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XLVIII 1937



ADMINISTRATIVE COUNTY OF ESSEX.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1937

WILLIAM A. BULLOUGH, M.Sc., M.B., D.P.H. COUNTY MEDICAL OFFICER OF HEALTH.

CHELMSFORD:

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PUBLIC HEALTH AND HOUSING COMMITTEE.

Chairman—Alderman A. M. Mathews. Vice-Chairman—Alderman F. D. Smith.

Aldermen-

P. Astins, A. Brooks, A. L. Clarke, C. W. Daines, A. W. Green, H. de Havilland, A. Porter, Col. Gilbertson Smith, Mrs. B. W. Williams.

Councillors-

J. R. Adams, Mrs. C. B. Alderton, J. H. Cæsar-Gordon, C. W. Clark, Mrs. C. Custerson, W. J. Day, Mrs. L. F. Evans, J. W. Mathews, J. C. Mead, J. C. Menhinick, E. Meredith, H. F. Pash, F. J. Romanes, E. Smith, Mrs. M. Sorensen, G. J. Wetton, Dr. R. A. Woodhouse and E. G. Wright.

MEDICAL AND NURSING SERVICES JOINT SUB-COMMITTEE.

Representatives of the Public Health and Housing Committee.

Ald. A. Brooks (Chairman), Ald. C. W. Daines, Ald. A. M. Mathews, Coun. J. C. Mead, Ald. F. D. Smith, Ald. Mrs. B. W. Williams, Coun. E. G. Wright.

Representatives of the Education Committee.

Mrs. K. M. E. Bell, Coun. Rev. B. C. Cann, Coun. Miss M. L. Mathieson, Coun. A. G. Pearce.

Ex-officio Members.

Ald. H. de Havilland, Ald. A. Porter, Ald. Col. Gilbertson Smith.

HOSPITAL SITES AND BUILDINGS SUB-COMMITTEE.

Aldermen-

P. Astins, A. Brooks, A. L. Clarke, H. de Havilland, A. M. Mathews (Chairman), A. Porter, F. D. Smith, Col. Gilbertson Smith.

Councillors-

J. R. Adams, Mrs. C. B. Alderton, C. W. Clark, Mrs. C. Custerson, W. J. Day, A. W. Green, J. W. Mathews, J. C. Mead, J. C. Menhinick, E. Meredith, H. F. Pash, Dr. R. A. Woodhouse.

PREFACE.

To the Chairman and Members of the Essex County Council.

I have the honour to submit to you my nineteenth Annual Report for the Administrative County of Essex for the year 1937. This is the 48th Annual Report which has been issued.

The population as estimated by the Registrar-General at mid-year 1937 was 1,377,700, being an estimated increase of 33,240.

Again there was an increase in the number of births, 19,991 for 1937, as compared with 19,516 for 1936. This was reflected in a slightly increased birth-rate, 14.5 in 1937 and 14.4 in 1936, the comparative rates for England and Wales being 14.9 and 14.8 respectively. The lowest rate (9.9) in the Administrative County was in the Clactonon-Sea District and the highest (19.1) was again in the Hornchurch Urban District. In the Boroughs of Maldon and Saffron Walden, the Urban Districts of Brightlingsea, Clacton-on-Sea, Frinton & Walton, Halstead, West Mersea and Wivenhoe and the Rural Districts of Dunmow, Halstead, Maldon and Saffron Walden, the birth-rates were lower than the death-rates.

An increase is again recorded in the number of deaths from 13,369 in 1936 to 13,956 in 1937, the rates being 9.9 in 1936 and 10.1 in 1937. Comparative rates for England and Wales also showed an increase from 12.1 to 12.4. Heart Disease (3,488) and Cancer (2,056) are again the highest figures recorded in the Causes of Death Table on page 120.

The number of deaths of infants under one year of age per 1,000 births decreased from 954 (rate 49) in 1936 to 810 (rate 46) in 1937, the rates for England and Wales being 59 and 58 respectively. The highest rate (131) was again in the Urban District of Canvey Island, the lowest (12) being in the Urban District of Wivenhoe.

Table XXVII on page 121 records the notifications of Infectious Disease received from the Sanitary Districts in the Administrative County. Again, not a single case of Smallpox was notified, and there was a further reduction in the total number of notifications of cases of infectious disease from 8,083 in 1936 to 7,889 in 1937. There was, however, an increase in the number of cases of pneumonia.

There was an increase of 71 in the number of licences to produce designated milks, the figures now being Tuberculin Tested Milk 65 and Accredited Milk 800. The year 1937 was an experimental one owing to the Methylene Blue Reduction Test superseding the Bacteria Count from 1st January, 1937. Criticisms of the new test, which is simple and gives quick results, were received. Licensees missed the numerical feature of the bacteria count which they claimed had been a helpful guide to the cowmen and themselves. A Special Report is incorporated, dealing with water supplies to licensed farms, from which it will be seen that everything possible has been done to secure improved supplies.

Information regarding the excellent schemes for the provision of piped water supplies by the Rural District Councils, except the Halstead Rural District Council, is given on pages 48 to 53. Approximately 552 miles of additional water mains have been or will be laid under the various schemes. 83 per cent. of the Parishes in the Rural Districts will have at least the nucleus of a piped water supply, and this percentage would have been much higher if the comprehensive scheme for the Halstead Rural Area had not been abandoned on economical grounds.

The first whole-time Venereal Diseases Officer was appointed and Dr. J. M. Elliott took up duty on 1st October, 1937. Development in the services in several directions has already taken place.

For the first time a Section is included dealing with Air Raid Precautions—see page 73. It is satisfactory to note that considerable progress has been made in the preparation of local schemes.

Intensive housing surveys in some of the Rural Districts are nearing completion and every effort is being made to cope with the difficult task of securing that all the houses for the working classes shall be fit in all respects for human habitation. Some extent of the work involved throughout the County will be realised from the fact that 32,752 houses which were inspected, needed 94,120 visits by Sanitary Inspectors.

Reference on page 61 is made to the National Health Campaign and to the steps which were taken in Essex to assist in bringing to the notice of the general public the many facilities for advice and treatment which are provided for their benefit.

Pages 62 to 68 fully set out the position in regard to the provision of hospital services, including the progress made in (a) negotiations with Voluntary Hospitals, and (b) acquisition of sites, erection and establishment of new hospitals, &c. Only brief reference is made this year to the Oldchurch County Hospital as the Medical Superintendent is issuing a separate Report with regard to this Hospital.

Reference is made to the attention given by the County Council to the question of improving the conditions of service of nurses in regard to hours of duty, salaries, holidays and general amenities. The Essex scheme for the training of assistant nurses for chronic patients is also referred to in this section of the Report.

