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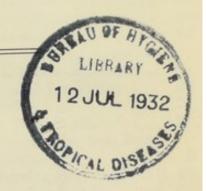




ADMINISTRATIVE COUNTY OF ESSEX.

REPORT

OF THE



MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1931.

WILLIAM A. BULLOUGH, M.B., M.Sc., D.P.H..

COUNTY MEDICAL OFFICER OF HEALTH.

Chelmsford:

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ADMINISTRATIVE COUNTY OF EASIES



LILIAM A. BULLOUGH, M.B., M'Sel, D.P.H.

COUNTY MEDICAL OFFICER OF HEALTH

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PREFACE.

To the Chairman and Members of the Essex County Council.

I have the honour to submit to you my Thirteenth Annual Report for the Administrative County of Essex for the year 1931. This is the 42nd Annual Report which has been issued. It is devoted in the main to a summing-up of the year's work for which the County Council is primarily responsible. For the convenience of the general reader I have summarised in this Preface the more important facts and incidents.

The Census carried out in 1931 has revealed the fact that the population of the Administrative County has increased 30.3 per cent. since the 1921 Census, and is now 1,198,601. There is only one other County in England and Wales with a higher rate of increase.

The birth-rate for 1931 was 16.1, as compared with 16.8 for the previous year, the total number of births being 19,330 and 18,700 respectively.

There was an increase in the death-rate from 9.9 in 1930 to 10.4 in 1931. The increase for England and Wales, however, was greater, being from 11.4 to 12.3 respectively.

There was also an increase in the infant mortality rate (i.e., death-rate among infants under one year of age) from 45 in 1930 to 52 in 1931. The rate, however, may be regarded as satisfactory when compared with the rate of 66 for England and Wales.

In respect to infectious diseases, the outstanding feature of the year was the extensive outbreak of Paratyphoid Fever in the Epping District. There were 374 cases of Typhoid or Paratyphoid Fever notified throughout the Administrative County, and 311 of these were associated with the outbreak at Epping. The disease was shown as the immediate or antecedent cause of death in nine of these cases. Fortunately, the outbreak was quickly traced to the milk supply from a farm in the Epping Rural District, and adequate steps were taken at the earliest possible moment at the farm to remove all sources of infection, and to prevent further infection of the milk supply.

Smallpox (Variola Minor) was much less prevalent during the year, the number of notifications falling from 602 in 1930 to 195 in 1931. There were no deaths from this disease during the year.

Notifications of all forms of tuberculosis showed a further increase from 1,524 in 1930 to 1,676 in 1931, the notification rates being 1.37 and 1.40 respectively. There was also a slight increase in the death-rate from 0.75 to 0.78. The total number of cases on the registers of local Medical Officers of Health increased from 11,100 to 11,476. This increase in number of cases resulted in a greater demand for institutional accommodation, necessitating the provision of an average number of 503 beds as compared with 474 during the previous year.

For the first time I am able to include in the Annual Report particulars of a full twelve months' working of the new Sanatorium at Black Notley, where the number of beds was increased from 164 to 184 by the provision of a surgical block for adult males, which was opened on 30th March, 1931. The staff of the Sanatorium has also been strengthened by the appointment of Dr. Franklin Wood as Part-time Consulting Radiologist under whose guidance skiagrams of first-class quality have been readily obtained, and have proved of great assistance in diagnosing early cases of tuberculosis. The results obtained from the treatment of patients at the Sanatorium have more than justified the time and money spent upon providing the County with an up-to-date Sanatorium, which is second to none in the country.

Additions have also been made to the Harold Court Sanatorium for pulmonary cases adult males, by the provision of a pavilion accommodating 20 beds; 10 of these beds replaced beds in an old pavilion which has been discarded, giving a net increase in the number of beds from 60 to 70. Further accommodation for this type of patient is needed, and the matter is receiving consideration by the Committee.

The area for which the County Council is responsible for the administration of the Maternity and Child Welfare Acts and the Notification of Births Acts was extended during the year by the inclusion of the Purfleet Urban District. Alterations to the County Council's scheme, which was surveyed during the year by a Medical Officer from the Ministry of Health, included the establishment of the first series of Ante-natal Clinics at five Centres, the provision of Child Welfare Centres in five new areas, the revision of the schemes for home helps and the payment of travelling expenses of mothers to and from Centres, the provision of beds at the Oldchurch Hospital, Romford, and the Public Assistance Institution, Chelmsford, for the treatment of puerperal sepsis and allied conditions.

The question of giving advice on birth control has been carefully considered in the light of a memorandum from the Ministry of Health, and the Committee authorised Lady Medical Officers on the staff of the County Council to give appropriate advice in the circumstances laid down in the memorandum from the Ministry of Health.

For the guidance of voluntary workers and others, a brochure No. C.W.42 was issued in January, 1931, giving full details of the various schemes in operation in the Administrative County of Essex.

A further reduction has taken place in the area in which the County Council undertakes the administration of the Midwives Acts, 1902-1926, and the Nursing Homes Registration Act, 1927, by the delegation of the powers under those Acts to Colchester Borough and Walthamstow Borough, in addition to the Boroughs of Ilford and Leyton to whom similar powers were delegated last year.

In order to raise the standard of midwifery work throughout the County, a scheme has been prepared with a view to rendering assistance to suitable independent midwives for taking a post-graduate course in midwifery, and the agreement between the Essex County Council and the Essex County Nursing Association has been amplified so as to make provision for the sending of a number of the senior nurses each year for a similar course. Close and helpful co-operation has again been maintained between the Essex County Council and the Essex County Nursing Association.

The scheme for the supervision and treatment of orthopædic cases has continued to operate successfully, and the staff has been strengthened by the appointment of a second whole-time Orthopædic Masseuse in place of part-time Masseuses at Romford and Gravs.

Increasing attention to the housing conditions of the working classes has been given as called for by the Housing Act, 1930, which is an endeavour on the part of the government and legislature to do everything possible to put an end to unsatisfactory housing conditions, "the continuance of which is nothing less than a social menace." Local Sanitary Authorities must themselves take the leading part in this campaign. A separate part of the Act has been set aside for Rural Districts which aims at securing the co-operation of County Councils and Rural District Councils in overcoming the shortage of houses and the removal of unsatisfactory housing conditions. As required by the Act, the County Council has already begun to inform itself of the housing situation in each Rural District in the County and is now considering the needs and proposals of these districts. Returns from Rural Districts show that at the end of 1930 there were 2,297 houses partially unfit for human habitation, 685 totally unfit for human habitation, and 190 overcrowded.

In pursuance of the powers conferred upon County Councils by the Milk and Dairies (Consolidation) Act, 1915, a further milk sampling campaign was undertaken, and the results of the biological examination show that 8.4 per cent. of the samples contained tubercle bacilli as compared with 13.4 for the previous year. Duplicates of these samples were submitted to the coliform bacteria test, and 36.0 per cent. (34.6 per cent. in 1930) were found to contain coliform bacteria in 1/1000th c.c. arbitrarily adopted for the present as an easily attainable standard of cleanliness. These latter results are disappointing, when it is remembered that Clean Milk Competitions have been an annual feature in this County for over ten years. If every milk producer complied with the requirements of the Milk and Dairies Order, 1926, all the milk supplies would readily comply with a much higher standard than that at present adopted.

I have again included in this Report a section dealing with the work undertaken for the Public Assistance Committee, and reference is made to some of the important matters which have called for detailed investigations and reports. Particulars are recorded on pages 74 to 81 of the accommodation now available for the sick in the eleven Public Assistance Institutions in the County. The development and extensions contemplated for 1931 had to be postponed on account of the national financial crisis and the following important matters mentioned in my previous Annual Report await consideration:—

- (a) The desirability of discharging certain of the transferred functions through a Committee of the County Council other than the Public Assistance Committee to which most of the transferred powers otherwise have been referred.
- (b) The advisability of providing certain forms of medical assistance under the Public Health and other Acts mentioned in Section 5 (1) rather than under the Public Assistance Committee and the Poor Law.

- (c) The possibility of appropriating any or all of the transferred Institutions to hospital authorities, and to administer them under one or other of the Public Health Acts, &c.
- (d) The making of suitable arrangements with autonomous Education and Child Welfare Authorities. This will need special consideration if and when any action is taken under (b) above.

Experience seems to show that before steps can be taken to deal with the suggestion contained in (c) above, the whole of the Public Assistance Institutions will need to be carefully surveyed with the object of re-classifying the patients and the accommodation available. Obviously such a survey will entail a large amount of detailed work which cannot be undertaken by the present staff available.

It is with deep regret that I report the great loss to the Department caused by the death of the late Dr. Archibald Gardiner, who was appointed First Assistant County Medical Officer as recent as October, 1931. Dr. Gardiner had been on the staff of the County Council as Assistant County Medical Officer since June, 1928, and also undertook the duties of Medical Officer of Health for the Urban District of Chingford from March, 1930.

Special reference must also be made to my predecessor, Dr. John C. Thresh, whose death has occurred at the time of writing this Preface. Dr. Thresh first became associated with the Essex County Council in 1890, when he was invited to consider the Annual Reports of the local Medical Officers of Health, and to submit as summary. He was next asked to attend the quarterly meetings of the Contagious. Diseases (Animals) Committee, and to advise them on any public health matters which might be referred to. In 1893, he was appointed part-time County Medical Officer of Health, which position he held until 1919, when, at his own request, made some years previously, he retired from office, but voluntarily agreed to become Consulting County Medical Officer of Health.

Dr. Thresh undoubtedly had the interests of the County of Essex at heart—he was ever ready to assist and advise Councils and officials on all matters affecting public health, and he was alive to the importance of each new phase of County health work, in addition to his researches and writings on water supplies and sewage disposal in which he was supreme.

I have great pleasure in recording my appreciation of the confidence and support given to me by the Chairman and Members of the Public Health Committee To all the Medical Officers of Health and other officials of the local Sanitary Authorities, to the Medical, Dental, Nursing and Clerical Staffs, my best thanks are due for their efficient services. I am especially indebted to the Deputy County Medical Officer, Dr. T. P. Puddicombe, for his loyalty and support.

W. A. BULLOUGH, County Medical Officer.

Public Health Department, County Hall, Chelmsford. 31st May, 1932.

PUBLIC HEALTH AND HOUSING COMMITTEE.

Chairman-Alderman A. M. Mathews.

Vice-Chairman-Alderman F. D. Smith.

ALDERMEN-

A. Brooks, J. H. Burrows, C. W. Daines and A. Porter.

COUNCILLORS-

J. R. Adams, Mrs. C. B. Alderton, P. Astins, Lieut.-Col. E. N. Buxton, A. G. Giller, H. Compton Guy, R. J. Hunt, Mrs. J. H. Lester, J. C. Mead, J. Parish, H. F. Pash, W. T. Potts, C. S. Richardson, J. W. Rigby, Dr. J. H. Swanton, G. J. Wetton, Mrs. B. W. Williams, H. E. Wood, E. G. Wright and E. J. Wythes.

MEDICAL AND NURSING SERVICES JOINT SUB-COMMITTEE.

ALDERMEN-

A. Brooks, J. H. Burrows (*Chairman*), C. W. Daines, E. A. Hibbs, A. M. Mathews, A. Porter and F. D. Smith.

COUNCILLORS-

Dr. J. P. Atkinson, Mrs. B. W. Williams and E. J. Wythes.

Co-opted Member-Mrs. K. M. E. Bell.

PUBLIC ASSISTANCE COMMITTEE.

Chairman—Alderman Alfred Brooks,

Vice-Chairman—Col. Gilbertson Smith, C.A.

Mrs. C. B. Alderton, A. R. Adams, Chas. Asplin, J. E. Ball, G. T. T. Bartram, A. Bradridge, E. G. Bratchell, Mrs. A. A. F. Brooks, J. H. Burrows, Rev. B. C. Cann, H. C. Carruthers, Mrs. C. C. Chisholm, A. L. Clarke, Mrs. C. Custerson, C. W. Daines, J. R. Furze, H. G. J. Foyster, A. G. Giller, A. W. Green, F. W. Green, E. A. Hibbs, Mrs. J. H. Lester, E. Luckin, Mrs. E. E. Maley, Col. A. E. Martin, H. J. Mitchell, Miss M. L. Mathieson, E. A. Mundy, T. Philpot, A. Porter, J. W. Rigby, J. Russell, W. C. Russell, J. T. Sanders, F. D. Smith, A. G. K. Serpell, F. G. Seabrooke, Mrs. H. M. Tabor, H. B. Turner, H. L. Usborne, O. Waters and Mrs. E. M. Wise.

MEDICAL OFFICERS OF HEALTH.

The following changes in the list of Medical Officers of Health given in my Annual Report for the year 1930, took place as shown below:—

Urban Districts-

Braintree ... Dr. J. S. Bradshaw appointed 1st January, 1931, in place of Dr. P. J. Gaffikin resigned.

Burnham-on-Crouch Dr. E. Miles appointed 17th April, 1931, in place of Dr. R. Lloyd, Acting Medical Officer of Health.

Chingford .. Dr. L. S. Fry appointed Acting Medical Officer of Health in place of Dr. A. Gardiner appointed First Assistant County Medical Officer 12th October, 1931.

Rural Districts-

Braintree .. Dr. J. S. Bradshaw appointed 1st January, 1931, in place of Dr. P. J. Gaffikin resigned.

Dunmow .. ,, ,, ,, ,,

Stansted .. Dr. S. R. Richardson appointed March, 1931, in place of Dr. R. F. Dunn retired.

STAFF.

A detailed list of the Medical and Health Visiting Staff was set out on pages 4—17 of the Report for the year 1930.

The following alterations and additions were made during 1931:—

(1) Medical Staff.

Dr. Mary D. Rankine (Central Staff) resigned in September, 1931; Dr. Archibald Gardiner (M.B., Ch.B., D.P.H., M.M.S.A.), Combined Medical Officer, Chingford, who took up duty as First Assistant County Medical Officer on 12th October, 1931, died on 22nd December, 1931; Dr. L. S. Fry, Combined Medical Officer, Waltham Holy Cross, was appointed temporarily as Combined Medical Officer, Chingford.

Dr. Charlotte Brown (Dagenham) retired in March, 1931; Dr. G. M. D. Lobban (Romford and Hornchurch) resigned September, 1931; Dr. J. S. Harper (M.B., Ch.B., D.P.H.) commenced duty at Harold Court, &c., September, 1931; Dr. E. Miles (M.B., Ch.B., D.P.H.) was appointed Combined Medical Officer, Burnham-on-Crouch, April, 1931; Dr. J. C. Sleigh (M.B., Ch.B., D.P.H.) was appointed August, 1931, to replace Dr. J. C. H. Mackenzie at Black Notley and Chelmsford, who resigned; Dr. O. C. Dobson (M.D., D.P.H.) commenced July, 1931, as Junior Assistant County Medical Officer and resigned December, 1931, his place being filled by Dr. J. Hatton (M.D., Ch.B., D.P.H.) in January, 1932.

- Dr. C. L. Williams, Medical Officer of Health, Barking, ceased to act as Tuberculosis Officer for the County Council in that district in January, 1932.
- Dr. G. Franklin Wood (M.A., M.B., B.Ch., D.M.R.E. (Cantab.), L.R.C.P.) was appointed Consulting Radiologist at Black Notley Sanatorium in March, 1931.
- Dr. D. H. Haler and Dr. E. J. Legerton Smith, part-time medical practitioners performing County Council duties, also terminated duty during the year, and at the time of writing the following are employed part-time by the County Council:—Drs. Marjorie Bartlett, Sarah Boyle, T. G. Cunningham, M. E. Fox, Annie Gardiner, S. D. Goodwill, A. A. Mackenzie, F. A. M. Nelson, E. Pirrie and J. B. Ratcliffe.

(2) Health Visitors.

The following changes took place in the health visiting staff for the reasons stated:—

		Date		
		commenced	District and	Reason for
Name.	Qualifications.	duty.	duties.	change.
G. M. White	New H.V. Cert. G.N.T. and Cert. Midwife	14-9-31	Relief H.V. (H.V. S.N. T.N.)	New appointment.
M. A. Hughes	,, ,, ,,	1-4-31	Brentwood (H.V., S.N., T.N.), from 14-9-31	Vacancy.
H. M. Nixon	,, ,, ,,	14-9-31	Rayleigh (H.V., S.N., T.N.)	New appointment.
E. Darrell	New H.V. Cert. and Cert. Midwife	June, 1931	Tilbury (S.N., T.N.)	
E. Plummer	,, ,,	,,	,, ,,	Vacancy.
N. M. Francis	New H.V. Cert. G.N.T. and Cert. Midwife	22-1-31	Dunmow (H.V., S.N., T.N.)	"
L. Thickens	New H.V. Cert. and Cert. Midwife	19-1-31	Burnham-on-Crouch (H.V., S.N., T.N.)	,,
N. D. Kelly	New H.V. Cert., G.N.T. and Cert. Midwife	. 9-11-31	Maldon (H.V., S.N., T.N.)	"
M. E. Lamb	G.N.T. and Cert Midwife	1-1-32	Chelmsford (S.N., T.N.)	**
R. E. Allcorn	Bd. of Ed. Cert	1-4-31	Purfleet (H.V.)	County Council
I. Gibson	Bd. of Ed. Cert	1-4-31	Purfleet (H.V.)	Velfare work in Purfleet U.D. from 1-4-31.
J. Cunningham	Cert. Midwife	27-4-31	Leyton (T.N.)	New appointment for Ilford Area—Leytor nurse transferred.
A. Trounce	Bd. of Ed. Cert	2-11-31	Waltham Holy Cross (S.N. & T.N.)	Additional by arrangement with Waltham Holy Cross U.D.C.

PART I.

ACREAGE AND POPULATION.

- (a) ACREAGE. The area of the County as shown by the Census 1931, was 32,696 acres, as compared with 964,443 acres in 1921. The reduction of 1,747 acres due to encroachment by the sea, and to a revision of the area of the County by the Ordnance Survey Department since the Census of 1921.
- (b) POPULATION. The table below shows the Census 1921 and 1931 populations well as the Registrar-General's estimated population for 1931.

				POPUL	LATION.		No. of	No. of	No. of	No. of	
	Area in	Acres.				-General's te, 1931.	Per-	Acres per	in- habited	families or	Rate
	Census	Census	Ce	nsus	_	For	- per	per-	houses	separate	able
	1921.	1931.	1921.	1931.	For Birth- rate.	Death- rate.	(Calcu on 1 Cens	931	(Census 1921).	Occu- piers (Census 1921).	value 1931.
unicipal doroughs (9)	45,754	45,702	468,214	543,938	547,199	543,269	11.9	0.08	92,649	108,219	0
rban Districts (28)	97,748	97,948	219,533	375,210	374,721	373,731	3.8	0.26	35,585	39,612	26,924,600
ural Districts (17)	820,941	819,046	232,394	279,453	278,650	278,100	0.3	2.93	63,895	65,769	2,63
	964,443	962,696	920,141	1,198,601	1,200,570	1,195,100	1.2	0.80	192,129	213,600	

A penny rate produces £27,758.

It will be seen from the table above that the population of the Administrative ounty has increased by 278,460 during the last intercensal period, equivalent to an acrease of 30.3 per cent. In only one other County was there a higher percentage of acrease, and the figures give some indication of the tremendous flow of population ato Essex, chiefly from the London area.

In Table XXIX. in Part V. of my Annual Report for the year 1930 is shown articulars of the 1931 census populations of the Urban and Rural Districts in the ounty, and similar information is again included this year for reference purposes.

PHYSICAL FEATURES AND GENERAL CHARACTER OF THE COUNTY.

This remains the same as set out in my Report for 1930. With the exception of ne Asbestos Works at Barking, none of the industries in the County can be said to ave any serious influence on the health of those engaged in them.

VITAL STATISTICS.

The following table gives the chief vital statistics compared with those for England and Wales during the year 1931, and also for the preceding quinquennial period:—

		Esse	x.	England and Wale				
		1927-1931.	1931.	1927-1931.	1931.			
Birth-rate per 1,000 population		16:3	16.1	16:3	15.8			
Death-rate	***	10.5	10.4	12.2	12.3			
Zymotic death-rate per 1,000 population		0.3	0.2	Not av	ailable.			
Infant mortality rate per 1,000 births		50	52	67	66			

NOTIFICATION OF INFECTIOUS DISEASES.

The summary of notifications of infectious diseases in the various Sanitary Districts during 1931, together with the attack rate per 1,000 population, is given in Table XXIX. in Part V. of the Report.

Excluding 1,676 notifications of Tuberculosis, it will be noted that there were 11,404 persons notified as suffering from infectious diseases, the attack rate for the Administrative County being 9.5 per 1,000 population, as against 8.4 for 1930.

Typhoid or Paratyphoid Fever.

During the year under review 374 cases of Typhoid or Paratyphoid Fever were notified in the Administrative County, this being the highest figure since the year 1905, when the number of notifications reached 398. The Registrar-General records 15 deaths from this disease.

Outbreak of Paratyphoid Fever at Epping.

There was an outbreak of a mild type of Paratyphoid Fever in the south-western portion of the County in the early part of the year, and the following table shows the number of cases notified and the number of deaths associated with this outbreak.

TABLE I.

Showing Notifications of Paratyphoid Fever and Deaths associated with the outbreak in the Epping District.

			N	UMBER	of No	TIFICATI	ions.		
Sanitary District.	No. of Deaths.	Week ended Jan. 31st.	7th.	Week Febr 14th.		28th.	Week Ma 7th.		Total
Epping U	6	1	22	105	72	20	9	4	23
Epping R	6 1	_	2	10	6	-	1	2	2 3
Walthamstow B	1		1	16	8	5	1	1	
Loughton U		-	2	11	-	-	1		1
Chingford U		_	-	3	1	-	-	-	
Leyton B		-	-	1	1	1	-	-	
Ilford B		-	1	-	1	-	-	-	
Woodford U			-	1	1	-	-	-	
Waltham Holy Cross U.		-	-	1	-	-	_	_	
Totals	8	1	28	148	90	26	12	7	3)

DEATHS.

It should be noted that the Registrar-General records Paratyphoid Fever as being the immediate cause of death in only two cases in the Epping Urban District. The local Medical Officer of Health states, however, that there were six deaths from Paratyphoid Fever in connection with the outbreak in that district. In four of these cases the immediate cause of death was Paratyphoid Fever, but two of the patients, whose homes were not in the Epping Urban District, were from the Public Assistance Institution. In the remaining two deaths of residents in the Epping Urban District, the immediate cause of death was carcinoma of uterus, and general peritonitis respectively, paratyphoid fever being shown as an antecedent cause of death.

NOTIFICATIONS.

The local Medical Officer of Health states that 21 cases of Paratyphoid Fever were notified in the Epping Rural District, which is one more than the number returned on the weekly notification cards for the year 1931—see Table I. on page 14.

TYPE OF DISEASE.

In most of the cases the disease was of a mild type, several cases showing practically no clinical features.

PARTICULARS OF THE OUTBREAK.

On 3rd February, 1931, the Medical Officer of Health for the Epping Urban District intimated by telephone that four cases of Paratyphoid Fever had been notified, and specimens of blood were being examined from suspected cases. This number increased to twelve on the following day.

Dr. W. Vernon Shaw was sent by the Ministry of Health to carry out the usual investigation, and assistance was also rendered by the staff of the County Public Health Department. Enquiries proved that the cause of the outbreak was due to the consumption of infected milk from a farm in the Epping Rural District where an employee had been ill whilst at work from 3rd to 24th January, 1931, with what was subsequently proved to be Paratyphoid Fever. As the disease was of a mild type, neither the farmer nor employee had any idea of the true nature of the illness. (Farmers are required by para. 17 of the Milk and Dairies Order, 1926, to immediately notify the local Medical Officer of Health when any persons or members of their households who have access to milk or the milk utensils are suffering from infectious disease).

The local Medical Officer of Health for the Epping Rural District in his special report, states that "As soon as there was evidence pointing to a certain milk farm the workers on the farm were examined (February 10th). Samples of blood were taken. The following day the Laboratory reported that four of these gave a positive Widal to Paratyphoid B. These four workers were removed to Hospital and the milk that they had handled destroyed. All the vessels and apparatus employed in milk production were sterilised and after 24 hours the milk was allowed to go out again. In order to make sure of its safety arrangements were made to have it

'pasteurised. Since then this Farm has been kept under close observation. The 'blood and excreta of the workers have been tested and re-tested from time to time 'as considered necessary. After the first examination all further specimens were 'It is still difficult to say how the milk at the Farm first became infected. It is possible 'that one of the six persons acquired Paratyphoid B. from some unknown source, 'infected the milk, and through the milk the other cases on the Farm. Examination of the Water Supply of the Farm and its drainage failed to throw any light on the ' matter. In this connection it is to be noted that one case, notified on February 12th, 'was found to have been ill with Paratyphoid B. for a month previously. This case ' was nursed at home, a house close to the Milk Farm in question-and had its milk 'supply from there. The overflow from the Cesspit of this house goes into a ditch on the Farm, but although fully investigated there was no evidence that this case-'apparently the first in the District-could have infected the milk workers or the ' milk itself. Samples of water from the ditch were reported on as negative for 'Paratyphoid B. by the Ministry of Health's Laboratory."

The attention of the medical practitioners in the Epping District was called to the outbreak, and it was pointed out to them that in all cases of continued pyrexia of uncertain origin it would be well to have a Widal test for Typhoid or Paratyphoid re-action, and they were reminded that Paratyphoid was a notifiable disease.

A special report on the outbreak in the Epping Urban District has not been issued, but it is understood that details will be given by the local Medical Officer of Health in his Annual Report for 1931.

ISOLATION AND TREATMENT.

As will be seen from the preceding Table, most of the cases (233 or 74.7 per cent.) occurred in the Epping Urban District, whilst in the Epping Rural District, there were only 21 (6.7 per cent.) cases.

Epping U.D. This Urban District does not possess an Isolation Hospital, but has an arrangement with the Walthamstow Borough for the admission of infectious cases to their Isolation Hospital at Chingford. The Walthamstow Borough has an arrangement under which cases of Typhoid or Paratyphoid Fever receive treatment at the Connaught Hospital, Walthamstow. No beds were available at that hospital at the commencement of the outbreak for the cases from Epping Urban.

Epping R.D. This Rural District Council possesses an Isolation Hospital near to Epping, but the accommodation is limited to cases of Diphtheria and Scarlet Fever.

Dr. Vernon Shaw, of the Ministry of Health, strongly advised that all cases should be removed to hospital, and in some cases considerable pressure had to be brought to bear to secure this. It resulted in practically all the patients being removed to hospital. There was no accommodation available at any hospital in this part of Essex, but fortunately, Dr. Shaw was able to get the London County Council to receive the cases into their Isolation Hospitals. This experience shows the advantages over the prevailing system of Isolation Hospitals which would accrue if the County Council had

wer to appropriate one or more of these hospitals for a large outbreak of this kind. ternatively, the County Council ought to have an institution which could be used: large epidemics, whether of Typhoid Fever, Cerebro-Spinal Fever, Encephalitis thargica, &c. Such an institution would serve a very useful purpose in the metro-litan portion of the County.

BORATORY SERVICE.

Full use was made by the local Medical Officers of Health and medical practitioners the services provided by the County Council's Bacteriologist for Essex, Dr. John F. eale, 91, Queen Victoria Street, London, E.C.4., from 26th January to 23rd March, period of nine weeks. No less than 700 specimens of blood, faeces, or urine were nt from the districts in which cases associated with this outbreak occurred. These rvices were much appreciated by all concerned.

ENERAL CONCLUSIONS.

