the Municipal Boroughs of Rowley Regis and Tipton. There are 23 Urban Districts and 10 Rural, with an estimated population of 682,940. In addition to the two districts mentioned, the area in which the County Council is responsible for maternity and child welfare purposes, does not include the Municipal Boroughs of Bilston, Newcastle, Stafford and Wednesbury, and the Urban Districts of Cannock and Coseley, so that the population in this respect is reduced to 454,650.

There are three Supervisors of Midwives, one medical and two non-medical, who, in addition, are responsible for other duties in connection with the Health Visiting Scheme. In 1940, 977 visits and interviews were undertaken for midwifery purposes.

On the 31st December there were 215 domiciliary midwives resident in the County area who were actually practising, 162 district (85 whole-time, 77 part-time) and 12 relief midwives employed by Nursing Associations under the Scheme, one employed by the Whittington Barracks Nursing Association outside the

scheme, and 40 in independent practice. Included in the latter figure are 10 midwives who were also engaged at registered Maternity Homes, and in addition, there were 11 maternity home keepers who do not undertake domiciliary cases. Thirteen out-of-area midwives, including two employed by Nursing Associations whose areas extend into Staffordshire, were in active practice at the end of the year. Eight other midwives, 5 resident within the County and 3 outside, notified their intention to practise but attended no cases. None of the midwives resident within the County is bona fide.

In addition to the routine enquiries conducted by the Supervisors of Midwives, two irregularities were specially investigated. As a result, letters of caution were addressed to the midwives

concerned.

Since the Act came into operation in 1902, the names of 115 midwives have been removed from the Roll in consequence of action taken by the Local Supervising Authority.

One application was received during the year from an indedependent midwife for compensation for loss of practice consequent upon suspension from duty, she herself not being in default, after contact with infection. This was dealt with under the Midwives and Maternity Homes Act, 1926, and an amount of £13 7s. 0d. allowed.

As will be seen from the following table, the majority of the midwives resident in the County area are under 45 years of age:—

Salaried :—				21-44	45-64	65 and upwards.
District				103	58	1
Relief Staff				7	5	_
Independent				23	16	2
Maternity Home	Keep	pers on	ly	5	6	_
						_
				138	85	3

During the year, 10,304 cases, 9,982 live and stillbirths and 322 miscarriages and abortions, were attended by domiciliary midwives, and the following summary indicates the numbers taken by each class of midwife:—

Salaried:—				Cases.
Whole-time		 .:-		6,980 2,104
Independent resident Association Midwife Out-of-Area, including		 	ng 	1,087 133
	15			10,304

Roughly, the average number of cases taken by each wholetime salaried midwife was 82.

In the table which follows more detailed information of the cases attended is given:—

contend the seal of the seal o	Total Births	*As Mic	lwives	Mate Nur	rnity	whie	hs in ect of ch no rd is lable
requirement of the supplement	(Live and Still- born)	Births	% of total	Births	% of total	No.	% of total
Live and Stillbirths	12,367	8,248	66.7	1,734	14.0	2,385	19.3
Abortions and Miscarriages	off_n	222	_	100		-	-

^{*} Doctors not having been engaged for the confinements.

Two hundred and seven live and stillbirths occurred at Public Assistance Institutions, and 497 at Maternity Homes, 2 abortions and miscarriages also occurring at the former and 7 at the latter.

The rules of the Central Midwives Board require certain notifications by midwives, and particulars are given in the following table. The last three years only have been included in view of the curtailment of the area in 1937.

Year.	* No. of Births attended by Midwives.	Medical Aid Notices.	Stillbirths.	Death of Mother.	Death of Child.	Contact with Infection.	Laying out the Dead.	Artificial Feeding.
1938	8730	4283	222	9	174	158	44	249
1939	8778	4297	222	5	206	161	38	262
1940	8714	3822	206	8	176	157	31	253

^{*} Including midwifery cases in Maternity Homes.

[†] Doctors having been engaged by the patients.

These figures are in respect of births which (i) were attended by doctors, no midwife having been engaged; (ii) took place outside the Administrative County; (iii) took place in Institutions.

The percentage of doctors' calls to the number of births attended by midwives in 1940 was 44. In 1915 the corresponding figure was 10.7 per cent., and the large gradual increase since can be ascribed to the trained type of midwife now practising.

The following figures show the causes which occasioned the sending for medical assistance:—

59

Disproportion

PREGNANCY:

	Disproportion				00
	Query Presentation				91
	Threatened Abortion				61
	Puffiness of face and ha				23
	Varicose Veins				10
	Fits				2
	Vaginal Discharge				21
	Unsatisfactory condition	on and	ger	eral	
	health				231
	Excessive Sickness				19
	Loss of Blood				64
	History of previous	Stillbir	ths	and	
	Abortions				6
	Albuminuria				189
	Blood Pressure				25
	Cardiac				10
	Sugar				1
	Sugai				
		Total			812
		Total	• •		
Т	ABOUR:				
1	ABOUR.				
	Premature Birth				53
	Abnormal Presentation				135
	Delayed or Difficult				555
	Placenta Prævia				6
	Hæmorrhage ante-partu				84
	Ditto post-partu				73
	Eclampsia				5
					5
	Lacerated Perinæum				858
	Retained Placenta and				65
	Unsatisfactory Conditio	n			100
	Inertia				86
	Abortion				156
	Albuminuria				3
			200	086	
		Total			2,184
			1000		

Lying-in: High Temperat Inflamed and p Convulsions Unsatisfactory Offensive Lochi Unusual Swellin Abdominal Swe	ainful le Condition a ng of Br	eg on easts	 lernes	 111 42 3 83 4 22 4
		Total		 269
0				
CHILD:				53
Deformities			• •	 12
Convulsions	. ; .			
Inflamed and d				 162
Feebleness and				 119
Unsatisfactory	Conditio	on		 149
Rash				 9
Pemphigus				 3
Spina Bifida				 14
Hare Lip and (Cleft Pal	ate		 9
Jaundice				 15
Hæmorrhage-	Bowel			 6
Do. —	Navel			 6
		Total		 557
	Sizer 1			
Gra	nd Tota	1		 3,822

During the financial year ended March, 1941, 3,944 notifications of sending for medical help were received, and, out of this number, Medical Practitioners claimed their fees from the County Council in 1,959 cases, that is, 49.7 per cent. of the possible claims.

In the last three financial years the fees paid by the County Council were as follows:—

Finan- cial Year	No. of Notifications of sending for Medical Aid	No. of Claims received	Percentage of claims received to Notifications	Total amount paid to Doctors during year	Amounts recovered from Patients during year
	100			£ s. d.	£ s. d.
1938-39	4402	2424	55	3513 18 9	1593 16 0
1939-40	4256	2319	54	3614 6 6	1576 17 10
1940-41	3944	1959	50	3167 16 0	2026 16 2

Here again, an increase is indicated, for in the financial year 1925-26 the percentage of claims was 35.

No alteration has taken place in the income scale which came into operation on the 1st October, 1934.

INFLAMED AND DISCHARGING EYES.

	lers.	CASE	S					
		1	REATED	744	Vision Un-	Victor	Total Blind-	Doothe
Year	Notified	At Home	In Ho In- pat'nt	spital Out- pat'nt	impaired	Vision Impaired	ness	Deaths
1938 1939 1940	193 203 162	166 180 145	11 20 12	16 3 5	191 203 160	=		$\frac{2}{2}$

The 162 cases in 1940, 132 of which were not severe, include medical aid calls for all unsatisfactory eye conditions and not notified cases of Ophthalmia Neonatorum only. The County Council are concerned with the notification and treatment of the latter condition in their Health Visiting Area, which is dealt with later in the Report.

STILLBIRTHS.

In the area now administered by the County Council under the Midwives Acts, 446 stillbirths were registered during the year.

As already indicated, 206 were reported by midwives, a figure which has varied little during the last 17 years, and the causes were as follows:—

Albuminuria				1
Cord round Neck	4.28			5
Cord Prolapse			g)	4
Deformities				27
Difficult Labour				14
Fall and Shock				1
Injury during birth				1
Maceration				64
Malpresentation				2
Premature				70
Spina Bifida				3
Unsatisfactory Cond	lition o	of Moth	er.,	14

PUERPERAL PYREXIA REGULATIONS.

Puerperal Pyrexia is defined as any febrile condition occurring in women within 21 days after childbirth or miscarriage, in which a temperature of 100·4 or more has been sustained during a period of 24 hours, or has recurred during that period.

The following are particulars of the notifications from the Administrative County during 1940:—

	Local	ea of Co Superv uthority	ising	In areas of other Authorities.	Total.
Urban Districts		63		11	 74
Rural Districts		14		_	 14
		-		- 101	-
		77		11	88

The case rate for Puerperal Pyrexia per thousand total births (live and still) for Staffordshire is 6.25, as compared with 11.96 for England and Wales.

As will have been observed from a previous table, in the area administered by the County Council as Local Supervising Authority the midwives summoned medical assistance for rises of temperature on 111 occasions. These were specially investigated by the Supervisors, and it was found that in 63 instances the unsatisfactory conditions were due to abnormalities which could be said to arise directly from childbirth.

The facilities provided in the Health Visiting Area are mentioned in the appropriate section of the Report.

MATERNITY AND NURSING HOMES.

The County Council are responsible for the registration and inspection of these Homes in their area as Local Supervising Authority under the Midwives Acts.

No applications for registration were received during 1940, but the authorities of a Salvation Army Maternity Home, which had been evacuated to the district, were granted exemption. At the end of the year the number of premises registered was 21, 7 only having more than two beds each. In addition, four exemptions were operative. The County Council have not delegated any of their powers under Section 194 of the Public Health Act, 1936, or earlier provisions, nor have any applications been received for such delegation.

COUNTY COUNCIL MATERNITY UNITS.

Last year I mentioned that in view of the Emergency Hospital Scheme the special maternity unit at the Wordsley Hospital had been suspended for the period of the war, and that the work at the Rosemary Ednam Maternity Home, which is a special block of the Sedgley Public Assistance Institution, had been curtailed. The beds available at Public Assistance Institutions for maternity cases have, however, been increased and are now as follows:—

Cannock	manife of 1		o James			13
Cheadle						1
Leek			eday.			12
Lichfield						12
Sedgley:	House		b wit I			7
	Rosemar	y E	dnam	Materr	nity	
	Home			o politi		8
Stafford						5

The arrangements made by the County under their Health Visiting Scheme are dealt with in the appropriate section of the Report. In addition, however, arrangements exist at the Mrs. Legge Memorial Home, Wolverhampton, for the reception of prospective unmarried mothers. In 1940, nine cases were admitted.

MATERNAL MORTALITY.

In the accompanying table the maternal mortality rate for the Administrative County, showing the deaths per thousand (live and still) births in the last ten years is given.

		DEATH	S FROM		al Mortality Live and Still)
Year	Total (Live and Still)	Duamanal	Other Diseases and		irths
rear	Births	Puerperal Sepsis	Accidents of Parturition	Staffs.	England and Wales
1931 1932	13,338 12,917	11 21	29 29	3.0	3.9
1933	11,960	19	18	3.1	4.3
1934 1935	12,497 12,751	28 20	27 35	4·4 4·3	4·4 3·9
1936	12,995	14	33	3.6	3-6 3-1 3-0
1937	13,485	15	33 3-6	3-6	
1938	13,834	12	28	2.9	
1939	13,874	13	28	3.0	2.8
1940	14,069	8	28	2.6	2.2
Mean for 0 years	13,172	16-1	28-8	3.4	3-5

The maternal mortality rate of 1940 is the lowest recorded in the Administrative County, and it is gratifying to note that the downward tendency which commenced in 1935 has been maintained. As will be seen, again this year the County rate is slightly higher than that for England and Wales as a whole, but in calculating the latter, abortions were excluded which may have affected it to a minor extent. Over the ten years period to which the table relates, however, the two rates are practically similar.

Thirty-one of the maternal deaths occurred in the area of the Local Supervising Authority, and of these eight were reported by midwives in accordance with their rules, *i.e.*, the deaths occurred whilst they were actually in attendance as midwives or maternity nurses.

The services provided by the County Council in connection with the efforts to reduce maternal mortality are detailed in the Health Visiting Section of the Report.

INFANTILE MORTALITY.

The infant mortality rate for 1940 was 55 per thousand live births, as against 58 in the previous year. The rate in Urban Districts was 56 compared with 57 last year, and in the Rural Districts 52 compared with 60. In England and Wales in 1940 the infant mortality rate was 55 compared with 50 last year. In the table which follows are shown the rates for the last ten years and also those for England and Wales as a whole. Also shown in this table are the various causes of infantile deaths in Staffordshire for the same period.