Part III gives details of the Maternity and Child Welfare Schemes and includes also the work of the Council's Midwifery Scheme, details of which were given in the Report for 1936. The Scheme has operated from 1st July, 1937, and has so far proved satisfactory.

The death-rate from Pulmonary Tuberculosis in 1937 was 0.44 per 1,000, a very low record, comparing favourably with 0.52 for England and Wales as a whole. During the year the number of beds occupied has risen from 704 to 782, while the waiting list remains stationary. Returns on investment in Public Health are not immediate, but I have no doubt that the community will be repaid manifold in the future by the effect of increased segregation of this infection. There is continuous and satisfactory development of the Tuberculosis Dispensary Service.

I have great pleasure in recording my appreciation of the confidence and support given to me by the Chairmen and Members of the Public Health and Public Assistance Committees. To all the Medical Officers of Health, and other officials of the Local Sanitary Authorities, to the Medical, Dental, Nursing, Inspectorial 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 loyal support.

> W. A. BULLOUGH, County Medical Officer.

Public Health Department, County Hall, Chelmsford.

2nd September, 1938.

STAFF.

(1st April, 1938).

County Medical Officer, School Medical Officer and Chief Tuberculosis Officer.

W. A. Bullough, M.Sc., M.B., Ch.B., D.P.H.

Deputy County Medical Officer.

T. P. Puddicombe, D.S.O., M.B., B.S., M.R.C.S., L.R.C.P., D.P.H.

Assistant County Medical Officers-Central Staff.

W. L. Yell, M.D., D.P.H., Senior Assistant County Medical Officer.

J. L. Miller Wood, M.R.C.S., L.R.C.P., D.P.H., M.M.S.A., First Assistant County Medical Officer.

G. G. Stewart, M.R.C.S., L.R.C.P., D.P.H., Assistant County Medical Officer.

Specialist Staff.

(a) Whole-time.

G. A. Jamieson, M.B., B.S., D.O.M.S., Ophthalmic Surgeon. J. M. Elliott, M.B., Ch.B., Venereal Diseases Medical Officer.

(b) Part-time.

Sir Henry J. Gauvain, M.C., M.A., M.D., F.R.C.S., Consulting Surgeon-Surgical Tuberculosis. W. Burton Wood, M.A., M.D., M.R.C.P., D.P.H., Consulting Physician, Diseases of the Chest. Mather Cordiner, M.B., Ch.B., D.M.R.E., Radiologist, Oldchurch County Hospital. G. Franklin Wood, M.A., M.B., B.Ch., D.M.R.E., Radiologist-Sanatoria. Hamilton Bailey, F.R.C.S., Consulting Surgeon, Oldchurch County Hospital. R. W. Reid, M.S., F.R.C.S., Surgeon, Black Notley Sanatorium. Arthur Burrows, M.D., M.R.C.P., D.M.R.E., Skin and Radium Specialist. W. S. O'Loughlin, M.D., M.C.O.G., Gynaecologist and Obstetrician. Everard Williams, F.C.O.G., M.R.C.S., M.R.C.P., Gynaecologist and Obstetrician. Hamblen Thomas, F.R.C.S., Ear, Nose and Throat Specialist. T. Collyer Summers, F.R.C.S., Consulting Ophthalmologist, Oldehurch County Hospital. B. Whitchurch Howell, F.R.C.S., Orthopaedic Surgeon. E. V. Suckling, M.B., B.S., M.R.C.S., L.R.C.P., D.P.H., Bacteriologist for Essex. Kenneth Shirley Smith, M.D., F.R.C.P., B.Sc., General Consulting Physician, Oldchurch County Hospital. F. E. Camps, M.D., M.R.C.S., L.R.C.P., Consultant Physician and Pathologist. C. H. Fagge, M.A., B.M., Visiting Anaesthetist, Black Notley Sanatorium. Alan Brews, F.R.C.S., Obstetric Consultant, Black Notley Sanatorium. Whole-time Medical Staff, Oldchurch County Hospital, Romford. E. Miles, M.B., Ch.B., D.P.H., Resident Medical Superintendent. F. N. Foster, F.R.C.S., Non-resident Deputy Medical Superintendent. E. B. Whittingham, F.R.C.S., Assistant Resident Surgeon.

A. Garland, M.D., B.S., D.P.H., Non-resident Assistant M.O.

D. Stephens, M.R.C.S., L.R.C.P., Non-resident Assistant M.O.

S. F. Marshall, M.D., B.S., M.R.C.S., L.R.C.P., Non-resident Assistant M.O. and Pathologist.

Eileen Whapham, M.B., B.S., Resident Assistant M.O.

Ronald Stewart, M.B., Ch.B., Resident Assistant M.O.

Francis R. Berridge, M.R.C.S., L.R.C.P., D.M.R., Resident Assistant Radiologist.

James G. Murdoch, M.B., Ch.B., Assistant Medical Officer and Resident Anaesthetist.

T. B. Gordon, M.B., Ch.B., Junior Resident Medical Officer for 12 months.

J. D. Watt, M.B., Ch.B., Junior Resident Medical Officer for 12 months.

J. L. M. Whitbread, M.D., M.C.P.S., Resident Assistant Medical Officer, Out-patient Department.

Whole-time Medical Staff, Black Notley Sanatorium.

M. C. Wilkinson, M.B., B.S., M.R.C.S., L.R.C.P., Medical Superintendent. R. C. Cohen, M.D., D.P.H., Assistant Medical Officer. Doris B. Clay, M.B., B.S., Junior Assistant Medical Officer.

J. H. Dixon, B.A., M.R.C.S., L.R.C.P., M.B., B.Ch., Junior Assistant Medical Officer.

Assistant County Medical Officers who are also Local Medical Officers of Health.

| Name. | Qualifications. | Duties. |
|---------------------|---|--|
| W. H. Alderton | M.C., M.R.C.S., L.R.C.P., D.P. | H. M.O.H., T.O., S.M.I., C.W.O. |
| B. Fraser Beatson | M.R.C.S., L.R.C.P., D.P.H. D.T.M. & H. | , M.O.H., S.M.I. |
| W. T. G. Boul | M.D., D.P.H | M.O.H., T.O., S.M.I. |
| C. B. Huss | M.B., B.S., M.R.C.S., L.R.C. D.P.H. | P., Deputy M.O.H. and Assistant C.M.O. |
| Enid L. Weatherhead | M.B., B.S., M.Sc | Assistant M.O.H. and Assistant C.M.O. |
| L. S. Fry | B.A., M.D., D.P.H | M.O.H., T.O. (including M.O., High Beech Sanatorium). |
| J. Hatton | M.D., D.P.H | M.O.H., T.O. |
| N. S. R. Lorraine | M.D., D.P.H., F.R.S. (Edin.) | M.O.H., T.O., S.M.I., C.W.O. |
| W. A. Milne | ., M.B., Ch.B., D.P.H. | M.O.H., T.O., S.M.I., C.W.O. |
| J. Ramsbottom | M.B., Ch.B., D.P.H. | M.O.H., T.O., S.M.I., C.W.O. |
| J. S. Ranson | M.R.C.S., L.R.C.P., D.P.H. | M.O.H., T.O., S.M.I., C.W.O. |
| S. R. Richardson | B.A., M.D., D.P.H | M.O.H., T.O., S.M.I., C.W.O. |