From the experience gained throughout the outbreak it would appear :-

- (1) That the legislation dealing with infectious diseases is scattered throughout at least six Acts, two Regulations, and one Order, to which a local Medical Officer of Health has to turn for guidance. It would be helpful if the principal points from all these so far as they affect the measures to be taken to deal with an outbreak of Typhoid or Paratyphoid Fever, could be merged into a booklet similar to the one issued by the Ministry of Health upon Smallpox (No. 62, dated February, 1931) for the guidance of local Medical Officers of Health.
- (2) That it would be helpful if a list of notifiable diseases was included in the book of forms on which medical practitioners notify infectious diseases. In one district during this outbreak, a medical practitioner stated that he was not aware that Paratyphoid Fever was a notifiable disease.
- (3) That there is need for the availability in Essex of hospital accommodation for extensive outbreaks of this kind. This could be provided by the County Council either having power to appropriate an isolation hospital or by providing an institution which would be available for an extensive outbreak of any infectious disease. In the Epping outbreak of Paratyphoid Fever, the County is grateful to the London County Council for coming to their assistance.
- (4) That there is need for closer supervision over the health of cowmen and other dairy workers. Farmers should make a special point of noticing illness amongst dairy workers, and of consulting a medical man when there is the slightest doubt as to the true nature of the illness in question. Further, medical practitioners should make a special point of ascertaining the occupation of patients or their families who are either suffering from, or are in contact with, infectious diseases which might be conveyed by the milk supply.

- · (5) That the laboratory service which examined hundreds of specimens during the outbreak proved to be an indispensable part of the Public Health Service.
 - (6) That further consideration ought to be given to the desirability of, or even the necessity for, pasteurising all ungraded milks wherever practicable.

GENERAL.

Although this outbreak caused considerable alarm amongst the general public, they should not regard it as anything other than an unfortunate accident which might happen from time to time, but with the increasing co-operation of the trade, medical men and others, the likelihood of its recurrence ought to be remote. It should be remembered that at the first alarm, further risk of infection can be avoided if the housewife will boil or pasteurise all milk before consumption.

DAIRY FARMS IN EPPING URBAN AND EPPING RURAL DISTRICTS.

At the conclusion of the outbreak of Paratyphoid Fever, a detailed inspection was made of 54 farms in the Epping Urban District and the southern half of the Epping Rural District. The general conditions observed during this inspection may be summarised as follows:—

Producers. There are 54 producers, some of whom are also retailers in these two districts. All of them are registered with the Local Sanitary Authorities as required by the Milk and Dairies Order, 1926, with one exception. The last mentioned was found to be producing milk during these visits, and the necessary action is being taken by the local Sanitary Inspectors.

Cows. 1,285 cows were in milk at the 54 farms. Most of them were free from obvious dirt, but many showed lack of grooming.

Buildings. Were reasonably satisfactory structurally, except at nine farms where inadequate lighting, ventilation or drainage, or other minedefects were noticed.

Water Supply. 43 of the 54 farms obtain supplies of water from pubmains. This reveals an extensive net work of water mains in such a run area, and reflects great credit upon the local Sanitary Authorities and the officials.

At 4 of the 11 farms which obtain supplies of water from private we the water was found to be unsatisfactory. Endeavours are being made the local Sanitary Inspectors to secure further extensions of the public main or improvements to the existing wells.

Milk. 55.0 per cent. of the samples complied with the Grade standard, and 68.6 per cent. had less than 500,000 bacteria per c.c., and not show the presence of coliform bacteria in 1/1000th of a c.c.

Cowmen. The majority of the cowmen were of a fairly good type, the practice of wet milking appeared to be the rule rather than the except

Cowmen handle a vital food twice daily, and their training in modern methods of production is of great importance. Their ranks are recruited from boys, many of whom acquire obsolete methods from existing cowmen. A series of evening classes for such prospective cowmen under the auspices of the East Anglian Institute of Agriculture and the Essex County Farmer's Union would be invaluable.

Methods. The methods of production were reasonably satisfactory at 65 per cent. of the farms, but at 35 per cent. of the farms some of the methods were not satisfactory. The chief weaknesses appeared to be non-observance of cleanly precautions throughout the process of milk production; inefficient sterilising of utensils (it is noteworthy that at only five (9.2 per cent.) of the farms was steam provided for sterilisation purposes), and inadequate protection of the milk before cooling due to the absence of covered pails.

Sanitary Inspectors. The Sanitary Inspector in the Epping Urban District took up duty on 16th June, 1930, and holds the combined post of Surveyor and Sanitary Inspector. In his previous post in the north of England he attended a Clean Milk Course for Sanitary Inspectors, and is, therefore, fully acquainted with the modern methods of milk production.

The Sanitary Inspector in the Epping Rural District has held his position since 1920, and gives his whole time to the duties of Sanitary Inspector in the southern portion of the district, except one day per week which is devoted to collecting rents of Council Houses. He attended the Clean Milk Course held at the East Anglian Institute of Agriculture, Chelmsford, in 1928, and was awarded the second prize for an essay on that course. He is, therefore, fully acquainted with the modern methods of milk production, and the visits to the farms in his district reveal the fact that he has spent much time in advising and assisting farmers in these modern methods. He has found it necessary in recent years to take legal proceedings in a few cases where continued unsatisfactory conditions had been noted at the farms.

IETROPOLITAN WATER BOARD.

Part of the sewage from the Urban District of Epping drains southwards to ewage disposal works which discharge an effluent, after treatment on land, into he River Roding, and part of the sewage drains northwards to sewage disposal rorks, which after treatment on land, discharge an effluent into Cobbins Brook which enters the River Lee at Waltham Abbey above all the Metropolitan Water board's intakes from the River Lee. The effluent from the last-mentioned works was examined by the Metropolitan Water Board on 18th February, 1931, and the esults were so surprising bacteriologically (the effluent containing 33,000 million aratyphoid bacilli per day's flow) that immediate steps were taken by the Board o safeguard, to the fullest extent, the interests of the consumers in the East End of condon. A descriptive account of the investigations carried out, and the safeguards dopted, is given by Sir Alexander Houston in his 26th Annual Report on the results of the chemical and bacteriological examination of the London waters for the twelve nonths ended 31st December, 1931.

SMALLPOX.

There was a marked decrease in the prevalence of Variola Minor during the year 1930, the number of cases notified being 195, as compared to 602 in the previous year. The districts chiefly affected were Dagenham Urban (71), Walthamstow Borough (68), Leyton Borough (28). The same type of disease was also prevalent in the adjoining County Boroughs and in the area of the London County Council.

There were no deaths from this disease in the Administrative County during the year.

VACCINATION ORDER, 1930.

The District Medical Officer usually holds the appointment of Public Vaccinator. It is proposed in future not to appoint as Public Vaccinators medical practitioners who hold, or intend to hold, appointments under other County or County Borough Councils.

When a vacancy has occurred in an area for the post of District Medical Officer and Public Vaccinator, the candidate recommended by the Public Assistance Committee for the post of District Medical Officer is also recommended for the appointment of Public Vaccinator. This arrangement has worked successfully in connection with the new appointments made during 1931.

All new appointments of Public Vaccinators are made in accordance with the minimum fees laid down by the Vaccination Order of 1930.

The Relieving Officers acting as Vaccination Officers on the appointed day continued in that capacity pending the preparation of a scheme under Section 24 of the Local Government Act, 1929.

The following table gives particulars of the number of primary and re-vaccination carried out by the Public Vaccinators in the Administrative County of Essex during the year ended 30th September, 1931:—

TABLE II.

Guardians Committee A	Area, or	Numbers of Primary Va pers	Number of successful r		
Institution.			Under one year of age.	One year and upwards.	of persons.
				-	
Colchester			443	27	17
Braintree			226	19	7
Saffron Walden			295	23	7
Epping			252	19	5
South Eastern			464	66	72
Southern			1.751	500	312
Chelmsford			542	65	40
South Western			901	535	255
Rochford Public Assistance Institu			_	2	1
Children's Homes, Leytonstone			. 1	47	
Training Ship "Exmouth"			6		16
Central Home, Leytonstone	5.50	**		1	82
			8	38	02
Children's Homes, Wanstead			0	90	
Totals			4,889	1,342	814

ISOLATION HOSPITALS.

Table IV. on page 22a gives particulars of the accommodation, number of cases eated, cost per bed, &c., at those hospitals for which grants for beds (£5 per bed) ovided out of loan were recommended for the year ended 31st March, 1931. It will noted that there was an increase in the average cost per patient treated from 0 15s. in 1929-30 to £22 19s. 8d. in 1930-31.

Grants at the rate of £2 10s. per bed were also made to the following hospitals r beds which were provided out of revenue:—Colchester (40); Dunmow (4); alstead (4); Orsett (48).

VENEREAL DISEASES.

Table III. on page 22 gives particulars of the number of new patients from ssex treated at the various Clinics as well as the total number of attendances of all ssex patients. The total number of attendances of Essex patients is the highest corded since the scheme came into operation in 1917.

The arrangements under the London & Home Counties Scheme, whereby Essex tients can utilise the Venereal Diseases Clinics established at or in connection with e principal London hospitals have been continued. In addition, facilities for advice id treatment are available at the Chelmsford, Colchester, Southend and Ipswich ospitals, and also at the Gravesend ad hoc Clinic.

Colchester. Negotiations with the Essex County Hospital, Colchester, resulted a revision of the arrangements in connection with the V.D. Clinic at that Hospital. He hut at the rear of the Institution hitherto used for the V.D. Clinic was leased to e County Council for a period of ten years, and extensive alterations were carried t and new equipment provided. Dr. Leigh Day, the Medical Officer, resigned on st March, and Dr. M. P. Reddington, of Colchester, took up the duties of Medical ficer. Since the re-arrangements took place there has been a considerable developent of the work of the Clinic, which it is anticipated will further increase during the xt year or two.

Ilford. Negotiations are still in progress with the authorities of the King George ospital, Ilford, with a view to considering the establishment of a V.D. Clinic at that ospital to serve the large population in the Ilford, Dagenham, Barking and Romford eas. At present the nearest clinic is the London County Council (Whitechapel) inic, Turner Street, Mile End, E.1., but this involves a considerable journey by road train to attend the Clinics, and in some instances also loss of work.

TABLE III.

TREATMENT OF VENEREAL DISEASE, YEAR 1931.

	Hostels.	al. In-patient days.	13 2416	- 61	85	- 7	- 89	73		9 2416	2222 7 2222 1 2373 1 2579
	Doses of Arseno-Benzene Compounds.	rts Total.	3933		00	394	9	7	377	4949	3429 2817 2491 2781
	Doses of enzene Co	Out- In- Patients Patients	}	1	1	1	1	!	1	!!	1111
)	1	85	1	49	73	377	1	1111
	In- patient	Days.	2062	1	1	142	4	1	!	2245	1311 1632 2831 3739
PATIENTS.	Total No.	Essex Patients.	37879	399	355	1977	161	1493	2707	45007	33614 28523 25880 21756
ESSEX I	ring from	Total.	1108	36	19	06	16	78	108	1455	1388 1229 1201 1320
	time suffe	Not V.D.	473	12	ಞ	9	9	38	36	564	543 434 425 488
	ted for first	Gonorr- bæa.	446	20	6	25	4	26	50	580	503 466 505 550
	Total Number treated for first time suffering from	Soft Chancre.	21	!	1	1	1	1	00	30	30 14 12 6
		Syphilis.	168	4	7	69	9	13	24	281	322 315 259 276
Patients	all Areas. Total No.	treated for first time.	25,947	1,058	19	100	210	332	304	97,970	29,086 36,516 27,576 30,466
	Treatment Centre.		London Hospitals	St. Bartholomew's,	Chelmsford	Colchester	Ipswich	Southend	Gravesend	Total for 1931	Total for 1930 1929 1928

Showing Accommodation, Number of Cases treated, Cost per Bed, etc., at those Isolation Hospitals for which Grants for Beds provided out of Loan were recommended for the Year ended 31st March, 1931.

	Billericay	. Chelmsford	l. Clacton,	Colchester	Dunmov	w. Grays and Orsett	Halstea	d. Ilford.	Maldor	1		1	m Walthamst	Walthan	m
umber for purpose of Grant	£160	21 £115	17 £85	58 £300	8 £50	40 £210	16 £90	110	10	12	161	14	91	Joint.	TOTA
ases treated during year :-							290	£560	£60	£70	£ 715	£80	£165	42 £220	£3180
Diphtheria	200	181 100	27 15	226	41	132	35	163	49	110	-				
Typhoid		8	1	14	3	168	6 3	253 8	16 1	70	305 441	22 12	434 468	140 90	2065 1830
otal number of cases treated	287	295	43	*143 491	48	310	1 45	*34	6	10	130	5	_	16	61 351
enditure for the year :-	£ s. d.	9395 £ s. d.	1675 £ s. d.	22232	523	18359	1479	458 22975	72‡	190‡	881	39	902	246	4307
Repayment of Loans	191 16 8 163 13 10	242 5 7 58 3 2	75 15 2	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	6441 £ s. d.	33709 £ s. d.	1379 £ s. d.	39641 £ s. d.	7173 £ s. d.	175867 £ s. d.
Total g	355 10 6	300 8 9	9 15 3 85 10 5	63 8 10 213 5 9	1 16 8 17 19 0	892 19 4 2424 0 3	44 9 3 108 9 3	1725 9 5	265 6 10 40 0 4	4 7 11	1551 18 0 3389 7 9	108 0 0 61 14 5	239 17 0 88 10 11	456 13 4 50 9 0	6594 6 1
Structural Repairs Food (Patients and Staff)	595 17 6	234 16 7	67 19 11	1024 19 9	33 5 6	573 6 11		3383 3 4	305 7 2	128 7 11	941 5 9	169 14 5	328 7 11		13268 12 9
stab. and Patients' Expenses Maintenance	1653 15 6 2018 17 1	841 3 0 1661 17 7	241 11 0 872 14 1	1291 7 10 5140 17 7	154 18 8 822 19 9	1624 1 4	56 2 2 252 18 4	1531 13 8 3397 19 9	168 12 4 555 16 5‡	235 10 5 833 1 3‡ 2	484 3 8 858 5 0	15 11 10 188 13 5	1062 0 0 5187 0 0	285 9 6	6369 9 9
Overhead Charges	4268 10 1 355 10 6	2737 17 2 300 8 9	1182 5 0 85 10 5	7457 5 2 213 5 9	1011 3 11	9171 13 10 1	908 15 2		1471 9 6	2004 7 1 1	1006 4 11	469 12 8	11376 0 0 2	721 18 6	19536 2 10 59815 7 11
Total g	4624 0 7	3038 5 11	1267 15 5		17 19 0 1029 2 11		108 9 3	3383 3 4 20678 5 2	305 7 2	128 7 11 49	41 5 9	169 14 5	328 7 11	507 2 4 1	85721 0 6 13268 12 9
Food, Struct. and	3 16 4	2 5 3	5 6 0	2 8 3	13 15 6	4 8 5	6 5 6	6 6 0				843 12 4	17983 7 11 3:	990 1 8 9	8989 13 3
Estab. Ex. &	3 10 6 16 2 3	2 0 10 10 6 0	4 18 10 29 9 8	2 6 11 15 12 5	13 10 8	3 9 11	5 15 3	5 5 4	7 5 6	3 9 7	2 19 7	4 5 8	3 3 4	3 17 11	3 18 10
year 1929-30 £	14 2 11	13 2 5	33 5 10	14 1 6	21 8 9 33 12 2	26 17 1	9 9 5	45 3 0 31 2 9	34 14 9 44 12 6	16 17 0 2	1 17 11	21 12 7		3 8 0 16 4 5	3 8 3 22 19 8
	- In	cludes Tuberculo	sis cases treated	under the Coun	aty Council sel	beme.				cludes Small-pe		28 18 8	20 8 7	8 17 11	20 15 0



Walthamstow. The question of establishing a V.D. Clinic in connection with the Connaught Hospital, Walthamstow, remains in abeyance pending completion of the scheme for a new Clinic in the Ilford area.

EXAMINATION OF BACTERIOLOGICAL SPECIMENS.

Particulars of the specimens examined during the year 1931, by Dr. J. F. Beale, acteriologist for Essex, 91, Queen Victoria Street, London, E.C.4. (Tel. No. City 116) are given in Table V. on page 24. The total number was 22,625, or 6,263 less can for the year 1930. This is accounted for by the smaller number of diphtheria becimens submitted, notably from Barking Borough.

LOCAL GOVERNMENT ACT, 1929.

Steady progress has been made in connection with the various schemes required nder this Act. The review of county districts has been completed and an approved theme submitted to the Ministry of Health.

Several applications for assistance under Section 57 have been received but ave either been refused, withdrawn or are still under consideration.

An approved scheme has been prepared under Section 58, but is held in abeynce pending the approval of the Ministry of Health to the scheme submitted nder Section 46.

With regard to the Child Welfare powers the Ministry of Health made an Order ansferring the powers under the Purfleet Urban District to the County Council as ad from 1st April, 1931.

The following Authorities were made responsible for the supervision of midwives y the Ministry of Health under Section 62:—

Colchester, Ilford, Leyton and Walthamstow.

A report in connection with the Hospital Accommodation for Infectious Diseases as approved by the Public Health and Housing Committee in March and is being corporated into a draft scheme which will be circulated to local Sanitary Authorities ad Joint Hospital Boards for their observations.

HOUSING.

Table VI. on page 24a sets out particulars of the work carried out by Loca anitary Authorities under the Public Health and Housing Acts during the year 1931

TABLE V.

SHEWING NUMBER AND TYPE OF SPECIMENS EXAMINED BY THE BACTERIOLOGIST FOR ESSEX-YEAR 1931.

SANITARY DISTR	icts.	Diph- theria.	Sputa.	Typhoid	Ring- worm.	Miscel- laueous.	Total Specimens examined.	the logical Examinations.
RBAN-		10004	*****	1 00 4	-	10	3770	22
Barking B Benfleet	***	+3304 144	‡420 27	26	7	13	190	- 10.00
Projectuce	***	144	196	2		27	269	***
Brentwood		77	143	20	***	5	145	***
Brightlingsea		23	17	3	ï	3	37	***
Buckhurst Hill		9	16	1		2	28	
Burnham-on-Crouch		6	12		1	2	21	***
Canvey Island	***	45	16	200	444		61	
Chelmsford B		+516	‡164	11	11	25	727	***
Chingford		143	223	67	1912	39	472	***
Clacton on Sea	- 44	99	138	11	1	6	155	144
Colchester B		11	‡226	16	222	5	258 762	3.00
Dagenham	***	368	‡330	5	49	10	623	1
Epping Frinton-on-Sea			‡35	381	2		w 2	- 1
Canada		+2296	‡109	7	9	6	2420	
H-later d		19	‡30	3		6	58	-
Harwich B		+275	159	2	27		363	
Hornchurch		39	45	2		1	87	252
Ilford B		+ 544	‡366	33		34	977	21
Leyton B		+1731	‡793	14	12	8	2558	
Loughton		9	9	10	***	3	31	
Maldon B		50	‡29	7	1	1	88	-41
Purfleet			17		***		35 70	440
Rayleigh	***	54	12	2		18	1014	2
Romford	***	†791	‡193	9	3 5	10	64	
Saffron Walden B.	4.0	+41	‡17 20	100	30/4	1	50	**
Shoeburyness Tilbury		251	75	3	14	***	343	
Waltham Holy Cre		1050	‡31	25	4	10	422	3
Walthamstow B.		912	1749	144	33	22	1161	1
Walton-on-the-Naz	е ::	0	5		1	1	10	
Wanstead		5	51		***	3	59	
West Mersea		3	4	100	***	112	7	***
With am		. 31	29	1	1	6	68	
Wivenhoe			1	-		4	344	
Woodford		216	‡114	7	3	*	011	-11
Tr.	4-1	12061	4410	814	179	285	17749	50
URAL -	tal	12001	1410	014	110	1		
D. Laborator		5	4			244	9	1
Billericay		4540	294	15	***	13	871	1
Braintree		4990	1,1728	13	9	162	1244	2
Bumpstead		6.4	3	100			190	111
Chelmsford			65	6	8	29	180 121	***
Dunmow			‡44	6	2	39	172	***
Epping			50	52	2 5	2	58	
Halstead		0.0	30	3 3	1	24	116	1 3
Lexden & Winstre		+107	37	20	3	27	182	140
The state of the s		60	1 10	18		8	91	
Ongar		100	38	5	12	- mi	157	-11
D 1-4 1		1261	36	111	***	18	426	
Romford		60	‡995	2	10	29	1096	***
Saffron Walden		16	25		1	1	43	
Stansted		00	11		3		36 67	-10
Tendring		4.1	‡19	3	1	**	01	-112
		1000	0.111	131	57	354	4876	3
Totals— Rural		1923	2411 4410	814	179	285	17749	50
Urban		12061						

[†] Includes specimens taken at Isolation Hospital in District.

Sanatorium or Dispensary in District.

This does not include the Biological Examination of milk samples (see page 35).

SHOWING PARTICULARS OF WORK CARRIED OUT BY LOCAL SANITARY AUTHORITIES UNDER THE PUBLIC HEALTH AND HOUSI
DURING THE YEAR 1931.

	244	HOUSEN EAS	CTRD DUNCH	1901.		Instruction	or Dwnne	Beerge pro	TOTAL THE YEAR.						HE Y		001.			THE PUI				-100	DING A	CTS		
			27		(4)	(b)	(6)	160	100	-	No. of detection	Procurses	OF PERSON SE	ermone 17, 10					ACT	ON UNDER MY	TUTORY DOWN							
STATE DISEASE.	Total.				Total No. imspected for Bousing Defects	. No. of	Boxes in studed and minimal		No found to be in	No. (enried- ing these referred to under (er)	Prindened Di in	No. of Daviding	No. of Da	eding Hopes	No. of	No. of Deep	Arth.	Horsen	DESGRETATION 10 At 21 CO 10 At 21 CO	PRODUKTERSA S	*100 *10710X 20 0 Act, 2330		enus Capa Ac	th Secretary 2 OT, 1965.	OF HOUSE	Paoces	cres Creen to	Thomas III and a second
		The Local Authority	Other Local Anthornose	Persons.	Public Finith or Heuring Acts.	Rade for the purpose.		Bude for the purpose.	dangerous of injurious to health as to be unite for homas	found not be be in all Supports Personably fit by Summa	or they	Houses in Suspect of which Notices were negred		By Local	in respect of which Notices	efter seri	a were remoded the of formal oties.	Treation	No. of Dwelling Horses detectioned is pursuance	No. of reputate Teac- ments or Under- strong Recess in respect of which Choicag Orders	No. of separate Transporter of Underground Rostes in respect of which Closing Orders were	No of Owelling Strawe in respect of which	No. of De rendered to of form	welling House fit after nevel that Notices.	Ontare	No. of Dwelling	St of Duelter	No. of No. Dwelling Dwelling Discounter
URBAN, NG H	2557 132	26	2410	121	3114	4831 74	Regs., 2023.	907	Baliflation.	2602	Offices.	Bepairs.		in details of thween	Arquiring defects to be presented.	Over	By Load Authority is default of Owners.	Demotring Orden was made	Drawitton Order	Closing Orders wedy made.	determined, the Tenespet of Room laving less rendered fit.	Notices Vite served requiring Repairs	By Owners.	By Local Authority in Orland of Owners	of intention	in respect of which Gosing Orders were made.	Obien over debraised	Dwelling Dw. Elones St.
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HOUSING ACT, 1930.

The Housing Act, 1930, came into force on 1st August, 1930, and Part IV. aims in particular at securing the co-operation of County Councils and Rural District Councils in overcoming the shortage of houses and the removal of unsatisfactory housing conditions in Rural Districts. The County Council now has a definite responsibility for housing conditions in the Rural Districts in the County, and has a continuing duty to ascertain the situation in each Rural District, and to obtain particulars of the action which has been taken or is proposed to be taken to remedy unsatisfactory conditions, and to provide further housing accommodation.

So far as the provision of new houses is concerned, the County Council is required to bear a charge of at least £1 per annum per house towards the cost of the houses provided by the Rural District Council for the agricultural population, and is empowered to undertake a larger contribution for these houses, and also to make such contribution as the County Council thinks fit towards the cost of other houses provided by the Rural District Council.

Rural District Councils. Under the Housing (Consolidated) Regulations, 1925, a local authority, which includes a Rural District Council, is required to "make provision for a thorough inspection to be carried out from time to time according to the varying needs or circumstances, of the dwelling houses or localities in the district of the local authority," and to cause to be prepared from time to time by the local Medical Officer of Health or other designated officer (usually Sanitary Inspector), a list or lists of dwelling houses, the early inspection of which is, in the opinion of the Medical Officer of Health, desirable. The officer carrying out an inspection is required to examine the state of each house in relation to certain structural matters, and to keep accurate records. A summary of these inspections and of the action taken under statutory powers is furnished each year in the Annual Report of the local Medical Officer of Health. These are summarised for the year 1931 in Table VI. on page 24a,

Under the Housing Act, 1930, every Rural District Council is placed under an obligation to furnish to the County Council at intervals such information as the County Council may reasonably require to enable it to carry out its duty. The first return was asked for in February, 1931, and the replies are summarised in Table VII. on pages 29 and 30, the gross totals being as follows:—

No. of Houses partially unfit for human habitation		2,297*
No. of Houses totally unfit for human habitation		685
No. of Temporary Structures		590
No. of Houses overcrowded		190
No. of Houses erected by R.D. Councils since 1st Jan., 1919		4,699
No. of Houses erected by Private Enterprise since 1st Jan.	, 1919	18,136
Estimated No. of additional Houses required for wor	rking	
classes		1,456

^{*}Stansted R. did not give a number under his heading.

A perusal of these returns shows that 11 out of the 17 Rural District Councils, namely, Braintree, Bumpstead, Chelmsford, Dunmow, Epping, Lexden and Winstree, Maldon, Orsett, Rochford, Romford, and Tendring, have built or propose to build houses reasonably commensurate with the needs of the areas.

In respect to the remaining six Rural Districts, the position, according to the return for the year 1930, regarding the totally unfit houses and the action taken to replace such houses, is as follows:—

(a) Belchamp R. Has 33 totally unfit houses, and is only proposing to provide 18 new houses, tenders having been invited. Has erected 30 Council houses since 1919. No provision is made to replace totally unfit houses at Belchamp St. Paul's (8), Borley (2), Foxearth (2), Gestingthorpe (3), Great Henny (2), Pentlow (5), and only two new houses are suggested for Belchamp Otten (11).

This Rural District is to be merged with Halstead R. under Section 46 of the Local Government Act, 1929. It is probable that the general standard of fitness of dwelling-houses in this rural area is below the average.

(b) Billericay R. Has 49 totally unfit houses, and estimates 200 additional houses are required for the working classes. Has erected only 30 Council houses since 1919, being the smallest number provided by any Rural Council in the County, except Belchamp R. Private enterprise has provided more houses (6,322) than in any other Rural District in the County. It has to be remembered also that in this area there are urban-like centres, e.g., Wickford, Laindon, Billericay, Pitsea and Vange. Extensive changes are, therefore, contemplated under Section 46 of the Local Government Act, 1929.

The Rural Council has launched the	following pr	rogramme :-
Houses in course of erection		18
Tenders accepted or advertised		72
Land purchased or to be purcha	sed	68
		158

These proposals affect only six Parishes, and no provision is made for replacing totally unfit houses at Dunton (5), Lee Chapel (9), North Benfleet (6), South Weald (14), Vange (13), Wickford (9).