CAIIS	CAUSES OF DEATH	DEAT	H				1	Maria de la companya della companya	TOTA	L DEAT	TOTAL DEATHS UNDER	ONE	YEAR OF	F AGE.		
CONTO	10 000	TOTAL		lb!			1831	1932	1933	1934	1935	1936	1937	1938	1939	1940
																-
Measles			:		**		14	15	111	13	8	7	7	01	9	-
Scarlet Fever					**		1	1	1	1	1	-	1	1	1	1
Whooping Cough							25	23	13	21	29	18	19	14	15	10
Diphtheria	***			:			1	61	8	1	3	+	7	61	1	1
Influenza			*	:			16	12	13	3	2	80	13	10	1	13
Cerebro-Spinal Fever	-1						1	7	+	-	+	6	9	33	-	9
Tuberculosis of Respiratory System	ry Systen	n					1	01	-	1	2	01	-	1		-
Other Forms of Tuberculosis	osis		:		:		6	14	9	7	12	S	8	15	80	4
Syphilitic Diseases			**				01	4	es .	67	5	01	-	4	1	8
Cancer				:			_	1	1	-	4	1	-	1	1	1
Heart Disease						***	-	1	1	101	1	-	1	1	1	1
Other Circulatory Diseases	55				:	:	-	1	1	1	1	1	-	1	1	1
Bronchitis	0000						41	39	50	27	42	31	29	25	34	31
Pneumonia			***			:	169	134	126	06	127	121	115	120	103	116
Other Respiratory Diseases				:		:	3	3	9	-	1	5	2	+	27	10
Diarrhoea						:	74	98	75	55	78	99	52	52	55	65
Appendicitis					:		1		1	1	1	1	1	1	1	1
Cirrhosis of Liver							1	1	1	1	1	1	1	1	1	-
Other Digestive Diseases			***			:	12	16	14	10	10	11	9	10	14	00
Nephritis	:	:	:			:	-	7	1	-	1	C1	1	1	1	-
Congenital Malformations Birth Injuries Infantile Diseases	Birth L	nimio	Infa	Defile D		:	446	436	403	401	403	465	474	415	454	216
Violence		and in			120020	: :	16	26	17	15	17	06	17	31	14	+17
Other Defined Diseases		:			:	:	62	41	49	42	58	200	35	63	54	
Causes Ill-defined or unknown	nwor		:	:			1	1	1	1	1	1	1	1	1) 40)
To	TOTALS	:	:	:	:	1:	968	859	796	689	808	837	789	751	770	748
	2 .0			-		-		-	-			-	-			1
Death Rates per 1,000 Live Births.	Staffordshire England and Wales	dshire id and	Wales	::	::	::	66	69	875	59	57	62	98	53	58	55
												-				1

The preceding table is self-explanatory and it will be seen that each year the largest group of deaths were due to causes described as premature birth, congenital malformation, etc. For 1940 the deaths from premature birth are shown separately for the first time, and represent slightly more than one-half of this particular group, in respect of which the following table has been prepared:—

Year. Live Births.		Deaths of Children under one year of age from Congenital Debility, Malformations, Premature Birth, &c.	Death-rate per 1,000 Live Births	
1931	12,752	446	35.0	
1932	12,335	436	35-3	
1933	11,424	403	35.3	
1934	11,951	401	33.5	
1935	12,174	403	33-1	
1936	12,441	465	37.4	
1937	12,885	474	36-8	
1938	13,252	415	31.3	
1939	13,324	454	34.1	
1940	13,570	430	31.7	

It will be observed that, during the last 10 years, whilst the infantile mortality rate has been reduced from 70 to 55, the rate for this special group has shown no such marked reduction, although that for last year is one of the lowest in the decade.

One hundred and seventy-six deaths were reported by the midwives, having occurred whilst they were in attendance. Ninety-one of these were due to feebleness and prematurity, and 41 to deformity and malformation.

HOSPITALS.

In my 1930 and subsequent Annual Reports details and developments of the County's Hospital Services were given, and I have already mentioned that in view of the war the question of hospital provision under the Local Government Act, 1929, remains in abeyance. As far as Isolation Hospital provision is concerned the comments I made in my last Report still apply.

The national emergency has also delayed the extensions at the County's Standon Hall Orthopædic Hospital, and 120 beds are therefore still available for the various Committees. In view of requests from certain outside Authorities, in June, 1940, the Public Health Committee authorised the admission of their cases to Standon Hall provided patients for whom the County Council are responsible are not adversely affected, *i.e.*, provided the waiting lists have been exhausted and surplus beds are available. During 1940, 144 cases were treated for the Joint Board for Tuberculosis,

48 for the Education Committee, 10 for the Public Assistance Committee, 25 under the Health Visiting Scheme, 8 for outside Authorities, and 16 who were decanted in 1939 from the Hartshill Orthopædic Hospital under the Emergency Hospital Scheme.

CLINICS AND TREATMENT CENTRES.

The number of Clinics and Treatment Centres was set out in detail in the 1930 Report, and the changes in each subsequent year have been stated in my Annual Report.

The changes in Infant Welfare Centres which have taken place during 1940 are given in the section of the Report below, dealing with the Health Visiting Scheme.

HEALTH VISITING SCHEME.

As I have already mentioned, the County Health Visiting Area consists of 17 Urban and 10 Rural Districts, which have a total population of 454,650.

This year there is nothing of an exceptional nature to report on the scheme generally, and the following are brief details of the various activities:—

INFANT WELFARE CENTRES.

At the close of the year there were 35 Combined Centres (i.e., Minor Ailment Clinics and Welfare Centres) and 29 Welfare Centres, as compared with 36 and 31, respectively, at the end of 1939. In addition, there is one Voluntary Welfare Centre.

As stated last year, the Combined Centre at Ashley, which had been established temporarily to deal with evacuees, was closed early in 1940. The small Centres at Shenstone (Welfare only) and Longnor (Combined) had to be dispensed with in October and December, respectively, as the premises were requisitioned and no other accommodation was available. At Fazeley it was possible to return from temporary accommodation to the normal premises in March.

The only extensions were at Kinver, where the Centre became combined in January, and at Wednesfield, where in September an additional half-day session was given each week.

In total, 3,887 Welfare Centre sessions were held in 1940 against 3,621 in the previous year, 66,206 attendances being made by children under one year of age and 49,973 by children between one and five years. The numbers of children in these groups who attended for the first time during the year were 4,856 and 1,996, respectively.

ANTE-NATAL CLINICS.

There has been no alteration in this service. Thirty-six of the Welfare Centres are fully equipped for ante-natal work, and at 21 of them special sessions are held for this purpose.

During 1940, 2,719 expectant mothers attended the Clinics, with a total attendance of 8,840.

Where treatment is required, the patient is referred to her own doctor, through the medium of the midwife, if one has been engaged, except for unsatisfactory dental conditions. Treatment of the latter can be given under the County Council Scheme, and the patients are offered the facilities provided.

RURAL ANTE-NATAL SCHEME.

Under this scheme, which operates mainly in rural areas where there are no Ante-natal Clinics, 630 expectant mothers were examined by their own doctors, compared with 644 in 1939. As a result, it was found that 480 confinements could safely be conducted by the midwives at the patients' homes, but in 44 instances special advice was necessary. In 118 cases further examinations were considered desirable, the attendance of doctors at the confinements being advised in 26 instances, whilst 3 patients were recommended X-ray examination. Apart from the foregoing, the primary examinations revealed that 14 patients should be delivered in hospital and 18 others were referred to Consulting Obstetricians.

In addition, 34 of the women were offered dental treatment.

CONSULTING OBSTETRICIANS.

Under this important service the General Practitioners can, where necessary, obtain the assistance of a Specialist at any time during pregnancy, labour or the puerperium. It is gratifying to note that more advantage is being taken of the facility, for in 1940 Consultants were concerned with 375 cases, as against 316 in the previous year.

MATERNITY HOME AND HOSPITAL TREATMENT.

Arrangements exist at many hospitals and maternity homes for the reception of women whose physical condition or environment is such that confinement at home is unsafe or undesirable. During the year, 253 patients were dealt with in this way, and 66 were admitted to the maternity wards of Public Assistance Institutions, compared with 227 and 94, respectively, last year.

In addition, 23 women were admitted to a Maternity Home

but paid their own fees, the County Council merely giving a guarantee against default.

MATERNITY OUTFITS.

Since the war began, the diminishing demand for these outfits has been noticeable, and, in 1940, 92 only were disposed of, compared with 247 during the previous year. Eighty-nine were sold at cost price and three free issues were made.

One outfit was sent to the Bacteriological Laboratory for examination and the result was satisfactory.

PAYMENT OF MIDWIVES' FEES.

In order to retain the very essential ante-natal co-operation by the independent midwives, a compensation fee of 10s. 0d. is allowed where a case is lost as a result of County Council activities.

During 1940, three such payments were made.

PUERPERAL PYREXIA.

In the Health Visiting Area a Consultant and Hospital Service is at the disposal of the General Practitioners. During the period under review, 43 cases were notified, compared with 92 last year. Under the Scheme, Specialists' opinions were obtained in three instances, and 14 patients were sent to hospital. In addition, it was ascertained that 10 women from the area were sent to hospital through other agencies.

OPHTHALMIA NEONATORUM.

Forty-three cases were notified from the Health Visiting Area, compared with 64 in 1939, and in 31 instances home nursing was carried out by the Health Visitors. One child attended hospital as an out-patient and 11 were admitted for treatment. In 41 cases the vision was unimpaired, one child died and the other was still under treatment when the year ended. Four children were still under treatment at the end of 1939, and the result was satisfactory in each case.

The County Council provide hospital treatment.

OPHTHALMIC TREATMENT.

Ninety-two children under 5 years of age were referred to the County Ophthalmic Surgeon from the Welfare Centres, mainly on account of an actual or suspected squint. Glasses were prescribed for 70 cases: in 9 instances the County Council provided them, and in one other case allowed half the cost. Generally, where there was unilateral squint the sound eye was occluded,

but if this was found to be impracticable, atropine was inserted weekly until it was found possible to have the eye occluded. These children were kept under constant supervision.

In seven of the remaining 22 cases treatment was advised.

Patients seen in previous years were re-examined during 1940, and the total number of attendances at the Clinics, including both old and new cases, was 230.

ORTHOPÆDICS.

The County Council have not established any Orthopædic Clinics, but have arrangements with voluntary bodies who have established Clinics at Leek, Stourbridge, Hartshill, Birmingham, Stafford, Lichfield, Tamworth, Walsall and Dudley, where cases are received on payment.

One hundred and four new cases, as against 112 last year were sent to Orthopædic Clinics for out-patient treatment in the first instance, as follows:—

Bow Legs			 18
Congenital Dislocation of	Hi		 4
Deformities of Feet			 42
Deformities of Hands		and so their	 4
Knock Knees		Man. Trade	 16
Paralysis		6 30.25 53	 6
Rickets		90000	 1
Torticollis (Wry-neck)		1000	 5
Miscellaneous			 6
Examined but treatment	not	necessary	 2

It will be noted that only one case of rickets is given in this list, but of course there are many more conditions classified under other headings, of which rickets has probably been the primary cause.

I give below details of the out-patient attendances, etc., during the year :—

Number of children on	books at	31.12	.39	203
New cases referred dur				104
Removals on account	of:—			307
Discharged cured			27	
Left the area			12	
Attained school age			54	
Treatment refused			19	
Died			3	
No treatment found	necessar	v	2	
			-	117
Number of cases at end	l of year			190

The total number of attendances at Out-patient Clinics during the year was 2,201.

Twenty-five children received in-patient treatment at Standon Hall Orthopædic Hospital, nineteen of whom were admitted during the year. As mentioned in previous Reports, pending the extension of accommodation at Standon Hall, the Health Visiting Committee have authorised the use of five beds at outside institutions. These are used mostly for short stay cases. In this way ten children under five years of age received in-patient treatment, eight being admitted during 1940. Six patients were treated at the Hartshill Orthopædic Hospital, and four at the Birmingham Cripples' Hospital.

ARTIFICIAL LIGHT TREATMENT.

As stated last year, in view of the war, the treatment centre at Lichfield has been temporarily suspended, and the work under the scheme is now mainly confined to the Leek area.

Seventeen children only were treated, 13 being referred for the first time during 1940, with a total attendance of 353, for the following conditions:—

Bronchitis	 	 4
Cervical adenitis	 	 4
Debility and malnutrition	 	 8
Quinsy	 	 1

DENTAL TREATMENT.

The facilities under this scheme are available for expectant and nursing mothers, and children under 5 years of age, in the County Health Visiting Area. A similar service is undertaken, at an agreed payment, on behalf of the Stafford Corporation Welfare Committee.

During 1940, 1,293 County patients were treated, compared with 1,351 last year, and the following are particulars supplied by Mr. W. H. Jones, the County Dental Officer:—

The new dental centre established at Pheasey has supplied much needed accommodation in that area, and the new combined clinic at Shelfield has proved to be a great advantage.

Expectant and Nursing Mothers-

A greater proportion of the patients referred were ante-natal cases and the average age was lower.