Medical Officers of Health undertaking some duties part-time for the County Council.

| Name. | Qualifications. | District. |
|--------------------|-------------------|-------------|
| W. F. Corfield | M.D., D.P.H | Colchester. |
| C. E. E. Herington | M.B., B.S., D.P.H | Dagenham. |
| J. B. Samson | M.D., D.P.H | Romford. |

Whole-time Assistant County Medical Officers.

| Name. | Qualifications. | Duties. |
|----------------------|----------------------------------|--------------------------------|
| Kathleen M. Bodkin | M.R.C.S., L.R.C.P., D.P.H | . S.M.I. and C.W.O. |
| F. G. Brown | B.A., M.B., B.Ch., B.A.O., D.P.H | . T.O. (including M.O., Harold |
| | | Court Sanatorium). |
| Marjorie L. Campbell | B.A., M.B., B.Ch., B.A.O., D.P.H | I. S.M.I. and C.W.O. |
| J. G. Currid | M.A., M.B., Ch.B., D.P.H | . T.O. |
| Rachel A. Elliott | M.D., D.P.H | . S.M.I. and C.W.O. |
| E. L. Ewan | M.B., Ch.B., D.P.H | . S.M.I. |
| V. Feldman | M.D., M.R.C.S., M.R.C.P., D.P.H | I. S.M.I. and C.W.O. |
| A. R. Forbes | | . S.M.I. |
| A. R. Graham | M.B., Ch.B., D.P.H | . S.M.I. and C.W.O. |
| J. Graham | | . S.M.I. |
| R. D. Gray | M.B., Ch.B | , S.M.I |
| Esther P. Jones | M.R.C.S., L.R.C.P | . S.M.I. and C.W.O. |
| Greta Lowe | M.B., Ch.B., D.T M. & H | . S.M.I. and C.W.O. |
| T. L. Ormerod | M.A., M.B., B.Ch | . T.O. |
| Eleanor Patterson | M.B., B.S., B.Hy., D.P.H | . S.M.I. and C.W.O. |
| H. Ramsay | M.B., B.S., M.R.C.S., L.R.C.P | |
| Mary D. Rankine | M.B., Ch.B., D.P.H., M.M.S.A. | S.M.I. and C.W.O. |
| J. E. Stokes | M.A., M.D., D.P.H | . T.O. |
| Mary Sutcliffe | M.A., M.R.C.S., L.R.C.P., B.Ch | ., S.M.I. and C.W.O. |
| | D.P.H. | |

Medical Practitioners performing duties for County Council (part-time), S.M.I., C.W.O. or V.D.

G. O. Barber, I. M. Bell, L. M. Billingham, W. N. Booth, C. R. Dykes, W. F. Erskine, Mary E. Fox, H. J. Garland, Sybil D. Goodwill, Gwenedd Hugh-Jones, Alice Mackenzie, Lily Mackinnon, J. G. Madden, J. T. Moffat, F. A. M. Nelson, Evelyn Pirrie, Jemima B. Ratcliffe, G. F. Rees Jones, P. T. Spencer Phillips, Margaret Turner, H. A. Watney, C. A. Weller, J. T. Whitley.

Matrons of County Sanatoria and Hospitals.

| M. Ruck, R.R.C. | | | Black Notley Sanatorium. |
|-----------------|------|------|----------------------------|
| S. B. Loosley | | | Harold Court Sanatorium. |
| A. Roberts | | | High Beech Sanatorium. |
| E. M. McArthur | | | Oldehurch County Hospital. |
| E. Ward | | | Brookfield Orthopaedic |
| | | | Hospital. |

Technical Staff.

County Health Inspector-

A. Marsh, F.R. San. I. and Cert. Insp. of Meat and other Foods.

Assistant County Health Inspectors-

R. H. Wigmore, M.S.I.A. and Cert. Insp. of Meat and other Foods.

L. Y. Whittingham, A.R. San. I. and Cert. Insp. of Meat and other Foods.

Orthopaedic Masseuses.

County Orthopaedic Masseuse-

M. Scott, Teachers Dip., Ed. Gym., R.S.I., C.S.M.M.G., M.E.

District Orthopaedic Masseuses-

M. Haydon, C.S.M.M.G. and M.E. M. E. Wells, C.S.M.M.G. and M.E.

Part-time Orthopaedic Masseuses-

D. Parsons, C.S.M.M.G. (By arrangement with B.R.C.S.). D. Dawson, C.S.M.M.G., M.E., L.E.T.

Health Visitors, School and Tuberculosis Nurses.

Chief Health Nurse-

D. M. Landon, S.R.N., S.C.M., Cert. R.S.I. (Also County Superintendent, Essex County Nursing Association).

Assistant Chief Health Nurses-

E. A. Davieson, S.R.N., S.C.N., Cert. R.S.I. C. G. Teale, S.R.N., S.C.M., Cert. R.S.I.

Relief Health Visitor-

G. M. White, S.R.N., S.C.M., Cert. R.S.I,

(Also Asst. County Superintendents, Essex County Nursing Association).

Health Visitors, &c.-continued.

(a) Whole-Time County Council.