- (c) Halstead R. Has 39 totally unfit houses, and estimates that only 10 new houses are needed. Has erected 148 Council houses since 1919. No provision is made to replace totally unfit houses at Gosfield (4), Little Maplestead (2), Little Yeldham (4), Pebmarsh (7), Sible Hedingham (11), Stambourne (3), Toppesfield (6).
- (d) Ongar R. Has 211 totally unfit houses, which is the largest numbers shown in any one Rural District in the County, and estimates that only 641 houses are needed. Has erected 185 Council houses since 1919. Every parish in the Rural District is shown to have some totally unfit houses, the largest numbers being at Navestock (33), Lambourne (18), Fyfield (15),

Chipping Ongar (12), Bobbingworth (10). The estimated number of houses required is made up as follows:—Beauchamp Roding (4), Bobbingworth (8), Chipping Ongar (12), Little Laver (4), Navestock (6), Shellow Bowells (4), Stanford Rivers (12), Stapleford Tawney (6), Theydon Mount (4), Willingale Doe (4).

- (e) Saffron Walden R. Has 34 totally unfit houses, and estimates that no additional houses for the working class are required, but points out that in most of the parishes in the district there is probably a marked decrease in the population since the Census of 1921. The totally unfit houses are in 10 of the 25 parishes. Has erected 84 Council houses since 1919.
- (f) Stansted R. Has one totally unfit house, and estimates that 70 additional houses are needed in two parishes:—Stansted (54), Little Halling-bury (16). Has erected 58 Council houses since 1919. The possibility of building houses in other parishes will be considered in relation to the increase or decrease of the population in each as revealed by the Census.

This Rural District is to be merged with the Saffron Walden Rural District under Section 46 of the Local Government Act, 1929.

General Conclusions. It is generally recognised that in the past the absence of reasonable housing accommodation has caused many agricultural workers to migrate to the towns, and further, such workers have often had to seek housing accommodation in places remote from their work. The powers now conferred upon County Councils have for their object the securing of closer co-operation between County Councils and Rural District Councils in attacking this serious and important problem.

TOWN PLANNING.

At the end of 1930 a Town Planning Committee was constituted directly responsible to the County Council for the carrying out of duties relating to town planning, playing fields and open spaces.

(a) Town Planning.

The Committee surveyed the progress of Town Planning Schemes in the County, and considered how best to carry out the Town Planning Sections of the Local Government Act, 1929. It was realised that it would be desirable to set up Regional Joint Advisory Committees in all parts of the County which were not included in the area of such Committees. As a commencement, steps were taken with a view to setting up Joint Committees to comprehend the Town Planning Authorities in North-East, North-West and Mid-Essex.

The South Essex Joint Advisory Town Planning Committee issued its complete Regional Planning Report during 1931. In the Foreword, Mr. B. H. L. Williams, who was the Chairman of the Committee from its inception until ill-health compelled him to resign a few months before the Report was issued, refers to the fact that "The South Essex Joint Town Planning Committee, with the skilled assistance of , Professor S. D. Adshead, have spent several years in the preparation of the regional

" plan and report here presented. The purpose of their labours has been, first, to arrive at an understanding of the character of the Region, its resources, handicaps and possibilities; next, to evolve a policy and plan indicating ways for facilitating the development of resources and the removal of handicaps, by making the best use of the land, in the best interest of the Region as a whole and of its component parts.

"Unless devolopment does follow a well-devised policy and plan, confusion and waste must follow and this part of the county will become a meaningless extension of the inchoate mass which comprises the outskirts of London. The Joint Committee, therefore, are confident in inviting cordial assistance towards the realisation of this plan, not only from all the local authorities concerned, but also from all owners and developers of land, the leaders of industry, and all those interested in the future prosperity and well-being of South-East Essex and Greater London.

"The first step would be the preparation of town planning schemes, either jointly or severally, for the whole Region, and this permits of no delay."

The Joint Town Planning Committee are to be congratulated upon the comprehensive nature of the report, which should be of great assistance to all the Local Sanitary Authorities concerned. "The Joint Committee have done their best to "solve this problem and it is now for the public authorities who are concerned and "their constituents to take the necessary steps to prevent the waste and spoliation "(unpardonable in these days of economic stress) which must take place if things "are left to chance."

(b) Open Spaces.

On page 59 of the South Essex Regional Town Planning Report it is recorded that "one question which needs to be very seriously considered in regard to the "provision of open spaces in South Essex, and which is becoming more and more "important every day, is that of the increasing use of Essex as a recreative area "for the East Londoner."

A representation was made to the County Council, and on 19th May, 1931, the County Council decided, in pursuant to their powers under the Open Spaces Act, 1906, to purchase "subject to the report of the District Valuer and to the consent "of the Ministry of Health, an area of approximately 60 acres at the summit of "Laindon Hills as a public open space."

The County Council also decided to take the necessary steps in connection with the preparation of the grant to the Council of an option to purchase another estate at Langdon Hills.

(c) Playing Fields

The County Council decided on 19th May, 1931, to make the Local Sanitary Authorities concerned a contribution of ten per cent. towards the purchase of playing fields in Rayleigh, Burnham-on-Crouch and Little Thurrock, on condition that facilities be granted in each case to the satisfaction of the Education Committee for the free use of the grounds by the children of the neighbouring elementary schools for playing organised games.

TABLE VII.

SUMMARISING RETURNS REGARDING THE HOUSING CONDITIONS OF PERSONS OF THE WORKING CLASS, 1930.

						29									
Whether any additional houses for the	are required, and if so, the estimated number.	11.	18. Tenders	200 required. I8 under	construct- ion. 72 ten-	-	land pur-	about to be purchased. 122 proposed building in	1931. 32 required.	154 "	141 "	115 "	10 "	28	
erected since ry, 1919.	By private enterprise.	10.	38	6,322				923	-	1,502	287	928	259	699	
No. of Houses erected since 1st. January, 1919.	By. R.D.C.	9.	30	30				552	73	587	326	337	148	260	
No. of Houses	overcrowded.	œ'	-	29				10	10	1	28	29	67	15	
No. of Temporary Houses,	vans, sheds, or similar structures.	.7.	61	85		3		1	1	39	13	1	1	88	
No. of Houses totally unfit	for human habitation.	6.	33	49				102	12	32	36	39	39	30	
No. of Houses partially unfit for	human habitation.	ů.	96	158				208	53	36	120	57	102	251	
Est. Popn., 1930 (R.G's.	estimate for 1929 in brackets.)	4	3,576	(48,387 (35,950)				24,679 (20,760)	2,350	28,065	15,560	14,625	9,843	(18,588)	
Census Popn	1931.	တဲ	3,983	39,694				21,876	2,304	28,641	15,564	17,345	9,843	18,976	
Census Popn.	1921.	oi	4,219	24,211				18,779	2,376	24,616	15,352	14,625	9,743	17,568	
Bural District.		To a	Belchamp	Billericay				Braintree	Bumpstead	Chelmsford	Dunmow	Epping	Halstead	Lexden Winstree	

30

TABLE VII. -continued.

Whether any additional houses for the working classes	are required, and if so, the estimated number.	11.	170 required.	64 ,,	R.D.C. meets cur-	quirements 20 required.	108 "	Popn. de- creasing in most	Parishes. 70 required.	150 required, 102 of which are in course of erection.	1,456
No. of houses erected since lst January, 1919.	By private enterprise.	10.	516	214	1,725	1,669	1,696	149	163	1,069	18,136
No. of houses erected s 1st January, 1919.	By R.D.C.	oi.	367	185	638	242	174	75	928	308	4,699
No. of Houses	overcrowded.	œ	4	1	10	6	67	1	1	16	190
No. of Temporary Houses,	vans, sheds, or similar structures.	7.	61	1	94	160	25	4	03	12	590
No. of Houses totally unfit for human	habitation.	6.	33 (several	211 211	19		12	34	1	1	685
No. of Houses partially unfit for	human habitation.	.0	61	266	69	œ	120	634 (estimate)	Difficult to	928	2,297
Est. Popn 1930 (R.G's.	estimate for 1929 in brackets.)	4	17,050 (16,750)	10,644	22,848 (18,000)	18,350	16,497	(9,650)	06,690	23,580 (23,720)	289,802 (267,060)
Census Popp	1931.	60	16,280	11,520	20,524	17,046	15,102	9,691	6,981	24,083	279,543
Census	1921.	oi	16,479	10,054	14,987	11,282	9,467	10,087	6,828	21,721	232,394
Burn District.		1.	Maldon	Ongar	Orsett	Rochford	Romford	Saffron Walden	Stansted	Tendring	Totals

HOUSING (RURAL AUTHORITIES) ACT, 1931,

This Act provides that the Minister may, on the recommendation of the Housing Rural Authorities) Committee and with the approval of the Treasury, undertake to ake special contributions towards the expenses to be incurred by Rural District puncils in providing houses for agricultural workers, and for persons whose economic andition is substantially the same as such workers.

HOUSING (RURAL WORKERS) ACT, 1926.

The administration of this Act has been delegated by the County Council to the gricultural Committee. The duties thereunder are carried out by the County Land gent, who has kindly supplied the following report upon the work carried out during ne year 1931:—

The number of additional requests received for Forms of Application during the year 1931 was sixty-five. Thirty-seven Forms were returned relating to 95 cottages.

The Districts in which the cottages are situate are as follows :-

Sanitary District.			No. of Applications.		No. Cotta	No. of Co in respe which G have been	Total Grants in the year.	
Braintree R.			4		29	 7		582
Belchamp R.			2		11	 1		93
Chelmsford R			3		5	 4		400
Dunmow R.			2		5	 _		_
Epping R.			1		2	 2		133
Halstead R.			5		12	 12		1,200
Lexden & W	instr	ee						
R			4		7	 7		700
Maldon R.			5		9	 3		206
Ongar R.			1		2	 _		_
Orsett R.			1		1	 -	1.	_
Rochford R.			1		1	 _		_
Stansted R.			1		1	 1		75
Tendring R.			2		2	 1		72
Clacton U.			3		5	 _		_
Tilbury U.			1		1	 -		_
Witham U.			1		2	 -		-
			37		95	 38		£3,461

Of the cottages included in the above applications, 38 were approved for grants as above, 5 were not approved, 32 were withdrawn, and 20 were still under consideration at the end of the year.

The total number of cottages approved for reconditioning under the Actin Essex, up to the 31st December, 1931, is 213.

SEWAGE WORKS AND RIVERS POLLUTION.

LOANS. During the year one Municipal Borough, nine Urban Districts, eight Rural Districts, and one Joint Sewerage Board made application to the Ministry of Health for sanction to borrow varying sums of money, a gross total of £766,146, for works of sewerage and/or sewage disposal. Public Inquiries were held on the dates shown in the following table:—

DIO WILL III	the rolls was 8				
Date of Inquiry.	Local Sanitary Authority.	Parish.	Catchment Area.	Loan required.	Purpose.
1931. Jan. 1st	Benfleet U.	-	Thames	£ 54,185	Sewerage & Sewage Disposal.
13th 21st 27th	Tendring R. Colchester B. Thurrock, Grays & Tilbury Joint Sewerage Board	Ardleigh —	Colne Thames	7,900 10,500 17,050	Sewerage and Sewage Disposal.
Feb. 11th 11th	Romford R. Waltham Holy Cross U.	Upminster —	Ingrebourne Lea	5,000 450	Sewage Disposal. Sewerage.
12th	Purfleet U.	-	Mardyke	16,000	Sewerage and Sewage Disposal.
Mar. 3rd 20th	Romford U. Billericay R.	Basildon	Rom	7,130	Sewerage.
		Bowers Gifford Nevendon Pitsea Vange	Thames	90,000	Sewerage and Sewage Disposal.
May 27th	Chelmsford R.	Buttsbury Stock Ingatestone	Wid	68,756	Sewerage and Sewage Disposal.
June 2nd 3rd	Witham U. Purfleet U.	Ξ	Blackwater Mardyke	825 16,500 17,200	Sewage Disposal. Sewerage and Sewage Disposal.
July 8th	Romford R.	Upminster	Ingrebourne	1,780	Sewerage.
Aug. 6th	Epping R.	Sheering	Lea	12,800	Sewerage and Sewage Disposal.
7th	Dagenham U.	_	Thames	164,169	Sewage Disposal.
Sept. 8th	Ongar R.	Abridge	Roding	7,103	Sewerage and Sewage Disposal.
8th	Canvey Island U.	-	Thames	86,000	"
9th	Ongar R.	Chipping Ongar		OF 050	
		High Ongar Shelley	Roding	27,270	"
11th 23rd	Chingford U. Hornehureh U.	=	Lea Ingrebourne	29,811 98,250	Sewerage. Sewerage and Sewage Disposal.
Nov. 3rd	Orsett R.	Fobbing	Thames	5,600	,,
Dec. 15th	Waltham Holy Cross U.	-	Lea	8,000	Sewerage.
31st	Braintree R.	Bocking	Blackwater	13,867	Sewerage and Sewage Disposal,
-			Total	£766,146	

TABLE VIII.

OWING SEWAGE WORKS, NUMBER OF VISITS, AND NUMBER OF SAMPLES TAKEN DURING THE YEAR 1931.

	and the same of th	100000000000000000000000000000000000000	F-100 - 100		nples take	n.
atchment Area.	Sewage Works.	Sanitary District.	No. of Visits.	No. satisfac- tory or on bor- der line.	No. un- satisfac- tory.	Total
in	Braintree Black Notley Sana torium	D D	3	1		3
ckwater	Booking	. Braintree R	1	1	100	1
	Coggeshall		2	2	-	2
	Hatfield Peverel .		1	1	1	1
	Kelvedon Silver End	Desirators D	1 2	2		1 2
	Witham	With an II	ĩ	_	1	ĩ
n	Saffron Walden .	. Saffron Walden B	2	3	-	3
lmer	Chelmsford	. Chelmsford B	2	_	2	2
	Dunmow		3	3	-	3
	Felstead		2	2	1.00	2
	Thaxted	. Dunmow R	2	2	-	2
ne	Halstead		4	1	3	4
	Sible Hedingham .	. Halstead R	2	2	The same	2
uch	Great Burstead .		1	1	m == 1	1
rohourno	Wickford	. Billericay R (Brentwood U.)	1	-	2	2
rebourne	Brentwood Joint .	Billericay R.	2	2	-	2
	Brook Street, South . Weald	TOTAL TO	2	2	1	3
	Harold Wood	D (I D	2 2	1	4	5
:	Upminster	I manual and the second and and	2	3 2	1077 IV	3
		U.	H- Day	-	lar agenta	2
dyke	Bury Farm, Great . Warley		2	A STATE OF THE PARTY OF	1	1
line	South Ockendon .	Onman D	1	_	1	1
ding	Abridge Buckhurst Hill .	Daraldana TINI II	1	2	1	1
	Chierrall	Empine D	3 2	3		3
	Chigwell Row	Danis D	2	2 2		2
	Epping	Daning II	4	1	3	4
	Grange Hill	Emmin - D	2 3	-	3 2 2	2
	Hainault		3	1	2	3
	Loughton		2	2	-	2
William Co.	North Weald		2 4	1 1	1	2
	Ongar	D-i- D	3	1	2	2 2
	Theydon Bois	Empire D	3	î	ĩ	2
	Wanstead	William A and TY	1	î		ī
	Woodford	Washing II			-	2
1	Hornchurch	Hornchurch U	2 2	1	1	2
	Billericay		2	2 1 2 3	-	2
	Ingatestone		5		1	4
	Great Warley		2	1 2	1	2 2 4 2 3 2 2 2 2 3 2 2 2 2 4 2 2 2 3 2 2 3
lwell	Shenfield	Maldan D	3	3	1	3
Brook	Tuningnam	Maldon R	1		1	1
land Brook	Thorpe-le-Soken .	Tendring R	2	2	-	2
by Creek	Kirby-le-Soken .	FF1 1 1 13	ĩ	ĩ	-	ĩ
onles from	ivers, streams, ditches, &	cc	5	12	11	23
opies from I						
de effluents			8	5	3	8

Table VIII. on page 33 records the number of visits paid to sewage works by the County Health Inspector and the samples obtained. Of the 129 samples taken, 49 or approximately 38 per cent. were unsatisfactory. Appropriate action was taken in each case.

BLACKWATER CATCHMENT AREA. The new sewage works at Bocking, Coggeshall and Kelvedon came into operation during the year.

CHELMER CATCHMENT AREA. The Felstead Beet Sugar Factory, which opened in October, 1926, resumed operations on 7th October, 1931, and ceased on 23rd December, 1931. Since the previous season the domestic sewage works and cooling plant had been further improved. Three samples of trade effluent were obtained, which gave impurity figures of 1.5, 3.5, and 2.8 respectively, and therefore, complied with the County Council's standard of 10.0 for a passable effluent.

Experience during the past few years with the trade effluent from this factory has shown that the County Council's standard impurity figure of 10.0 for sewage and trade effluents needs re-consideration to meet special cases of this kind. When the standard was set up about twelve years ago it was found to be suitable for the normal sewage and trade effluents which usually receive a reasonable dilution after being discharged into a stream. In respect to Felstead, however, the factory takes practically the whole of the water from the Stebbing Brook (approximately 4 million gallons per day), uses the bulk of it for condensing purposes, causing marked increase of temperature, passes it through sprayers into cooling ponds from which it is returned to the Stebbing Brook in the form of a warm trade effluent.

The River Chelmer into which the Stebbing Brook flows, is adversely affected by this large volume of trade effluent, not only owing to its high temperature, but to its increased impurity figure.

On 28th January, 1932, the Public Health and Housing Committee decided that "it should be placed on record and brought to the notice of all persons concerned that "the County Council's standard impurity figure of 10.0 is intended only for sewage and trade effluents, the volume of which in each case is not more than one-tenth of the bulk of the stream into which they discharge."

Trade Effluent—Temperature. The temperatures of the samples of trade effluence obtained from the Felstead Beet Sugar Factory were 35.0°C., 30.0°C., and 33.0° respectively. The discharge of this warm effluent in a large volume again had deleterious effect upon the river water in the removal of oxygen and the production of fungoid growth. Representations were again made to the Works Manager, where the production of the following problem will have to be investigated and studied."

TER CATCHMENT AREA. During August, 1931, a survey was made of the maportion of the River Ter in co-operation with the Medical Officer of Health a Sanitary Inspector for the Braintree Rural District, when several points of pollutive were found. On 16th September, 1931, at the conclusion of a spell of dry weath

mples were taken from the river and tributaries at various points, and were examined the Bacteriologist for Essex. The results showed that the river was affected by ainage from Hatfield Peverel, and to a lesser extent from Terling.

The Braintree Rural District Council has already prepared a scheme of sewerage d sewage disposal for Hatfield Peverel, but financial circumstances have checked progress.

FOOD AND DRUGS.

The County Analyst, Dr. Bernard J. Dyer, 17, Great Tower Street, London. E.C. s kindly provided me with a copy of his Annual Summary for the period 1st ecember, 1930, to 30th November, 1931, from which the following particulars have en extracted:—

	Samples analysed.	Samples atisfactor	uı	ercentage of neatisfactory samples.
Northern District of the County	 1,466	 43		2.9
Southern District of the County	 2,151	 40		1.9
Metropolitan District of the County	 2,095	 23		1.1
Benfleet Urban District	 11	 -)		
Dagenham Urban District	 4	 _		
Walthamstow Borough	 85	 6	• •	4.8
Wanstead Urban District	 49	 1)		
	1	19.50		
	5,861	113		
		-		

MILK. Of the 1,502 samples examined, 65 proved unsatisfactory, 26 of which entained added water in quantities varying from 3 per cent. to 35 per cent., and the emaining 39 samples were deficient in fat to an extent ranging from 5 per cent. to 3 per cent. of the minimum quantity of fat proper to normal milk.

BUTTER. One sample was found to consist wholly of margarine.

ICE CREAM. Four samples sold under this name should not have been described made from cream, as they contained no more cream than would correspond to the ilk which they contained.

MILK SUPPLY.

lilk and Dairies (Consolidation) Act, 1915.

No routine inspections of dairy herds by Veterinary Surgeons were undertaken uring 1931, the activities being confined to the taking of samples of milk by the County ood and Drugs Inspectors and the County Health Inspector for biological examination and coliform bacteria test.

(a) Biological Examinations. Out of 427 samples, 36 (or 8.4 per cent.) were found contain tubercle bacilli. There were in addition 41 inconclusive tests owing to eaths of guinea pigs from intercurrent infection.

The 36 positive samples were obtained from 33 farms. Each dairy herd at these farms was inspected by the County Council's appropriate part-time veterinary surgeon with the following results:—

- (i) 39 cows from 30 farms were slaughtered under the Tuberculosis Order, 1925, 20 being in an advanced stage of tuberculosis, and 19 not in an advanced stage of tuberculosis.
- (ii) 6 cows had been disposed of otherwise at 3 farms.
- (b) Coliform Bacteria Test. Out of 434 samples, 156 (or 36 per cent.) were found to contain coliform bacteria in 1/1000th cubic centimetre, arbitrarily adopted for the present as an easily attainable standard of cleanliness.

Section 4. During the year 11 notifications were received under Section 4 of the Milk and Dairies (Consolidation) Act, 1915, to the effect that biological examinations of samples of milk from 12 farms within the County of Essex had revealed the presence of tubercle bacilli. Each dairy herd at these 12 farms was inspected by the County Council's appropriate part-time Veterinary Surgeon with the following results:—

- (i) 15 cows from 10 farms were slaughtered under the Tuberculosis Order. 1925, 7 being in an advanced stage of tuberculosis, and 8 not in an advanced stage of tuberculosis.
- (ii) The Veterinary Surgeons failed to find any cow suffering from tuberculosis at 2 farms.

Milk and Dairies Order, 1926.

The local Sanitary Inspectors in two Boroughs, five Urban Districts, and seven Rural Districts took advantage of the County Council's laboratory facilities by submitting 237 samples of milk to microscopical examination, one (or 0.4 per cent.) being found to contain acid-fast bacilli indistinguishable from the tubercle bacilli. These samples were also submitted to the coliform bacteria test, and in 81 samples (34) per cent.) coliform bacteria were present in 1/1000th cubic centimetre, arbitrarili adopted for the present as an easily attainable standard of cleanliness.

Milk (Special Designations) Order, 1923.

The following licences granted under this Order to produce graded milks were operation during the year 1931:—

1	Kind.		No.	Granted by.
Certified Mil	k		 5	 Ministry of Health.
Grade A. (Tu	berculin	Tested) Milk	 22	 Ministry of Health.
Grade A.			 47	 County Council.
			-	

Total 74

ade "A" Milk.

For the first time there is a decrease in the number of Grade A licences issued, a number falling from 54 (which is the highest number issued) in 1930, to 47 in 31. This reduction is due to the fact that one farm obtained a licence to produce rtified Milk; one farm obtained a licence to produce Grade A (Tuberculin Tested) lk; and five farms reverted to the production of ordinary milk either because sy could not find a purchaser for the better article, or "on account of expense."

Three hundred and nine visits were paid to Grade A and other farms by the unty Health Inspector, who obtained 285 samples for bacteriological examination. each case where the sample from a farm licensed to produce Grade A milk did t comply with the standard, suitable representations were made to the farmer, so, in some instances, asked for the assistance of the East Anglian Institute of griculture, with satisfactory results.

tberculosis Order, 1925.

The Agricultural Committee are responsible for the administration of this Order, id have again taken steps to eliminate and slaughter tuberculous cows, as will be en from the following figures which have been furnished by the Clerk of the County ouncil:—

			1930.	1931.
No. of animals examined by Veterinary	Surgeon		28,866	 38,895
No. of animals slaughtered under the O	rder		836	 1,102
No. of such animals found on post mor	tem to be-	_		
(a) Not tuberculous			2	 1
(b) Tuberculous—not advanced			511	 677
(c) Tuberculous—advanced			323	 424
Compensation paid by County Council			£5,273	 £7,001
Salvage			£1,718	 £1,693

WATER SUPPLIES.

During the year three Rural District Councils and one Urban District Council ade application to the Ministry of Health for approval to loans for works of water applies, and in consequence public enquiries were held on the dates shown below:—

Date of Inquiry.	Local Sanitary Authority.	Parish.	Amount of Loan.	Purpose.
1931. arch 12th	Chelmsford R.	Danbury East Hanningfield Little Baddow Rettendon Runwell Sandon Woodham Ferris	16,000	Water Supply
une 25th	Witham U.	ENDRES LATRO	11,525	Water Supply
ctober 16th	Bumpstead R.	Helions Bumpstead	2,355	do.
ovember 17th	Orsett R.	Langdon Hills	7,170	do.
		TOTAL	£37,050	

TRADE, HOUSE AND OTHER REFUSE.

One Urban District (Rayleigh) made application to the Ministry of Health for sanction to borrow £430 for the purchase of land for a refuse tip. A public inquiry was held on 24th February, 1931.

London Refuse. At a Conference of Local Sanitary Authorities in the Administrative County who were affected by the dumping of London refuse, held on 9th December, 1930, the County Council was urged to recommend all Local Authorities interested that they should make bye-laws as far as possible on the lines of the Model Bye-Laws furnished by the Ministry of Health. During the year 1931, the following Local Authority adopted such bye-laws:—Orsett R.

A new dump has been commenced at Mucking, in the Rural District of Orsett, where London refuse is being disposed of in accordance with the local bye-laws.

MENTAL TREATMENT ACT, 1930.

As mentioned in last year's report, an Out-Patient Clinic has been established by the County Council at Oldchurch Hospital, Romford, and the following is a brief extract from the Annual Report of Dr. W. G. Masefield, the Medical Superintendent of the Brentwood Mental Hospital, who is in charge of this Clinic:—

"The weekly Out-Patient Clinic at Oldchurch Hospital, Romford, for early Mental and Nervous Cases was started at the end of May, and has been held regularly. The number of patients seen is 75, with some 140 attendances. The patients come under three headings (1) those sent by Medical Practitioners of the district (2) those under "observation" in the Public Assistance Hospital and (3) those who have been previously under treatment at this Hospital. Experience gained at this weekly Clinic has led one to the conclusion that the services of a trained Social Worker would be of great value. Reliable information on family and personal history, and on home environment is of prime importance in dealing adequately with many of the cases that seek advice, and this can only be obtained by the personal touch in the home itself. I should like to think that in the near future, it may be found possible for the services of one of the workers of our County Voluntary association to be retained for this form of specialised work."

In addition, prior to the Act coming into force, an Out-Patient Clinic had been established at the Essex County Hospital, Colchester, by Dr. R. C. Turnbull, Medica Superintendent of the Severalls Mental Hospital. This clinic has also carried our excellent work during the year.

MENTAL DEFICIENCY.

Ascertainment has continued as in previous years, cases referred being examine and reported on by Dr. T. P. Puddicombe, Deputy County Medical Officer. He has continued to act as medical advisor in cases referred by the Justices for mental examination.

Two hundred and sixty cases have been examined and classified as follows :-

	Males.	Females.	Totals.
Feeble minded	 82	 54	 136 (a)
Imbeciles	 42	 37	 79
Idiots	 13	 14	 27
Not certified under the Act	 10	 8	 18 (b)
Totals	 147	 113	 260

(a) includes 15 males and 3 females and (b) 4 males and 3 females referred by the ustices.

Of the feeble minded 9 were subject to epileptic attacks and 3 were post enephalitics. The imbeciles include 24 mongols and 6 epileptics. The idiots include epileptics and 2 mongols.

During 1931 the pressure on residential accommodation has not been relieved and Il concerned anxiously await the extensions provided for at the Royal Eastern counties Institution. It is hoped that building will commence early in the Autumn f 1932.