Of 908 patients recommended dental treatment under the scheme, 710 accepted, but to the latter number must be added 323 women whose treatment was incomplete at the end of 1939,

giving a total of 1,033. The number of attendances made for treatment was 4,180, but no less than 1,133 further appointments were not kept, the latter representing 21 per cent. of the total. On the face of it, this percentage seems rather high, but on taking into consideration the extreme inclement weather during the first quarter of the year, disturbed nights etc., due to war conditions, it cannot really be deemed excessive. In this connection it is noted there is a tendency for patients from rural areas to keep appointments better than those from urban districts. The number of half-day sessions devoted to the treatment of these cases was 831.

Experience in the treatment of this class of patient demonstrates how important it is that the dental nurses should be fully trained women, who can deal with any emergency which may arise.

The following are particulars of the operations completed during the year:—

me year.					
Extractions				4.	 5,139
Fillings			10000		 156
Scalings					 45
Sundries					 1,917
New Dentu	res				 558
Repairs to l	Dentu	res			 14
					7,829
					1,020

The treatment necessitated the use of 4,978 applications of local anæsthetics and of 2,326 dressings.

In 8 instances patients were admitted to Institutions for the administration of general anæsthetics, the dental treatment being given by the County staff.

The artificial dentures, together with repairs, were all completed in the County Dental Laboratory.

" Toddlers "--

Two hundred and sixty "toddlers" were dealt with during the year, and 35 half-day sessions were devoted to their treatment, the total attendances being 276. On 256 occasions the child was accompanied by a parent.

Extract	tion of ter	nporar	y teeth	0.	 384
Dressin					 128
	tions of S				 177
Fillings	in tempo	orary to	eeth		 3
Sundrie	s				 44
Advice	TOTAL DESIGNATION OF				 68

EXTRA NOURISHMENT.

This scheme, which was described in my Report for 1938, continued throughout 1940, and the numbers of patients who received free extra-nourishment were as follows:—

	E	xpectant an	ıd
			Children
		Mothers.	under 5.
Dried foods only		192	789
Dried foods and eggs		4	5
Dried foods and glucose		-	1
Dried foods, eggs and emulsion		n keepela	1
Dried foods and emulsion		11	142
Emulsion only		2	41
		209	979

The totals of the free issues were 27,703 lbs. of dried milk; 1,340 eight-ounce bottles of emulsion and 1,117 eggs. In addition, 103,042 lbs. of dried milks were disposed of at cost price at the Welfare Centres.

In the Autumn the National Dried Milk Scheme came into operation, under which one pint of raw milk, or, in selected cases, an equivalent quantity of full-cream dried milk, became available for expectant and nursing mothers, and children under 5 years of age, at the reduced price of 2d. per pint, or free of cost in necessitous cases. Whilst the County Council continued their arrangements, the Medical Officers of the Centres were instructed to encourage the National Scheme, and certain facilities were offered to the local Milk Officers at Centre sessions. It was also decided that where the Government issue of dried milk was insufficient to feed a child and the case was a necessitous one, the additional free supply required would be provided under the County Scheme. As I have said, the new arrangement did not operate fully until towards the end of the year, and, in fact, in 1940 the County Council were concerned only with free supplies of National Milk to 20 children who are included in the foregoing table.

With the commencement of the National Scheme the arrangements which had been made by the Kidsgrove and District Social Services Clubs for the supply of milk to these groups of women and children at ½d. per third of a pint came to an end. The County Council continued their grant to the Clubs until their activities ceased.

NOTIFICATION OF BIRTHS.

During 1940, 7,210 live births and 276 stillbirths were notified

in the Health Visiting Area, 7,204 by midwives and 282 by parents and doctors. The births registered during the year, *i.e.*, 7,784 live births, and 288 stillbirths, cannot strictly be compared with those notified because of the period allowed by law for each purpose.

INFANT LIFE PROTECTION.

The work carried out by the Health Visitors under this scheme is shown in the following table:—

Number of children on Register at the end	
of December, 1940	33
Number of reports on visits to children	
received during the year 1940	304
Number of new cases during 1940, for	
which preliminary reports were sent in	
by Health Visitors	11
Number of foster-parents on Register at	
end of 1940	32

HEALTH VISITORS.

There was no change in the Health Visiting Staff during 1940 and at the end of the year there were 60 whole-time Health Visitors, two of whom are Lecturers on Mothercraft, serving a population of approximately 375,450. The remainder of the Health Visiting Area, mainly in the Rural Districts, is now served by 42 part-time Health Visitors, i.e., District Nurses employed by local Associations, and they are responsible for a population of approximately 79,200.

The visits paid by the Health Visitors during the year were as follows:—

To expectant mothers	:			
(1) First visits				1,903
(2) Total visits			b	4,835
To infants under one	year :-	magne.		
/41 731 / 1 1/				7,285
(2) Total visits				67,226
To children—one-five	vears	:		
Total visits				110,125

In 1940 the Health Visitors reported to local Medical Officers of Health 127 instances of insanitary conditions.

LECTURES ON MOTHERCRAFT.

The lectures to mothers which were instituted ten years ago, have continued at the Infant Welfare Centres. During the year talks were given by the two Lecturers at 388 sessions of 47 Centres

in various parts of the Health Visiting Area, the total attendance being 10,901.

DENTAL LABORATORY.

There was no further development of the Dental Laboratory during the year, which continued with its full complement of four mechanics, the output of completed work being as follows:—

New dentures			 910
Repairs to dentures			 47
Orthodontic appliances			 9
Repairs to equipment for	dental	clinics	 10
			976

It is satisfactory to record that the resources of this laboratory are now equal to the demands made upon it, so that no undue delays occur in the provision of dentures for the patients of the various Committees.

COUNTY BACTERIOLOGICAL LABORATORY.

Dr. J. L. Edwards, the County Bacteriologist and Pathologist, reports that during 1940, 87,336 investigations were conducted at the County Bacteriological and Pathological Laboratory, being a reduction of 31,176 as compared with the previous year. Of these, 65,746 were of a general bacteriological and serological nature, 4,641 in respect of biochemical and pathological investigations, and 16,949 were for the diagnosis and tests for cure of venereal diseases.

The general bacteriological and serological work was for the most part from the Administrative County, but of the milk examinations 842 were undertaken for the City of Stoke-on-Trent, 27 for the County Borough of Dudley, and 1 for the County Borough of Derby.

The tests for venereal diseases were from patients resident in the following areas:—

Training our owner.		
Administrative County		7,882
City of Stoke-on-Trent		5,475
County Borough of Dudley		616
County of Worcester		851
Kesteven Division of Lincolnshire		715
County Borough of Walsall		539
Other areas outside the Administrati	ive	
Country		359

Seventy-eight were from Emergency Hospitals in the Administrative County and 54 from members of His Majesty's Forces. In addition, 380 Laughlin tests in connection with syphilis were carried out. The bulk of the bacteriological work was in relation to the direct diagnosis and prevention of infectious diseases, the supervision of the milk supply, and the bacteriological examination of drinking waters for the various Sanitary Authorities.

The arrangement for conducting the bacteriological, pathological and biochemical investigations for the London Road Hospital of the City of Stoke-on-Trent still continued, and this Institution has made extensive use of the Laboratory.

The various biochemical and pathological investigations were conducted for the Staffordshire General Infirmary; Standon Hall Orthopædic Hospital; the North Staffordshire Cripples' Aid Society; the Cottage Hospital, Newport, Shropshire; the Victoria Hospital, Lichfield; Tamworth General Infirmary; London Road Hospital, Stoke-on-Trent; the Military Hospital, Lichfield; the Public Assistance Institutions and Emergency Hospitals in the Administrative County.

Supervision of the subsidiary laboratory at Sandfield Hospital, Wordsley, was exercised, and blood counts were done at intervals on the staff of the Institution who were exposed to radium.

In connection with the Blood Transfusion Service, blood grouping of volunteers as donors was carried out at Sandfield Hospital, Wordsley, Sedgley and Lichfield Public Assistance Institutions, and, in addition, on a number of volunteers sent to the Laboratory from the Staffordshire General Infirmary.

The researches into the prevention of Brucella infections in man and animals in the County have been continued this year.

In connection with puerperal sepsis and maternal mortality, the increasing tendency to submit swabs for examination for hæmolytic streptococci has been maintained and the Practitioners, Hospital Authorities, Medical Officers of Health, and the whole-time County Staff, have co-operated in this work.

Experience has shown that in all suspected cases of food poisoning it is of the utmost importance to submit specimens of fæces and vomited material for bacteriological examination as soon as possible after the onset of the symptoms. Samples of blood should also be taken at the appropriate stage of illness, and in every instance the suspected article of diet, when available, should also be forwarded for investigation.

The details of the year's work are as follows:-

The second secon	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Totals
Water Examinations	65	124	128	79	396
Milk Examinations	4034	4775	5031	5031	18871
Diphtheria	3883	3817	4149	4551	16400
Tuberculosis	2016	2053	1665	1411	7145
Cerebro-spinal Fever	199	165	11	6	381
Streptococcal Infections	1635	1393	1388	2208	6624
Ringworm	16	29	17	20	82
Typhoid and Paratyphoid Fevers Brucella Infections	152 176	496 450	538 125	401 80	1587 831
Dysentery (all types)	222	671	710	858	2461
Food Poisoning	332	1070	789	452	2643
Veterinary Work (other than	646	255	382	3028	4311
Milk, including Research) Other Examinations	1078	1104	869	963	4014
Totals	14454	16402	15802	19088	65746

The 7,145 examinations under "Tuberculosis" included 5,588 sputa; 131 specimens of pus; 163 cerebrospinal fluids; 91 other fluids; 450 urines; 24 fæces; 347 biological tests; 9 specimens of human organs and tissues; 327 cultures and 15 swabs.

The 831 investigations under the heading "Brucella Infections" included 176 specimens of blood from human beings, 7 of which gave agglutination reactions varying from 1 in 50 to 1 in 12,500. Seventy-nine samples of blood from cattle were also examined, and, in addition, 556 tests on samples of milk and 4,140 other tests were conducted.

The majority of the serological tests for food poisoning were done for exclusion purposes, and proved negative, but there were 10 positive results.

The 4,014 "Other Examinations" included 590 bacteriological and cytological examinations of various body fluids and exudates; 46 blood cultures; 91 examinations for Vincent's Angina; 494 general examinations of urines; 779 swabs for other pathogenic micro-organisms; and various miscellaneous investigations.

The 18,871 "Milk Examinations" were constitut	ed as f	ollows:—
Cleanliness and Phosphatase Tests		15,780
Biological Tests		2,384
Investigations of Brucella infections		556
Cultures for Streptococci, etc		40
Direct film for acid fast bacilli		4
Examination of washings from utensils		98
Examination of Milk Bottles for Sterility		4
Examination for cause of taint		5
		18,871

As regards the biological, cleanliness and phosphatase examinations, the purposes of the tests are shown in the accompanying table, and it will be specially noted that 2 samples of "Pasteurised" milk and 18 of "Accredited" gave positive biological reactions for tuberculosis.

1000	* Coli a or Coun	and/or Red at and Phos ase.	uctase ; sphat-	1	Grand Total.			
	Satis- factory.	Unsatis- factory.	Total.	Nega- tive.	Posi-	Total.	Principal Control	
For "Accredited" Standard and Licence	6844	3610	10454	202	18	220	10674	
For "Tuberculin Tested" Standard and Licence	176	73	249	145	-	145	394	
For "Tuberculin Tested" (Pasteur- ised) Standard	8	3	11	9		9	20	
For Pasteurised Standard	154	21	175	83	2	85	260	
Food and Drugs Act, 1938	1120	794	1914	1529	105	1634	3548	
School Milks	113	38	151	156	12	168	319	
Submitted by farmers, retailers and others, for their own information	95	28	123	5	P. Land	5	128	
Submitted by Ministry of Agriculture and Fisheries under Tuberculosis Order, 1938				94	19	113	113	
Totals	8510	4567	13077	2223	156	2379	15456	

^{*} The above figures represent the number of samples examined.

The following tests were invo	olved :-	_				
Count and/or Coli				2,7	12	
Reductase				12,8		
Phosphatase				2		
Biological				2,3	84	
	Total			18,1	GA.	
	Total			10,1		
The particulars of the pagations were as follows:—	atholog	gical a	nd bi	ochemi	ical in	vesti-
PATHOLOGICAL AND BIOCHER			Con	DUCTE	DU.	RING
Fractional Test Meals.	YEAR	1940.				
Specimens of Gastric Cont	tents				٠	286
Urea (Estimation of).						
Urine						97
Blood						174
Glucose (Estimation of).						
Urine			'			23
Blood						126
Blood.						
Estimation of Hæmoglobin	n					420
R.B.C. Count						420
Leucocyte Count						448
Reticulocytes						74 446
Differential Leucocyte Cou Platelets						3
Grouping	* *					1,377
Wintrobe's Volume Index						50
						45
						1
Sedimentation Rate						9
Estimation of Calcium ,, ,, Cholestrol				1100		2
,, ,, Cholestron	ein.					8
,, ,, Creatinine						8 1 7
YY 1 A 11						7
						1
Hæmolysin Tests						183
	• •					6
Van Den Bergh's Reaction	No liverage	.,				
	Carrie	ed forv	vard			4,211

	Brought	forward		 4,211
Urine.				
Diastase Content			de.lo	 6
				 1
Nature of Reducing Substa	ance			 1
Zondek-Aschheim Tests (1	Friedman	's Modific	ation)	 36
Fæces. Quantitative Estimation of	f Fats	TO TO SEE	reine Li au	 3
Pathological Sections				 376
,, (Research)				 7
		Total		 4,641

The details of the Venereal Diseases tests are shown in the following table:—

Examinations of Pathological Specimens Conducted under the Venereal Diseases Scheme during the Year 1940.