| | | | | | | | Dutie | s unde | rtaken. |
|-----|------------------|-----|-------------------|--------------------|-------------|-----|-------|--------|----------|
| | Centre. | | Name. | Qualificatio | ns. | | T.B. | S.N. | C.W. |
| | Saffron Walden | | Woodman, E. M | S.R.N., S.C.M. | | | Yes | Yes | Yes |
| | Halstead | | Starr, G. M | S.R.N., S.C.M., C | ert. R.S.I. | | | ,, | |
| | | | Jossaume, J | S.R.N., S.C.M., C | ert. R.S.I. | | | ,, | ,, |
| | Lexden & Winstr | ee | | S.R.N., S.C.M. | | | | ,, | ,, |
| | | | Jackson, M. J | S.R.N., S.C.M. | | | | | |
| | Tendring | | Steele, R. M | S.R.N., S.C.M. | | | | | 37 |
| | ,, | | Wallace, A. C. G. | S.R.N., S.C.M., C | | | | ,, | |
| | ,, | | Croll, M | S.R.N., S.C.M., C | ert. R.S.I. | | | ,, | ,, |
| | Saffron Walden | | Chittenden, A. E. | | | | | | |
| | Dunmow | | | S.R.N., S.C.M., C | | | | ,, | |
| | ,, | | | S.R.N., S.C.M., C | | | | ,, | |
| | Braintree | | Dickson, M. W | | | | | | |
| | ,, | | Humfress, J. K | | | | | ,, | |
| | | | | S.R.N., S.C.M., C | | | | ,, | ,, |
| | Epping | | | S.R.N., S.C.M., C | | | | | ** |
| | | | | S.R.N., S.C.M., C | | | | | ,, |
| | Ongar | | | S.R.N., S.C.M., C | | | | | 59 |
| | Chelmsford | | | S.R.N., S.C.M., C | | | | ,, | |
| | ., | | | S.R.N., S.C.M., C. | | | | | |
| | | | | S.R.N., S.C.M., C. | | | | ., | " |
| | Maldon | | | S.R.N., S.C.M., C. | | | | ., | " |
| | | | | S.R.N., S.C.M., C. | | | | ,, | |
| | | | | S.R.N., S.C.M., C. | | | | | " |
| | Chingford | | | King's College Cer | | | | | 22 22 |
| | | | | Ed. Cert. | | | | | " |
| | ,, | | Turner, V. M. | S.R.N., S.C.M., C. | ert. R.S.I. | | | ,, | ,, |
| | | | | S.R.N., S.C.M., C. | | | | ,, | ., |
| | Waltham Abbey | | | S.R.N., S.C.M., C. | | | | | ,, |
| | Woodford | | Waterhouse, K | | | | | | No |
| | Buckhurst Hill | | | S.R.N., S.C.M., R | | | | ,, | Yes |
| | Romford | | | C T 37 | | | | ,, | No |
| | | | Champion, G. F | | | | | ,, | Yes |
| | Hornehurch | | Threadkell, H | | | | | ,, | ,,, |
| | ,, | | | S.R.N., S.C.M., Co | | | | | ,, |
| | | | Robinson, V. M | | | | | | 33 |
| | ** | | | S.R.N., S.C.M., Co | | | | ,, | |
| | Brentwood | | | S.R.N., S.C.M., Co | | | | | ,, |
| | | | | S.R.N., S.C.M., Co | | | | | ** |
| | Billericay | | | S.R.N., S.C.M., Co | | | | | |
| | ,, | | Shepherd, M. A | | | | | | |
| | | | Trillwood, E. K | | | | | | ** |
| | Orsett | | | O D M | | | ,, | ,, | No |
| | Rochford | | | S.R.N., S.C.M. | | | | | Yes |
| | Benfleet | | Richardson, P. M. | | | | | | ,, |
| | Rayleigh | | | S.R.N., S.C.M. | | | | ,, | |
| | Canvey Island | | | S.R.N., S.C.M., Co | | | | ,, | |
| | | | - | | | | | | |
| (b) | Whole-time Tuber | cul | osis Nurses. | | | | | | |
| | Barking | | | | | • • | Yes | No. | No |
| | " | | Westcott, H. M | S.R.N | | | 12 | ,, | |

| Darking | Bansom, n. | O.D.N. | | * * | res | NO. | 140 |
|----------|---------------------|----------------|---------------------|-----|-----|-----|-----|
| ,, | Westcott, H. M. | S.R.N. | | • • | ,, | ,, | |
| Dagenham | Richards, E. F. | Board of E | ducation (1923) Cer | rt. | | ,, | |
| | | S.C.M. | | | | | |

Health Visitors, &c.-continued.

(b) Whole-time Tuberculosis Nurses-continued.

| | | | | D | uties | under | taken. |
|-----------------------|------------------|-----|----------------------------|-------|-------|-------|--------|
| Centre. | Name. | | Qualifications. | Т | .B. S | .N. | C.W. |
| Dagenham | Alder, B. | | S.R.N., S.C.M | | Yes | No | No |
| Ilford | Stewart, D. B. | | S.R.N., S.C.M | | ,, | ,, | ,, |
| ,, | Bowman, T. E. | | S.C.M. & Nursing Cert. | | ,, | ,, | ,, |
| Leyton | Griffin, M. W. | | Board of Education (1923) | Cert. | ,, | ,, | ,, |
| and the second second | | | S.C.M., R.S.I. | | | | |
| ,, | Lamborn, E. S. | ••• | S.R.N., S.C.M., R.S.I. | | | ,, | ,, |
| " | Cunningham J. | | S.R.N., S.C.M | | ,, | , | ,. |
| Romford | Purves, D. | | Sanatorium Training | | ,, | ., | |
| " | Krogman, L. M. | • • | S.R.N., S.C.M | | ,, | ,, | " |
| Walthamstow | Brightman, A. C. | | Children's Cert | | ,, | ,, | ,, |
| ,, | Ames, A. | • • | S.R.N., S.C.M | | | ,, | ,, |
| ., | Ellis, S. | | S.R.N., Tuberculosis Cert. | | 33 | | ,, |

(c) Whole-time School Nurses.

| Dagenham | Lunn, E. L. | S.R.N | No | Yes | No |
|----------|------------------------|--------------------------|--------|-----|----|
| ,, | Thurtle, E. | S.R.N., S.C.M | ,, | ,, | ,, |
| ., | Murphy, E. M. | S.R.N., S.C.M | ,, | ,, | ,, |
| " | Jewell, J. M. | S.R.N., S.C.M | ,, | ,, | ,, |
| ,, | Jefferson, G. L. | S.R.N | ,, | ,, | ,, |
| ,, | Jewell, I. M. | S.R.N., Children's Cert. | ,, | ,, | ,, |
| " | Brimblecombe, A. C. | S.R.N., S.C.M | ••• ,, | ,, | ,, |
| | Charles, J. | S.R.N., S.C.M | ,, | ,, | ,, |
| Romford | Morgan, E. J. | S.R.N., S.C.M | ,, | ,, | ,, |
| " . | Harwood, N. C. | S.R.N., Home Nursing Cer | t ,, | " | " |

(d) Whole-time, but only giving part-time to County Council.

| Thurrock | Allcorn, R. E H.V.'s Diploma, 1920 | Yes | Yes | No |
|------------|--|---------|-----|----|
| ,, | Gibson, I H.V.'s Diploma | ,, | ,, | ,, |
| " | Polley, A S.R.N., S.C.M | ,, | ,, | ,, |
| ,, | Miller, E. C. P S.R.N., S.C.M., Cert. R.S.I. | ,, | ,, | ,, |
| ,, | Chandler, E. M S.R.N., S.C.M., Cert. R.S.I. | ,, | ,, | ,, |
| ,, | Marshall, E. M S.R.N., S.C.M | ,, | ,, | ,, |
| " | Darrell, E S.R.N., S.C.M., H.V. Cert. | ,, | ,, | ,, |
| ,, | King, E. M S.R.N., S.C.M., Cert. R.S.I. | ,, | ,, | 35 |
| Wanstead | Clarke, H S.R.N., S.C.M., Cert. R.S.I. | ,, | ,,, | ,, |
| Colchester | Rickard, M. E S.R.N., S.C.M., Cert. R.S.I. | ., | No | |

(e) Probationer Health Visitor.