The numbers at the end of the year under some form of control were as follows :-

In Institutions	 	559
Under Statutory Supervision	 	826
Under Guardianship	 	35

Of the above numbers, 47 were placed in Institutions, 2 under guardianship and 82 under Statutory Supervision during the year.

The Essex Voluntary Association have continued to render invaluable service on similar lines to previous years by assisting in ascertainment, supervision and the organisation of occupation centres, &c.

BLIND PERSONS ACT, 1920.

The Essex County Association for the Care of the Blind has continued, by arrangement with the Essex Education Committee, to carry out the work under this Act.

At the end of the year there were 1,285 Blind Persons on the Register, an increase of 97. These included 120 under 16 years of age and 1,165 adults. 28 of the latter were undergoing periods of training at the end of the year. 923 were classed as untrainable, an increase of 109.

The Association had under supervision 295 persons with seriously defective sight, 44 blind persons from other areas and approximately 100 cases not definitely classed as blind.

Examinations, when required, have been made and the necessary certificates provided by the Assistant County Medical Officers in respect of the degree of blindness and suitability for training.

METEOROLOGY.

The information given in Table IX. below has again been kindly supplied by the County Meteorological Station at Chelmsford. It will be noted that the rainfall for 1931 was slightly less than the rainfall for 1930.

TABLE IX.

OBSERVATIONS FROM THE COUNTY METEOROLOGICAL STATION AT CHELMSFORD.

		10.00							
Dry bulb readings.	Wet bulb readings.	Maximum readings.	Minimum readings.	Absolute maximum.	Date of absolute maximum.	Absolute minimum.	Date of absolute minimum.	Number of rainy days.	Rainfall in inches.
37.0	36.0	42.8	33.6	51	19th	25	10th	21	1.84
37.8	36.6	44.2	34.4	55	25th	29	Sth and	21	1.76
39.4	37.2	46.7	32.7	61	19th and	21	10th	5	0.25
46.6	44.4	53.1	39.7	66	20th 12th	32	1st	20	3.26
55.4	52.1	60.8	45.3	71	27th	38	1st	13	2.57
60.7	57.6	68.2	50.6	76	14th, 27th	38	26th	10	1.25
62.2	59.6	69.4	52.8	78	and 28th	45	1st and	16	3.21
59.9	57.5	66.2	50.6	78	5th	38	24th and	20	3.78
53.9	52.0	61.1	44.3	68	1st, 15th,	32	26th 8th	14	1.72
48.8	47.1	57.0	38.8	69	16th & 19th 6th	19	27th and	5	0.61
45.8	44.9	51.5	38.4	62	3rd	28	28th 17th	15	1.74
40.1	39,5	45.6	36.4	59	4th	23	20th and 31st	9	0.62
441			***		***	-			22.71
					1				23.10
	37.0 37.8 39.4 46.6 55.4 60.7 62.2 59.9 53.9 48.8 45.8	37.0 36.0 37.8 36.6 39.4 37.2 46.6 44.4 55.4 52.1 60.7 57.6 62.2 59.6 59.9 57.5 53.9 52.0 48.8 47.1 45.8 44.9 40.1 39.5	37.0 36.0 42.8 37.8 36.6 44.2 39.4 37.2 46.7 46.6 44.4 53.1 55.4 52.1 60.8 60.7 57.6 68.2 62.2 59.6 69.4 59.9 57.5 66.2 53.9 52.0 61.1 48.8 47.1 57.0 45.8 44.9 51.5 40.1 39.5 45.6	37.0 36.0 42.8 33.6 37.8 36.6 44.2 34.4 39.4 37.2 46.7 32.7 46.6 44.4 53.1 39.7 55.4 52.1 60.8 45.3 60.7 57.6 68.2 50.6 62.2 59.6 69.4 52.8 59.9 57.5 66.2 50.6 53.9 52.0 61.1 44.2 48.8 47.1 57.0 38.8 45.8 44.9 51.5 38.4 40.1 39.5 45.6 36.4	37.0 36.0 42.8 33.6 51 37.8 36.6 44.2 34.4 55 39.4 37.2 46.7 32.7 61 46.6 44.4 53.1 39.7 66 55.4 52.1 60.8 45.3 71 60.7 57.6 68.2 50.6 76 62.2 59.6 69.4 52.8 78 59.9 57.5 66.2 50.6 78 53.9 52.0 61.1 44.2 68 48.8 47.1 57.0 38.8 69 45.8 44.9 51.5 38.4 62 40.1 39.5 45.6 36.4 59	37.0 36.0 42.8 33.6 51 19th 37.8 36.6 44.2 34.4 55 25th 39.4 37.2 46.7 32.7 61 19th and 20th 12th 46.6 44.4 53.1 39.7 66 12th 55.4 52.1 60.8 45.3 71 27th 60.7 57.6 68.2 50.6 76 14th, 27th and 28th 24th 62.2 59.6 69.4 52.8 78 24th 59.9 57.5 66.2 50.6 78 5th 53.9 52.0 61.1 44.2 68 1st, 15th, 16th&19th 6th 48.8 47.1 57.0 38.8 69 6th 45.8 44.9 51.5 38.4 62 3rd 40.1 39.5 45.6 36.4 59 4th	37.0 36.0 42.8 33.6 51 19th 25 37.8 36.6 44.2 34.4 55 25th 29 39.4 37.2 46.7 32.7 61 19th and 21 20th 22 th 46.6 44.4 53.1 39.7 66 12th 32 55.4 52.1 60.8 45.3 71 27th 38 60.7 57.6 68.2 50.6 76 14th, 27th 38 62.2 59.6 69.4 52.8 78 24th 45 59.9 57.5 66.2 50.6 78 5th 38 53.9 52.0 61.1 44.3 68 1st, 15th, 32 16th&19th 16th&19th 6th 19 45.8 44.9 51.5 38.4 62 3rd 28 40.1 39.5 45.6 36.4 59 4th 23	37.0 36.0 42.8 33.6 51 19th 25 10th 37.8 36.6 44.2 34.4 55 25th 29 8th and 22nd 22nd 10th 39.4 37.2 46.7 32.7 61 19th and 21 10th 10th 46.6 44.4 53.1 39.7 66 12th 32 1st 55.4 52.1 60.8 45.3 71 27th 38 1st 60.7 57.6 68.2 50.6 76 14th, 27th and 28th and 28th and 21st 24th and 28th and 21st 24th and 21st 59.9 57.5 66.2 50.6 78 5th 38 24th and 26th st 53.9 52.0 61.1 44.2 68 1st, 15th, 32 8th 48.8 47.1 57.0 38.8 69 6th 19 27th and 28th 45.8 44.9 51.5 38.4 62 3rd 28 17th 40.1 39.5	37.0 36.0 42.8 33.6 51 19th 25 10th 21 37.8 36.6 44.2 34.4 55 25th 29 8th and 21 22nd 10th 22nd 10th 5 46.6 44.4 53.1 39.7 66 12th 32 1st 20 55.4 52.1 60.8 45.3 71 27th 38 1st 13 60.7 57.6 68.2 50.6 76 14th, 27th and 28th 38 26th 10 62.2 59.6 69.4 52.8 78 24th 45 1st and 21st 21st 59.9 57.5 66.2 50.6 78 5th 38 24th and 20 26th 53.9 52.0 61.1 44.2 68 1st, 15th, 16th 19th 32 8th 14 48.8 47.1 57.0 38.8 69 3rd 28 17th 15 45.8 44.9

PROPAGANDA.

- (1) Travelling Health Exhibition. The County Council assisted in providing Health Exhibitions in the following districts:—Braintree and Bocking, Brentwood, Brightlingsea, Dedham, Epping, Good Easter, Great Horkesley, Heybridge, Hornchurch, Little Clacton, North Weald, Rainham, Romford, Rowhedge, Tendring, Thaxted, Thorpe, Tollesbury, Upminster, Waltham Abbey, Weeley, Wickford.
- (2) Health Lectures. Members of the staff of the County Public Health Department gave 55 lectures during the year to Women's Institutes, Women's Guilds Nursing Associations, Brotherhoods, &c.

PART II.

TUBERCULOSIS.

Notifications.

Public Health (Tuberculosis) Regulations, 1930. A summary of the notifications made in the Administrative County of Essex during the period 28th December, 1930, to 2nd January, 1932, is given below:—

TABLE X.

		(a) FORMAL NOTIFICATIONS.											
The second of		Pri	nary	Noti	ficati	ons (of Ne	w Ca	ses o	f Tub	erculo	osis.	Total
- David - Land	_					Ag	e Per	riods.					Notifica
	-0	1-	2-9	10-	15—	-02	25-	35-	45-	-000	99	Total (all ages)	tions.
Pulmonary, Males	-	10	14	18	84	96	208	140	86	44	10	710	831
., Females	1	4	7	20	77	122	161	85	34	20	14	545	568
Non-Pulmonary, Males	19	33	51	31	20	16	27	16	5	7	_	225	302
,, Females	7	37	49	24	23	16	16	14	8	-	2	196	209

(b) SUPPLEMENTAL RETURN.

New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

	Age periods.												
	-0	1-1	5-	10-	15-	20-	25	35	46—	- 22	- 659	Total.	
Pulmonary, Males	1		4	2	11	13	27	32	33	14	12	149	
;, Females		1	2	3	15	22	34	47	10	7	4	145	
Non-pulmonary, Males	6	8	15	14	5	2	5	1	1	_	2	59	
,, Females	3	7	6	4	2	4	6	4	1	1	_	38	

The sources from which information as to the above-mentioned cases was obtained are shewn overleaf.

					No. of	Cases.
Source of Info	ormation.				Pulmonary.	Non- Pulmonary.
Death Returns from Local Registrars		***			138	52
Posthumous Notifications	112				11	10
"Transfers" from other areas (other than	transferal	ble deaths)	***	***	145	35

TABLE XI.

Number of cases of Tuberculosis remaining at	1	Pulmonar	у.	No	n pulmons	ry.	Total
the 31st December, 1931, on the Registers of Notifications kept by District Medical Officers	Males	Females.	Total.	Males	Females.	Total.	Сачев.
or account in one soundy.	4275	3783	8058	1730	1688	3418	11,476
Number of cases of Tuberculosis remaining at the 31st December. 1931, on the Registers of Notifications kept by District Medical Officers of Health in the County. August Females Total Males Females Total Males Females Total							
Number of cases removed from the Registers during the year by reason inter a/ia of: 1. Withdrawal of notification 2. Recovery from the disease		44	78	14	23	37	115
2. Recovery from the disease	29	31	60	26	29	55	115
3. Death	438	324	762	52	39	91	853

TABLE XII.

SHOWING ATTACK AND DEATH-RATES FROM TUBERCULOSIS IN THE ADMINISTRATIVE COUNTY OF ESSEX.

		Pulm			1	Tubero		У			culosis 'orms).	
YEAR.	Noti- fica- tions.	Kate per 1,000 Pop.	Deaths.	Rate per 1,000 Pop.	Noti- fica- tions.	Rate per 1,000 Pop.	Deaths.	Rate per 1,000 Pop.	Noti- fica- tions.	Rate per 1,000 Pop.	Deaths.	R 1, Pc
1912-16	N	ot	851	0.86	N	ot	269	0.27	N	ot	1120	1
1917-21	avail	able	752	0.89	avail	able	199	0.24	avail	able	951	1
1922-26	1110	1.16	656	0.69	320	0.34	148	0.15	1430	1.50	804	0
1926	1240	1.25	616	0.62	359	0.36	141	0.14	1599	1.61	757	0
1927	1178	1.14	677	0.66	351	0.34	146	0.14	1529	1.48	823	0
1928	1011	0.93	677	0.63	365	0.33	135	0.12	1376	1.26	812	0
1929	996	0.90	716	0.64	361	0.32	133	0.12	1357	1.22	849	0
1930	1110	1.00	704	0.63	414	0.37	129	0.12	1524	1.37	833	0
1931	1255	1.05	777	0.65	421	0.35	162	0.13	1676		939	0

TABLE XIII.

Showing Deaths from Tuberculosis Registered with Local Registrars of Births and Deaths in the Administrative County during 1931, and Particulars Regarding Notification under the Public Health (Tuberculosis) Regulations (Transferable Deaths are excluded).

						Whe	en Noti	fied.		excuu	
DISTRIC	rs.		No. of Deaths.	After Death	Within 3 months of death.	Within 3-6 months of death.	Within 6-12 months of death.	Within 1-2 years of death.	Within 2-4 years of death.	More than 4 years before death.	No Informatio
Urban					1	1					
Barking	***	100	38		10	3	6	5	8	5	1
Senfleet	***		10	***	2	2	1	2		***	3
Braintree		***	8	***	2	2	000	ï	2	1 2	1
Brentwood Brightlingsea			4	***	1		***		110	1	2
Buckhurst Hill		***	1					1	***		
Burnham-on-Crouch			2		1	40.	***	***	1	***	***
anvey Island			6		4	r	-	2	**3	***	***
Chingford B.			17 13	1	3	2	4	1	3	3	3
lacton-on-Sea		***	10	***				3	3	1	3
olchester B.	***	***	44	2	9	3	3	8	4	5	10
Dagenham		- 1	85	2	17	5	7	15	9	7	23
Epping	144	***	3	1	1	1	ï			***	***
Frinton-on-Sea Frays	***		15		i	3	2	**	4	2	3
Halstead	141	***	7	440	î	2	1	***		3	
Harwich B.		144	6	1			16 10	1	1	2	1
Hornehurch			20	2	5		3	1	2	2	7
Ilford B Leyton B	***	***	70 93	10	16 17	7 4	9	11 17	11	16	1
Leyton B Loughton	***	***	2	10					2	200	
Maldon B.		***	7		1	1	1	1	2	2	ï
Purfleet	141		4	1	2		***		1	***	***
Rayleigh		***	4		1			***		2	1
Romford Saffron Walden B.	***		21	1	3	2	2		2	5	6
Shoeburyness		**	1 5	***			1	***	1	2	ï
Tilbury	***		13	2	2	1	î	2	1	3	i
Waltham Holy Cros	8		3	***	1		**	2	1		1
Walthamstow B.			69	6	20		9	9	10	10	5
Walton-on-the-Naze Wanstead		***	1 6	200	***	ï	ï	***	**		1
West Mersea		***		1		1	1				
Witham			1	***			1				
Wivenhoe	***	***	2	12	177	1	112	1			100
Woodford		***	13	1	1	2	4	***	2	1	2
Paul	Totals		609	30	121	43	68	84	79	97	87
Rural.			2		1			1	1 mars	200	
Billericay	11.		16	1	5			1	2	4	3
Braintree	***	***	7	1	1	2	1	1	20.1	***	1
Bumpstead Chelmsford	***			1	1 220	***	1				5
Dunmow		***	7 6	1	1	i	1	ï	2	2	
Epping		***	5	111	i	3				1	
Halstead	***		6	***	1	1	3	1	1		100
Lexden and Winstre			20	1	5	1 2	2	2	2	2 2	5
Maldon Ongar		***	0		2		**	1 2	***		2 5
Orsett		***	0	1	3			1	1	2	1
Rochford			10		***	1	3		2	1	ŝ
Romford								1	1		2
Saffron Walden	***	221	1		***	1	100	200	1 7	1	22.5
Stansted Tendring		***	15		3	ï	2	2	1 3		4
0	-		127	5	21	12	12	14	15	15	33
Totals	448		100000000000000000000000000000000000000	1	_		-	-			
Totals		-	600	20	191	49	60	21	70	0.7	0
		-	609	30 5	121 21	43 12	68 12	81	79	97	87 33

Dispensaries.

A list of Tuberculosis Dispensaries as at the end of December, 1931, is given on page 50.

At the beginning of the year arrangements were completed with the Authorities at the King George V. Hospital, Ilford, for utilising the Out-Patient Department of the Hospital at Five Elms, Dagenham, as a Tuberculosis Dispensary.

Table XV. shows the work done at the Dispensaries during the year. The special efforts commenced in previous years to ensure that the Dispensary Registers only contain the names of those patients about whom definite information is available have been continued and have resulted in the removal from the Registers of a number of cases for various reasons. A pleasing feature of the work done at the Dispensaries is the large number of contacts examined during the year. There were 1,651 contacts examined as compared with 978 examined during 1930, and it is hoped that this branch of the dispensary work will continue to increase.

X-Ray examinations also continue to increase, as has been anticipated in previous reports. There were 1,224 examinations during the year as compared with 938 examinations during 1930, apart from 113 carried out at Black Notley.

The remainder of the work at the dispensaries has been satisfactory and calls for no special comment this year.

Institutional Treatment.

Tables XVI. to XIX. give particulars of the extent of institutional treatment during the year. Full use was made of the 500 beds allowed in the estimates. A fluctuating waiting list makes it difficult to always have available a sufficient number of beds for all types of cases, but with few exceptions, it was possible to find accommodation for patients without an over-long waiting period.

(1) COUNTY SANATORIA.

(a) Black Notley Sanatorium. One of the wooden pavilions previously used at the old sanatorium was adapted with the addition of four shelters in order to provide accommodation for twenty male patients suffering from non-pulmonary tuberculosis, increasing the total accommodation to 184 beds. It has not been possible to keep these twenty beds always occupied, but by a different use of twelve beds at the Ilford Sanatorium it is hoped that shortly it will be possible to have all surgical cases of tuberculosis treated at the Black Notley Sanatorium. This will facilitate the supervision of the cases by Sir Henry Gauvain, the Consulting Surgeon to the County Council.

At my request the following report has been submitted by Dr. M. C. Wilkinson, Medical Officer of the Black Notley Sanatorium, upon the work carried out at that Institution during 1931:—

The opening of the X-Ray Department and of the block for the treatment of male patients suffering from non-pulmonary tuberculosis were the chief developments in the work of the sanatorium during 1931.

The X-Ray Department was opened at the end of January. The apparatus consists of a 10 K.V. transformer unit, a couch equipped for taking radiographs of recumbent patients, and a stand for screening and radiography in the upright position. The couch is fitted with a Potter-Bucky attachment; Cuthbert Andrews tubes are used with both sets of apparatus. Adjoining the X-Ray Room is a Developing Room and a room specially built for the storage of films.

Dr. Burton Wood, in an article in the Report of the Medical Officer of Health for the year 1930, says:—"Fortunately the great advance in the science of radiography has enabled us to dispense with guess work, and to diagnose the presence of tuberculous disease in its early stages, with a confidence and accuracy impossible half-a-dozen years ago. Needless to say, such precision is only possible when skiagrams are of first-class quality." With the apparatus and expert guidance of Dr. Franklin Wood available at Black Notley, it has been possible to maintain the standard of radiography at this requisite level.

The number of radiograms taken during 1931 was a thousand and fifteen. A hundred and thirteen of these were of out-patients. In addition, a large number of screen examinations were made, this method being in daily use to control the refills of pneumo-thorax cases. Radiography after Lipiodol injection has also been used by Dr. Burton Wood in special cases.

On March 30th the men's surgical block was opened. This contains twenty beds for non-pulmonary cases. Twelve of these beds are in a wooden pavilion which formed part of the old Black Notley Sanatorium. Eight beds are in four double-bedded shelters which adjoin the pavilion. At the time of writing this report a verandah has been built on to the pavilion, thus affording facilities for Sun Treatment. During 1931 thirty-six patients were admitted to this block.

The total number of patients admitted to the sanatorium in 1931 was three hundred and nineteen: the number of patients discharged was three hundred and four: the patients admitted were as follows:—

To the women's pulmonary pavilions			135
To the children's medical pavilion			68
To the children's surgical blocks			48
To the women's surgical ward			32
To the men's surgical block	(a., a)	Mary and	36

Of the one hundred and thirty-five patients admitted to the pulmonary pavilions, ninety-six were between the ages of fourteen and twenty-eight. Of the latter number many were suffering from the acute form of phthisis which occurs in early adult life. The number of cases under pneumo-thorax treatment therefore remained high, fifty-one cases receiving this form of treatment during 1931: in two of these cases the operation of thoracoscopy was also performed. Other accessory forms of treatment were phrenic evulsion, which was performed in seven cases, and treatment by Sanocrysin injections, courses of which were given in ten cases.

The number of patients admitted to the surgical blocks during the year was a hundred and sixteen: of these, the majority were cases of tuberculosis of bones or joints. An adjustment in the accommodation for these patients was made by admitting children to the pavilion which was formerly used entirely for women. Eighteen beds in this pavilion are now available for children, and it has been termed the No. 2 Children's Surgical Block.

The number of patients requiring operation in 1931 was fifty-four. In addition, there were a hundred and thirty-five minor operations, such as incision or aspiration of abscesses, performed in the wards. Ninety-five patients have received courses of Artificial Light Treatment. The number of celluloid splints made for patients on discharge was twenty-seven.

We enjoy the great advantage of a visit by Sir Henry Gauvain each month.

The following special visits were made to the sanatorium :-

On April 17th, the County Medical Officer arranged the visit of the Conference of Health Visitors; on May 16th Alderman F. D. Smith visited the sanatorium with a party of the Rotarians of Ilford; on September 12th a Conference of Essex Tuberculosis Care Associations was held at the sanatorium and a discussion on Colonies for Tuberculosis patients took place under the chairmanship of Alderman F. D. Smith.

The co-operation of Miss M. D. Williams, Dispenser-Clerk, has made it possible to do the routine sputum examinations at the sanatorium and to increase the amount of laboratory work done. The total number of bacteriological examinations made in 1931 was five hundred and thirty.

In April, 1931, an outbreak of mild scarlet fever occurred in the No. 1 children's surgical block; there were ten cases in all. As this was the second outbreak occurring in this ward, it was decided to test all children on admission to the surgical blocks for susceptibility to scarlet fever, and to immunise those susceptible.

The number of dental treatments in 1931 was one hundred and thirtyfour.

The number of children who were of school age, and who came under instruction from the teachers in 1931 was one hundred and twenty-eight. The majority of these were bed patients. This constituted an increase in the number of children requiring instruction which was met provisionally by a re-organisation of the time-table, whereby additional time was provided by the teachers.

I append statistics of the results of treatment of patients who were discharged in 1931.

(Signed) M. C. WILKINSON, Resident Medical Officer.

20th April, 1932.

Discharges from January 1st to December 31st, 1931. Adults.

		Q	uiescent	Improve	d.	Not Improved.
Pulmonary tuberculosis	between	14—28		The lates		mil i mil
years			36	 40		16
Pulmonary tuberculosis	s over 28	years	9	 13		8
Observation cases disch	arged as n	egative	18	 -		-
Admitted as tuberculou	is, diagnos	sis not				
confirmed			1	 _		1
Tuberculous cervical ac	denitis		5	 -		2
Tuberculous peritonitis			9	 -		1
Tuberculous pleurisy			3	 -		_
Tuberculous spine			4	 3		2
Tuberculous hip			3	 2		_
Tuberculous knee			2	 2		-
Other joints			8	 _		_
Lupus			2	 		all residents
Various			7	 4		2
			107	 64		32

Children.

		(Quiescent		Improve	d.	Not Improved.
Pulmonary tuberculo	sis under 14		2		_		1
Observation cases, di	scharged as ne	gative	29		_		_
Admitted as tubercul	lous, diagnosis	not					
confirmed			5		-		_
Tuberculous cervical	adenitis		18		4		1
Tuberculous pleurisy			4				-
Primary infection of	childhood		6		-		-
Tuberculous spine	25		6		1		1
Tuberculous hip			4		_		-
Tuberculous ankle			5		_		-
Other joints			3		1		-
Various	10 Mar 12 16	***	7	2.5	1		2
			89		7		5

- (b) Harold Court Sanatorium. A new pavilion of twenty beds was erected at the sanatorium during the year to replace an old pavilion. With this new pavilion and the continued use of a number of shelters the accommodation at this sanatorium was increased from 60 to 70 beds. The improvements in treatment recorded during recent years have been well maintained.
- (c) High Beech Sanatorium. The number of beds at this sanatorium was reduced from 36 to 32, which is proving adequate for the type of case now admitted, i.e., children suffering from tubercular glands and convalescent children from the Black Notley Sanatorium.

(2) Institutions under Agreement.

No changes in the number of beds available or the types of cases admitted, have been made in connection with the Colchester, Chingford and Ilford Sanatoria.

(3) Institutions not under Agreement.

Despite the increases and improved accommodation available at County Sanatoria, it was necessary for an average number of 178 beds to be taken at various Institutions outside the County.

Tuberculosis Care Associations.

Table XX shows the work carried out by Care Associations during the year.

A new Care Association to serve Grays and District commenced to function towards the end of the year and should find plenty of scope for its activities in that particular area.

Grants were made by the County Council as follows to the Care Associations for "After-Care" purposes in respect to the year ended 31st March, 1932:—

Care Association.		Amount of Grant.	Care Association.	A	mount of Grant.
Barking	 	40	Leyton	 	90
Chelmsford	 	50	Romford	 	40
Dagenham	 	50	Saffron Walden		25
Halstead	 	15	Walthamstow	 	90
Ilford	 	80			

In addition to these grants, the County Council make a grant of not exceeding £20 per annum to each Care Association for expenditure in connection with printing, stationery, &c.

A pamphlet explaining the County Scheme for the treatment of Tuberculosis has now been issued to the Care Associations for distribution as and when necessary.

elters.

During the year an average number of 84 shelters was in use by patients at their mes.

avelling Facilities for Patients.

An amount of £72 6s. Od. was expended during the year in providing cessitous patients with free travelling vouchers upon admission or discharge from stitutions and special visits to "Out-patient" Departments.

ctra Nourishment.

During the year 66 patients were granted extra nourishment vouchers at a set of £73 12s. 5d.

ublic Health (Prevention of Tuberculosis) Regulations, 1925. ublic Health Act, 1925. (Section 62).

No action was taken during the year by the County Council under the above egulations and Act.

ew Cases and Mortality during 1931.

The following table is supplied at the request of the Ministry of Health :-

NEW CASES AND MORTALITY DURING 1931.

				New	Cases.			Dea	aths.	
Ag	ge Peri	ods.	Pulmo	nary.	Non-pu	lmonary.	Pulmor	nary.	Non-pul	nonary
			M.	F.	M.	F.	М.	F.	M.	F.
			 1	1	25	10	1	1	13	5
_			 10	5	41	44	1 3	1	18	20
			 18	9	66	55	} 7	5	14	
-			 20	23	45	28	1	9	14	14
-			 95	92	25	25	} 78	85	8	12
-			 109	144	18	20	1		1 1 1 1 1 1	
-			 235	195	32	22	113	123	10	8
-			 172	132	17	18	97	55	6	6
-			 119	44	6 7 2	9	79	35	4	7
			 58	27	7	1	45	18	7	8 6 7 5 3
and upwards	ds	 22	18	2	2	21	10	2	3	
			859	690	284	234	444	333	82	80

TABLE XIV.

DISPENSARIES AND VISITING STATIONS AT 31st DECEMBER, 1931.