	For Det	ection of	For Wasser-	Sigma,	Other Examin-	T 4 1
	Spirochæta Pallida	Gonococci	mann Reaction	Laughlin Tests	ations	Totals
1st Quarter	–	252	1551	1992	356	4151
2nd Quarter		341	1616	1780	329	4066
3rd Quarter		379	1468	1754	305	3906
4th Quarter .	. 1	363	2182	1924	356	4826
Totals	1	1335	6817	7450	1346	16949

The 1,346 "Other Examinations" consisted of :-

One hundred and thirty-six cerebrospinal fluids for cell count, protein estimation, and colloidal gold test; 1,199 complement fixation tests for gonorrhæa; the examination of 5 specimens of urine for gonococci; the making of 2 cultures for gonococci, and 4 pathological sections.

CHEMICAL LABORATORY.

Mr. E. V. Jones, the County Analyst, reports that the total number of samples analysed was made up as below:—

For County.

Food and Drugs Act, 1	1938				 2,526
" Appeal to Cow " Sar	nples				38
Fertilizers and Feeding					 1
Pharmacy and Poisons				- /	1
Drinking Waters					 299
Swimming Bath Water					2
River Waters (Full Ar		-			
	W .				 112
Sewage Effluents (Full					 70
Crude Sewage (Full Ar	nalysis)				 2
Coroner Samples					 2
Miscellaneous Samples					 30
The contract of the contract o	A Day of the				00
					3,083
For Stoke-on-Trent					912
For Stoke-on-17ent					 312
For Newcastle-under-Lyme					 134
For Brierley Hill					 44
			Total		 4,173

FOOD AND DRUGS ACT, 1938.

Of the 2,526 samples submitted from the County Area, 2,288 were found to be genuine and 238 adulterated or below standard.

(1) MILK.—Of 1,786 samples of undesignated milk, 206 were found to be unsatisfactory, of which 89 contained added water, 12 contained added water and were further deficient in fat, 2 contained added water and sugar, 90 were deficient in fat, and 13 were deficient in both fat and solids-not-fat.

One hundred and eighty-two samples of specially designated milks were examined, viz., 26 "Tuberculin Tested," 75 "Accredited," and 81 Pasteurised. Twenty-one were reported against, one of "Tuberculin Tested," one of "Accredited," and 14 of Pasteurised containing added water, 3 of "Accredited" being deficient in fat, and 2 others of "Accredited" being below the presumptive standard in fat and solids-not-fat.

Forty-two samples of sterilized milk were also examined, which were all found to be satisfactory with the exception of one containing added water, and one deficient in fat.

Action taken.—Seventy-six of the 206 unsatisfactory samples of ordinary milk were informal and no direct action could be taken, but "follow up" samples were obtained where possible.

In 49 cases, representing 72 unsatisfactory samples (two or more having been taken simultaneously from the same purveyor in several instances) the adulterations were small and cautions were issued. Eighteen producers or retailers were prosecuted in respect of 29 samples containing added water, one in respect of 2 samples containing both added water and added sugar, and one in respect of a sample deficient in fat.

The County Farm Institute, Rodbaston, was asked to give assistance in respect of 3 samples from one producer. In the remaining 23 instances no action was considered necessary.

As regards the formal samples of designated milks, proceedings were taken against a firm of retailers in respect of 12 Pasteurised samples, and against a producer-retailer in respect of one "Accredited" sample, all of which contained added water. Cautions were issued in respect of 2 samples of Pasteurised milk and one sample of Sterilized milk found to contain added water, and 2 samples of "Accredited" and one of Sterilized which were deficient in fat. The remaining 4 unsatisfactory samples, one "Tuberculin Tested" and 3 "Accredited" were informal.

In total, 55 retailers or producers were cautioned and 22 prosecuted. Fines amounting to £88 were imposed, together with £63 12s. 3d. special costs.

The average composition of the milks of all grades was :-

	01	n all samples.	On genuine samples.
Fat		3.68%	3.75%
Solids-not-fat		8.69%	8.73%

Of 1,781 samples of milks of all grades, passed as genuine, 255 were below the presumptive standard of 8.5 per cent. solidsnot-fat, of which 252 were proved to be genuine milk by the Freezing Point Depression (Hortvet), and 3 were slightly sour.

(2) General Articles of Food.—Five hundred and sixteen general articles of food and drugs were examined, and 9 (one formal and 8 informal) were found to be adulterated or below standard, the County Analyst reporting as follows:—

Fish Dressing, with Egg Yolk.—Of two samples submitted, one (informal) contained no Egg Yolk.

Gentian Root, Ground.—Only two samples were submitted; both proved to be adulterated. One (informal) contained 66.3 per cent. powdered fruit stone shells, whilst the other, which was formal, contained at least 10 per cent. of ground barley husks.

Margarine.—of 39 samples, only one (informal) was adversely reported upon. It contained 0.33 per cent. of Boric Acid, instead of a maximum of 0.25 per cent., the amount sanctioned under the licence.

Prunes.—The only sample (informal) contained a large number of sugar mites and ova.

Sausage.—Of 6 samples, one (informal) proved to be preserved sausage, containing 141 parts per million of Sulphur Dioxide.

Soda, Carbonate of.—The only sample (informal) consisted entirely of bicarbonate of soda.

Suet, Shredded Beef.—Of 8 samples, 2 (informal) contained excess of rice flour to the extent of 6.4 per cent. and 5 per cent., respectively. They contained 21.4 per cent. and 20 per cent. rice flour, instead of a permissible amount of 15 per cent.

Action taken.—Proceedings were taken against the retailer of the formal sample of Ground Gentian Root, who successfully pleaded a warranty, and the case against him was dismissed.

"APPEAL TO COW" SAMPLES.

Of 38 "Appeal to Cow" samples, 6 were below the presumptive standard of 8.5 per cent. solids-not-fat; 8 were below the standard of 3 per cent. fat; and one was below in both solids-not-fat and fat.

FERTILIZERS AND FEEDING STUFFS ACT, 1926.

Only one sample has been submitted under this Act, viz., "Cow Concentrate," which was of satisfactory quality.

DRINKING WATERS.

Of 299 samples, 91 were for the ordinary full analysis, 203 for partial analysis, 3 for full and mineral analysis, and 2 for full analysis and fluorine content. One hundred and sixty were passed as satisfactory; 67 showed sewage or animal pollution; 15 were organically impure; 18 were of doubtful quality; 5 contained metallic contamination; 19 contained both animal and vegetable pollution; 2 contained both animal and metallic pollution; one was excessively hard; one contained sewage, and was also excessively hard; 3 contained vegetable and metallic pollution; one was excessively hard and also contained metallic pollution; one smelt strongly of paraffin; one contained sulphide

and iron; one was organically of satisfactory quality, but contained 3 parts per million of fluorine, and one contained sewage and also 3.8 parts per million of fluorine.

CORONER SAMPLES.

Only one case was sent, consisting of 2 samples, which were examined for metallic and other irritant poisons.

MILK SUPPLY.

As explained in previous Reports, the County Council are concerned with the milk supply, as follows:—

- (i) Under the Milk (Special Designations) Orders they are responsible for the issue and control of "Tuberculin Tested" and "Accredited" licences in the Administrative County, and
- (ii) By arrangements made with the majority of the District Councils, the County staff undertake the sampling of milk as it is being retailed to the public, *i.e.*, street samples.

The duties in connection with the above are assigned to the Sanitary Inspectors and Milk Sampling Officers of the Public Health Department, and, notwithstanding the depletion of staff, due to the war, mentioned last year, every endeavour is made to maintain efficient supervision.

Details of the work during 1940 are given in the succeeding paragraphs.

STREET SAMPLING.

The area covered by the ordinary activities of the County Council for this purpose is the whole of the Administrative County with the exception of the Municipal Boroughs of Newcastle and Rowley Regis and the Urban District of Brierley Hill. At the request of the Rowley Regis Municipal Borough Council, who became the Food and Drugs Authority for their district on the 1st October, 1939, special arrangements were made for the County staff to undertake the street sampling on their behalf.

In the following tables the number of samples of ordinary and specially designated milks taken during the year in the area for which the County Council is normally responsible are shown, together with the results of the bacteriological and biological tests carried out in the County Laboratory. In the table of ordinary milk the numbers of samples taken in the various Sanitary Districts of the County are indicated.

ORDINARY MILK SAMPLES.

1st January to 31st December, 1940.

	No. of	Result of	Examination	
Sanitary	samples	Clean	liness	T.B.
District	Submitted	Satisfactory	Unsatisfactory	1.15.
URBAN:			The second	-101
Aldridge	 32	20	12	2
Amblecote	 9	4	5	2 3
Biddulph	 42	26	16	3
Bilston	 11	5	6	-
Brownhills	 31	17	14	3
Cannock	 58	43	15	6
Coseley	 13	10	3	6 2
Darlaston	 4	2	2	
Kidsgrove	 70	38	32	4
Leek	 25	12	13	-
Lichfield	 33	16	17	1
Rugeley	 24	13	11	-
Sedgley	 51	34	17	3 5
Stafford	 53	38	15	5
Stone	 13	9	4	2
Tamworth	 19	15	4	-
Tettenhall	 14	8	6	2
Tipton	 41	22	19	1
Uttoxeter	 32	23	9	1
Wednesbury	 11	7	4	1
Wednesfield	 24	12	12	1
Willenhall	 . 48	30	18	8
RURAL:	al- limeti			
Cannock	 86	60	26	5
Cheadle	 136	67	69	5 3 2 3
Leek	 59	33	26	2
Lichfield	 98	54	44	3
Newcastle	 51	32	19	- in-
Seisdon	 53	33	20	4
Stafford	 23	12	11	1
Stone	 25	17	8	2
Tutbury	 41	28	13	4
Uttoxeter	 18	10	8	1
Totals	 1,248	750	498	72

SPECIALLY DESIGNATED MILK.

1ST JANUARY TO 31ST DECEMBER, 1940.

		No. of	Result of		
Designation		Samples	Clea	T.B.	
		Submitted	Satisfactory	Unsatisfactory	
" Tuberculin					nem (I
Tested "		64	58	6	-
" Accredited "		132	120	12	5
Pasteurised		64	. 59	5	2
"Tuberculin					
Tested "				Carlotte State	
Pasteurised		8	8	-	-
Totals		268	245	23	7

In addition, four samples of sterilized milk were taken for examination, and were all satisfactory.

(i) BACTERIOLOGICAL EXAMINATION.

Undesignated Milk.—The 1,248 samples were bacteriologically examined, and 750 were found to conform to a certain standard of cleanliness, the remaining 498 failing to do so. Four hundred and eighty-two of the latter were produced within the County and 16 outside. The percentage of samples reported clean was 60·1, compared with 69·1 last year. In addition to being unsatisfactory from a cleanliness standpoint, 28 also contained tubercle bacilli.

As in previous years, the names of the producers of the unsatisfactory milks were reported to the County Farm Institute, and the farmers concerned were communicated with by the Assistant Director for Agricultural Education, and offered every assistance. In accordance with the usual practice, if no improvement in the cleanliness of the milk resulted, the District Council in whose area the premises are situated was informed, so that the necessary steps could be taken under the Milk and Dairies Order, 1926.

Specially Designated Milks.—The cleanliness test was applied to the 268 samples submitted, and 23, or 8.6 per cent., were found to be unsatisfactory, viz.: 6 "Tuberculin Tested, "12" Accredited" and 5 Pasteurised, as compared with 7.9 per cent in the previous year.

In addition to examination by the bacterial count method, the Pasteurised milks are submitted to the phosphatase test, which indicates the efficiency or otherwise of the pasteurisation. In this respect 65 of the 72 samples obtained in 1940 were satisfactory.

As regards the unsatisfactory samples, other than those of Pasteurised Milk, 14 were produced in the County and 4 outside. The sources of production of the 5 Pasteurised samples were not known but 3 were of milk treated at premises outside the County.

(ii) BIOLOGICAL EXAMINATION.

All the samples, with the exception of 4 of undesignated milk, were examined biologically, and 72 of ordinary milk, 5 of "Accredited" and 2 of Pasteurised, were found to contain tubercle bacilli.

Sixty-nine undesignated samples and the 5 "Accredited" were produced within the County. The 2 Pasteurised samples were of milk treated at premises outside the County.