(f)

| | Hornchurch | | Hay, E. J. | | S.R.N., S.C.M | | Yes | Yes | Yes | |
|---|-------------------|-----|----------------|-----|---------------------------------------|----------|-----|-----|-----|--|
| 0 | Council Midwives. | | | | | | | | | |
| ' | Billericay | | Price, M. E. | | S.C.M., First Aid Cert. | | | | Yes | |
| | ,, | | Calcott, K. | | S.C.M | | | | | |
| | Braintree | ••• | Fenwick, A. H. | ••• | S.C.M., Home Nursing an Aid Certs. | nd First | - | - | " | |
| | Chigwell | | Bartter, R. S. | | S.C.M. and R.S.I. | | _ | - | ,, | |
| | ,, | | Quill, G. H. | | S.C.M | | _ | | | |
| | " | | Jones, G. D. | | S.R.N., S.C.M | | - | - | ,, | |

Health Visitors, &c .- continued.

(f) Council Midwives-continued.

| | | | Duties under | rtaken. |
|---------------|-----------------|--|-------------------|---------|
| Centre, | Name. | Qualifications. | T.B. S.N. | C.W. |
| Chingford | Stenning, P. M. | S.C.M., Home Nursing First Aid Certs. | and — | Yes |
| Hornchurch | Child, E. F. | S.R.N., S.C.M | | ,, |
| 19 | Gayne, S. E. | S.C.M., Home Nursing First Aid Certs. | and — — | ,, |
| " | Healey, S. | S.C.M., Surgical and Med | dical — — M.B. | " |
| | Fisher, G. | S.C.M., Home Nursing First Aid Certs. | and — — | " |
| " | Willis, W. B. | S.C.M., Mental Nursing Cer | rt. — — | ,, |
| ,, | Barrett, D. | S.R.N., S.C.M | | |
| Emergency Mid | wives | | | " |
| | Ward, D. | S.C.M | | ,, |
| | Finch, E. K. | S.C.M., Home Nursing First Aid Certs. | and — — | " |
| | Wilson, G. | S.C.M., First Aid Cert. | | ,, |

Dental Staff.

(a) Senior Dental Surgeon. (Whole-time).

| Name. | Qualifications. | District. | |
|------------------|------------------|---------------------|-----|
| Donaldson, S. K. | L.D.S., R.F.P.S. | Chelmsford, Maldon, | kc. |

(b) District Dental Surgeons. (Whole-time).

| Roberts, A. S. | L.D.S., R.C.S. | Dagenham. |
|--------------------|------------------|-----------------------------------|
| Hendry, A. W. | L.D.S., R.C.S. | Lexden & Winstree and Tendring. |
| Davis, D. T. | L.D.S., R.C.S. | Hornehurch. |
| James, N. A. | L.D.S., R.C.S. | Braintree and Saffron Walden, &c. |
| Hurley, D. W. | L.D.S., R.F.P.S. | Thurrock. |
| O'Callaghan, J. | . L.D.S., R.C.S. | Dagenham. |
| Chase, R | L.D.S., R.C.S. | Woodford & Chingford. |
| Connelly, B. | L.D.S., R.C.S. | Romford. |
| Edgar, J | L.D.S., F.R.P.S. | Braintree, &c. |
| Maxwell, R. | L.D.S., R.C.S. | Dagenham. |
| Oldale, A. G. | L.D.S., R.C.S. | Thurrock, &c. |
| Smart, J | L.D.S., R.C.S. | Epping, &c. |
| Wilson, H. B. | L.D.S., R.F.P.S. | Romford. |
| Wilson, Miss J. M. | L.D.S., R.C.S. | Romford & Dagenham. |

(c) Dental Practitioner performing part-time duties for the County Council.

Lewis, D. F.

(d) Whole-time Dental Attendants.

Carter, E. D., Devine, P., Stratford, M. R., Dallison, R., Wittich, D., Martin, V. L. M., Luck, L. A., Lloyd, E. L., Gall, E. E., Jones, E., Nichols, L. M., Polley, L., Wills, M., Bowman, M. H., Makings, F.

Clerical Staff.

- (a) Clerical Assistant ...
- (b) Departmental Clerks

. .

(c) Class I. Clerks

.. P. T. Burdon. P. H. Moth. J. W. Hurst.

H. J. Allsupp.

S. G. Clarke.

(d) Central Office.

Male Clerks.

S. R. Shilton.
A. C. Guymer.
R. H. Dennison.
R. Porter.
E. Rich.
M. W. Stock.
R. W. Pye.
R. C. Harris.
T. R. Hicks.
L. Saich.
J. T. Hitching.
R. Haywood.
L. A. E. Osbon.
G. L. Tomkins.

(e) Dispensary Clerks.

Male.

A. E. Thornton, L. M. E. Lamb. Female Clerks.

N. M. Chaplin, I. M. Thomas. Q. Nice.

Shorthand-Typists.

E. H. Scott.
P. C. Dewbury.
J. M. Wells.
M. J. Gosling.
L. Brown.
K. Bloxham.
G. J. England.
D. W. Last.
F. Speer.
N. Crozier.
E. J. Runcorn.

Shorthand-Typists.

M. Bamberry. R. Carrington. P. E. Cork. D. Goodwin.

L. Hey.

..

....

PART I.

ACREAGE AND POPULATION.

The area of the Administrative County as revised under Section 46 of the Local Government Act, 1929, is shown in the following table, which also sets out particulars of the Registrar-General's estimated population for the year 1937, compared with the census figures of 1931. The table gives as in previous years, the number of persons per acre, number of inhabited houses, number of families or separate occupiers, etc., and the rateable value :—

| | R | EVISED A | ulation. | No. of Persons per | No. of Acres per | No. of in- habited | No. of families or | Registrar-General's Estimate, Normal Population, 1937. | Rate |
|----------------------------|---------------------------|-----------------|-----------------|---------------------------------|-------------------------|-----------------------------|---|--|----------------------------------|
| | Acres. Census 1931. | Census 1921. | Census 1931. | acre, (Calcu on 1 Cens | person. lated 931 | houses (Census 1931). | separate Occu- piers (Census 1931). | Population. | value, 1st April, 1937. |
| Municipal Boroughs (11) | 63,028 | 528,344 | 627,691 | 9.96 | 0.10 | 139,077 | 162,208 | 705,716 | |
| Urban Districts (21) | 193,954 | 213,925 | 376,634 | 1.94 | 0.51 | 89,498 | 92,917 | 478,284 | £9,448,281 . |
| Rural Districts (12) | 702,482 | 170,246 | 184,679 | 0.26 | 8.80 | 49,898 | 50,425 | 193,700 | 63 |
| | 959,464 | 912,515 | 1,189,004 | 1.2 | 0.80 | 278,473 | 305,550 | 1,877,700 | |

The product of a 1d. rate is estimated at £37,138.