DIS	PENSARIES AND	VISITING STATIONS AT	DIST DECEMBER, 1991.
	Address	Hours of Attendance.	Tuberculosis Officer.
1	Barking- 37, Linton Road	Mondays, 3 to 5 p.m. Thursdays, 10.30 a.m. to 12.30 p.m.	Dr. C. Leonard Williams
2	BRAINTREE— 71, Rayne Road	Wednesdays, 11.30 a.m. to 1 p.m.	Dr. J. S. Bradshaw
3	BRENTWOOD— 39. Queens Road	Wednesdays, 4 to 6 p.m.	Dr. J. Harper
4	BRIGHTLINGSEA— New Church Schools	Wednesdays, 1st and 3rd in each month, 2 to 3 p.m.	Dr. W. A. Milne
5	CHELMSFORD— General Hospital,	Fridays, 2 to 4 p.m.	Dr. J. C. Sleigh
6	London Road CLACTON— Skelmersdale Road	Fridays, 11 a.m. to 12 noon	Dr. W. A. Milne
7	Colchester— 12, Trinity Street	Tuesdays, 10.30 a.m. to 12.30 p.m. Thursdays, 10.30 a.m. to 12.30 p.m.	Dr. W. F. Corfield Dr. W. H. Alderton
8	DAGENHAM - King George V. Hospital, Five Elms	Mondays, 9.30 to 11.30 a.m. Thursdays, 9.30 to 11.30 a.m.	Dr. W. L. Yell
9	DUNMOW- 47, Stortford Road	Tuesdays, 1st and 3rd in each month, 10.30 to 11.30 a.m.	Dr. J. S. Bradshaw
10	Epring— Women's Institute, St. John's Road	Tuesdays, 11 a.m. to 1 p.m.	Dr. L. S. Fry
11	GRAYS— Hilldrop House, 59, London Road	Mondays, 4 to 6 p.m. Thursdays, 2 to 4 p.m.	Dr. J. Harper
12	HALSTEAD — Gut-Patients' Dept., Cottage Hospital	Wednesdays, 11.30 a.m. to 12.30 p.m.	Dr. J. S. Ranson
13	HARWICH— 27. West Street	Tuesdays, 11 a.m. to 12 noon.	Dr. J. Ramsbottom
14	ILFORD— 130, Cranbrook Road	Mondays, 7.30 to 8.30 p.m. Tuesdays, 3 to 5 p.m. Wednesdays, 10 a.m. to 12 noon. Fridays, 3 to 5 p.m.	Dr. W. L. Yell
15	LETTON— 180, High Road	Mondays, 2 to 4 p.m., and 6 to 8 p.m. Tuesdays, 10 a.m. to 12 noon. Thursdays, 10 a.m. to 12 noon, and 2 to 4 p.m. Fridays, 2 to 4 p.m.	Dr. T. L. Ormerod
16	Maldon— Wantz Chase	Tuesdays, 2nd and 4th in each month, 10.30 to 11.30 a.m.	Dr. E. Miles
17	ROMFORD— 29, Eastern Road	Tuesdays and Fridays, 9.30 a.m. to 12,30 p.m.	Dr. V. Feldman
18	SAFFRON WALDEN— General Hospital	Tuesdays, 1st and 3rd in each month 2 to 4 p.m.	Dr. S. R. Richardson
‡19	SOUTHEND— 30, Clarence Street	Wednesdays, 2.15 (Men) 3.15 (Women)	Dr. N. S. R. Lorraine
20	WALTHAMSTOW— Old Monoux School, High Street	Mondays, 2 to 4 p.m. Tuesdays, 2 to 4 p.m. Wednesdays, 10 a.m. to 12 noon, and 6 to 8 p.m. Thursdays, 2 to 4 p.m. Fridays, 10 a.m. to 12 noon	Dr. J. Sorley
21	WEELEY- Tendring R.D.C. Offices	Saturdays, 10 a.m. to 1 p.m.	Dr. J. Ramsbottom
22	Woodforn - The Shrubbery, High Rd.	Thursdays, 5 to 7 p.m.	Dr. T. L. Ormerod

[‡] For cases from Rochford Rural District, Benfleet, Rayleigh and Shoeburyness Urban Districts by arrangement with the County Borough of Southend.

TABLE XV.

SHOWING THE WORK OF THE DISPENSARIES DURING THE YEAR 1931.

	DEST NAME OF	P	ULMO	NART		Non	r-Poi	LMON	ARY.		Тот	AL.		
	DIAGNOSIS.	Adu	ilts.	Chil	dren	Adı	ılts.	Chil	dren	Adu	ilts.	Chil	dren.	GRAND TOTAL.
	and pathod with all tab	м.	F.	м.	F.	М.	P.	м.	F.	м.	F.	м.	F.	
A	-New Cases examined during the year (excluding contacts):— (a) Definitely tuberculous (b) Diagnosis not completed (c) Non-tuberculous	447	361	5	9	33	23	64	46	480 36 524	384 34 522	69 38 450	55 19 385	988 127 1881
В	-Contacts examined during the year:— (a) Definitely tuberculous (b) Diagnosis not completed (c) Non tuberculous	-	54	2	3	1	6	6	2	48 7 275	60 9 314	8 13 430	5 14 468	121 43 1487
C	-Cases written off the Dispensary Register as (a) Recovered (b) Non-tuberculous (including any such cases previously diagnosed and entered on the	57	48	34	24	14	21	48	38	71	69	82	62	284
	Dispensary Register as tuberculous)					***				829	895	949	919	3592
0	-Number of Cases on Dispensary Register on Dec. 31st:— (a) Definitely tuberculous (b) Diagnosis not completed	1994	1558	190	174	218	257	600	490	2212 43	1815 43	790 51	664	5481 170
2.	Number of cases on Dispersion Register on January 1st Number of cases transferred from areas and cases returned a charge under Head 3 in previous Number of cases transferred that areas, cases not desiring furth tance under the scheme, as "lost sight of"	om ot fter ous ye to ot ner as	her dis- ears ther esis-	6135 620		9.	Num Vis	home ions) ber o sitors	of vis	its by	Nurs s for	es or Disp	Healt ensar	1- 2272
4.	Cases written off during the year (all causes)	r as d	lead	539			(α) (b)	X-ra	ed y exa	mina	tions 1	made ensar	in cor	2446
6.	Number of attendances at the sary (including contacts) Number of insured persons undeciliary treatment on the 31st I	er do	mi-	21480 1013		11.	to	Dispe	ensary	y Reg	ister :	ases r and ir	nclude	d
7.	Number of consultations with practitioners:— (a) Personal (b) Other	h m	edica	650 3258		12.	Num	nber o	of "T Regi	B. p.	lus" c n Dece	ases o	on Dis	8- 2100

TABLE XVI.

(e) Showing the Immediate Results of Treatment of Definitely
Tuberculous Patients Discharged During the Year from
Institutions.

-	on on o the on.			I	Durat	ion o	of Re	siden	tial 7	Freat	ment	in t	he Ir	stitu	tion.			
	Classification on admission to the Institution.	Condition at time of discharge.	l' n	nder	3	3-6	mon	ths.	6-12	mon	ths.	Mo 12	ore the	han ths.	Т	OTAL	.8.	GRAND TOTALS.
	adm In		M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	
70	Class T.B.	Quiescent Not quiescent Died in Institution	9 33 1	20 15 1	2	2 10 	7 12 2	**	8 5 3	5 4	1 2 1	3 6	2 1 1	2	22 54 4	34 32 4	5 2 1	61 88 9
TUBERCULOSIS.	Class T. B. plus. Group 1.	Quiescent Not quiescent Died in Institution	1 12	8 12 3		3 12 	2 7	1 1	3 1	1 1	ï	1 4 2	1 4	ï	5 31 3	12 24 3	3 1	17 58 7
PULMONARY 7	Class T.B. plus. Group 2.	Quiescent Not quiescent Die l in Institution	5 105 28	12 40 7		2 46 7	10 29 3		6 21 3	4 27 1	ï	1 11 5	7 9 1	1	14 183 43	33 105 12	1 1	48 288 56
I	Class, T.B. plus. Group 3.	Quiescent Not quiescent Died in Institution	1 4 6	4 5		7 5	1		1 2	3		1 1	ï		2 12 14	1 8 6		3 20 20
LOSIS.	Bones and Joints.	Quiescent Not quiescent Died in Institution	1 4	3 1	5	3	1 1	2	6 1	4 4	13 2	1 1 4	5	21	11 6 4	13 6 1	39 8	63 20 5
TUBERCULOSIS.	Abdo- minal.	Quiescent Not quiescent Died in Institution		2 1 	2 1	1	1 1	2	1	1 1 1					2	4 3 1	1 1 1	10 4 2
NON-PULMONARY	Other Organs.	Quiescent Not quiescent Died in Institution	5	1 2	1		1	1	1	1	2	1			2 5	3 2	4	9 7
Now-	Peri- pheral Glands.	Quiescent Not quiescent Died in Institution	2	2 1	21 8 	1	3	20 3 1	2 2		17			4	4 1 2	5 1	62 11 1	71 13 3

TABLE XVIII

Non-Pulmonary Tuberculosis.

Table showing in summary form (a) the condition at the end of 1931 of all patients remaining on the Dispensary Registers and (b) the reasons for the removal of all cases written off the Registers.

			Prev	ious to	1926.				1926.					1927.					1928.					1929.					1930.					1931.		
tion at the tin made during ich the Retur	me of the last g the year to rn relates.	Benes and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	TOTAL	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glanda.	TOTAL.	Bones and Joints.	Abdominal.	Other Organa.	Peripheral Glands.	TOTAL.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Sones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	TOTAL.	Bones and Joints.	Abdominal.	Other Organa.	Peripheral Glands.	TOTAL.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral	Glands.
	Adults. M.	25	1	4	1	31	7			1	8	7	1	2	3	13	8	2	1	2	13	4	, 1	4	1	10	1		1	1-00	1	1	1	1	1	
arrested.	F.	16	1	7	10	34	3	2	3	4	12	7	2	2	1	12	3	3	1	7	14	7	2	1	8	18	3	2	2	3	10	1	1		3	
	Children.	85	23	18	76	202	38	13	2	37	90	23	7	3	34	66	13	7	2	29	51	9	11	4	36	60	11	5	3	39	58	3		1	2	
	Adults. M.	16		10	4	30	2	1	1		4	5	2	2		9	3	1	3	1	8	7	3	4	7	21	9		3	8	20	13	4	8	8	
Disease not arrested.	F.	13	4	7	5	29	2	1	3	2	8	4	2	3	5	14	7	2	3	1	13	10	5	5	6	26	9	5	4	6	24	12	6	4	7	
acresses.	Children.	36	6	5	13	60	9	1	1	13	24	21		2	16	39	21	2	1	27	51	15	5	3	51	76	32	6	3	66	107	51	27	12	97	
ondition not ing the year	ascertained dur-	5	3	2	1	11	:	3	1		5	4		1	4	9				1	1	2	3	2	2	9	1	1000		1	2				T.,	Ì
Total on Disp at 31st Decem	pensary Register mber	196	38	53	110	397	62	21	11	57	151	71	14	14	63	162	55	17	11	68	151	54	30	25	111	220	65	18	16	123	222	91	39	25	117	
ansferred to l	Pulmonary		1			1																			1	1										1
	М.	12	4	2	6	24	4	1	2	3	10	2		1	2	4	1		1	1	3					741								1	1	1
Discharged as recovered.	F.	23	7	2	19	51	6	2	1	5	14	1	***			1																			1	
	Children.	58	21	15	119	213	4	6	1	11	23	5	2		10	17	1	1		3	5			1	14									-		-
Lost sight of moved fro Register	d or otherwise re- om Dispensary	207	119	83	143	552	65	31	25	133	254	50	18	10	46	124	37	22	13	46	118	26	14	6	31	77	15	6		22	49	3	3	2	6	
	Adults. M.	21	3	5	4	33	2	1	2		5		3	1	1	5	2		1	2	5	3	1	1		5	2		,	1	4			2	2	t
DEAD.	F.	8	3	2	3	16	4	1		1	6	5	5	1	1	12	2	2	2	1	7		1		1	2	3		1	1	5		1			
	Children.	11	4	2	2	19	5	2	1		8	4	2		1	7	1	2		2	5	1	1			2	1	1			2	1	3	1		
Total writter Register	n off Dispensary	340	161	111	296	908	90	44	32	153	319	67	300	12	61	170	44	27	17	55	143	30	17	7	32	86	21	7	8	24	60	4	7	5	8	
GRAND TOT (excluding to Pulmonar	those transferred	536	199	164	406	1305	152	65	43	210	470	138	44	26	124	332	99	44	28	123	294	84	47	32	143	306	86	25	24	167	282	85	46	30	125	2

TABLE. XIX.

(a) Showing the extent of Residential Treatment and Observation during the Year in Institutions (other than Public Assistance Institutions).

		In Institutions on Jan. 1st.	Admitted during the year. (2)	Discharged during the year. (3)	Died in the Insti- tions. (4)	In Institu- tions on Dec. 31st. (5)
	Adult males	8	30	34	2	2
Number of doubtfully tuberculous cases ad- mitted for observation	Adult females	4	36	40	_	
intered for observation	Children	20	70	78	-	12
	Total	32	136	152	2	14
	Adult males	190	399	343	59	187
Number of definitely tuberculous patients admitted for treatment	Adult females	160	268	261	17	149
admitted for treatment	Children	131	125	139	4	114
	Total	481	792	743	80	450
GRAND TOTAL .		513	928	895	82	464

(b) Particulars of number of Tuberculosis Patients admitted to Public Assistance Institutions during 1931 for Treatment under the Tuberculosis Scheme.

		In Institu- tions on Jan. 1st. (1)	Admitted during the year. (2)	Discharged during the year. (3)	Died in the Insti- tions. (4)	In Institu- tions on Dec. 31st. (5)
Lancino de la	Adult males	4	24	11	11	6
Number of definitely tuberculous patients admitted for treatment	Adult females	4	40	25	10	9
	Children	-	3	1	1	1
	Total	8	67	37	22	16

These figures have been included in (c).

(c) Showing the Extent of Residential Treatment provided during the Year in Public Assistance Institutions.

		In Institu- tions on Jan. 1st. (1)	Admitted during the year. (2)	Discharged during the year. (3)	Died in the Insti- tions. (4)	In Institu- tions on Dec. 31st. (5)
	Adult males	47	131	83	44	51
Number of patients suffering from pulmon- ary tuberculosis ad- mitted for treatment	Adult females	46	170	70	103	43
and segregation.	Children	1	4	2	1	2
	Total	94	305	155	148	96
	Adult males	6	9	2	6	7
Number of patients suffering from non-pul- monary tuberculosis	Adult females	4	40	28	1	15
admitted for treatment and segregation.	Children	5	8	10	1	2
	Total	15	57	40	8	24
GRAND TOTAL .		109	362	195	156	120

(d) Showing the Results of Observation of Doubtfully Tuberculous Cases Discharged during the Year from Institutions.

Diagnos	Diagnosis on					MONA			F		NON-I			Y	T	Totals.			
discharge from observation.				y une			y ov week			y und		Stay over 4 weeks.			1				
			M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.		
Tuberculous			7	3	2	3	8	11	-	-	-	2	2	10	12	13	23		
Non-tuberculo	us		11	18	14	8	5	22	_	2	3	3	1	16	22	26	55		
Doubtful			-	1	-	-	_	-	_	-	-	-	-	-	-	1	-		
Died			1	-	-	-	-	-	-	-	-	1	-	-	2	-	-		
TOTALS			19	22	16	11	13	33	_	2	3	6	3	26	36	40	78		

TABLE XX.

TUBERCULOSIS CARE ASSOCIATIONS IN ESSEX.

(The information given in this Table is in respect to the year ended 31st March, 1932).

Name of	Day and Time of	Income including	Expenditure.	Total No. of	Nature of
Association.	Meetings.	Balance in hand.	Assist- Other Items.	Cases assisted.	Assistance Provided.
BARKING	Third Wednesday in each month at 8 p.m.	£ s. d. 285 14 4	£ s. d. £ s. d. 66 0 1 1 18 10	20	Extra Neurishment Clothing Fares
CHELMSFORD	Third Monday in each month at 7 p m.	341 2 1	165 14 1 39 2 9	32	Extra Nourishment Clothing Convalescent Holida Treatment Loan of Appliances
Dagenham	Third Tuesday in each month at 8.15 p.m.	406 7 8	238 10 0 21 9 6	58	Extra Nourishment Clothing Convalescent Holida Treatment
Grays	Third Monday in each month at 5.30 p.m.	109 0 5	4 7 10 2 6 5	7	Extra Nourishment Clothing Ambulance Fares, &c
HALSTRAD	Second Tuesday in each month at 3 p.m. (except August)	Drawn from Central Fund of Halstead Care of Children Committee	8 5 6 6 3	6	Extra Nourishment Clothing
ilford	First Tuesday in each month at 7.30 p.m.	642 6 11	471 18 5 24 4 8	89	Extra Nourishment Clothing Dentures Convalescent Holiday Treatment
I EYTON	Third Friday in each month at 7.30 p.m.	659 9 1	472 7 7 33 4 6	141	Extra Nourishment Convalescent Holiday Treatment Advisory
Rомгово	Fourth Thursday in each month at 8 p.m.	626 12 1	258 17 3 23 13 8	55	Extra Nourishment Convalescent Holiday Treatment Advisory
SAFFRON WALDEN	Fourth Tuesday in each month at 2.30 p.m.	152 8 6	138 11 3 5 10 0		Extra Nourishment Convalescent Holiday Treatment
Walthamstow	First Friday in each month at 7 p.m.	506 8 5	270 6 10 44 4 8	131	Extra Nourishment Nursing Fares to Hospital Assistance towards Appliances Convalescent Holiday Treatment

PART III.

MATERNITY AND CHILD WELFARE ACT, 1918. NOTIFICATION OF BIRTHS ACTS, 1907 & 1915.

(1) COUNTY AREA. The County Council was responsible during the year 1931 for administering the above Acts in the following 34 Sanitary Districts:—

The information in the following table is obtained from (a) the births actually notified to the County Health Department, (b) particulars of unnotified births furnished by the local Registrars of Births and Deaths, and (c) deaths of mothers and infants and notifications of Puerperal Fever and Ophthalmia Neonatorum as given by the Registrar-General.

		Census Popula-	No. of notifi	Births ed by	No. of Births	Deaths	Deaths of		Notifi- ons of
Sanitary Districts.	Acreage	tion, 1931.	Mid- wives.	Doctors and Parents.	Unnoti- fied.	Infants under 1 year.	Mothers in child- birth.	Puer- peral Fever.	Oph- thalmia Neona- torum,
Maldon B. Saffron Walden B. Benfleet U. Braintree U. Brentwood U. Brightlingsea U. Burnham-on-Crouch U. Canvey Island U. Chingford U. Epping U. Frinton-on-Sea U. Halstead U. Hornchurch U. Purfleet U. Rayleigh U. Shoeburyness U. Walton-on-the-Naze U. Witham U. Wivenhoe U. Belchamp R. Billericay R. Braintree R. Bumpstead R. Dunmow R. Epping R. Halstead R. Maldon R. Ongar R. Rochford R. Saffron Walden R. Stansted R. Tendring R.	3,004 7,502 6,356 2,224 460 2,852 4,507 4,351 2,810 1,420 419 6,783 8,900 5,644 1,031 1,951 3,171 3,712 1,562 11,562 11,873 73,501 39,057 38,715 81,961 47,236 58,465 16,376 59,976 52,952 72,239	6,559 5,930 12,091 8,912 7,209 4,145 3,395 3,530 22,051 4,956 2,196 5,878 28,417 8,511 6,256 6,717 3,066 2,067 4,367 2,193 3,983 39,694 21,876 2,304 15,564 17,345 9,843 16,280 11,520 17,046 15,102 9,691 6,981 24,083	28 30 68 85 45 2 19 26 115 16 2 22 171 95‡ 42 93 2 4 36 6 23 346 175 26 111 99 47 114 73 153 81 93 55 246	66 23 84 59 59 44 25 8 153 69 8 64 298 47‡ 23 15 35 19 32 20 15 240 158 102 169 110 96 353 90 45 47 140	3 3 14 4 3 3 3 1 1 1 2 2 4 4 26 1 8 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1 1 1 2 3 2 2 2 2 2 3 3 6 1 5 4 7 9 3 8 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	1 1	1 1 1 3	1
Totals	709,905	359,758	2,549	2,725	253	276	22	20	12

From 1st April, 1931.

On 1st April, 1931, the Purfleet (Transfer of Maternity and Child Welfare Services) Order, 1931, came into operation transferring from the Purfleet Urban District Council the powers under the Notification of Births Acts to the County Council.

(2) Medical Staff. Particulars in regard to the Medical Staff are given on page 11.

(3) HEALTH VISITORS. In April, 1931, an additional Health Visitor was appointed to serve the Rochford and Billericay area, and in September, 1931, a Relief Health Visitor was appointed. This Health Visitor is sent from the Central Office to any area where assistance is required owing to illness, absence on holiday, arrears of work, &c.

By arrangement with the Orsett Rural District Council, their two Health Visitors undertook Child Welfare duties for the County Council in the Purfleet Urban District.

On 31st December, 1931, the Health Visiting Staff undertaking Child Welfare work on behalf of the County Council numbered as follows:—

N.B.—The above figures do not include the Chief Health Nurse and her Assistant.

The District Nurse-Midwives continued to assist the Health Visitors as far as possible.

A summary of the work undertaken during the twelve months ended 31st December, 1931, is given in Table XXII.

In April, 1931, the revised Instructions to Health Visitors were issued, an additional section being included relating to Infant Life Protection duties.

A successful Conference of Health Visitors was held at the County Hall, Chelmsford, on 17th April, 1931.

Facilities were granted by the County Council for one School Nurse and one Tuberculosis Nurse to participate in the County Council's scheme for probationer Health Visitors, whereby they received a course of training for the new Health Visitor's Certificate.

(4) Ante-Natal Clinics and Child Welfare Centres under the County Council's Scheme. Ante-Natal Clinics have been established during the year 1931 at Braintree, Chingford, Hadleigh, Laindon and Maldon.

TABLE XXI.

(a) ANTE-NATAL CLINICS.

Name and Address of Clinic.	Sessions.	No. of Sessions.	Total No. of Attendances of Expectant Mothers.	Medical Officer.
Braintree, 71, Rayne Road	1st and 3rd Wednesdays	21	63	Sarah Boyle.
hingford, Brotherhood Hall	Mondays	18	236	Annie B. Gardiner.
Hadleigh, Congregational Church Hall	1st Tuesday	8	36	Jemina B. Ratcliffe.
aindon, St. Nicholas Church Hall	2nd and 4th Thursdays	18	207	Jemina B. Ratcliffe.
Maldon, Health Centre, Wantz Chase	2nd Wednes- day	3	9	Sarah Boyle.
West Thurrock, Parish Room	2nd Monday	11	125	Maud Bennett.

Table XXI continued.

(b) CHILD WELFARE CENTRES.

							-	_	-0
Name and Address of Centre.	Approx- imate popula- tion served.	Sessions.	inf	al atter nces of fants ar ildren	nd	Medical Officer.	ten	in-	e
	serveu.		1929.	1930.	1931.				
Abridge, Parish Room	1244	2nd and 4th Wed-	342	473	466	L. S. Fry		s. 10	
Aveley, Church Room, High	1567	nesdays Alternate Fridays	-	-	456	A. Borland	30	0	0
Street (C.C. from 1/4/31) Bardfield, Methodist Chapel Room (opened 15/9/31)	1480	2nd Tuesday	-	-	91	V. J. Crawford	10	0	0
Belchamp St. Paul, Gages Farm	607	2nd and 4th Wed- nesdays	180	239	200	J. S. Ranson	5	0	0
Billericay, Women's Insti- tute Hall	4000	2nd and 4th Tues- days	484	530	790	B. F. Beatson	15	0	0
Bocking, Village Hall	2000	2nd and 4th Thurs-	387	485	498	Sarah Boyle	12	0	0
Braintree, Congregational Chapel, London Road Boy Scouts' Hut, Ray Street, Coggeshall Road	8912	days 2nd and 4th Tuesdays 1st, 3rd and 5th Tuesdays)	1959	2036	Annie Gardiner	35	0	0
Brentwood, Montpelier House	7209	Alternate Fridays	1222	1167	1022	B. F. Beatson	10	0	ũ
Brightlingsea, New Church Schools	4145	1st and 3rd Wed-	308	281	253	W. A. Milne	10	0	0
Burnham-on-Crouch, St.	5000	nesdays 1st and 3rd Fridays	621	697	1016	E. Pirrie	20	()	0
Mary's Hut Canvey Island, Whittier	3530	1st and 3rd Wed-	343	480	365	J. B. Ratcliffe	10	0	0
Hall Chingford (South), Brother-	11000	nesdays Tuesdays	1830	3111	3842	L. S. Fry	30	0	0
hood Hall Chingford (North). South Room, Church Hall, The	11000	Thursdays	2154	2278	2665	L. S. Fry	20	0	0
Ridgeway Debden, Memorial Hall	1214	4th Wednesdays	198	209	161	S. R. Richardson	5	0	01
Dunmow, Congregational	6795	1st and 3rd Fri-	328	463	322	Marjorie Bartlett	15	0	0)
Church Schoolroom Earls Colne, Village Hall	2732	days 1st and 3rd Wed-	177	231	233	J. S. Ranson	10	0	01
Eastons, Village Hall	1250	nesdays 1st Wednesdays	-	46	228	Marjorie Bartlett	10	0	0)
Epping, Women's Institute	4956	Thursdays	2005	1694	2375	A. Watney	20	0	00
Hall, St. John's Road Felsted, Memorial Hall Hadleigh, Congregational	1969 2246	2nd Tuesdays 1st and 5rd Tues-		52 692	310 943	W. S. Willmore J. B. Ratcliffe	10 15	0	00
Church Hall Halstead, Technical School	5873	days Thursdays	1018	1462	1642	J. S. Ranson	20	0	00
Harlow, Women's Institute	3200	2nd Fridays	221	242	366	T. G. Cunningham	5	0	0.0
Club Hatfield Heath, Trinity Hall, & Little Hallingbury,	2102	4th Fridays	359	262	256	T. G. Cunningham	5	0	00
branch at Church Room Hatfield Peverel, Village	1600	4th Wednesdays 2nd and 4th Thurs-	483	503	310	E. Pirrie	7	10	00
Hall Hedinghams Y.M.C.A. Hut,	2723	days 1st and 3rd Tues-	471	708	733	J. S. Ranson	15	0	00
Sible Hedingham Heybridge, Waring Hall	2200	days 2nd and 4th Tues-	207	318	310	E. Pirrie	10	0	01
Hornchurch, Church Hall,	9727	days Mondays	1131	3251	4035	V. Feldman		.c.	
Park Lane Laindon, Maner Mission	3000	Wednesdays	1123	1797	2233	B. F. Beatson	30	ntr 0	
Hall Maldon, Health Centre,	6559	Fridays	2063	2179	2432	E. Miles	5	0	08
Wantz Chase Matching Tye, Women's	500	3rd Fridays	211	164	211	T. G. Cunningham	5	0	60
Institute Hall Ongar, Congregational	5631	2nd and 4th Thurs-	460	568	787	J. C. Sleigh	20	0	60
Church Hall Parkeston, Wesleyan	2000	days Alternate Tuesdays	347	240	244	J. Ramsbottom	10	0	-
Schoolroom, Garland Road	-				1		-	-	=

Table XXI-continued.