Where the milk was produced in Staffordshire the positive results were reported to the Divisional Inspector of the Ministry of Agriculture and Fisheries, whose Department is responsible for the consequent veterinary examinations of the herds concerned.

The procedure adopted when the sources of production of samples containing tubercle bacilli are outside the County is dealt with in a succeeding paragraph.

MILK IN SCHOOLS SCHEME.

At the end of the year there were 102 suppliers of designated and undesignated milks to schools or departments, as detailed in the following table:—

the following to				Schools or rs. Depts. supplied.	Children supplied (Dec.)
" Tuberculin To	ested"	 	1	1	7
" Accredited "		 	80	233	10,924
Pasteurised		 	17	122	27,854
Undesignated		 	4	5	26
			102	361	38,811

The usual procedure is to sample the supplies at least once each term after delivery to the schools. During 1940, however, in view of shortage of staff, this was not always possible, but every effort was made to give adequate supervision. The samples are examined bacteriologically and biologically, and, in the case of Pasteurised milk, by the phosphatase test in addition.

All herds producing milk are, of course, under supervision by the Veterinary Staff of the Ministry of Agriculture and Fisheries, but, in the case of undesignated production, examinations are normally made less frequently. However, as far as school milk is concerned, the Divisional Inspector agreed to deal with the matter adequately, so that the supplies, which are in districts where it is difficult to obtain designated milk, can continue.

The number of samples collected at schools during the year was 206, and of these 54 failed to conform with the required standard of cleanliness. When an unsatisfactory result is obtained notification is made to the supplier and/or producer, and repeat samples are taken.

Forty-two samples from Pasteurised supplies were submitted to the phosphatase test; 40 passed and 2 failed.

As regards the biological examination of samples, where tubercle bacilli are found the school supply is cancelled immediately and is not resumed from the particular source until the herd is free from infection. In the meantime, where possible alternative arrangements are made so that the scheme is not interfered with. The number of tuberculous samples during the year was 11 and the procedure mentioned in a preceding paragraph was adopted.

FOOD AND DRUGS ACT, 1938.

In 1940, 117 representations in respect of milk produced in Staffordshire, which was found to contain tubercle bacilli, were made by Medical Officers of Health of districts outside the area administered by the County Council. Similarly, 7 complaints were made to outside Authorities in respect of milk sent into this County for sale. In this respect the County and County Borough Public Health Departments act in the capacity of clearing houses only, and the appropriate action regarding the herds is taken by the Veterinary Staff of the Ministry of Agriculture and Fisheries.

MILK (SPECIAL DESIGNATIONS) ORDER, 1936.

"Accredited."—On the 31st December, 1940, there were 2,605 farmers licensed to produce "Accredited" milk, as compared with 2,700 at the end of the previous year. During the period under review, 9,716 samples of milk were taken for examination for cleanliness, and 6,317, or 65·0 per cent., complied with the required standard.

As stated last year, in view of depletion of staff, routine sampling at the farms at two monthly intervals had to be abandoned, but endeavours are made to visit quarterly for this purpose.

One hundred and seventeen applications for new licences were received and dealt with during 1940, 7 of which were not acceded to.

When it is found that the main conditions attached to a licence, which include, of course, a good sample record, are not being observed, every effort is made to obtain a satisfactory solution, and failing this the case is dealt with by the appropriate Committee. During 1940, the licences of 44 producers were suspended for one month, 23 for two months, and 8 for three months. Forty-eight were revoked and 7 cautions were issued.

"Tuberculin Tested."—At the end of the year the number of licences in force for the production of "Tuberculin Tested" milk was 38, as against 37 at the close of 1939. Three new applications were received and recommended during 1940.

The routine samples are examined biologically as well as for cleanliness. Of 132 obtained during the year, 29 failed to comply with the required bacteriological standard but none was found to contain tubercle bacilli.

One unsatisfactory case only was considered by the Committee and a warning was issued.

GENERAL.

Apart from the foregoing, sampling was undertaken at certain hospitals, sanatoria and institutions, and of 19 samples obtained during the year 11 were unsatisfactory from a cleanliness standpoint, whilst 2 contained tubercle bacilli.

WATER SUPPLIES AND RIVERS POLLUTION PREVENTION.

In view of the war, the activities of Local Authorities in connection with schemes for water supplies, sewerage and sewage disposal, have been curtailed, and it is possible only to comment on developments of special interest of schemes which were already in existence, as follows:—

Water Supplies :-

LEEK R.D.—The piped supply by stand taps is now available in the village of *Longnor*.

UTTOXETER R.D.—Further progress was made during 1940 in the scheme to provide a piped supply for the *Parish of Leigh*, and many properties are now being supplied from this source.

The scheme to provide a piped supply to the Parish of Newborough was also proceeded with, but, contrary to expectation, the supply was not available at the end of the year. It is anticipated that it will be completed during 1941.

Rivers Pollution Prevention :-

RIVER TRENT WATERSHED.

STONE U.D.—Work is proceeding on the new sewerage and sewage disposal scheme, but progress is necessarily slow.

STONE R.D.—A scheme to provide for the sewerage of Groundslow Sanatorium and Barlaston was placed before the Ministry, and work on the Groundslow section will probably be commenced in the near future.

RIVER TAME WATERSHED.

WILLENHALL U.D.—The new Short Heath trunk sewer is now complete, and the second of the two small works has been dispensed with.

RIVER SEVERN WATERSHED.

Seisdon R.D.-Kinver.--Work is proceeding on the new sewerage and sewage disposal scheme, but progress is being retarded owing to present difficulties. It is anticipated, however, that it will be completed by the end of 1941.

CONTRIBUTIONS TO DISTRICT COUNCILS FOR WATER AND SEWAGE DISPOSAL SCHEMES.

In the Report for 1930, the principles governing contributions from the County Council were fully stated and a brief summary has appeared in subsequent Reports.

Contributions continue to be payable in respect of all schemes mentioned in previous Reports, with the exception of two, which

ceased for the following reasons:-

Lichfield R.D. .. Burntwood Mental Hospital . . Sewer—Contributions ceased, having been made for agreed period of 5 years.

.. Hanbury Water Supply-In-Tutbury R.D. .. come from consumers increased to such an extent that County Council's contribution permanently discontinued.

During 1940 applications were received in respect of three new schemes and in each instance a contribution was approved. The particulars are as follows:—

Sanitary District.

Scheme.

Sewerage and Sewage Disposal:-

Lichfield R.D. Hopwas Sewer Extension (Parish of Wigginton).

Water Supplies :-

Uttoxeter R.D. Newborough.

.. .. Willslock portion of Parish of Uttoxeter Rural.

HOUSING (RURAL WORKERS) ACTS.

Under these Acts contributions are given by the County Council for the re-conditioning of old houses in rural areas, and for the conversion into dwellings of buildings not previously used for that purpose. Applications for grants must come from the owner of the property concerned. During the year, one application only was dealt with, which concerned the improvement of the water supply at a house in Checkley Parish (Cheadle R.D.). A grant of £50 was offered.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASE.

During 1940 there has been no further development of the scheme for the provision of Isolation Hospital accommodation, and the remarks I made last year still apply.

The following statistics relate to the notifiable infectious diseases amongst civilians during the 52 weeks ended 28th December, 1940. Measles and Whooping Cough were added on the 9th February, 1940, so that information concerning them is not available for the complete year. On reference to the tables at the end of the Report the numbers and death-rates for each Sanitary District will be found.

SMALLPOX.—No case of Smallpox was recorded in 1940, a similar experience to that of last year. The last case recorded in the County was in 1930.

Scarlet Fever.—The incidence of this disease was lower than that for the previous year, 1,598 cases having been notified, compared with 1,927 in 1939. There was a notable decrease in the Urban Districts where 1,147 cases occurred as against 1,518, but an increase in the Rural Districts, the numbers being 451 and 409, respectively. Five deaths occurred in Urban Districts, but none in Rural Districts. The case rate per thousand of the population is 2·10 compared with 1·63 for England and Wales as a whole. The death-rate in the Urban Districts is 0·01. The prevailing type of the disease was mild.

DIPHTHERIA.—Slightly fewer cases were notified in 1940 than in the previous year, the numbers being 852 and 931, respectively, and the decrease was mainly in the Rural Districts where there were 168 notifications compared with 229 in 1939. Six hundred and eighty-four cases occurred in the Urban Districts as against 702 in the previous year. The case rate was 1·12 compared with 1·16 for England and Wales. Fifty-two deaths occurred in the Urban and 9 in the Rural Districts, which yield death-rates of

0.09 and 0.05, respectively. As will be noted, the prevailing form of the disease was more severe than scarlet fever, but comparatively speaking it was mild.

For several years, with the consent of the District Councils, the Assistant Medical Staff have undertaken the immunisation of school children in many parts of the County Elementary Education area. In December, 1940, a circular was issued from the Ministry of Health urging all District Councils to make special efforts to secure the immunisation of as many children as possible, in order to meet the increased risks which inevitably arise out of war conditions. For this purpose children are deemed to be those aged 1 to 15 years, and the County Councils were therefore asked to co-operate in the scheme through their School Medical and Welfare Services. Arrangements were made for the District Medical Officers of Health to obtain the toxoid for inoculation free of charge from Emergency Public Health Laboratories, and suitable propaganda was made available. In Staffordshire it was decided that the County Council should co-operate immediately by permitting their medical staff to undertake the immunisation of all children of suitable age in attendance at the Welfare Centres, and children in the 5 to 8 years age group in the schools, subject, of course, to parental consent. The question of extending the work in the schools, which is dependent on the absence of staffing problems. was left for later consideration. It must be clearly understood, however, that the District Councils are officially responsible for the scheme, including general supervision, records and the subsequent rendering of returns.

Facilities are provided in the County Laboratory for bacteriological investigations, and, in 1940, 16,400 specimens were dealt with, compared with 29,518 in the previous year. These included 75 virulence tests undertaken in special cases, and 3,398 tests in connection with a special investigation.

Enteric Fever.—Seventeen notifications of typhoid fever in Urban Districts and 15 in Rural Districts were made during the year, compared with 13 and 1, respectively, in 1939. The cases were sporadic and occurred in 20 of the 35 Sanitary Districts. Seven cases were reported from the Lichfield Rural District but they occurred at intervals during the period May to December. There were two deaths in the Urban Districts from this cause. The case rate was 0.04 compared with 0.07 for England and Wales.

The Ministry of Health Circular to District Councils in December relating to diphtheria immunisation, also dealt with immunisation against organisms of the typhoid group. Whilst it is considered that there is no occasion for mass immunisation for this

purpose, it was requested that facilities should be available for individuals the nature of whose employment exposes them to special risk, and for volunteers who desire it.

MEASLES.—As already mentioned, this disease became notifiable in February and from that time until the end of the year 4,807 cases were notified, 3,547 in Urban and 1,260 in Rural Districts. This gives a case rate of 6.30 compared with 10.24 for England and Wales. Eleven deaths occurred in the Urban Districts with a death-rate of 0.02, and two in the Rural Districts with a death-rate of 0.01.

Whooping Cough.—This disease also became notifiable in February, and during the remainder of the year 2,002 cases were notified, 1,606 in Urban and 396 in Rural Districts. The case rate was 2.63, whilst that for England and Wales was 1.34. There were 25 deaths in the Urban Districts and 3 in the Rural, the death-rates being 0.04 and 0.02, respectively.

ENCEPHALITIS LETHARGICA.—Six cases only, all in Urban Districts, were notified during 1940, but 7 deaths were reported, 5 in Urban and 2 in Rural Districts.

Poliomyelitis and Polioencephalitis.—In 1940, 35 cases of Poliomyelitis were notified compared with 6 in the previous year. Twenty-five were in Urban and 10 in rural Districts. The cases, which were sporadic, occurred in 19 of the 35 Sanitary Districts. In addition, 3 cases of Polioencephalitis were notified in Urban Districts and 2 in Rural. As regards deaths from these conditions, 2 occurred in Urban Districts and a similar number in Rural Districts.

DYSENTERY.—During the year, 42 cases of Dysentery were notified. They occurred in the following districts:—Aldridge U.D., 13; Brierley Hill U.D., 1; Sedgley U.D., 1; Stafford M.B., 4; Tettenhall U.D., 1; Wednesbury M.B., 5; Cheadle R.D., 3; Stone R.D., 14.

CEREBRO-SPINAL FEVER.—There was a notable rise in the incidence of this disease in 1940, 161 cases having been notified, an increase of 133 over the previous year. One hundred and thirty-three occurred in 22 of the 25 Urban Districts, and 28 in 8 of the 10 Rural Districts. The 1939 totals for the Urban and Rural Districts were 21 and 7, respectively. The case rate was 0.21 compared with 0.32 for England and Wales. There were 40 deaths in 18 of the Urban Districts, and one each in 5 of the Rural Districts. From the foregoing it will be gathered that the

incidence was widespread, and, as far as Staffordshire was concerned, except for the month of March, during which 44 notifications were made, cases were notified fairly evenly throughout the year, so that, generally speaking, the disease did not reach epidemic proportions.