SOCIAL CONDITIONS.

With its estimated population of 1,377,700, Essex is now one of the largest administrative counties in England and Wales. As a result of its proximity to London the southern half of the county is largely residential and industrial, but the northern half is mainly agricultural. The chief industries are engineering (electrical, wireless and agricultural), beet sugar, cement and brickmaking, breweries, asbestos, boot and shoemaking and the manufacture of artificial silk and motor cars.

Essex has not been affected to any great extent by unemployment, in fact, during 1937 there has been an improvement in those parts of the county where unemployment existed.

VITAL STATISTICS.

The total number of births, still-births, deaths at all ages, etc., is set out in Table XXV, in Part V of the Report. The chief vital statistics of the Administrative County compared with those for England and Wales during 1937, are set out below :—

| a hadre. The deads save per 1,000 of 1 | Ess | ex. | England and Wales. | | | |
|--|------------|-------|--------------------|-----------|--|--|
| | 1933-1937. | 1937. | 1983-1937. | 1937. | | |
| Birth-rate per 1,000 population | 14.4 | 14.5 | 14.7 | 14.9 | | |
| Death-rate ,, ,, | 9.9 | 10.1 | 12.1 | 12.4 | | |
| nfant mortality rate per 1,000 births | 47 | 46 | 59 | 58 | | |
| still-births, rate per 1,000 total live and still-births | 35 | 34 | 40* | Not avail | | |

*Period 1933-1936.

NOTIFICATION OF INFECTIOUS DISEASES.

A summary of the notification of infectious diseases in the various Sanitary Districts during 1937 is set out in Table XXVII. on page 121. The table shows that 7,889 persons were notified to be suffering from infectious disease, compared with 8,083 in 1936. This reduction is due to the continued decrease in the number of cases of diphtheria and scarlet fever.

SCARLET FEVER. The number of cases notified was 3,302 in 1937, as against 3,521 in 1936, the number of deaths being 6 and 15 respectively for these two years.

DIPHTHERIA. There was a further decrease to 1,258 cases, as compared with 1,421 in 1936. The deaths again show a decline, the number being 60, as compared with 73 in 1936.

ENTERIC FEVER. One hundred and forty-five cases were notified during the year whereas the number recorded during 1936 was 72. The deaths, however, remained the same as in 1936, namely, 10. This increase was chiefly confined to the seven Local Sanitary areas in the extra-metropolitan district, where 110 cases were notified.

SMALL Pox. No case of Small Pox occurred during 1937.

CANCER.

Facilities for investigation and operative treatment of Cancer continue to be available at the Oldchurch County Hospital at Romford, as also are the services of the Specialist there, Dr. Arthur Burrows, in connection with radio therapy and treatment by radium emanation. No special cancer clinics or tumour clinics have been established in the area. In view of this and the fact that no organised services are provided in the County by Regional Radium Centres or Voluntary Hospitals, the tendency is to refer cancer patients either to the Oldchurch County Hospital or to Radium Centres in London.

At the time of writing, the possibilities of establishing a radium and deep X-Ray therapy unit at the Oldchurch County Hospital to serve the whole of the County are being explored in conjunction with officers of the Ministry of Health.

During the year 1937, 404 patients suffering from various forms of cancer were admitted to hospitals and institutions belonging to the County Council. Table I on page 18a gives an analysis of these cases. The number of deaths occurring in the County from cancer and malignant disease, during the year 1937 is shown in the table below. The death rate per 1,000 of the population increased from 1.44 in 1936 to 1.49 in the year under review :—

| | | Age Period. | | | | | | | | | | |
|--------------------------------------|----|-------------|----|----|-----|-----|-----|-----|-----|-----|-----|--------|
| | 0— | 1— | 2— | 5— | 15— | 25— | 35— | 45— | 55— | 65— | 75— | Total. |
| Boroughs and Urban Districts | 1 | - | 3 | 5 | 7 | 19 | 97 | 255 | 446 | 527 | 320 | 1680 |
| Rural Districts | - | - | 1 | 1 | | 2 | 17 | 37 | 85 | 127 | 106 | 376 |
| Total for Administra- tive County | 1 | - | 4 | 6 | 7 | 21 | 114 | 292 | 531 | 654 | 426 | 2056 |

VENEREAL DISEASE.

The County Council continues to participate in the London & Home Counties Scheme whereby Essex patients attend for advice and treatment at many of the larger London Hospitals. Clinics are also available at the following :---

> Chelmsford & Essex Hospital. Essex County Hospital, Colchester. East Suffolk & Ipswich Hospital. Borough Sanatorium, Southend. Ad hoc Clinic, Gravesend. Prince of Wales Hospital, Tottenham.

Travelling Facilities for Patients.

During the financial year ended 31st March, 1938, fares of necessitous patients too and from the nearest Clinics were paid by the County Council at a cost of £249 5s. 6d.

Incidence.

Table II on page 19 shows the attendance of Essex patients at the various Clinics, from which it will be seen that the total attendances decreased from 67,092 to 63,786, while the number of bed days increased from 3,155 to 3,785, and the total number of Essex patients treated for the first time increased from 1,532 to 1,591.

V.D. Medical Officer.

On 1st October, 1937, Lieut.-Col. J. M. Elliott, M.B., commenced duty as a wholetime V.D. Medical Officer for the Administrative County of Essex, this new appointment having been approved by the Council in 1937.

Oldchurch V.D. Clinic.

Owing to the rearmament programme and the resulting shortage of steel, work was held up on the construction of the new Clinic at the Oldchurch County Hospital. Romford, and the hope that it would be open by the end of 1937 was not realised. It is expected that the Clinic will be ready by September, 1938.

TABLE I.