		211010 2222 00					
	Approx-		-	al atter			Annu
e and Address of Centre	popula- tion	Sessions.	inf	inces of ants ar ildren i	id	Medical Officer.	Mai tenan Gran
	served.		1929.	1930.	1931.		Grai
a, St. Michael's Hall,	7000	2nd and 4th Wed-	850	665	753	J. B. Ratcliffe	£ s. 20 0
etory Road leet, Welfare Hall	2500	nesdays Alternate	-		815	J. S. Hawes	30 0
C. from 1/4/31) eigh, The Hut	1700	Tuesdays 2nd and 4th Tues-	-	86	276	E. Pirrie	10 0
vinter, Parish Hall	600	days 2nd Wednesdays	223	150	107	S. R. Richardson	5 0
nam, Social Hall	2196	Alternate	422	557	582	W. A. M. Stewart	C.C
eden Heath, Club om, Leslie Cottage,	1342	Thursdays 1st Thursdays	221	174	119	B. F. Beatson	7 10
wnham eigh, Memorial Hall	4000	2nd and 4th Tues-	471	736	862	N. S. R. Lorraine	15 0
nhall and Silver End er End Garden Village	1200	1st, 3rd and 4th Thursdays	593	1055	1534	Annie Gardiner	15 0
ford, Congregational	5076	2nd and 4th Mon-	827	1216	1326	J. B. Ratcliffe	15 0
oms on Walden, Central	5930	days Fridays	1320	1195	1130	S. R. Richardson	15 0
ll, High Street ing, Parish Room	778	1st Fridays	123	161	132	T. G. Cunningham	5 0
ouryness, Council	6717	1st and 3rd Thurs-	817	662	619	N. S. R. Lorraine	20 0
Benfleet, Baptist	5000	lst and 3rd Mon-	523	519	544	J. B. Ratcliffe	10 0
Ockendon, British	1500	2nd and 4th	-	_	358	Maud Bennett	CC
ted, Central Hall	3184	Mondays 1st and 3rd Wed-	581	686	671	8. R. Richardson	Cen 5 0
oing, Congregational	1700	nesdays Last Fridays	-		269	Marjorie Bartlett	1€ 0
nool (opened Jan., 1931) de Bumpstead, Lecture	1784	1st and 3rd Wed-	202	231	280	J. S. Ranson	10 0
ll ng, Red Triangle Hut	1250	nesdays 1st and 3rd Wed-	394	488	508	Annie Gardiner	7 10
ted, Bolford St. School-	1200	nesdays 1st Friday		293	249	C. A. Weller	10 0
m don Bois, Sorrell Room	1267	Fridays	642	1069	896	W. F. Erskine	5 0
dersley, Church	1972	1st and 3rd Fridays	617	535	468	J. B. Ratcliffe	10 0
ogham, Parish Hall	2370	1st and 3rd	-	-	162	E. Miles	10 0
ened June, 1931) sbury, Parish Room	1721	Thursdays 3rd Tuesdays	225	277	440	E. Pirrie	15 0
inster, St. Lawrence	3559	Alternate Fridays	945	1558	1618	V. Feldman	C.C
ll re, Gordon Hall In- cute	4500	1st and 3rd Thurs days	-	275	245	J. B. Ratcliffe	Cent 20 0
Wakering, Village	2584	2nd and 4th Thurs-	174	521	670	J. B. Ratcliffe	10 0
ey, Parochial Hall,	5974	days Alternate Fridays	951	709	635	B. F. Beatson	10 0
ey, Public Health	4000	1st and 3rd Fridays	155	174	290	J. Ramsbottom	C.C
Mersea, Church Hall	2090	2nd Wednesdays	248	187	180	W. H. Alderton	Cen 10 C
Thurrock, Parish om (C.C. from 1/4/31) persfield, Village Hall	2500 1500	1st and 3rd Mondays	-	-	680	W. T. G. Boul	C.C
ened June, 1931) ford, Mission Hall		3rd Mondays		971	225	Marjorie Bartlett	7 10
tham Bishops, Church	1000	3rd Mondays		371	396	B. F. Beatson E. Pirrie	10 0
om (opened Feb., 1931) am, Church House,	4367	2nd and 4th Wednesdays 2nd and 4th Wed-	544	669	322 363	Annie Gardiner	15 0
illingwood Road t Yeldham, Reading	1000	2nd and 4th Wed- nesdays	10000	668		J. S. Ranson	10 0
oom	1000	1st and 3rd Thurs- days	210	316	370	J. S. Kanson	10 0

TABLE XXII.

Showing Summary of Child Welfare work carried out by each Health Visitor and District Nurse-midwife.

				No	H.Vs. of Vis	its				D.N.Ms of Vis				
	Notific	cations			Post-	Natal.				Post-	Natal.		То	tal
		ived.		First	visits.	Re-v	isits.		First	visits.	Re-v	risits.		its.
Nursing Area Districts.		Still Births.	Pre- Natal.	Under 1 yr.	1—5 yrs.	Under 1 yr.	1—5 yrs.	Pre- Natal.	Under 1 yr.	1-5 yrs.	Under 1 yr.	1—5 yrs.	Pre- Natal.	Po Na
Saffron Walden B. and Saffron Walden R.	173	5	30	54	1	307	266	1098	224	277	1006	1405	1128	35
(part) Bumpstead and North Halstead and Bel-		2	56	132	23	586	1099	517	68	1	517	386	573	28
champ R. Halstead U. and South Halstead and Bel-	150	4	58	176	37	458	866	667	89	5	560	570	725	27
champ R. Wivenhoe U. and West	48	1	39	50	20	213	329	61	24	-	27	105	100	3
Mersea U. Tendring West	159	4	100	113	138	322	641	854	147	301	795	1119	954	35
Brightlingsea U., Frin- ton U. Walton U., and Tendring (part)		4	10	67	3	116	210	89	32	41	28	23	99	-
Tendring East	212	11	19	206	14	253	360	383	75	30	207	150	402	12
Stansted R. and Dun-	123	5	34	16	4	103	302	587	232	130	557	294	621	16
mow R, (part) Dunmow R. (South), and Braintree R. (part)	134	2	26	120	152	161	185	620	254	384	457	725	646	24
Braintree R. (part), Dunmow R. (North), and Saffron Walden		4	83	158	365	391	368	828	390	647	1132	1387	911	42
R. (part) Braintree U. and part		5	33	205	65	162	123	603	109	41	456	206	636	12
Braintree R. (South),	276	7	22	186	472	500	10	955	153	629	793	23	977	27
and Witham U. Epping U. and R.	246	7	34	68	7	225	240	994	209	32	965	831	1028	23
(part) Ongar R	166	3	193	150	122	646	1052	630	91	156	286	394	823	28
Burnham U, and Mal-	96	6	23	64	15	397	817	913	124	178	506	1122	936	9
don R. (South) Maldon B. and Maldon		2	29	111	7	150	180	339	44	-	401	265	368	13
R. (S.W.) Maldon R. (North)	7.00	5	24	44	-	432	618	634	197	448	662	829	658	35
Chingford U	988	2	55	219	79	266	177	123	23	-	38	-	178	1
Chigwell Parish	93	-	16	46	9	124	197	275	28	-	121	78	291	-
Romford R. (part)		3	11	83	1	212	183	56	19	3	137	92	67	3
Hornehurch U. and		8	47	581	95	322	77	81	-	-	-	-	128	10
Romford R. (part) Brentwood U. (part), Billericay R., and	238	1	12	111	31	151	267	749	275	57	670	716	761	25
Romford R. (part) Billericay R. (part)	281	16	38	197	15	375	383	798	174	46	854	369	836	2
Rochford R. (part) and	215	3	33	171	327	360	785	374	207	238	637	560	407	35
Shoeburyness U. Canvey Island U., Ben- fleet U. and Billeri-	232	8	38	86	183	182	330	1073	142	62	284	107	1111	13
cay (part) Billericay R. (part), Rochford R. (part), and Rayleigh U.		27	6	366	64	203	163	726	202	96	422	251	732	11
Purfleet Ü. (part)	1000	-	-	24	-	43	47	-	-				- 08	1
Purfleet U. (part)	-	7	26	78	21 2270	385 8045	275 10550	15027	3532	3802	12518	12007	26 16122	566
Totals	5122	152	1095	3882	2210	0040	10000	10041	COUR		1	22001	TOTAL	

The following new Child Welfare Centres were established during the year:—
at Bardfield, Stebbing, Tillingham, Wethersfield, Wickham Bishops, and on the
April, 1931, the County Council took over the following Centres in the Purfleet
an District:—Aveley, Purfleet, South Ockendon, West Thurrock and West
Performance Ante-Natal Clinic.

- (5) COMBINED TREATMENT CENTRES. For particulars regarding Combined latment Centres see page 72 of this Report.
- (6) Provision of Milk. The two schemes outlined in the report for the year 12, for the provision of Milk (a) for districts served by Centres, and (b) for districts served by Centres were continued, with the slight amendment to the scale for ermining necessitous cases set out in the Report for the year 1928.
- (a) Districts served by Child Welfare Centres. The total amount claimed from the centre Council by Child Welfare Centres was £585 7s. 6d., representing assistance to families.
- (b) Districts not served by Centres. Under this scheme 144 mothers and 75 infants be granted supplies of cow's milk or dried milk for varying periods, free of charge, a total cost of approximately £296 6s. 8d.

Dried milk was also supplied at cost price to Child Welfare Centres and persons commended by the Health Visitors to the extent of £684 19s. 4d.

(7) DENTAL TREATMENT. This Scheme was continued, and at the end of the r 38 Child Welfare Centre Committees had agreed to participate in the scheme.

No. of Patients who received treatment		193 58				193 10		
Total Cost		£149	6	0		£424	7	6
Proportion paid by County Council		£70	7	8		£248	3	1
These figures illustrate the rapid developmer.	nent	of the	so	heme	dui	ring the	pa	ast

- (8) Home Helps. The number of patients taking advantage of these facilities bears to be increasing, and during the year 1931 seventeen applications were eived as follows:—Burnham-on-Crouch (1), Maldon (9), Pitsea (1), Stebbing (1), axted (1), Wethersfield (1), and in districts not served by Centres (3).
- (9) TRAVELLING EXPENSES OF MOTHERS ATTENDING CHILD WELFARE CENTRES. the end of the year 1931, seventeen Child Welfare Centres were participating in scheme, namely:—Bocking, Burnham-on-Crouch, Debden and Wimbish, Epping, Istead, Harlow, Ongar, Purleigh, Rivenhall and Silver End, Rochford, Stansted, abbing, Terling, Thaxted, Tollesbury, Wethersfield and Great Yeldham.
- (10) Public Health (Notification of Puerperal Fever and Puerperal Rexia) Regulations, 1926. During the year ended 31st December, 1931, copies notifications made by medical practitioners were received from Medical Officers of ealth in the Administrative County and the County Child Welfare Area as follows:—

0 1931.		7000	
		1930.	1931.
3 80		31	20
3 156		31	44
	3 80	3 80	3 80 31

- (i) Obstetric Specialist. The arrangements for the services of the Obstetric Specialist, Andrew McAllister, Esq., F.R.C.S., of 79, Wimpole Street, W.1, previously referred to, were continued.
- (ii) Institutional Treatment. In addition to the existing arrangements for hospital treatment of patients suffering from Puerperal Fever and Puerperal Pyrexia, in July, 1931, the Public Health Committee made arrangements with the Public Assistance Committee for the reception of such patients in the Chelmsford and Romford Public Assistance Institutions. During the year 1931, twenty patients were admitted to Hospitals and Institutions at a cost of £228 1s. 8d.
- (iii) Skilled Nursing. The arrangements were continued with the Essex County. Nursing Association for the provision of skilled nursing in the homes of patients when the circumstances render the removal of the patient to hospital difficult or impossible.
- (iv) Bacteriological Examinations of (a) lochia (b) blood. Facilities for these examinations were available under the County Laboratory Scheme.
- (11) Public Health (Ophthalmia Neonatorum) Regulations, 1926. The arrangements made under these Regulations were fully set out in the Report for the year 1927.

During the year ended 31st December, 1931, copies of 80 notifications of Ophthalmia Neonatorum, made by medical practitioners to Medical Officers of Health in the Administrative County, were received. (See page 67).

Nine of the above notifications relate to patients living in the County Child Welfare Area and the following particulars of these patients have been obtained:—

Treated			Vision			Vision			Total					
At	In		Unir	npai	red.		Im	paire	i.		Blir	ndnes	8.	Deaths.
Home.	Hospita	d.	R.		L.		R.		L.		R.		L.	
6	3	100	9		9		_		-		-			 -

One patient was admitted to Hospital (St. Margaret's) during the year under the County Council's arrangement for the treatment of this disease.

- (12) Hospital Treatment for Maternity Patients. The arrangements with certain hospitals for the admission of the following types of maternity patients were continued:—
 - (a) Complicated or difficult cases of confinement where hospital treatment is essential.
 - (b) Cases of confinement where, in the opinion of the Medical Attendant, to patient cannot with safety be confined in her own home.

During the year twenty-six patients were admitted under the above schemes at a st of £226 11s., the amount recovered from patients being £24 4s.

- (13) TREATMENT OF MINOR AILMENTS—CHILDREN UNDER SCHOOL AGE. This heme was continued and 13 children under school age received operative treatment ring the year.
- (14) TREATMENT OF ORTHOPAEDIC PATIENTS. Full details of the scheme for e treatment of orthopaedic patients adopted by the Public Health and Education mmittees were given in the Annual Report for 1927.

The following summary of developments during the year 1931 and work carried it under the scheme will be of interest.

- (a) Number of Cases on Books. At the end of 1931, 1,552 cases had been dealt the under the scheme since its inception. Of these about 540 have completed their eatment or left the County area, so that approximately 1,012 cases still require eatment, supervision or observation.
- (b) Ascertainment and Re-examination Clinics. During 1931 Mr. Whitchurch owell attended 60 clinic sessions for the County Council in the districts shown below, id carried out 1,155 examinations of County patients.

Orthopaedic Clir	nie.	No. of Sessions	No. of Examinations.
Braintree		 3	 85
Brentwood		 3	 77
Chelmsford		 3	 24
Clacton		 4	 54
Colchester		 4	 81
Dagenham		 5	 173
Epping		 2	18
Grays and Tilbu	iry	 10	 284
Halstead		 3	 38
Harwich		4	 18
Maldon		 3	 49
Romford		 3	 63
Saffron Walden		 2	 17
Southend		 2	 30
Stansted		 2	 7
Woodford		 7	 137
		_	
1931		 60	 1155*
		_	
1930		 62	 1167
		_	
1929		 58	 952
		_	

^{*}Includes 1,022 Examinations of School Children.

⁽c) Hospital Treatment. The following figures show the position regarding istitutional treatment on 1st January, 1931, as compared with that on 1st January, 932:—

		nded and or hospit			Bein	g inve	stigated.		Total.
		ducation		C.W.	Education.	•	C.W.		OR THE STATE
1-1-31		7		1	14		6		28
1-1-32		13		2	13		4		32
	Nun	ber in	Hospi	tal under	the County	Schen	ne.		
			ucation			ild We		T	otal.
1-1-31		8	1/3rd			1		9]	1/3rd

13 1/3rd (Note: -The 1/3rd of a bed mentioned above means that the County Council was only responsible for one third of the cost of the hospital treatment of one patient).

16 1/3rd

In regard to hospital treatment under the County Council's arrangement, during the year 44 Education and 13 Child Welfare patients completed hospital treatment, and 50 Education and 17 Child Welfare patients were admitted into Hospital.

1-1-32

(d) Orthopaedic Masseuses. Miss W. H. Tabor was County Orthopaedic Masseuse throughout the year under review. In September, 1931, a second Orthopaedic Masseuse was appointed whole-time, namely, Miss M. Scott, C.S.M.M.G., M.E., and she replaced the part-time Masseuses at Romford and Grays.

		County Council Patients.								
		ons.	98.	ents	Form of Treatment.					
Clinie.	Masseuse.	No. of sessions.	No. of attendances.	No. of patients treated.	Massage.	Exercises.	Elec.	Super-		
Grays and Tilbury	Miss Scott, C.S.M.M.G., M.E.	153	1043	255	8	91	4	162		
Romford	Miss Scott, C.S.M.M.G., M.E.	72	232	64	1	39	-	28		
Dagenham (opened Jan., 1931)	Miss Scott, C.S.M.M.G., M.E.	81	997	182	3	128	-	53		
Woodford	Miss Parsons, C.S.M.M.G.	151	801	77	17	58	-	2		
Epping	Miss Parsons, C.S.M.M.G	113	112	18	11	11	2	1		
Maldon	Miss Tabor, C.S.M.M.G., M.E.	44	328	69	-	40	-	33		
Brentwood	Miss Scott, C.S M.M.G., M.E.	80	607	107	3	69	-	39		
Colchester	By arrangement with the Hospital until end of Nov. and from Dec. a separate Clinic was held, Miss Tabor attending.	-	75	10	4	4	2	4		
Braintree (opened 9/10/31)	Miss Tabor, C.S. M.M.G., M.E.	12	37	15	1	3	2	11		

From the above table it will be seen that the arrangements with the Essex County Hospital, Colchester, for the attendance of Orthopaedic Patients for After-care Treatment were terminated in November, 1931, and in conjunction with the Colchester Corporation a Treatment Clinic was established at Trinity Street, Colchester, with Miss Tabor in attendance once a week for an experimental period of six months. Treatment Clinics were established at Dagenham in January, 1931, and at Braintree in October, 1931.

NURSING HOMES REGISTRATION ACT, 1927.

A detailed report was given in the 1928 Report of the provisions under the Act and the procedure adopted by the County Council.

(i) Particulars of Registration. The Clerk of the Council has furnished the following information in regard to Nursing Homes for the year 1931:—

		1	Maternity Homes only.	Other Nursing Homes.
No. of applications for registration			6	 9
No. of Homes registered			6	 9
No. of Orders made refusing or ca	ncelling	regis-		
tration			Nil	 Nil
No. of Appeals against such Orders			_	
No. of applications for exemption	from reg	istra-		
tration			Nil	 1
No. of cases in which exemption gra	nted		Nil	 1

The powers and duties of the County Council under the Nursing Homes Registration Act, 1927, within the Boroughs of Colchester and Walthamstow were deleated to the Corporations of such Boroughs as and from 1st April and 1st October, 931, respectively.

- (ii) Regulations for Staffing of Nursing Homes. Regulations approved by the county Council in 1930 came into operation in all Nursing Homes under the County council's supervision as and from 1st September, 1931.
- (iii) Presence of Boarded-out or Foster Children in Registered Nursing Homes. The decisions referred to in the previous year's report, precluding keepers of Registered Nursing Homes from having Boarded-out or Foster Children resident in the Homes ame into operation on 1st September, 1931.
- (iv) Fire Precautions. Towards the end of the year 1931 the County Architect aade detailed reports on the Nursing Homes from the point of view of fire precautions.

CHILDREN ACT, 1908-PART I.

nfant Life Protection.

All the Health Visitors in the County Child Welfare Area are appointed Infant ife Protection Visitors and make visits of inspection at intervals of at least once a uarter to each foster-mother and child registered.

At the end of the year there were 537 registered foster children in the care of 42 foster-mothers.

MIDWIVES ACTS, 1902-1926.

(a) Allocation of Powers. Further delegations of the powers under the lidwives Acts were made by the County Council during the year, namely, Colchester borough and Walthamstow Borough as and from 1st April, 1931.

(b) Practising Midwives. During the year under review 328 midwives notified their intention to practise in the Administrative County, excluding the Colchester, Ilford, Leyton and Walthamstow midwives. Of these, 286 were actually in practice at the end of the year 1931. These midwives are classified as follows:—

Total No. of Midwives in practice	Tr	ained.	L.O.S.	
at end of year.	Dependent.	Independer	nt. Certificated.	Bona-fide
286	164	110	10 .	. 2

The total number of live births and still births which occurred during the year 1931 in the Administrative County, excluding Colchester, Ilford, Leyton and Walthamstow Boroughs, was 13,291, and of these 5,940 (44.6 per cent.) were attended by midwives in the capacity of a midwife, and 2,841 (21.3 per cent.) as maternity nurses under the supervision of medical practitioners.

Each midwife was asked to state the number of confinement cases which she attended as a midwife during the year 1931, and it was found that 125 trained and 4 bona-fide midwives attended 10 or less cases each: 65 trained and 2 bona-fide attended 11—20 cases each; 46 trained and 5 bona-fide attended 21—40 cases each; 14 trained 41—60 cases each; 17 trained and 1 bona-fide 61—100 cases each; and 7 trained midwives attended over 100 cases each.

- (c) Handywomen. During the year 1931 reports were received regarding four cases of confinement attended by four women who were not certified and who acted as midwives without being under the direction and personal supervision of the doctor. It was considered necessary in one case to institute legal proceedings, and the woman concerned was fined £1. In the other cases letters of warning were sent by the County Medical Officer.
- (d) Notifications. The following list shows the number of notifications received from certified midwives in accordance with the rules of the Central Midwives Board during the year as compared with the previous four years:—

		1927.	1928.	1929.	1930.	1931
Records of Medical Aid		1592	 1851	 2085	 2285	 200
Records of Still-births		122	 114	 109	 117	 10
Deaths of Mothers		6	 9	 6	 10	
Deaths of Infants		39	 69	 70	 73	 7
Artificial Feeding						
Liability to be a source of	f In-					
fection		*165	 *207	 *257	 *303	 *28
Laying-out for Burial		261	 222	 230	 235	 23
Ophthalmia Neonatorun	n or					
Discharging Eyes		142	 184	 250	 294	 20

*This figure includes all cases of high temperature.

The 2,006 cases (33.8 per cent.) where midwives sought the assistance of a doctwere for various reasons, namely:—

Albuminuria		53	cases.	Pemphigus Neonatorum
Contracted Pelvis		5	,,	or Spots on Infant 49 cases.
Dangerous Feebleness	of			Phimosis 20 ,,
Infant		49	"	Phlebitis 8 ,,
Eclampsia		4	"	Placenta Adherent 51 ,,
Haemorrhage :				Placenta Praevia 2 ,,
Ante-partum		75	,,	Premature Birth 58 ,,
Post-partum		49	,,	Prolonged Labour 283 ,,
Hydramnios		4	,,	Presentation (abnormal)123 ,,
Instrumental Assistance		2	,,	Pyrexia (High Temp.) 114 ,,
Malformation of Child		18	,,	Rigid Os 2 ,,
Miscarriage, Abortion		83	,,	Ruptured Perineum 332 ,,
Miscellaneous Causes		321	,,	Spina Bifida 9 ,,
Ophthalmia Neonatorum	1			Thrombosis 2 ,,
or Discharging Eyes		237	,,	Uterine Inertia 53 ,,

Puerperal Fever, Puerperal Pyrexia and Ophthalmia Neonatorum.

Special investigations were made into all cases of high temperature of mother and discharging eyes of infant in a midwife's practice. The results of these investigations showed that during 1931, in fifteen cases of high temperature and eight of discharging eyes, the rules of the Central Midwives Board were not properly carried out. Warning letters were sent or verbal cautions given to the midwives concerned.

Three midwives were interviewed by the Committee and severely reprimanded for infringement of the rules in respect of six of the patients suffering from high temperature (two of whom died), and one suffering from discharging eyes.

Particulars of the number of cases of Ophthalmia Neonatorum notified in the Administrative County during the year are given in the following table, together with the proportion of such cases per 1,000 births:—

Cases of Ophthalmia Neonatorum Notified. Years 1926-31.

Year.		Total Births.	Number of Ca tified of Ophth Neonatorum	nalmia	No. of Cases per 1000 Births.
1926	 	16,743	 72		4.3
1927	 	16,661	 84		5.0
1928	 	17,758	 79		4.4
1929	 	18,218	 75		4.1
1930	 	*15,629	 *80		5.1
1931	 	+13,291	 †46		3.5

^{*}Less Ilford and Leyton.

Pemphigus Neonatorum.

All suspected cases of Pemphigus Neonatorum occurring in a midwife's practice are investigated with a view to seeing that every possible precaution is taken to prevent a spread of the disease.

⁺Less Colchester, Ilford, Leyton and Walthamstow.

Enquiries were made into 49 suspected cases, occurring in Barking (6), Billericay R. (5), Brentwood U. (1), Bumpstead R. (1), Dagenham U. (14), Dunmow R. (1), Grays U. (5), Lexden and Winstree R. (1), Ongar R. (1), Orsett R. (3), Purfleet U. (2), Romford U. (1), Saffron Walden R. (1), and Tilbury U. (7).

One midwife received a written caution for infringement of the rules.

Inspection Visits.

Twelve hundred and eighteen routine visits were made to midwives during the year, and of these 492 were undertaken by Assistant County Medical Officers and 726 by the Chief Health Nurse and her Assistant, and the Relief Health Visitor.

Written cautions were sent to 37 midwives for minor infringements of the rules other than those referred to in the paragraphs relating to Puerperal Fever, Ophthalmia Neonatorum and Pemphigus Neonatorum on page 67.

In addition one midwife was interviewed by the Committee and severely censured in connection with her inadequate ante-natal supervision in two cases. One midwife was interviewed by the County Medical Officer in regard to her ante-natal care of a patient who subsequently died in hospital.

In November, 1931, a midwife was reported to the Central Midwives Board regarding her attendance on a patient who had died, but the Board found the charges alleged against the midwife not proved.

Doctors' Fees.

In accordance with Section 14 of the Midwives Act, 1918, during the year ended 31st December, 1930, the County Council paid the sum of £2,106 15s. 6d. as fees to medical practitioners and recovered from patients during the year the sum of £644 3s. 3d.

The following comparative table is of interest, shewing (a) the number of medical aid notices received from midwives during the past five years, and (b) the corresponding number of doctors' claims made against the County Council in respect of such notices. This table shows that the percentage of confinements in which medical aid was sought is still increasing. The reduced number of medical aid notices is explained by the delegation of powers to Colchester, Ilford, Leyton and Walthamstow Boroughs:—

Year.	Not	of Medical tices receiv m Midwiv	ved	Percent of Conf ment attende Midwiv which maid was se	tine- ts d by es in edical	No. of Med Notices for Doctors' clar been rece	which ims have	Tota of	l am		s	Amor		om
								£	S.	d.		£	s.	d
1927		1592		21.6		1056		1,545	5	0		397	5	6)
1928		1851		23.7		1153		1,825	2	3		635	16	9
1929		2085		25.3		1352		2,112	19	6		852	2	2
1930		2285		31.9		1507		2,225	19	6		689	11	3
1931		2006		33.8		1495		2,106	15	6		644	3	3

Lectures.

The Essex Midwives Association arranged a special course of lectures in Chelmsford which was held in May and June, 1931. Dr. Christy Browne gave lectures on ante-natal supervision and also the care of the premature baby. They were creatly appreciated by the 60 midwives who attended the lectures. The County Council assisted the Association by a grant towards the lecturer's fees, travelling xpenses, &c.

Essex County Nursing Association.

(a) GENERAL. For the four quarters of the year 1931 the following grants were oaid by the County Council to the County Nursing Association in accordance with the igreement :-

			£	s.	d.
(i)	Cost of training District Nurse-Midwives		1,546	0	0
(ii)	Maintenance of four Emergency Nurses		266	0	0
(iii)	Grants to affiliated District Nursing Association	18	5,674	17	10
(iv)	Equipping District Nurse-Midwives for new area	as	60	0	_ 0
(v)	Clerical and organising expenses		220	0	0
(vi)	£2 per Nurse-Midwife for central expenses		315	0	0
(vii)	Grant towards Post-Graduate Course		50	0	0
(viii)	Deficit (proportion)		58	6	9
			£8,190	4	7

(b) DISTRICT NURSING ASSOCIATIONS. At the end of 1931 the number of District Vursing Associations in the Administrative County which were affiliated to the County Nursing Association and which employed 178 Nurses, was as follows :-

No. of affiliated D.N. Associations.	dertaking Midwifery District Nursing.	No. performing Maternity District Nursing duties only.
152	 144	 9 (4 of which undertake
		general nursing only).