The County Council have a scheme under which the services of Consultants are at the disposal of the General Practitioners, and special arrangements exist for the cerebro-spinal fluid to be sent to the County Bacteriological Laboratory in a portable incubator, because these organisms do not survive if sent through the post in the ordinary way. One hundred and twenty-four specimens of cerebro-spinal fluid were examined in the Laboratory during the year, together with 241 swabs, and typing was undertaken when possible.

The deaths from non-notifiable infectious diseases were as follows:—

DIARRHŒA AND ENTERITIS.—Fifty-eight deaths occurred in Urban Districts, and 11 in Rural Districts, in children under 2 years of age, the death-rates being 5.5 and 3.7, respectively, per thousand live births. The deaths occurred in 19 of the Urban Districts and in 6 of the Rural Districts.

INFLUENZA.—In 1940 there were 162 deaths in Urban and 45 in Rural Districts, as compared with 123 and 43, respectively, in 1939.

The number of cases of Notifiable Infectious Diseases, with the deaths, in the Administrative County during the 52 weeks are as follows:—

Diago			Noti	fications	Deaths.		
Diseas	ses		Urban	Rural	Urban	Rural	
Small-pox		 	M		_	_	
Scarlet Fever		 	1147	451	5		
Diphtheria		 	684	168	52	9	
Enteric Fever		 	17	15	2	-	
Measles		 	3547	1260	11	2	
Whooping Cough		 	1606	396	25	3	
Puerperal Pyrexia		 	74	14	4	4	
Erysipelas		 	187	92		*	
Cerebro-Spinal Feve	r	 	133	28	40	5	
Poliomyelitis		 	25		1	1 - 1 - 1	
Polioencephalitis			3	10 2	} 2	2	
Pneumonia		 	797	269	386	88	
Encephalitis Lethar		 	6		5	2 *	
Dysentery		 	25	17	*		

^{*} Not classified in Registrar-General's Return.

VACCINATION.

The ineffectiveness of the working of the Vaccination Acts is shown on examination of the Returns of the various Vaccination Officers for the year 1st January to 31st December, 1939, where it is seen that out of 10,744 children born during the year in whom vaccination was possible, only 26.2 per cent. were subsequently protected against smallpox.

TUBERCULOSIS.

The treatment scheme is administered by the Staffordshire, Wolverhampton and Dudley Joint Board for Tuberculosis, whose Annual Report deals extensively with all aspects of the work.

In view of its extreme importance, each year I call particular attention to the fact that the measures for the prevention of the disease are the concern of the District Councils, the Joint Board being responsible for treatment. Adequate housing, which is the main consideration, cannot, of course, have its proper place in times of national crisis, but the question should appear prominently in post-war planning. In the 1940 Report of the Joint Board it is stated that the usual investigation into environmental conditions revealed that 44.5 per cent. of the patients had a separate bedroom, as compared with 42.1 in the previous year. On the face of it this increase seems negligible but there has been a steady improvement over a period of years, for in 1928 the corresponding figure was 25.1.

Given below are the 1940 statistics for the Administrative County.

The following table shows new cases of tuberculosis, including primary notifications and cases which came to notice otherwise than by formal notification, and deaths from the disease, classified according to ages and sex:—

			New (CASES	DEATHS.				
AGE PERIODS.		Pulm	onary	Pulmo	Non- Pulmonary		onary	Non- Pulmonary	
		M.	F.	М.	F.	M.	F.	M.	F.
0—	100	a diag	ul <u>r</u> le	4	1	-	1	2 6	2
1		 1	7	19	19	1	2	6	13
5—		 7	2 8	27 17	18	-	3	8	5
0— ··· 5— ··		 42	43	11	14				
0		 48	44		10)	110	115		
5—		 85	74	5	6	116	115	10	12
35—		 68	25	2	1)	THE STATE OF	Marie I		
15—		 40	25	6 5 2 2 3	4)	75	19	5	6
55—		 37 5	9 7	3	1;	9	7	3	2
35 and upwards		 3	,	1		9	,	0	
Totals		 337	244	97	93	201	147	34	40

Three hundred and forty-eight persons died from pulmonary tuberculosis and 74 from other forms of tuberculosis, the death-rates being 0.46 and 0.10 per thousand of the population, respectively. The corresponding rates for 1939 were 0.48 and 0.10. In the general tables at the end of the Report the numbers of deaths and rates for each Sanitary District will be found.

The table which follows shows the death-rates in the Urban

and Rural Districts of the County from 1914:-

	De	eath Rate p Popul	er 1,000 of thation	he
Year	Phth	isis	Other fo Tuberc	
arroni e	Urban	Rural	Urban	Rural
1914	0.89	0.54	0.31	0.20
1915	0.94	0.67	0.34	0.29
1916	1.01	0.80	0.40	0.29
1917	1.01	0.74	0.34	0.31
1918	1.03	0.88	0.31	0.28
1919	0.83	0.61	0.22	0.30
1920	0.75	0.56	0.30	0.21
1921	0.80	0.53	0.23	0.21
1922	0.80	0.55	0.24	0.17
1923	0.75	0.58	0.25	0.22
1924	0.73	0.58	0.22	0.20
1925	0.83	0.49	0.22	0.14
1926	0.74	0.50	0.22	0.11
1927	0.73	0.44	0.21	0.22
1928	0.64	0.48	0.14	0.13
1929	0.76	0.54	0.15	0.12
1930	0.72	0.54	0.15	0.13
1931	0.78	0.52	0.17	0.13
1932	0.64	0.42	0.16	0.14
1933	0.72	0.50	0.14	0.08
1934	0.67	0.43	0.11	0.16
1935	0.67	0.35	0.13	0.08
1936	0.53	0.34	0.11	0.08
1937	0.60	0.41	0.13	0.11
1938	0.56	0.29	0.13	0.11
1939	0.52	0.35	0.09	0.11
1940	0.51	0.29	0.11	0.06

NOTIFICATION.

The following are particulars of the primary notifications made from 1915:—

1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
1233	1048	873	856	699	642	929	971	1029	974	1232	1400	1106
1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
1194	1017	1021	1129	1074	1011	929	825	831	858	789	726	669

In addition to the 669 primary notifications in 1940, 102 cases, compared with 104 in the previous year, came to knowledge from other sources, 67 of which were transfers from other areas. It was found that 24 unnotified cases had died, and in 3 further instances notification was made after death. These 27 deaths give a ratio of 1 in 15.6 of the total deaths; roughly, 16 out of 17 deaths were of cases notified under the Regulations before decease.

The total notifications are classified in a preceding table and the incidence in the sexes and age groups should be specially observed.

REGISTERS OF DISTRICT MEDICAL OFFICERS OF HEALTH.

At the end of the year the following cases were included in these registers:—

TOTAL	relatively subscribed	PULMONARY	avid sin	No	ON-PULMONA	ARY
CASES	M.	F.	Total	M.	F.	Total
6726	2349	2160	4509	1164	1053	2217

This indicates that there is one case of tuberculosis in every 113 persons, or 8.8 per thousand of the population. It also shows that, during the year, approximately one death occurred amongst 17 cases, which compares favourably with the expert opinion that for every death there are at least 10 persons suffering from the disease.

CANCER.

In the following table, the deaths from Cancer during 1940 in age and sex groups, in the Urban and Rural Districts of the County, are shown:—

	Url	ban District	s	F	Rural Distric	cts	C
Age Groups	Male	Female	Total	Male	Female	Total	Grand Total
0—	-	midelmi	Thore or	oler.	o hay s	di gina	-
1	16-00	0.00	-	1	1	2	2
5—	niske mo	dollar a	o leggino	T _200	pod <u>ze</u> lm	DATE OF THE	-
15—	30	52	82	6	13	19	101
15—	161	161	322	53	50	103	425
35—	218	184	402	80	86	166	568
Fotals	409	397	806	140	150	290	1096

The above table deals, of course, with cancer of all sites, but, this year, the Registrar-General has placed the deaths in four groups. The detailed numbers are shown in the tables at the end of the Report relating to each district and in the table dealing generally with deaths by age which appears on page 11. In each of the last three years there has been over 1,000 deaths from this cause and the total has slowly increased. As I have mentioned on previous occasions, this can largely be accounted for by the fact that people now live longer than they did a generation ago, and, as age advances, the liability to cancer is greater.

VENEREAL DISEASES.

Under the County Council scheme for the treatment of Venereal Diseases, agreements have been made with the North Staffordshire Royal Infirmary, Stoke-on-Trent; the Staffordshire General Infirmary, Stafford; the Royal Hospital, Wolverhampton; the Guest Hospital, Dudley; the Corbett Hospital, Amblecote; and the Walsall Corporation for the establishment of special clinics. A special arrangement also exists for the treatment of County cases at the Birmingham General Hospital, and there is an agreement with the Children's Hospital, Ladywood Road, Birmingham.

There is one whole-time Venereal Diseases Officer on the staff of the County Council who is responsible for the Clinics at Stafford and Stoke-on-Trent mentioned above.

As far as the Administrative County is concerned, the effect of the war on this service has caused little embarrassment. In view of circulars issued from the Ministry of Health stressing the importance of assistance to the Service Authorities in connection with the treatment of members of H.M. Forces, the position was reviewed, which revealed that at present the existing facilities are adequate.

Towards the end of 1940 the Staffordshire Insurance Committee organised a series of propaganda talks which were given in several areas of the County, and the County Council made a grant of £50 towards the cost. The lectures, which, on this occasion, were for women only, were supported by films obtained from the British Social Hygiene Council, and were generally well attended.

During the year, 719 Staffordshire patients attended for treatment for the first time, and the following detailed table indicates where it was obtained. The attendances shown in the appropriate column, however, relate to all patients and include visits by those referred for treatment in previous years.

CLINIC	Syphilis	Soft chancre	Gonorrhœa	Non-Venereal	Total New Cases	Attendances (all patients)
Birmingham General Hospital Burton-on-Trent General Infirmary Derby Royal Infirmary Dudley Guest Hospital Stafford (Staffordshire General Infirmary) Stoke-on-Trent (North Staffordshire Royal Infirmary) Stoke-on-Trent (Municipal Clinic, Shelton) Stourbridge (Corbett Hospital) Walsall (Manor Hospital) Wolverhampton Royal Hospital	9 2 	1	11 2 6 28 25 57 15 9 43 48	29 -2 59 19 83 14 5 37 100	49 4 8 100 47 173 30 19 109 180	1262 38 115 1877 4194 7485 784 776 5029 5111
Totals	126	1	244	348	719	26671

Free samples of Salvarsan or its substitutes are issued to General Practitioners, who comply with the necessary requirements, for the treatment of Staffordshire cases in their practices. At the end of 1940 the names of 40 doctors appeared on the approved list, 8 of whom took advantage of the provision during the year.

The County Council have arrangements for the admission of patients from the Administrative County to Cleveland House, Wolverhampton, an institution for the reception of expectant mothers suffering from venereal disease. In 1940, four such patients were treated, three of whom were admitted during the year.

W. D. CARRUTHERS,

County Medical Officer of Health.

September, 1941.

The state of the s TABLES

Table showing Population, Number of Persons per acre, Birth and Death-rates as well as the Death-rates at all ages and among Children under 1 year, and the Death-rates from Zymotic Diseases, Tuberculosis, Diseases of the Respiratory Organs, &c.

URBAN.