STATEMENT OF CANCER PATIENTS FOR 1937.

| pre mei pro wel Te | | | Patients as previous ad ment at an providing well as op m | I. dmitted after lvice or treat- other hospital radiation as erative treat- ent. aber 137 :— | Patients a ment at a | dmitted after nother hospits not radiatio Total Nur | III. Patients admitted without previous advice or treatment at another Hos- pital. Total Number 216 :— | | | | |
|--------------------------------|------|----------------|--|---|--|--|--|--|--|---|--|
| Sites. | | (a) Numbers | (b) Numbers | Treated at (a) | that Hospital. (b) Numbers referred | | ted at that spital. (b) Numbers referred | (a) | Numbers advice ar | (b) referred for id/or treat- to : | |
| | | | treated at that Hospital. | not treated at that Hospital. (2) | Numbers retained in Council's Hospital. | for advice and/or treatment to a Hospital providing radiation treatment.* | Numbers retained in Council's Hospital. | for advice and/or treatment to a Hospital providing radiation treatment.* | Numbers retained in Council's Hospital. | (i) Hospital providing operative treatment. | (ii) Hospital providing radiation as well as operative treatment.* |
| | | | (-) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Uterus | | | 12 | - | 2 | - | 4 | _ | 24 | | |
| Tongue and M | outh | | 15 | _ | - | _ | | | 8 | _ | - |
| Breast | | | 20 | _ | 6 | _ | 7 | | | - | _ |
| Lip | | | _ | _ | | | | - | 26 | - | - |
| Skin | | | _ | | | | | - | 1 | 1 | - |
| Larynx | | | 2 | | _ | - | - | - | 6 | 1 | - |
| Bladder | | | | 2 | _ | | - | - | 9 | 1 | _ |
| Rectum | ••• | | 17 | - | - | - | 6 | - | 11 | - | _ |
| | | | 18 | | 1 . | - | 2 | - | 14 | - | _ |
| Other sites | | | 49 | 2 | 12 | 4 . | 9 | - | 112 | - | 2 |
| Total | | | 133 | 4 | 21 | 4 | 28 | | 211 | 3 | 2 |

*Those cases in which the radio-therapist gave advice or treatment within the Council's hospitals are included in the (b) columns of II. and III., but are excluded from the (a) columns. 18a

TANLE II

In-patient days. Hostels. 1,117 1,466 1,419 1,419 1,307 2,173 2,416 2,412 2,412 1 1 1 In-patient 3,155 2,750 2,663 3,491 2,288 2,288 2,288 Days. 3.785 17 187 3,581 ۱ Į 1 1 Total No. of Atten-dances of Essex Patients. 54,974 616 67,092 76,307 72,442 63,368 53,444 53,444 53,444 4,042 895 63,786 20 167 1,151 1,871 ESSEX PATIENTS Total. 1,216 1,532 1,585 1,585 1,639 1,710 1,639 1,455 46 78 47 11 131 11 ,591 51 Total Number treated for first time suffering from 643 810 821 769 644 613 659 564 V.D. 4 15 69 4 33 21 21 Gonorr-hœa. 40 18 36 18 463 5 17 540 612 731 774 693 580 4 109 Soft Chancre. 5 9 1 1 -1 Ì Syphilis. 105 19 174 157 181 245 303 281 07 32 3 -6 5 Total No. treated for first time. Patients from all Areas. 30,719 31,116 29,935 996 139 223 245 260 30,727 25,825 51 504 28,213 28,447 : : : : --: : ... : : : : : : : -:: St. Bartholomew's, London... ÷ : -: : : : Treatment Centre. Total for 1936... 1935... 1934... 1933... 1932... 1932... : : ----: -London Hospitals Total for 1937 • Chelmsford Tottenham Colchester Gravesend Southend Ipswich

:

TREATMENT OF VENEREAL DISEASE, YEAR 1937.

19

Medical Officers' Sessions.

(a) Pending the opening of the Oldchurch V.D. Clinic, a modified session was commenced in January, 1938, in the Out-Patients' Department of the Oldchurch County Hospital, and the number of cases already attending shows once again the necessity for a V.D. Clinic in this densely populated and growing area.

(b) In February, 1938, with the approval of the Chelmsford & Essex Hospital, an evening session conducted by the County V.D. Officer, was started in connection with the V.D. Clinic which is held at the hospital.

(c) Arrangements have been made whereby mothers and children can be referred from one of the Maternity and Child Welfare Centres to a special clinic associated with the Hornchurch Treatment Centre without having to attend the V.D. Clinic.

Propaganda.

(a) LECTURES. On 31st January, 1938, a lecture on Venereal Diseases was given by Dr. Drummond Shiels, of the British Social Hygiene Council at a mass meeting held in the Shire Hall, Chelmsford, and was attended by a mixed audience of over 400, the hall being filled to capacity. After the lecture a cinema film was shown.

A similar lecture was given by the County V.D. Officer in the Town Hall, Colchester, on 28th March, 1938, to an audience of over 500. At both meetings the Chair was taken by Alderman C. W. Daines, J.P., Chairman of the Sanitary and Health Sub-Committee, and from the number of questions asked after each lecture there appeared to be an awakening of interest in the public mind with regard to this social problem.

Addresses were also given at the Health Exhibition in Romford, at the annual meeting of the Federation of Essex Women's Institutes, in Chelmsford and at the annual meeting of the Essex Branch of the Women Public Health Officers' Association at Epping.

(b) POSTERS. In addition to the notices displayed in the lavatories of all stations on the L. & N.E. Railway, 200 notices of a newer and more legible type have been purchased and are being distributed to Medical Officers of Health for posting in public lavatories, and in certain factories with the approval of the Management and Works Committees concerned.

VACCINATION.

During the year ended 31st December, 1936 (the latest period for which complete information is available), the Vaccination Officers' returns summarised in Table III show that 17,499 births were registered. Of these, 5,683 were successfully vaccinated, and in 9,343 instances a statutory declaration of conscientious objection was made. Of the remaining 2,473 births, 637 removed to places unknown; 437 removed to districts of other Vaccination Officers who were duly notified; in 147 cases vaccination was postponed by medical certificate; 61 proved insusceptible of vaccination, and 644 died un-vaccinated. At the end of the year 547 births remained which had not been entered in the vaccination register or temporarily accounted for in the report book.

With regard to the number of persons successfully vaccinated and re-vaccinated at the cost of the rates by Public Vaccinators and Medical Officers of Poor Law InstiTABLE III.