A summary of the visits made by the District Nurses belonging to affiliated associations during the past five years is given below :-

		1927.	1928.	1929.	1930.	1931.
Iidwifery		29,089	 30,500	 33,766	 34,775	 33,068
		27,445	 30,355	 30,393	 31,664	 34,458
District General		184,577	 193,060	 205,600	 209,927	 207,100
District Tuberculosis		4,674	 4,510	 4,928	 3,154	 3,517
Iealth Visiting) Pre-Natal		13,937	 16,380	 17,800	 20,614	 21,530
Post-Natal		22,008	 22,684	 22,715	 27,100	 29,578
Home Visits (School Children)		8,879	 8,629	 9,605	 8,831	 8,200
Total No. of visits	-	200 600	 206 119	224 207	226 065	997 451

Of the 152 affiliated Associations, 149 participate in the County Council's Comined Nursing Scheme.

(c) Parishes Served-

Number in the County (excluding extra-Metropolitan area) .. 377 Number served by affiliated District Nursing Associations .. 314

GENERAL.

(a) Maternal Mortality.

The following table shows the number of maternal deaths in the Administrative County of Essex each year since 1921:—

Urban—	1931.	1930.	1929.	1928.	1927.	1926.	1925.	1924.	1923.	1922.	1921.
Puerperal Sepsis Other accidents of preg-	23	24	21	21	20	14	6	16	15	11	19
nancy and parturition Rural—	*26	41	21	32	23	22	22	22	28	23	28
Puerperal Sepsis Other accidents of preg-	10	9	6	7	4	4	6	5	1	7	-
nancy and parturition	*9	16	10	12	9	10	15	8	12	15	5

*Defined as "Other Puerperal Causes." The maternal mortality rate per 1,000 births for 1931 is 3.4.

(b) Survey.

During the year a Medical Officer on the Staff of the Ministry of Health made a thorough survey of the County Council's Maternity and Child Welfare Schemes.

(c) Pamphlet C.W.42-Child Welfare Brochure.

Owing to the continued growth and development of the Maternity and Child Welfare Services it was necessary to publish in January, 1931, Pamphlet C.W.42, giving full details of the various schemes in operation in the area served by the County Council for child welfare purposes.

(d) Post-Graduate Course-Independent Midwives.

Although under the Agreement between the Essex County Nursing Associations and the County Council provision is made for the post-graduate training of district nurse-midwives, no such facilities have yet been provided for independent practising midwives. In September, 1931, however, the Public Health Committee generally approved of the following scheme:—

"One of the most important points mentioned in the Interim Reporof the Departmental Committee on Maternal Mortality and Morbidity was that the standard of midwifery practice needs raising throughout the country.

"In the revised agreement between the Essex County Council and the Essex County Nursing Association, which came into operation on 1st April 1930, an additional clause was included to the effect that the County Council 1930, and additional clause was included to the effect that the County Council 1930, and additional clause was included to the effect that the County Council 1930, and additional clause was included to the effect that the County Council 1930, and additional clause was included to the effect that the County Council 1930, and additional clause was included to the effect that the County Council 1930, and 193

would make an annual grant to the Essex County Nursing Association of not exceeding £50 towards the expenses of the Association in sending a number of their senior nurses each year to a post-graduate course in midwifery.

"It appears desirable to consider adopting a similar scheme whereby the County Council could render assistance to suitable independent midwives for taking a post-graduate course. There are about 120—130 independent practising midwives in the County, some of whom attend a large number of patients as midwives each year.

"A post-graduate course usually lasts two months and the fees are £4 4s. a month. A midwife dependent upon her earnings would probably need a grant for travelling expenses, laundry and general out-of-pocket expenses whilst absent from her practice. It is suggested that, as a commencement, a subsistence grant of not exceeding £2 per week plus the £8 8s. fee for the course might be granted to say five independent midwives per year, on the understanding that such midwives undertook to resume practising in the Administrative County on completion of the course, and continue practising in that area for a period of not less than twelve months or forfeit the amount of grant allowed by the County Council.

"In selecting the five midwives regard would be given to the age, capabilities, conduct and mode of practice of the midwives."

Birth Control.

During the year the Ministry of Health issued Circulars 153/M.C.W., dated arch, 1931, and 1208 dated 14th July, 1931, on this subject. A special Sub-Comittee was appointed to consider this question and the following resolutions were proved by the Maternity and Child Welfare Sub-Committee in August, 1931:—

"That the County Medical Officer of Health be authorised to arrange for the lady Medical Officers on the Staff of the County Council to give advice on contraceptive methods at ante-natal centres to those women coming within the scope of Memorandum 153/M.C.W.

"That the question of the male Doctors on the Staff of the County Council giving advice on contraceptive methods be considered at a later date."

eport of Chief Health Nurse.

The Chief Health Nurse (Miss D. M. Landon) has furnished the following report connection with her duties during 1931:—

The appointment of a Relief Health Visitor has tended to increase the efficiency of the work as she has been able to assist in places where there is a considerable pressure or home visits are not up-to-date.

Almost all the Health Visitors have so many fixed appointments that it is very difficult for them to pay a sufficient number of home visits where the real educational part of the work is carried out.

On the whole the Health Visitors have carried on their work in a satisfactory manner, and the standard maintained is a high one.

COMBINED MEDICAL SERVICE.

The Combined Medical Service Scheme, outlined in detail in previous reports, was continued during the year. Table XXIII gives details of the 13 schemes in operation on 31st December, 1931.

COMBINED TREATMENT CENTRES.

The Combined Treatment Centres under the County Council at the end of 1931 were as follows. This list does not include Clinics solely used as School Clinics or Tuberculosis Dispensaries, or as Child Welfare Centres, but those used for more than one of these three services:—

	Centre.	Purpose for County Council.	Date opened.
1.	Braintree—71, Rayne Road	School Clinic and Tuber- culosis Dispensary, also Ante-natal Clinic	Transferred to these premises, November, 1928.
2.	Brentwood—Montpelier House	School Clinic, Tuberculosis Dispensary and Child Welfare Centre	April, 1929.
3.	Brightlingsea — New Church Schools	School Clinic, Tuberculosis Dispensary, and Child Welfare Centre	September, 1924.
4.	*Clacton-on Sea— Skelmersdale Road	School Clinic and Tuber- culosis Dispensary	January, 1921.
5.	Dagenham-		
	†(a) Ford Road	School Clinic	Transferred to these premises April, 1930.
	†(b) Becontree Avenue	School Clinic	July, 1930.
	(c) King George Hospital, Outpatients Dept., Five Elms	Tuberculosis Dispensary School Clinic	
6.	Dunmow—47, Stortford Road	School Clinic and Tuber- culosis Dispensary	October, 1926.
7.	Epping—Women's Institute, St. John's Road	School Clinic, Child Wel- fare Centre, and Tuber- culosis Dispensary	School Clinic and T.B. Dispensary transferred to these premises June, 1928.
8.	Halstead—Cottage Hospital	School Clinic and Tuber- culosis Dispensary	November, 1923.
9.	Maldon—Health Centre, Wantz Chase	School Clinic, Tuberculosis Dispensary and Child Welfare Centre	May, 1928.

TABLE XXIII.—SHOWING COMBINED MEDICAL SERVICE SCHEMES IN OPERATION, 31st DECEMBER, 1931.

Area No.	Sanitary District.	Population Census, 1931.	Acreage. Census 1931.	Date Scheme commenced.	Name of Officer.	Duties.+
1	Lexden & Winstree R. a West Mersea U Wivenhoe U	18976 2067 2193	66246 3171 1562	1st April, 1920	W. H. Alderton	M.O.H. and Assist. C.M.O. Assistant C.M.O. only
2	Clacton-on-Sea U. a Brightlingsea U Walton-on-Naze U Frinton-on-Sea U		4052 2852 1951 419	1st June, 1920	W. A. Milne	M.O.H. and Assist, C.M.O. Assist, C.M.O. only
3	Tendring R Harwich Borough a, b	24083	72239 1512	11th Sept., 1920	J. Ramsbottom	M.O.H. and Assist. C.M.O. Assist. C.M.O. only
‡4	Grays U. a Tilbury U. a Purfleet U Orsett R. a	18172 16826 8511 20524 ————————————————————————————————————	1360 1859 8900 29158	lst August, 1922	W. T. G. Boul	M.O.H. and Assist. C.M.O.
5	Saffron Walden Borough Saffron Walden R Stansted R	5930 9691 6981	7502 59976 22952	1st Jan., 1923 26th Mar., 1931	S. R. Richardson	M.O.H. and Assist. C.M.O.
6	Halstead U. Halstead R. Belchamp R. Bumpstead R.	5878 9843 3983 2304	644 38715 26501 11873	1st Sept., 1923	J. S. Ranson	M.O.H. and Assist. C.M.O. Assist, C.M.O. only
7	Braintree U Braintree R Dunmow R Witham U	8912 21876 15564 4367 50719	77733 2224 62352 73501 3712 	1st Oct., 1923	J. S. Bradshaw	M.O.H. and T.O. only.
8	Barking U. a, b	51277	3809	1st April, 1920	C. L. Williams	M.O.H. and T.O.
9	Colchester Borough a, b	48607		13th July, 1921	W. F. Corfield	M.O.H. and T.O.
10	Shoeburyness U. Canvey Island U. Rayleigh U. Benfleet U. Rochford R.	6717 3530 6256 12091 17046	1031 4351 5644 6356 38465 55847	1st Feb., 1925	N. S. R. Lorraine	M.O.H. and Assist. C.M.O.
11	Waltham Holy Cross U.a. Chingford U	22051 4956 17345 5486 7390	11016 2810 1420 39057 874 3962	24th July, 1929	L. S. Fry	M.O.H. and Assist. C.M.O. Temp. M.O.H. from Oct., 1931, and Assist. C.M.O. Assist. C.M.O. only T.O. only
12	Brentwood U Billericay R	7209 39694 46903	460 49393	1st Oct., 1930	B. F. Beatson	M.O.H. and Assist. C.M.O. Assist. C.M.O. only.
13	Burnham-on-Crouch U. Maldon B Maldon R	3395 6559 16280 26234	4507 3004 81961	16th Apr., 1931	E. Miles	M.O.H. and Assist. C.M.O. Assist. C.M.O. only

[‡] Dr. W. T. G. Boul was assisted by Dr. Maud Bennett in School and Child Welfare work and by Dr. Harper in Tuberculosis, work.

⁺ M.O.H.: Local Medical Officer of Health. Assist. C.M.O.: Assistant County Medical Officer. T.O.: Tuberculosis Officer. S.M.I.: School Medical Inspector. a Autonomous Child Welfare Areas. b Autonomous Education Areas.

ı		Centre.	Purpose for County Council,	Date opened.
	10.	Rochford—Congrega- tional Rooms	School Clinic and Child Welfare Centre	Used for School Clinic from October 1927.
-	11.	Romford—29, Eastern Road	School Chnic and Tuber- culosis Dispensary	School Clinic transferred to these premises in July, 1925.
	12.	Saffron Walden— Cottage Hospital	School Clinic and Tuber- culosis Dispensary	Transferred to these pre mises June, 1927.
	13.	Shoeburyness—Council Offices	School Clinic and Child Welfare Centre	August, 1921.
	14.	Stansted—Central Hall	School Clinic and Child Welfare Centre	April, 1919.
	15.	Weeley—Public Health Offices	School Clinic, Tuberculosis Dispensary and Child Welfare Centre	November, 1926.
	16.	Woodford — "The Shrubbery"	School Clinic and Tuber- culosis Dispensary	

*Used by Local Sanitary Authority as Child Welfare Centre and Maternity Home. †Used by Local Sanitary Authority as Child Welfare Centres, &c.

PART IV.

PUBLIC ASSISTANCE.

General.

Dr. T. S. McIntosh, Medical Officer of the Ministry of Health, carried out during the year a survey of the whole of the County Public Health Services, including the medical services of the Public Assistance Committee. He visited each Public Assistance Institution and gave detailed consideration to the steps taken to develop the work in accordance with the objects of the Local Government Act, 1929.

The medical aspect of the Public Assistance work has developed satisfactorily during the year and energetic steps were taken to consolidate further the measures adopted in 1930 to control and co-ordinate the work of Medical Officers of Institutions and District Medical Officers.

Institutional Accommodation for the Sick.

Since the preparation of my Annual Report for the year 1930 more detailed information has been obtained in regard to the accommodation for the sick in the 11 Public Assistance Institutions, together with the actual number of beds occupied on 31st December, 1931. I give below a separate table dealing with each Institution, together with a few brief notes of any extensions or alterations which have taken place during 1931 and suggestions for future consideration:—

Colchester Institution.

Name of Medical Officer:

Dr. W. F. Payne.

Address of Institution:
Pope Lane, Colchester.
Telephone No. Colchest r 3259.

					BEDS				
Classification of Wards.	No. of Wards.	Men.		Women.		Children (under 16).		Total.	
		Pro- vided.	Occupied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occupied.
Surgical .] 11	79	63	65	53	_	-	144	116
Children	1 1	=	=	4	2	9	1	9 4	1 2
Total	. 13	79	63	69	55	9	1	157	119

Improvements. A Day Room was provided for about 50 casuals at a cost of £446 and other minor improvements were carried out at thi Institution at a cost of £175.

Remarks. The Institution was erected nearly 100 years ago. Consideration has been given to closing it and providing additional accommodation at Stanway. This scheme is at present held up owing to the necessity for strict economy.

Stanway Institution.

Name of Medical Officer:

Dr. W. F. Payne.

Address of Institution: Stanway, Colchester.

Telephone No.: Colchester 3303.

					BEI	os.			
Classification of Wards.		Men.		Women.		Children (under 16).		Total.	
	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	
edical urgical hronic Siek hildren	} 7	32	_	27	_	-	_	59	_
uberculosis [aternity	7	2	_	2 3	2	=	2	4 3	4
lental Defectives	1	_	_	20	20	_	- =	20	20
Total	11	34	_	52	22	_	2	86	24

Improvements. The water carriage sewage disposal system was installed at a cost of £1,595 and the erection of a Disinfector House was also approved at a cost of £435.

Remarks. This Institution was erected nearly 100 years ago and was extended and modernised in 1909. Consideration has been given to other extensions when the financial situation permits, the object being to accommodate eventually all the inmates from the Colchester Institution. The latter will then be closed or used for other purposes.

Tendring Institution.

Name of Medical Officer:

Dr. F. Atthill.

Address of Institution:
Tendring, Clacton-on-Sea.
Telephone No.: Manningtree 46.

	No. of Wards.		Beds.									
CACCOURAGE OF THE PARTY OF THE		Men.		Women.		Children (under 16).		Total.				
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.			
Medical Surgical Chronic Sick	7.4	32	34	49	47	_	1	81	82			
Maternity	1	-	-	2	-	-	-	2	-			
Total	15	32	34	51	47	_	1	83	82			

Improvements. Additional nursery accommodation was provided at a cost of £296 10s.

Electric lighting was installed at a cost of £623.

Remarks. The Infirmary, erected in 1901, is modern, well equipped and sufficient for the requirements of the district. There is ample land for further extensions.

Braintree Institution.

Name of Medical Officer:
Dr. T. W. Panter.

Address of Institution:
Rayne Road, Braintree.
Telephone No.: Braintree 24.

		Beds.								
Classification of Wards.	No. of Wards.	Men.		Women.		Children (under 16).		Total.		
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	
Medical Surgical Chronic Sick Children	}8	31	31	54	49	9	3	94	83*	
Tuberculosis Maternity	1(Hut)	-	_	2	1	_	-	2	1	
Total	10	31	31	56	50	9	3	96	84	

*This figure does not include 8 male patients sleeping in the House. Total—92 sick patients.

Improvements. Repairs and improvements were carried out to the Children's Nursery of the Institution at a cost of £290 10s.

Remarks. In view of the nature of the accommodation the maternity beds are only used in emergency, whilst owing to the construction of the shelter the bed for a tuberculosis patient is only usable during the summer months.

Saffron Walden Institution.

Name of Medical Officer:

Dr. H. Bartlett.

Address of Institution:
Saffron Walden.

Telephone No.: Saffron Walden 32.

		Beds.									
Classification of Wards.	No. of Wards.	Men.		Women.		Children (under 16).		Total.			
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occupied		
Chronic Sick Children Maternity	8 -1	28 	24 	32 2	27 —	-	_ _ _	$\frac{60}{2}$	51 2		
Mental Defectives	1	_	-	18	17	-	-	18	17		
Total	10	28	24	52	44	_	2	80	70		

This Institution was built over 100 years ago. As mentioned elsewhere, it is proposed to erect a new Institution to serve this area at Takeley and to close the Saffron Walden Institution.

Improvements. The accommodation for casuals has been improved at a cost of £620.

Epping Institution.

Name of Medical Officer:

Dr. C. E. Denning.

Address of Institution: The Plain, Epping.

Telephone No.: Epping 30.

lassification No. of Wards.	Men.		Women.		Children (under 16).		Total.		
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.
edical	1: 0	36	35	∖38	30	4	3	78	68
ronie Siek	7	27	6	51	31	-	-	78	37
iberculosis	2	3	1	3	_			6 3	1
aternity	1	-	-	3	2	-		3	2
Long stay*		4	4	6	6	-		10	10
Total	18	70	46	101	69	4	3	175	118

*Of the 4 male beds provided, 1 is in the Infirmary and 3 in the Institution.

Of the 6 female beds provided, 1 is in the Chronic Sick Ward and 5 in the Institution.

Improvements. Improvements were carried out to the laundry at a cost of £619 and steps were also taken to ensure an adequate supply of water in case of fire, at a cost of £167.

New Nurses' Home. The erection of a Nurses' Home was approved, at an estimated cost of £11,000.

Orsett Institution.

Name of Medical Officer:

Dr. F. A. M. Nelson.

 ${\bf Address\ of\ Institution:}$

Orsett, Grays.

Telephone No.: Orsett 8.

Classification No. of Wards.	Men.		Women.		Children (under 16).		Total.		
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Oecu- pied.
ledical urgical hronic Sick	} 13	62	57	85	61	14	23	161	141
uberculosis	3	11	9	10	4	-	-	21	13
aternity		-	_	7	2	-		7	2
ental	2	2	-	3	_		_	5	-
Total	23	75	66	105	67	14	23	194	156

Improvements. Substitution of coal gas in place of petrol gas for cooking at a cost of £241.

Extensions. Sanction has been obtained and the buildings nearly completed for extensions to the Nurses' Home at a cost of £6,197.

Remarks. Several additions have been made to the original buildings which were erected about 100 years ago. Ample facilities are available for extensions.

Oldchurch Hospital, Romford.

Name of Medical Superintendent:
Dr. W. S. O'Loughlin.

Address of Institution:
Oldchurch Road, Romford.
Telephone No.: Romford
418, 419 (two lines).

					BED	s.	Beds.									
Classification of Wards.	No. of Wards.	Men.		Women.		Chile (unde	dren r 16).	Total.								
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.							
Medical	6	76	76	86	61		_	162	137							
Surgical	6	76	78	86	67	_	_	162	145							
hronie Siek	6	78	55	88	66	-	-	166	121							
hildren	8	_	-	-	-	*90	*135	90	135							
Venereal	8 2 2	9	9	5	5	-	-	14	14							
uberculosis		34	34	34	34			68	68							
solation	8	_	2	_	-	20	35	20	35							
Maternity	2	-	-	36	22	-	-	36	22							
Mental	7 2	16	16	16	15	-	-	32	31							
(a) Short stay (b) Long stay Mental	Obse	rvation W	ards only	No cer	tified Bed	ls.										
Defectives	1	-		60	60	-	-	60	60							
Total	43	289	268	411	330	110	170	810	768							

^{*}Whilst only 90 beds are provided, extra beds had to be added to accommodate 135 children at this time.

†Actually there were 71 Tuberculosis patients in Hospital at this time, but owing to the T.B. Pavilion being full three very early cases were accommodated in general wards.

Alterations and Extensions. Extensions to the Nurses' Home to accommodate 247 staff at a cost of approximately £37,000.

New Hospital Block erected in 1930—equipped at a cost of approximately £5,000.

Improvements. A minor Operating Theatre was equipped at a cost of £250.

Improvements and alterations were effected to the Maternity Block and Ante-Natal Department at a cost of £675, plus £375 for equipment.

Improvements to kitchen and cooking plant at a cost of £947.

Remarks. As mentioned elsewhere a Special Puerperal Fever Unit has been established at this hospital.

Consideration is being given to the enlargement of the Hospital by removing the remainder of the Poor Law inmates to proposed new accommodation at Suttons where additional land has been purchased at a cost of £3,700.

It will be noted from the table above that the Infirmary portion of this Institution is really functioning as a general hospital and serves an area containing a population of approximately 350,000.

Billericay Institution.

Name of Medical Officer:

Dr. J. Douglas Wells.

Address of Institution:
The Retreat, Billericay.
Telephone No.: Billericay 2.

		Beds.									
Classification of Wards.	No. of Wards.	Men.		Women.		Children (under 16).		Total.			
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.		
0 1	: 12	29	29	29	29	-	-	58	58		
	. 1	-	-	_	_	8	8	8 5	8 5		
Maternity .	. *2	_	-	5	5	-		5	5		
Total .	. 15	29	29	34	34	8	8	71	71		

^{*}Includes one lying-in Ward.

Additions. Structural alterations carried out so as to provide additional nurses' accommodation, at a cost of £411.

Remarks. Most of the hospital portion of the Institution is quite recent, having been erected in 1926. Provision was then made for future extensions by the addition of another storey, if required. $5\frac{1}{2}$ acres of land are available for future developments.

Chelmsford Institution.

Name of Medical Officer:

Dr. J. T. Whitley.

Address of Institution:
48, Wood Street, Chelmsford.
Telephone No.: Chelmsford 61.

					BEDS	8.				
Classification of Wards.	No. of Wards.	Me	en.	n. Women.		Children (under 16).		Total.		
		Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	
Medical	1 4	5 10	5 10	5 10	5 10	_	_	10 20	10 20	
Chronic Sick Children	1	36	34	40	38	4	- 2	76	72	
Tuberculosis Maternity	2 2 4	4	_	4	1		_	8	1	
Puerperal	4 3	-	-	3	2	-	-	3	2	
Total	15	55	49	73	56	4	2	132	107	

Improvements carried out :-

Domestic hot water service at a cost of £175.

New Steam Disinfector at a cost of £219.

Conversion of Board Room into Officers' Bedrooms £197.

Renovations to Nurses' Home £190.

Remarks. Infirmary and Nurses' Home opened in 1926 are modern and well built.

Excellent maternity accommodation is available, and as mentioned elsewhere a Special Puerperal Fever Unit has been established at this Institution.

Maldon Institution.

Name of Medical Officer:

Dr. E. Miles (Temp.)

Address of Institution:
32a, Spital Road, Maldon.
Telephone No.: Maldon 35.

		Beds.									
No. of Wards.	Men.		Women.		Children (under 16).		Total.				
	Pro- vided.	Occu- pied.	Pro- vided.	Occu- pied.	Pro- vided.	'Occu- pied.	Pro- vided.	Occu- pied.			
. \ \ 9	26	17	23	21	-	2	49	40			
	2	-	2	1	-	-	4	1			
-	-			-		-	-	41			
	Wards.	Wards. Me Provided. 9 26 2 2 2	Wards. Men. Pro- vided. Occupied.	Wards. Men. Won	Wards. Men. Women.	Wards. Men. Women. (under Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vided. Pro-vi	Wards. Men. Women. (under 16).	Wards. Men. Women. (under 16). Total			

Improvements. The domestic water supply, hot water services and heating; installation, have been improved.

Additional accommodation for several nurses has been provided at a cost of £74.

Remarks. The Infirmary was erected in 1873, and there is at present unused accommodation for about 100 inmates. The future use of these beds is under consideration.

DUTSIDE INSTITUTIONS—ACCOMMODATION.

TABLE XXIV.

Outside Authority.	Name of Institution where beds are available for Essex patients by agreement.	No. of beds available by agreement.	No. of beds occupied on 31st December, 1931
Herts C.C	Bishop's Stortford Institution	51	37
Middlesex C.C	Edmonton Institution	21 33 13 — 67	30 14 5 — 49
East Ham C.B.C	Aldersbrook Children's Homes	131	125
Vest Ham C.B.C	Central Home, Leytonstone Whipps Cross Hospital Forest Gate Hospital	571 312 201 118 19 — 1221	538 267 249 118 3 — 1175
Southend C.B.C	Rochford Hospital	128.3 75.7 14.6 — 218.6	135 47 15 — 197
		1688.6	1583

ABLE-BODIED AND CASUALS.

TABLE XXY.

Area.		Institut	ion.		bodied	able for able- l cases on ember, 1931.	Average number of casuals per
					Men.	Women.	night for 1931.
Colchester	 	Colchester		.,	54	23	22 14
		Stanway			48	62	
		Tendring			61	71 61	9
Braintree	 	Braintree			111		60
Saffron Walden	 	Saffron Wal	den		36	13	30
Epping	 2.2	Epping			42	23	26
South Eastern	 	Orsett			127	28	37
Southern	 	Romford			208	206	50
Chelmsford	 	Chelmsford			105	64	51
The same of the sa		Billericay			141	79	43
		Maldon			80	73	30
					1013	703	372

Items specially reported upon during the year.

Many varied questions arose which involved detailed investigation and careful consideration by the appropriate Committees and special reports were submitted. Among the chief matters thus dealt with were the following:—

Use of Alcoholic Liquors in Public Assistance Institutions.

A full report was submitted with a schedule giving particulars of the amount of alcoholic liquor consumed at the different Institutions in the Administrative County. As a result of this report, steps were taken which have considerably reduced the amount of alcoholic liquor consumed, and some irregularities in recording in the Institutions have been remedied. Instructions were also given to Medical Officers so as to standardise the procedure in ordering alcoholic liquors throughout the whole of the Public Assistance Institutions in the County.

Milk Supply.

An inspection was made of 15 farms from which milk was supplied to the Public Assistance Institutions in the Administrative County of Essex under contracts for the six months ended 30th September, 1931. The results of these inspections showed that 73 per cent. of the samples of milk were unsatisfactory in respect to cleanliness; that 40 per cent. of the farms obtained supplies of water from public mains; that 60 per cent. of the farms obtained supplies of water from other sources, and that with one exception, those supplies were unsatisfactory; that at 46 per cent. of the farms some improvements were needed to the buildings, and that at 33 per cent. of the farms the methods of production were unsatisfactory. Appropriate recommendations were made to the local Medical Officers of Health concerned.

These facts revealed the need for obtaining milk of a prescribed standard o cleanliness for the Public Assistance Institutions, and it was recommended that the Public Assistance Committee should favourably consider purchasing Grade A (Tuberculin Tested) Milk, or Grade A Milk, or Grade A Milk Pasteurised, preferably the first-named if that is available, for all the Institutions and Homes in the Administrative County.

The Public Assistance Committee decided that Grade A (Tuberculin Tested) Milk be purchased whenever possible for use in the Children's Homes in the County for a period of one year following the expiry of the existing contracts. The following amplified paragraph was also included in the Specifications on the Form of Tender for the Supply of Milk:—

'All milk supplied under the Contract shall be pure whole milk, produced under clean conditions, with all its cream as given by the cows, free from preservative, colouring or other foreign matter, and shall contain not less than 3.25 per cent. of butter fat, and 8.50 per cent. solids not fat, except during the month of April, when the fat shall be not less than 3 per cent. All milk shall be well cooled, clean and perfectly sweet on delivery, and except for pasteurised and other graded milks, shall not contain more than 500,000 bacteria per cubic centimetre, and the Coliform Bacillus shall be absent in 1/1000th cubic centimetre.'

Bedsores.