1		ļan	Congenital Mall tions, Birth Ini Infantile Diseas	0.27	1	0.21	0.59	0.27	0.10	0.55	0.23	0.50	0.65	98.0	0.21	0.42
		ц	Premature Bir	0.40	1	0.42	0.59	0.18	0.31	0-19	0.30	0.15	0.14	0.26	0.32	0.28
6			Nephritis	0-09 0-40	0.36	0.31	0.26	0.36	19.0	0.22	0.13	0.50	0.22	0.26	0.53	0.53
mlatic		OLA	Office Respirat	0-13	.45	0.10	0-50	0.14	1	0.27	0.30	0.15	0.14	0.10	0.53	0.16
Per 1,000 of Population		-	Pneumonia	0.75	1.09	0.42	88.0	0.72	0.72	0.52	0.57	1.08	0.50	0.31	0.32	0.75
0001			Bronchitls	1.28	0.72	0.83	1.28	1.49	0.82	0.82	1.20	1.18	0.72	0.67	0.74	0.95
Per			Сапсет	0-93	2.17	1.25	1.61	1-47	1.18	.34	.37	1.72	1.36	1.74	90-1	50
	-		Tuberculosis	0.18	1	0.21	ī	0.18	1	0.14 1	0-17 1	0.15	1	0.05	0-11	0.00
	u		Tuberculosis of Respiratory Sys	0.31	0.72	0.42	0.56	0.59	0.56	0.41	0.50	0.74	0.43	0.26	0.42	0.38
-	1	1,000	-	5.8	1	5.7	6.9	2.6	1	10-3	6-6	10.7	4.0	8.2	18.2	1.7
	. 1	1	Diphtheria	0-04	1	1	0.07	0.16	0.05	0-14	0.10	1	1	0.10	1	0.03
1	Zymotic Mortality	Population	Cough	0	1	1	0	0	0.26 0	0.11 0	0.13 0	0.15	1	0	1	0.05
	otic l		Scarlet Fever	1	1	1	1	1	-	0	-	0	1	1	1	0.05
	Zyn	10 000°	Measles	1	1	1	1	1	0.26	0.03	0.03	T	1	1	0-11	0-05
		Per 1	Paratyphoid	T	1	1	1	1	1	1	0	1	1	1	-	0.05
00			registered live Typhoid and	49	28	57	99	42	41	99	99	48	64	70	67	09
	ner	fact	Mortality in ch	3.0	6	6.	9.	9.	7	7	9.0	5.4	13.7	61	2.6	7
A			1,000 of Popul	-	5 12	2 16.9	9-91 0	0 13.6	3 13-4	3 12.	6	33	-	4 12.	_	3 14.4
-	Teq	1 94,	Crude death-ra	10.5	14.	.41	13	17.0 0.52 12.0	11.	=	Ξ	0.44 12.	5 12.	12.	13.9	113.
_	19d	1 94	Sitll-births, Ra	22.7 0.57	1	1.3	0.7	0.5	21.4 0.72 11.	18-4 0-90 111-	20.2 0.93	0-4	1.15	0.77	0.42	17-9 0-74 12-
	Te Te	e pe	Live Birth-rate		13.0	1.4 18.1 1.35 14.	16-3 19-0 0-72 13-0	17.0	21.4			3.3 18.5	17.8	12.2	17.2	17.9
	s	uos	Number of pers	2.4	4.1	1.4	16.3	7.5	3.1	4.5	9.1	13.3	3.4	4.5	5.6	7.2
	Population at all ages		Estimated 1940	22,640	2,759	9,597	30,520	44,340	19,480	36,520	29,960	20,300	13,930	19,520	9,474	63,890
	Popul at all		Census 1931 of areas as constituted after changes in Boundary	14,446	3,099	8,990	31,321	44,671	18,368	35,300	25,137	20,053	14,940	19,442	8,574	54,739
				:		:	:	:	:	:	:	:	:	:	:	:
				:		:	:	:	:	:	:	:	:	:	:	:
			DISTRICT													
			Disa		e .			Hill.	. sl				е.			
				Aldridge	Amblecote	Biddulph	Bilston	Brierley Hill	Brownhills	Cannock	Coseley	Darlaston	Kidsgrove	Leek	Lichfield	Newcastle

Deaths occurring during the year 1940, classified according to Diseases and Localities, together with Births occurring during the year.

URBAN

		All other Causes	23	33	13	37	56	25	44	62	33	25	53	16	74
	86	Other Violent Cause	1	-	1	-	13	00	5	23	14	ro.	9	io	31
		Road Traffic Accidents	6	-		00	11	01	1	-	-	60	61		00
		Sufcide	01	2		-	4		8	8	8	-	. 60	-	9
		Congenital Malform tions, Birth Injurie Infantile Discases	9	1	67	6	12	63	20	7	4	6	7	0.1	27
		Premature Birth	6		4	9	00	9	1	6	8	61	io	60	28
		Other Maternal Causes	2		-	-	-	- 1	64	_			64	-	60
	8	Puerperal and Post-abortive Sepsi			1	-	-	1	-	1	1	-	1	1	
		Nephritis	64	-	60	00	16	13	00	ব	4	60	10	5	34
		Other Digestive Diseases	7	-		10	4	0	7	10	63	60	00	ব	17
-		Appendicitis	-		1		8	-	-	-	2	-			10
1		Diarrhora under	60		-	4	C1		7	9	4	-	21	6	61
1	1	Duodenum Ulcer of Stomach o	3	T	-	4	4	60	01	10	64	T	6.0	T	4
1		Diseases Other Respiratory	60	4	-	9	9	T	10	6	00	64	- 01	10	10
		Pneumonia Postiles Postiles	17	8	77	27	32	7	61	17	22	1	9	60	200
		Bronchitis	29 1	2	00	39.2	99	16.1	30	36.1	24.2	10	13	7	61
	1	Other Diseases of Orculatory System	63	-	1	ıc.	=	63	37	-	67	61	10	9	=
		Heart Disease	30	00	15	84	104	90	16	54	35	38	68	-87	93
1	-	Vascular Lesions	14	3	18	36	411	22	13	28	26	16	22	20	73 1
1		Diabetes Intra-Cranial	8	-	61	7	65	57	7	9	4	63	60	-	10
	T	Of all other Sites	4	4	6	27	35	16	22	22	15	11	17	1	55
1		Of Breast	-		-	9	00	-	7	60	7	-	1	T	IO.
	Cancer	Dnodenum	-	T	-	10	14	77	12	6	00	4	6	-	14
	S -	Uterns (F)	10	-	_	9	00	67	-	7	00	65	-	67	67
-	(Of Buccal Cavity and Caophagus (M					_	-	-		-			-	-
-		Acute Infectious Encephalitis						1	1	1	1		1		
	slt	Acute Polioencephali	1	1	-		=	1	1	1	1		1	1	
		Measles					1	10	-	-	I			-	-
-		Induenza	3	-	4	2 17	1 15	5	=	4	-	10	3	10	123
		Tuberculosis Syphilitic Diseases	4	+	61	1	80	-	2	10	60	-	-	-	4
-		Other Forms of		2	4	1		1				9	20	_	
1	u	Tuberculosis of Respiratory Syster	-		4	17	26	=	15	15	15			4	24
1		Diphtheria	-	-	1	- 2	7	5	5	4 3	63		2		2
-		Whooping Cough		1	1	1		1	1	1	1	-	1	-	_
-	TOV	Cerebro-Spinal Fer	8	1	61	4	8	63	67	-	8	-	-	-	60
-		Paratyphold Fever	T	T	T	T	1	1	1	İ	1	1	i	1	-
-	18	Desths under I ye	25	-	10	38	32	17	45	34	18	16	17	11	69
-	səsn	Deaths from all ca	232 25	40	176 13 136 10	396 38	531	418 14 220 1		35634	249 18	251 16 168 16	242	4 132 11	787
-		: (ill Births	13	-	13	22	23	14	682 33 413	28	6	16	5		47
-	rths	For Death Rates	515 13	36	176	580	757	418	682	909	375	251	243 15	165	153
1	Live Births	For Birth Rates	515	36	174	580	755	417	673	909	375	248	239	163	1142 1153 47 787 69
-	1			:	:	:	:	:	:	:	:	:	:	:	-
					:		=		:	:	:		:		
		t	9	ote	d.		H	ills	×		no	ve		Р	tle
		District	idg	olec	Imi	ton	rley	wnh	пос	ley	ast	Sgr		fiel	cas
		Dr	Aldridge	Amblecote	Biddulph	Bilston	Brierley Hil	Brownhills	Cannock	Coseley	Darlaston	Kidsgrove	Leek	Lichfield	Newcastle
1			4	-4	**	-	H	-	0	0	-		-	-	-

URBAN .- continued

					UE	URBAI	Nco	-continued	T.													62
	Popul	Population	-	- 4			u :		Zs	motic	Zymotic Mortality	dity			-	4 -	Per 1,000	of	Population	tion		
	at all			nois	tion	uoja	actor		r 1,000	0	Population	lon	Per 1,000	шэтв					KAC		,	sətin
DISTRICT.	Census			einde	pula	emde	n chi	i avii		197		1	live	ls of	to sn sh			1	deate		Birth	ital i
Signature of the state of the s	of areas as constituted after changes in Boundary	Estimated 1940	Number of	Live Birth	still-births 1,000 of Po Crude deat	of to 000,1	comparabil	registered I	Measles	Scarlet Fer	Whooping	Diphtheria	Diarrhosa (under 2 years)	Tuberculos	Tuberculos	Свисег	Bronchitis	Pneumonia	Diseases Other Resp	Nephritis	Premature	Congenital tions, Birth Infantile D
Rowley Regis	41,235	44,510	11-6 19-7 0-67 12-0	9.7 0	1 29-		5-0 60	- 0	-	1	0-05	0.11	10-3	0.36	0.04	1-33	1.64	0.74	0-13	0-27	0.34	0.36
Rugeley	7,137	7,917	2.7	17.2 0.63		13.5 14	4.7 51		- 0.13	3	1	1	1	0.38	0.51	1.01	0.63	0.25	0.13	0.13	0.25	0.51
Sedgley	19,262	21,040	5.5	14.2 0	0.57	11.2 11	6-1	- 0	1	0.10	-	1	1	0.57	0.05	1.38	1.38	0.62	0.14	0.14	01.0	61-0
Stafford	. 30,851	35,320	6.9	6-9 15-3 0-37		11.2 11	11.9 55	5 0.03	13	-	90-0	90.0	1.8	0.40	0.14	1.33	0.74	0.65	0-17	0.52	0.34	0-17
Stone	6,399	6,511	4.0 1	4.0 14.7 0.31		14.9 13	3.6 7	73	-	1	-	-	10-4	0.61	1	1.69	0.92	19-0	0.31	0.31	0.31	1
Tamworth	111,711	12,070	4.5	4.5 17.0 1.08 13.1	1 80.		12.7	48	1	1	-	1	1	0.41	0.17	1.66	66-0	0.25	0.33	0.25	0-41	0.41 0.25
Tettenhall	5,967	6,912	2.8	16.2	1 28.0	12.6 11	1.	- +4	1	1	1	0.14	26.3	0.58	0.14	2.17	1.16	0.43	1	0.29	1	1
Tipton	. 35,814	35,050	16.2	22-0 0-66		12.4 15	5.5 51	-	-	0-03	8 0-09	0.34	3.9	16.0	60.0	1.34	1.00	98.0	0.14	0.37	0.37	0.37 0.26
Uttoxeter	6,234	7,060	2.1 1	15.2	0.14 1	12.9 13	13.9 56	9	1	1	1	1	1	0.45	0.28	1.42	0.71	0.71	0.14	0.28	0.57	0.57 0.14
Wednesbury	31,531	32,080	15.8	17.8	0.47	12.2 14	4.6 61		1	0.03	90-08	8 0.09	1.7	0.50	0.12	1.25	1.53	69-0	60-0	0.25	0.34	0-22
Wednesfield	901'6	14,830	5.9	22.9 0.61		10.7 14	14.0 65	2	1	1	1	0.13	5.9	19-0	0.13	0.81	19-0	88.0	0.50	0.50	0.13	0-81
Willenhall	. 26,421	28,610	10-1	19-1	0.49	12.4 15	5.4 66	9	- 0-03	~	-	0.14	5.5	18.0	0.10	1.68	1.33	0.56	0.07	0.21	0.21	0.59
Totals and Averages	530,648	574,840	5.8	18.3	0.66	12.1 14	4.0 56	00-0 9	00 0.05	2 0.01	1 0-04	60-0	5.5	0.51	0-11	1.40	1111	19-0	0.17	0.30	0.27	0.32
126 large towns in England		-	i	16-0	0.64	15.8	- 61	00-00	0.05	00-0	0 0-02	2 0.07	5.9	1	1	1	1	1	1	1	1	1
148 smaller towns, resident Population 25,000-50,000			ī	15.7	0.55 1	12.8	- 54	4 0.00	00 0.05	2 0-00	0 0.02	2 0.05	4-4		15		-	1	1	1	1	11

URBAN-continued

,		All other Causes	45	14	35	40	12	26	2	41	12	36	15	51	753	63
-	898	Other Violent Cam	24	-	1	6	64	6	07	26	4	-	-	21	265 7	
-	_	Accidents	- 60	12	3	6	77	-	0.1	4	00	67	61	60	93 2	
-		Suicide Road Traffic	00		03	-	-	1	01	61	T	7	-	60	-	
-		Infantile Diseases			- 72			-					-		in	
	'sə www.	Congenital Malfortions, Birth Injuri	16	4	4	9	-	8	-	6	-	7	12	17	186	
		Premature Birth	15	61	2	12	61	ıc	-	13	4	Ξ	67	9	57	
-		Causes	-	T	-	1	T	61	I	-		-	63		21 1	
-	sp	Post-abortive Seps Other Maternal	-	-	-	+	-	-	T	61	-	-	-	1	7	
-		Nephritis Puerperal and	12	-	60	6	61	8	- 61	63	57	00	0	9	70	
-		Diseases	- 8	10	25	00		7	9	_	**	-	9	0	-	
-		Other Digestive	-	-	-	-	-			-		-		3 10	3 173	
-		2 years Appendicitis	9 2	-	-	-	-	-	63	3		1 2	7	60	58 26	
_		Diarrhea under	- 2	2	2	60	-	-		60	-	- LO	_	4		
	10	Ulcer of Stomach o					- 01		-		-		~		57	
		Other Respiratory	9	_	00	9	01	4	- 1	5	-	8	3	64	97	
		Pneumonia	33	2	13	23	4	00	80	30	ıc	22	13	16	386	
-		Bronchitis	73	5	29	26	9	12	00	35	5	49	9	38	636	
-	U	Circulatory System	9	9	3	14	23	61	I	4	1	9	T	6	134	
-	-	Heart Diseases of	611	25	45	103	31	26	25	74	20	93	39	44	514	
-		Vascular Lesions	40 1	3	26	36 1	9	91	10	34	14	4	18	3	-	
		Intra-Cranial	4	10	2	4 3	-	3 1	-	8	-	5 34	2 1	7 23	3 592	
-	1	Of all other Sites	35	60	6	28	9	12	00	28	60	24	00	59	57.83	
	-	Of Breast	30	-	-	4	01	_	-	. 61	01	21	7	64	7	
cer	-	Dandenam	01	8	00	=	T	10	00	=	4	00	Ç4	12	59.8	
Cancer	-	Uterus (F)	-				-				-	-				
	a	Of Buccal Cavity and (Esophagus (A	9	-	7	4	3	60	80	9	-	4	1	4	109	
		Eucephalitis Acute Infectious	2	-	1	1	-		-	1	1	1	1	-	0.	
		Acute Poliomyelit	1	1	1	1	-	1	1	-	1	1	1	1	2	
		Measles		-	T	T	T	T	1		1	T	T	-	Ξ	
		Influenza	00	-	5	00	60	12		11	-	7	-	8	162	
	8	Syphilitic Disease	00	-	-	-	64	-	1	-	1	-	-	-	21	
		Other Forms of Tuberculosis	22	4	-	3		23	-	8	62	4	61	00	62	
	u	Tuberculosis of Respiratory Syste	16	3	12	14	4	5	T.	33	3	16	6	24	294	
		Diphtherla	- co			61			-	12		00	2	4	52	
		Myooping Cough	-	-	67	- 22	+	+	+	1 3	1	1 2	+		5 25	
-	19.13	Cerebro-Spinal Fe	- 61	-	T	4	+	-	+	-	1	63	-	4	40	
-		Paratyphoid Feve		-	T	-	T	T	T		1	1	1		67	
-	185	Deaths under I ye	53	7	6	30	1	10	TO.	39	9	35	22	36	92	
-	Marin Control		533	107	236	394	97	58	87	435	16	390	58	355	135	
Sa	snı	Desths from all ca		5 10			5	_	9		-		9 15		. 10524 10575 380 6943 592	
		Still Births	30		12	13		13		23		15		14	38(
the		For Death Rates	878	138	300	544	96	207	114	771	108	572	341	549	575	
Live Births			-	9	6	0	96	10	01	-	-	-	0		4 10	
Live		For Birth Rates	877	136	299	540	6	205	112	771	107	571	340	547	052	
-			:	:	:	:	1	:	:	:	:	r,	p	:	-:	
		HOT	50	>	٨	p		orth	hall		ter	spn	sfiel	hall	A	
-		DISTRICT	Rowley Regis	Rugeley	Sedgley	Stafford	ne	Tamworth.	Tettenhall	Tipton	Uttoxeter	Wednesbury	Wednesfield	Willenhall	Totals	
-		. 4	Ro	Rui	Sed	Sta	Stone	Tar	Tet	Tip	Utt	We	We	Wil	1	

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25	0.20 0.60 0.20 0.20 0.60 0.10	0.31 0.32 0.24
2ymotic Mortality 2ymotic Mortality 2ymotic Mortality 3 2 2 2 2 2 2 2 2 2	0.50	0-31
10.53 1.15 1.25	0 0.20 0.20	0-31
10.5 2ymotic Mortality 1.000 of Population 1.000 of Popula	0 0.20	1
10.000 of Population	0	0.50
10.000 of Population	9	.47
12.3 1.2	20 0	0.86 0.47
10.53 3.5 0.00	1.61	
1000 1000	-	0.06 1.55
11	0	0.0
1	0.20	0.59
1	i	3.7
Adjusted death-rate by comparability factor of compara	01-0	0.05
Adjusted death-rate by comparability factor of compara	1	0.05
Adjusted death-rate by comparability factor of compara	1	1
Adjusted death-rate by S.	1	0.01
Adjusted death-rate by S.	1	1
	17	52
	11.9	11.8
100 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10.2	1 -
O O O O O O O O O O O O O O O O O O O	14-0 0-30 12-1	3-1 15-8 0-63 11-7
2 4 5 6 5 6 6 6 6 6 6 6 6 7 7 8 84ill-births, Rate per Street per	4-0	5.8
Acan Area per	5.7 1.	1 =
	u,	60
Population at all ages ed all ages ages ary 21,580 ary 31,730 ary 16,780 ary 13,690 ary 13,580 ary 13,580 ary 13,380	096'6	187,660
Census at all ages of areas as constituted after changes in Boundary 28,102 3 14,435 1 16,872 1 13,850 1 11,945 1 11,945 11	906'8	169,704
::::::::	:	1 :
TENER FILE STREET	1102	Fotals and Averages
Ck ee dd dd y y		Ave
Dism Cannock Cheadle Leek Lichfield Newcastle Seisdon Stafford Stone Tutbury	Jttoxeter	pu

All other Causes

> Purposes. One for Death-Rate Add *For Birth-Rate.

Table showing the number of cases of certain Infectious Diseases notified in each sanitary area during the 52 weeks ended 28th December, 1940, and the Attack-Rates per 1,000 of the population.

URBAN

alitis ica.	Encephs Cases		1	1	1	1	1	-	1	-	1	60	1	1
sitile	Poliomy Cases	1	1	2	61	1	60	61	2	1	-	. 1	2	1
	Cerebro- Fever C	oo	10	61	31	6	8	7	61	10	-	10	-	=
Puerperal Pyrexia	Rate	0.13	0.72	1	91.0	0.05	0.26	0.33	0.27	0.10	0.14	i	0.21	0.03
Puer	Cases	3	2	1	25	-	ıc	12	8	61	¢1	1	2	21
Pneumonia	Rate	1.77	1.81	2.08	3.11	88.0	2.62	0.49	2.17	2.07	1.22	0.50	1	1.02
Pneu	Cases	40	. 2	20	98	39	51	18	65	42	17	+	1	65
• Measles	Rate	3.93	0.36	10-52	1.83	0.61	29.26	15.72	2.74	0.54	2.87	22.80	9.71	5.48
*Me	Cases	68	-	101	99	27	570	574	82	111	40	445	92	350
Erysipelas	Rate	0.49	1	0.83	0.39	0.34	0.92	0.30	0.37	0.15	98.0	0.05	1	60-0
Erys	Cases	==	1	œ	12	15	18	11	11	8	12	-	1	9
heria	Rate	08.0	2.17	0.94	1.08	2.41	0.62	1.56	2.57	0.59	0.36	2.35	0.63	0.31
Diphtheria	Cases	18	9	6	33	107	12	57	77	12	10	46	9	20
Vhooping Cough	Rate	6.05	2.17	3.23	2.88	3.16	10-27	4.30	4.17	5.07	1	0.26	2.64	1.10
*	Cases	137	9	31	88	140	200	157	125	103	1	3	25	70
Fever	Rate	1.99	2.90	3.13	1.93	1.62	3.29	1.01	1.87	2.07	1.72	1-43	1.37	2.13
Scarlet	Cases	45	œ	30	59	72	64	37	56	45	24	28	13	136
Fever	Rate	60-0	0.36	0.10	1	0.02	Ī	0.03	0.07	0.05	1	0.05	0-11	0.05
Enteric Fever Scarlet Fever	Cases	61	-	-	1	-	1	-	63	-	1	-	-	-
Estimated Population	calculating rates	22,640	2,759	9,597	30,520	44,340	19,480	36,520	29,960	20,300	13,930	19,520	9,474	63,890
		:	:	:	:	:	:	:	:	:		i	1000	
District		Aldridge	Amblecote	Biddulph	Bilston	Brierley Hill	Brownhills	Cannock	Coseley	Darlaston	Kidsgrove	Leek	Lichfield	Newcastle

* Became notifiable 9.2,1940.

URBAN-continued

Cases

	alitis	Enceph Cases	1	1	1	1	1	1	1	1	1	-	1	1	67
	1/2	Poliom	-	1	01	61	1	61	-	61	I	-	1	-	
	Cerebro-spinal Fever Cases		6	4	61	16	-	4	-1	5	1	10	1	13	
	Puerperal Pyrexia	Rate	0.03	1	0.05	0.14	1	80-0	1	0.29	0.57	60-0	0.13	0.10	
		Cases	1	1	-	5	1	-	1	10	4	60	61	0	
	Pneumonia	Rate	1.03	1.01	0.43	0.54	1.23	2.57	1.88	2.80	0.57	1.50	0.54	1.54	
		Cases	46	00	6	61	œ	31	13	86	4	48	œ	44	
	*Measles	Rate	3.57	20.97	0.05	14.35	2-61	3.15	6.37	1.88	4.82	1.25	0.81	0.87	
		Cases	159	166	-	507	17	38	44	99	34	40	12	25	
	Erysipelas	Rate	0.38	1	0.48	0.17	0.15	0.33	-	0.43	0.28	0.50	0.34	0.10	
nen		Cases	17	1	10	9	-	7	1	15	67	91	20	0	2.1940.
continuea	Diphtheria	Rate	0.65	88.0	0.62	96-0	0.77	0.58	0.14	2-77	0.42	1.62	1.08	0.42	notifiable 9.2.1940.
L'DAN-C		Cases	29	7	13	34	10	7	-	97	8	52	16	12	e notif
OFF	*Whooping Cough	Rate	1.82	1.01	2.61	3-03	6.14	0.33	1.16	89.0	2.41	0.87	3.84	3.15	* Became
		Cases	81	00	55	107	40	**	œ	24	17	28	57	06	*
	Fever	Rate	2.13	2.78	1.85	2.43	0.15	2.57	1.01	2.65	1.42	3.09	1.08	1.19	
	Scarlet	Cases	95	22	39	98	-	31	10	93	10	66	91	34	
	Estimated Enteric Fever Scarlet Fever	Rate	-	=1	0.05	90-0	1	-1	0.14	1	0.14	1	1	1	
		Cases	ı	-1	-	27	1	1	1	1	-	1	1	1	
	Estimated Population 1940 for calculating rates		44,510	7,917	21,040	35,320	6,511	12,070	6,912	35,050	7,060	32,080	14,830	28,610	
	DISTRICT		:	:	:	:	:	:	:	:	:	:	:	-	
			Rowley Regis	Rugeley	Sedgley	Stafford	Stone	Tamworth	Tettenhall	Tipton	Uttoxeter	Wednesbury	Wednesfield	Willenhall	

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3	Encephalitis Lethargica Cases			1	1	1	1	1	1	- 1	1	-
7	sitile	-	1	1	4	1	60	-	1	1	-	
	leniqs-	6	80	1	60	60	-	67	-	9		
	Puerperal Pyrexia	Rate	0.19	0.16	90-0	0.03	1	0.05	0.07	0.07	1	I
		Cases	4	3	-	-	1	-	1	-	1	. 1
The state of the s	Pneumonia	Rate	1-62	2.52	0-44	2.18	1.55	1.33	0.73	0.74	0.30	0.50
100		Cases	35	08	7	70	26	25	10	10	+	2
The state of the s	selsa	Rate	91.9	1.67	2.06	16-67	4-47	3.89	13-95	6.26	5.83	0.30
	*Measles	Cases	133	53	33	536	75	73	161	85	78	3
1	pelas	Rate	0.42	0.85	0.37	96.0	0.54	0.32	0.07	1	0.07	0.20
-	Erysipelas	Cases	6	27	9	31	6	9	-	-	1	61
	Diphtheria	Rate	2.87	0.28	69-0	1-00	0.12	1.49	0.51	0-44	09-0	0.30
		Cases	62	6	==	32	61	28	7	9	8	3
	*Whooping Cough	Rate	3.20	2.80	90-0	1.37	1-07	2.18	1.39	99-0	2.77	6-93
		Cases	69	68	-	44	18	41	19	6	37	69
-	Estimated Enteric Fever Scarlet Fever	Rate	1.62	2.58	0.75	4.76	1.43	2.13	3.07	69-0	3.89	0.30
		Rate Cases	35	82	12	153	24	40	42	8	52	3
-	Fever		0.02	0.03	1	0.22	1	0.05	0.15	1	0.22	I
-	Enteric	Cases	1	-	1	7	1	-	67	1	60	1
-	Estimated Population 1940 for calculating rates		21,580	31,730	16,040	32,150	16,780	18,770	13,690	13,580	13,380	096'6
-		:	:	:	:	:	:	:	:	:	-	
-	DISTRICT		Cannock	Cheadle	Leek	Lichfield	Newcastle	Seisdon	Stafford	Stone	Tutbury	Uttoxeter

* Became notifiable 9.2.1940.