Investigations were made in regard to the prevalence of bedsores among the patients in the Institutions, which showed that at the time of enquiry 17 patients were suffering from bedsores. While appreciating that certain patients may be

admitted to an Institution suffering from these sores, with adequate nursing and attention the condition should clear up in a reasonable period. Moreover, similar attention should be sufficient to prevent the actual occurrence of bedsores whilst the patient is in the Institution. After consideration of the report the matter was referred to the House Committees of the Institutions in order that they may keep the position under observation.

Waking Hours.

In October, 1931, a report was submitted to the appropriate Committee, giving particulars of the time when patients are awakened in the morning and also the time of the first meal. This report showed that the average time of wakening the patients was 5 a.m., whilst the average time for the first meal was approximately 7 a.m. As a result of this report the House Committees were asked to further consider the matter with a view to some modification being made in the existing arrangements.

Consultants' Services.

Having regard to the responsibility of the Council for the health of between 4—5,000 inmates in Public Assistance Institutions, consideration was given to the appointment of suitable consultants and a full report on this matter was submitted, indicating the services available under the Public Health Committee's arrangements.

Subsequently, the following decisions were made :-

- (a) Consulting Surgeon. That a Consulting Surgeon be appointed for one session per week at a remuneration of 200 guineas per annum, and travelling expenses. The services of Sir Henry J. Gauvain are available for cases of surgical tuberculosis when required.
- (b) Consulting Physician. It was recommended that the services of Dr. W. Burton Wood, Consulting Physician for Pulmonary Tuberculosis, be utilised. The services of Dr. W. Masefield are also available when required.
- (c) Orthopaedic Surgeon. That the present arrangements for utilising the services of B. Whitchurch Howell, Esq., F.R.C.S., be continued.
 - (d) Consulting Ophthalmologist.

That for the time being no definite arrangements be made.

(e) Ear, Nose and Throat Specialist.

The above arrangements provide primarily for visits by the Consultants concerned to Oldchurch Hospital, Romford, but they also allow of visits to other of the County Council Institutions if and when required.

Oldchurch Hospital, Romford-Skin and Radium Department.

In December, 1931, the Committee considered and approved of a report for the establishment of a Skin and Radium Department at the Oldchurch Hospital, Romford, in charge of Dr. Arthur Burrows, of the London Hospital and London Skin Hospital. This special department comprises beds and other necessary adjuncts and marks the commencement of a determined effort to deal with patients suffering from certain types of cancer, particularly of the skin (including rodent ulcer), lip, tongue, cervix of the uterus, &c. In addition, intractable cases of skin disease or other obscure skin conditions will be dealt with in this special department.

Dietaries.

This subject has received a good deal of attention during the year, having regard to the requirements of the Public Assistance Order, 1930. The provisions of the 1930 Order might have been interpreted to infer that the definite quantities per patient laid down in previous Orders has been rescinded, but on enquiry at the Ministry of Health the opinion was expressed that each patient was still entitled to the quantities of food previously specified. A report is now being prepared on the question of dietaries but in the meantime an experiment is being made at one of the Institutions by suitably grouping the inmates to ascertain the practicability and efficiency of a proposal to revise the method of serving meals, i.e., by providing each inmate with a helping in accordance with appetite instead of the prescribed quantity laid down. The actual quantity of food mentioned in the Orders of 1913 and 1930 will be available if not actually served on the tables.

When this experiment is concluded steps will be taken to revise and coordinate the dietaries at all Institutions, but in the meantime attention is being focussed on the improvement of the facilities available for the preparation and cooking of food.

Salaries of Nursing Staffs.

On 7th October, 1931, a joint report by the County Accountant, the Public Assistance Officer and the County Medical Officer was submitted dealing with scales of salaries of nursing staffs, and the grading of the Institutions for this purpose. Other points dealt with were (a) definitions of the different types on nurses, (b) uniform allowances and other emoluments, and (c) the procedure to be adopted in connection with medical treatment of nurses who are ill or who may be admitted to an Infectious Diseases Hospital.

Bound up with the subject of Nursing Staffs is the important question of formulating at an early date a County Nursing Service whereby suitable cand dates from the Girls' Secondary and other Schools can enter the County Service as probationers, and subsequently serve their 3 years' general training in one more of the County Institutions. At the close of the year this scheme was strunder consideration.

Subscriptions to Voluntary Hospitals and other Bodies or Associations.

Consideration was given to continuing the contributions previously paid by the Boards of Guardians to Hospitals, local bodies and other Associations, and subscriptions amounting to £537 were made to Hospitals both in London and in Essex, and to Tuberculosis Care Associations and other Voluntary Bodies in the County. It was also agreed that subscriptions paid to District Nursing Associations in the County by the late Boards of Guardians be continued for the current year with a limit of £5 for each Nurse. Arrangements are being made for this annual grant to be paid to the County Nursing Association, who will arrange the distribution to the 152 District Nursing Associations in accordance with the work undertaken.

Examination of Bacteriological Specimens.

The arrangements made in 1930 with the Counties Public Health Laboratories, 91, Queen Victoria Street, E.C.4., to carry out bacteriological examinations in accordance with an agreed tariff were continued throughout the year.

Treatment of Out-Patients-Public Assistance Institutions.

The question of contributions by out-patients for treatment at Oldchurch Hospital, Romford, was considered, and subsequently the Committee approved of a scale of small fees for attendances by such patients. Arrangements were made whereby in necessitous cases the charges would be reduced or entirely waived.

Management of Institutions.

A Special Sub-Committee considered the most satisfactory method of managing the Committee's Institutions and submitted a scheme on the following lines which was subsequently approved and adopted in April, 1931:—

That the management of Institutions be now withdrawn from the duties of the Area Guardians Committee.

That the Institutions Sub-Committee be solely responsible for the complete management of the various Institutions.

That small Sub-Committees of not less than three members of the Public Assistance Committee, hereafter termed "House Committees", be appointed to manage the Institutions in each area other than the Children's Homes, which will remain under the Children's Homes Sub-Committee.

That such House Committees meet monthly at the respective Institutions and report to the Institutions Sub-Committee.

That the Area Clerks act in the capacity of Deputy to the Public Assistance Officer in respect of the House Committees for the time being.

Proposed New Institutions.

References have been made in previous reports to the proposed new Institutions at Great West Hatch, Chigwell, and Takeley, and also to the reconstruction or additions at the Stanway Institution, but no actual progress was made during the year.

Children's Homes.

The following table (XXVI) gives particulars of the Children's Homes in the Administrative County, together with the number of beds available and beds occupied at the end of December, 1931:—

TABLE XXVI.

Area.	Address of Home.	1		vailable cember.	Beds occupied 31st December.					
111011	21000000		Boys.	Girls.	Boys.	Girls.				
Colchester	Villa Road, Stanway		24	27	22	21				
	Tendring Institution Grounds		24	30	24	24				
Braintree	"Friars", 31, Bradford Street, Bocking		16	15	15	12				
Saffron Walden	New Street, Dunmow		11	9	11	9				
Epping	Coopersale		24	21	23	14				
South Eastern	Whitehall Road, Little Thurrock			14		14				
Southern	Romford		97	71	97	67				
Chelmsford	Writtle		32	_	31	_				
	Beehive Lane, Great Baddow		_	24	_	19				
	Tiptree		14	14	14	12				

Summer Camp. In August, 1931, a Summer Camp for children from the various Children's Homes in the Administrative County was held on a site near to the Tendring Public Assistance Institution which is only five or six miles from the sea. Approximately 120 selected children from Homes attended the Camp and were accommodated in tents with a marquee for dining room purposes. Communications have been received from the Medical Officers of the Children's Homes concerned in which the unanimous opinion was expressed that all the children had greatly benefited from their stay in the Camp.

Isolation Accommodation. Enquiries have been made into the accommodation available in the Children's Homes, particularly as to the floor space and cubic air space per child. In addition, consideration was given to the provision in different parts of the County of suitable isolation accommodation for cases of non-notifiable infectious diseases, e.g., Whooping Cough, Measles and Chickenpox. In several of the Homes an attempt is made to achieve isolation by setting aside one particular room for this purpose, but it is not recommended that prolonged isolation should be provided in this manner at Children's Homes, but preferably that provision might be made in conjunction with certain selected Public Assistance Institutions to which the affected children could be transferred from the Children's Homes or Nurseries.

It is estimated that the amount of isolation accommodation required would be proximately 45 beds, whilst if the Committee thought it desirable to provide for irect admissions of similar cases from parents' homes this number would have to be icreased. The subject is still receiving careful consideration by the Children's Homes ub-Committee.

Improvements and Alterations. The following is a list of the improvements and Iterations undertaken by the Public Assistance Committee at the various Children's Iomes during the year:—

Stanway . . Renovations at a cost of £280.

Braintree .. Structural improvements at a cost of £268.

Maldon .. Purchase and adaptations to The Gables at a cost of

approximately £1,900.

Writtle .. Renovations and improvements at a cost of £198.

Billericay .. Purchase and adaptation to Foxcroft at a cost of £2,600.

oarded-out Children.

At the end of 1931 the Public Assistance Committee were responsible for 151 oarded-out children, who are supervised in some areas by voluntary visitors and in thers by part-time salaried officials.

With the further development of the Health Visiting staff (part of whose duties ow include Infant Life Protection work under the Children Act, 1908), and improved cavelling facilities, there is no reason why suitable arrangements could not be made etween the Public Health and Public Assistance Committees for the Health Visitors undertake eventually the supervision of these boarded-out children, if necessary, conjunction with voluntary visitors.

Medical Staff.

- (a) Institutions. Particulars of the Medical Officers of the various Institutions regiven on pages 74—80
- (b) DISTRICT MEDICAL OFFICERS AND PUBLIC VACCINATORS. There are 131 istrict Medical Officers and Public Vaccinators in the Administrative County. s changes are con inually taking place there is no point in giving the full list in his report.

o-operation with Medical Staff.

Close co-operation with the Medical Officers of Institutions and District Medical officers was maintained throughout the year. Assistance was rendered wherever ossible by arranging the transfer of patients from one Institution to another.

Among the chief items dealt with were the following: -

(i) EXTRA MEDICAL FEES. A new scale of extra medical fees was drawn up and approved by the Committee who decided that the scale should apply to all District Medical Officers irrespective of whether or not they are transferred Officers, and accordingly new contracts are being arranged.

- (ii) Supply of Drugs. The general principle of whether drugs should be supplied by the County Council or by the individual District Medical Officers as part of their contracts was considered. With certain exceptions it was thought better that doctors, especially in the country districts, should supply their own drugs.
- (iii) CIRCULARS. During the year the following circulars have been issued to the Medical Officers indicated:—
 - (a) Institution Medical Officers. (i) Arrangements for admission of maternity patients from autonomous Child Welfare Areas. Also regarding ante-natal examinations of patients admitted. (ii) Waking hours of patients.
 - (iii) X-Ray examinations. (iv) House Committees' reports. (v) Bedsores.
 - (vi) Public Assistance (Casual Poor) Order, 1931.
 - (b) District Medical Officers. (i) Admission of patients to Hospital for special treatment. (ii) X-Ray examinations. (iii) Consultants. (iv) Laboratory facilities.

Legislation.

PUBLIC ASSISTANCE (CASUAL POOR) ORDER, 1931.

This Order (with the exception of Article 7) came into operation on the 1st April, 1931, and amended the Public Assistance Order, 1930, in regard to the administration of relief to the casual poor. The main object of the Order was to give effect to the recommendations of the Departmental Committee on the Relief of the Casual Poor, which include (inter alia) (i) medical examination of casuals in the wards on one day per month, (ii) appropriate arrangements at each ward for bathing and disinfection, (iii) improvements in the dietary. In this County careful consideration has been given to the casual wards and many improvements carried out. Arrangements were also made with the Medical Officers of the eleven Institutions so that medical examination of all casuals in the wards is carried out on the third Tuesday in each month. Co-operation has been achieved with the Counties of Suffolk and Norfolk so as to avoid the same casuals being examined in each month.

TABLE AXIX

NOTIFICATIONS OF INFECTIOUS DISEASE AND ATTACK RATES, 1931.

(Figures obtained from the Weekly Notification Returns.)

SCARLET FEVER. DIPRTREBIA. OTHER TUBERCULAR DISEASES. PURRPERAL FRVER. ERYSIPELAS. OPHTHALMIA NEONATORUM, PURRERIA.
PURREIA. ENCEPHA LITIS LE-THARGICA TUBERCULOSIS, RESPIRATORY. ACCTE-POLIO-VELITIS SANITARY DISTRICTS. Estimated Population 1931. PNEUMONIA. VARI-OUS. TOTAL Per 1,000 No. Per 1,000. Per 1,000 No. No. No. No. Per 1,000. Per 1,000, No. No. No. Per 1,000. No. No No. No. No. No. 247 22 5 15 4.8 1.8 0.6 2.2 0.2 0.2 0.2 0.9 2.8 1.0 1.0 0.5 0.8 2.4 1.2 0.08 0.5 0.2 0.3 0.6 0.2 0.4 29 7 2 0.6 0.6 0.2 1 304 5 0.7 0.5 9 66 6116 222 142 433 200 22 13 31 15 14 19 288 63 446 11 34 110 2 4 188 211 200 200 200 120 120 120 131 22 7 100 5 46 4 3 227 10 148 2 18 9 12 13 74 132 17 06 03 02 03 02 02 02 03 03 26 22 0.2 1 2 35 214 6 0.1 11 18 1 20 210 10 17 5 3 12 234 48.1 71 41 22 1 0.05 25 14 49 51 201 235 42 18 15 18 01 03 15 10 20 03 7 46 11 25 01 02 04 05 0.07 0.06 0.07 1.9 0.3 6 107 112 0.5 0.2 0.8 0.9 0.4 1.1 0.4 0.2 0.2 1 13 9 14 23 LETTON B.
LOCORITON MALDON B.
PORTLEET
RATLEIGH
ROMFORD
BAFFEON WALDEN B.
SMORECHYMSE.
TIEBURT
WALTHAM HOLT CROSS
WALTHAMSTON D.
WALTHAM HOLT CROSS
WALTHAMSTON D.
WITHAM
WISH MERCA
WITHAM
WITHAM
WITHAM
WITHAM
WITHAM
WITHAM 11 13 18 1380 95 92 93 91 95 92 97 97 1 57 1 1 6 1 43 0 2 0 4 0 1 0 3 0 9 0 6 1 3 1 6 1 7 1 3 5 10 9 209 5 25 1 132 32 1317 55 190 5 61 1 68 0.5 0.2 6 0.3 10 4 5 3 25 0.5 2.0 1.1 1.4 1.0 11 0.5 1 0°9 0°5 0°9 72 4 1 22 54 1 2.2 0.08 19 93 917000 2528 2.8 1768 1.9 335 0:4: 63 117 327 0.4 71 1027 313 988 BULERIAN AUTON SILEMINOS SIL 10 184 3771 11509 3947 39730 21620 2289 28550 15700 17300 9730 18870 16080 16080 15040 96212 93860 4 133 85 4 83 30 18 4 47 24 23 27 30 19 8 0°3 1°0 1°2 38 25 0°07 0°05 05 05 04 09 04 13 336 161 11 146 76 95 19 118 55 51 109 104 59 31 12 175 6 37 12 3 19 11 16 8 24 12 5 6 14 9 22 9 2 10 28 16 1 9 15 6 3 13 7 22 12 0.04 11 20 1:16 7 2 9 3 7 10 3 4 7 10 06 02 03 98 22 07 0.11 17 37 11 0.13 0.2 26 0.1 1.9 39 0.14 58 0.5 228 153 07 TOT. BORO'S & URBAN DISTRICTS TOTAL RUMAL DISTRICTS 8 65 1571 1768 196 335 39 $^{0.37}_{0.14}$ 63 17 117 327 58 0.4 71 1027 228 11 313 | 0·3 108 | 0·4 988 193 11 10 184 11 3771 65 11509 1571 TOTAL FOR ADMIN, COUNTY 1195100 3128 2.6 1964 374 0.31 80 156 385 0.3 1255 1.0 421 | 0.4 1181 18 3836 195 13090

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TABLE XXVIII. CAUSES OF DEATH—YEAR 1931.

(Figures supplied by the Registrar-General).

HEARY DISTRICT.	Typhoid and Para- Typhoid Ferer.	easies.	California Person.	Nhooping Congh.	Ophtheria.	nfluenza.	Snosphalitis Lethangica.	Cerebro-Spinst Fever.	Tubeconicsis of Respiratory System.	Other Tubersulpas Duesses	Syphilis.	General Paratysis of the Invarie, Tabes Dorsalia,	Camorr, Melignant Disease.	Diabete x.	Cerebral Bessorrhage, &c.	Heart Disease.	Aneuriem.	Other Circulatory Diseases.	Bronchitis.	Premionia (all forms).	Other Bespiratory Diseases	Peptie Uter	Diarrhosa, &c. (under 2 years.)	Appendicitis,	Cirrbesis of Liver.	Other Diseases of Liver, &c.	Other Digestiva Diseases.	Acute and Chronia Nephritis.	Puerperal Sepaia.	Other Puerperal Canses.	Conges itsl Deblity, Premature Birth, Malfornations, he		Suieile.	Other Vislence.	Other Defined Diseases,	Causes ill-defined or	unknown.
URBAN. LING B. PLAST. NYTHEE NYTHEE WINTOODSYSA KINGAN ON-COCCEN VET SILAND LIMSTOND B. SGOVARD SGOVARD SGOVARD SGOVARD SGOVARD SHOON NICON STEEL SHOON SHOON STEEL SHOON		1	1 1 1 2 2 3 1 16	(4) 4	(5) (5) 7 3 1 1 1 2 1 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1	(6) (3) 3 2 2 6 6 1 3 3 4 4 7 7 3 111 116 1 1 1 1 5 5 3 1 4 4 3 3 1 10 10 10 11 1 1 1 1 1 1 1 1 1 1 1	(7)	(8)	(59) 40 123 3 4 4 1 1 2 5 5 10 10 40 40 89 11 12 13 13 66 77 14 14 15 16 16 16 17 18 18 18 18 18 18 18 18 18 18	110 3 3 4 	(11) 1 1 1 1 1 1 1 1 1 2 2 3 3 3 1 1 1 1 2 2 2 2	(12) 1 1 1 2 2 2 2 3 9 	(13) 58 22 15 9 8 6 5 35 25 25 75 26 166 1 1 26 176 10 10 10 10 10 10 10 10 10 10 10 10 10	(14) 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(15) 32 9 9 3 4 4 4 5 5 5 5 5 5 8 3 2 2 2 2 2 2 1 4 5 13	(16) 97 28 26 26 26 29 5 111 99 36 39 35 38 35 38 77 15 5 24 10 30 20 21 11 11 13 13 18 11 13 13 18 11 11 13 13 18 11 11 13 13 18 11 11 11 13 18 18 11 11 11 11 11 11 11 11 11 11 11	(17) 3 	(18) 17 8 11 10 7 2 15 8 4 8 35 10 11 27 3 5 42 29 2 4 1 2 10 2 2 2 6 37 1 4 3 11 307	(19) 33 7 7 5 3 2 5 5 2 114 8 80 25 5 2 2 12 1 5 2 2 9 5 5 7 5 7 105 2 2 2 9 4 4 4 6 6 6 2 2 2 9 4 4 86 3 3 6 5 2 1 2 2 4 4 4 6 6 2 2 2 2 4 4 8 6 3 3 6 5 2 1 2 2 4 4 4 6 6 2 2 2 2 4 4 8 6 6 3 3 6 5 2 1 2 2 4 4 4 6 6 2 2 2 2 4 4 4 6 6 2 2 2 2	(20) 30 3 5 7 4 1 4 9 14 7 19 19 12 2 5 10 3 3 13 13 5 10 2 9 603	(21) 8 2 2 1 1 1 1 1 1 3 3 8 8 1 1 1 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1	(22) 6 6 1 1 1 2 2 2 2 2 3 3 5 7 7 7 1 1 1 8 1 1 8 1 1 1 8 1 1 1 1 1 1	(23) 61 1 	(24) 4 1 1 1 1 1 1 1 1 1 1 1 1 1	(25) 2 2 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4 4	(26) 3 2 2 1 11 4 9 6 6	(27) 13 13 13 15 11 17 66 67 77 122 144 11 11 15 33 44 11 11 22 33 14 11 12 22 33 44 11 12 22 34 44 45 45 45 45 45 45 45 45 45 45 45 45	(28) 16 6 2 1 1 3 3 1 1 6 6 8 2 2 16 5 2 17 1 4 9 9 17 2 2 3 3 3 4 4 1 1 8 8 3 1 8 8 231	(29) 2 2	(36) 3 1 1 1 1 1 2 2 1 7 7	(31) 31 31 2 2 2 1 1 4 2 2 10 10 11 5 6 6 4 7 7 11 1 2 6 6 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9) (33) (37) (37) (38) (38) (38) (38) (38) (38) (38) (38) (344); (34); (34); (34); (34); (35	55 40 77 8 82 88 82 88 82 3 77 77 44 11 11 500 77 30 66 67 87 88 89 80 80 80 80 80 80 80 80 80 80	11 11 11	33 114 12 22
RURAL. LLEASHOAY LLEASHOAY RAINTREE GURATHAD URNAUM LEASHOAD URNAUM LEATHOA LAISTEAD RAINTREE LALDON NOAR RAINTREE LALDON LAISTEAD LAISTEA	1	1		3 1 1 1 1 	3 3 2 2 2 1 1 1 3	4 13 3 3 10 4 6 7 7 8 9 4 3 7 7 3 10	1 1 1 2 2 1 1		2 177 10 10 12 77 6 6 14 7 8 9 9 10 9 3 3 3 15	3 2 2 2 2 2 3 3 3 3	1 1 1 1 1 2 2 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 63 29 2 44 34 31 31 30 19 29 20 20 40 40	1 6 7 4 3 4 1 3 5 5 3 2 1 1	25 14 25 15 7 4 8 19 9 16 9 16 9 22 20	10 63 61 9 53 42 43 43 43 42 56 18 39 674	1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 2 2 1	8 24 34 3 18 26 12 11 13 10 2 7 4 5 18 7 15 217	2 17 15 1 28 7 11 8 15 7 6 5 14 5 8 3 11	2 24 12 3 14 9 8 10 10 6 6 10 13 4 4 4 16	5 2 1 1 2 2 2 2 3 2 4 1 4 1 2 3	5 1 1 3 1 3 5 1 1 3 3 5 1	2 1 1 3 2 2 9	1 3 2 1 1 1 1 2 2 2 1 2 2 2 2 2 2 2 2 2	1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 2 4 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 2 1 2 2 1 2 2 1 2	1 10 11 14 3 3 4 8 6 1 1 8 1 4 1 2 5 5 82	2 16 2 6 6 4 4 7 7 4 6 4 3 4 4 4 8 2	2 2 2 1 1 1 1 1 	1 1 1 1 1 1 1 1	1 21 15 2 10 7 8 8 1 9 5 10 10 10 12 12 2 2 6	2 30 6 46 9 18 11 8 13 10 7 5 8 5 21	2 4 1 5 2 4 3 2 2 1 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 23 4 1 1 15 8 12 1 9 6 1 7 7 14 8 2 1 9	4 35 13 3 23 19 16 5 23 14 11 17 21 15 12 3 3 3 3	1 1 1 2 6	44 22 33 22 20 10 11 24 15 11 20 20 15 14 7 29
RURAL BORO' & URBAN	6 9	11	16	10							24		1146	98	513	1870	33	307	482	603	102	85	54	67	27	60	220	231	23	26	453	272	126	313	751	15	91

TABLE AXIX.

NOTIFICATIONS OF INFECTIOUS DISEASE AND ATTACK RATES, 1931.

(Figures obtained from the Weekly Notification Returns.)

SCARLET FEVER. DIPHTHERIA. ENTERIO FEVER. PURRPERAL FRVER. PUERPERAL PUREXIA. OTHER TUBERCULAR DISEASES. OPHTHALMIA NEONATORIU ENCEPHA LITIS LE-THARGICA. ACCTE-POLIO-MTELITIS TUBERCULOSIS, RESPIRATORY. SANITARY DISTRICTS. PNEUMONIA. SMALL-VARI-OUS. TOTAL No. Per 1,000 No. Per 1,000. No. Per 1,000 No. No. No. Per 1,000. No Per 1,000 Per 1,000. No. No. Per 1.000. No. No. No No. No. BABRING IS.

REPULIET

RENTHER

BRANTHEE

BRANTHEE

BRENTHOOD

BREGHTLINGBEA

BUCKHURST HILL

BUCKHURST HILL

CANUEY ISLAND

CANUEY ISLAND

CHANGFORD

CANUEY ISLAND

CHANGFORD

CHANGFORD

CHANGFORD

CHANGFORD

CHANGFORD

HACKING

HALL

HALL 51839 170 24 38 19 8 11 5 17 69 10 9 0.6 0.6 0.2 118 5 304 0.7 ï ì 26 22 0.6 0.3 0.2 0.3 0.2 0.2 0.2 0.3 0.3 18 21 20 20 52 120 10 2 19 7 10 32 149 131 0.2 1 9 12 13 74 132 17 7 35 214 6 0.1 11 18 1 1 5 20 210 10 17 5 3 12 0.9 1.6 1.5 3.5 234 48.1 71 2.2 1 0.05 10 49 51 201 235 25 14 1 6 57 66 0°1 0°2 0°4 0°5 0.07 0.06 0.07 1.9 0.3 6 107 112 13 9 05 02 08 09 04 11 04 02 02 11 13 39 31 1 3 18 1380 7 10 5 46 4 3 27 10 148 57 1 06 23 07 32 17 90 34 03 18 50 07 41 30 2 77 8 330 0.2 0.4 0.1 0.3 3 38 0°1 0°4 0°3 09 06 13 16 17 5 10 9 132 32 1317 55 190 61 61 1 43 209 5 25 68 0.5 3 0.2 6 0.3 10 4 5 3 25 11 1 0.5 0.5 2 0.5 0.9 0.5 0.9 1 22 54 2.2 19 917000 93 2.8 2528 1768 1.9 335 63 117 327 0.4 71 1027 RURAL.

BELEHAMP

BILLERICO.

BILLERICO.

BILLERICO.

BULHISTEAD

CHELMSTORD

DUNNOW

EPPING

HABEREAD

MALDON

ONGAR

ORGETT

ROSEFORD

ROSEFORD

ROSEFORD

ROSEFORD

ROSEFORD

TENDRING 313 0.3 988 1:1 10 184 3771 11509 3947 39739 21630 2289 28550 15700 17300 9793 18870 16080 11520 20400 16960 9622 6919 23860 0·3 1·0 1·2 38 25 3 0.07 0.5 0.5 0.4 0.9 0.4 5 37 15 3 19 11 16 8 24 12 5 22 6 14 9 13 336 161 11 146 76 95 19 118 55 51 169 104 59 31 12 175 02 03 04 02 01 03 01 03 02 02 04 04 04 22 9 2 10 28 16 1 9 15 6 3 13 7 52 0.04 11 20 1:16 10 0.6 0.11 17 37 11 10 3 4 7 1 0:3 0.13 22 12 5 3 2 01 12 2 0.2 61 26 0.1 46 196 39 0:14 58 0.2 228 0.8 TOT. BORO'S & URBAN DISTRICTS TOTAL RUBAL DISTRICTS 108 0.4 153 0.7 65 1571 917060 278100 2528 600 1768 196 19 335 0:37 63 117 327 58 0.4 71 9 1027 228 11 313 | 0·3 108 | 0·4 988 193 10 8 11 184 11 3771 65 11509 1571 TOTAL FOR ADMIN, COUNTY 1195100 3128 2.6 1964 1.6 374 0.31 80 156 385 0.3 80 1255 1.0 421 | 0.4 1181 1.0 18 195 3836 13080

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