| | | | | 5 | 21 | | | | | | | |
|---|---|---|------|-----------|------------|------------|--------|----------------|----------|---------------|---------------|--------|
| No. of | Statutory Declarations of Conscien- tious objection | received by V. O. during 1937. | (13) | 249 | 976 | 1,164 | 242 | 166 | 3,507 | 1,044 | 2,054 | 9,402 |
| No. of Certificates of | Primary Vaccination of Children | under 14 received during 1937. | (12) | 282 | 766 | 777 | 272 | 270 | 2,844 | 490 | 1,511 | 7,212 |
| No. of these Births | remaining 31.1.38 neither entered in the "Vaccination | Register " nor temporarily accounted for in " Report Book." | (11) | 1 | 65 | 24 | 1 | 3 | 295 | 105 | 54 | 547 |
| 31.1.38 the " Vac- ount of : | Removal | to places unknown and cases not found. | (10) | 9 | 49 | 53 | 18 | 8 | 286 | 55 | 162 | 637 |
| No. of Births which on 31.1.38 remained unentered in the " Vac- cination Register " on account of : | Removal to Districts the | Vaccination Officer of which have been apprised. | (6) | 6 | 42 | 35 | 19 | 4 | 165 | 101 | 62 | 437 |
| No. of Bi remained cination Reg | Postpone- | ment by medical certifi- cate. | (8) | 1 | 8 | 9 | 5 | 7 | 65 | 13 | 42 | 147 |
| 38 in lation | Col. V. | Died un- vacci- nated. | (7) | 19 | 45 | 75 | 16 | 11 | 269 | 78 | 131 | 644 |
| No. of these Births entered by 31.1.38 in Cols. I, II, IV and V of the "Vaccination Register" (Birth List Sheets), viz. : | Col. IV. | No. of Statu- tory Decla- rations. | (9) | 412 | 960 | 1,045 | 227 | 159 | 3,384 | 1,083 | 2,073 | 9,343 |
| ths entered ad V of th th List Sl | Col. II. | Had Small- pox. | (2) | I | 1 | I | 1 | 1 | 1 | 1 | I | 1 |
| these Bir II, IV an ster " (Bir | Col | Insus- ceptible of vacci- nation. | (4) | 00 | 14 | 7 | 22 | 4 | 1 | r0 | 11 | 61 |
| No. of Cols. I Regi | Col. I. | fully vacci- nated. | (3) | 217 | 674 | -229 | 254 | 245 | 2,087 | 482 | 1,047 | 5,683 |
| No. of Births | No. of Births in "Birth List Sheets " registered 1st Jau. to 31st Dec., 1936. | | | 672 | 1,857 | 1,922 | 545 | 411 | 6,558 | 1,922 | 3,582 | 17,499 |
| | Guardians | Areas. | (1) | Braintree | Chelmsford | Colchester | Epping | Saffron Walden | Southern | South Eastern | South Western | |

The Totals of the figures in columns 3 to 11 agree with the figure in Column 2.

tutions, the Clerk of the County Council has kindly forwarded to me the following information in respect to the year ended 30th September, 1937 :---

Numbers of successful Primary Vaccinations of persons :---

| (a) Under 1 year of age | | | 4,840 |
|---------------------------------|-------------|------|-------|
| (b) 1 year and upwards | •• | | 544 |
| (c) Total | | | 5,384 |
| Number of successful re-vaccina | | | |
| ful vaccinations of persons | | | 0.55 |
| successfully vaccinated at son | ie previous | time | 255 |

ISOLATION HOSPITALS.

Table IV on page 22a shows the number of beds provided on the basis of 2,000 cubic feet per bed, the number of patients treated, and the cost per patient per week at each of the fifteen Isolation Hospitals which receive grants from the Essex County Council. Such grants are at the rate of £5 per annum per bed provided out of loan, plus £10 per annum in respect to each ambulance maintained by a Hospital in an efficient condition. In addition, grants at the rate of £2 10s. 0d. per bed, per annum, provided out of revenue were paid in respect to the hospitals at Colchester (40 beds), Dunmow (4 beds), Halstead (4 beds), and Orsett (48 beds).

There was again a decrease in the number of patients treated in hospital, the figure falling from 4,505 in 1935-36 to 4,430 in 1936-37. Consequently, the average cost per patient increased from £29 3s. 3d. in 1935-36 to £31 15s. 10d.

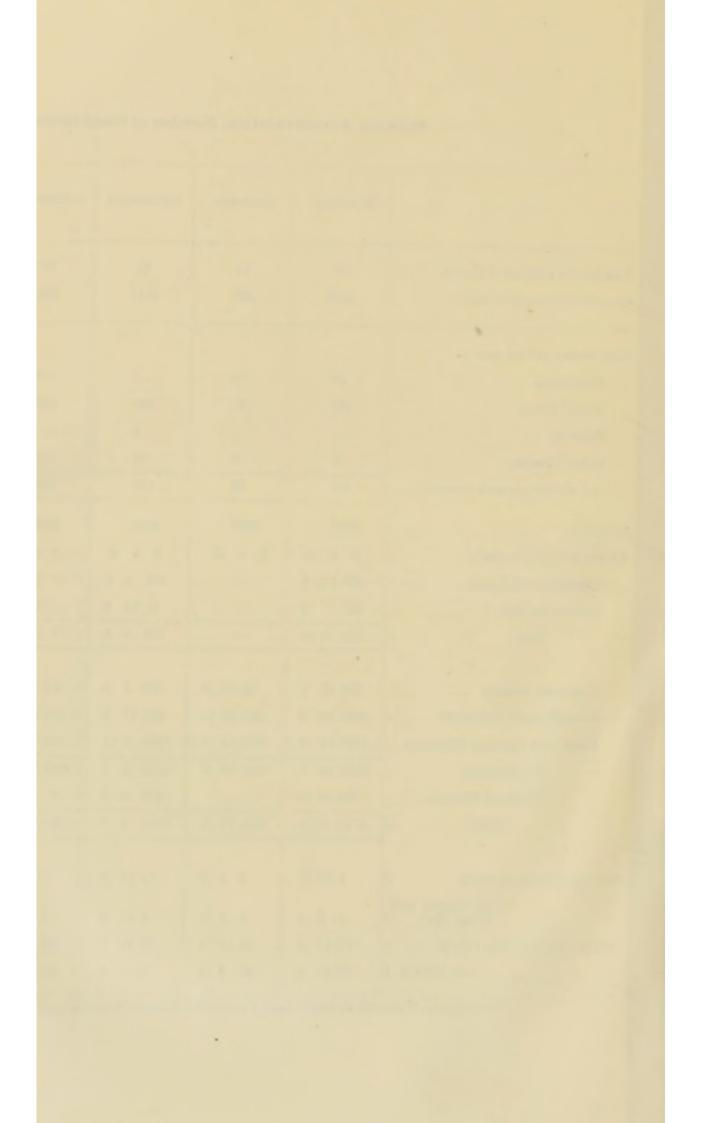
As stated in the Report for 1935, the County Council's Scheme under Section 63 of the Local Government Act, 1929, approved by the Minister of Health in June, 1935, provided for reducing the number of Hospital Authorities and Joint Hospital Boards from twenty to ten, so far as infectious diseases other than Smallpox were concerned. In eight out of the ten areas, provision has been or is being made in accordance with the Scheme. In the remaining two areas, Nos. 3 and 4, effect has not yet been given to the Scheme.

The general position in regard to Area No. 3 (Braintree, etc.) is under consideration. In respect to Area No. 4 (Chelmsford and Maldon), the Ministry of Health held a Public Inquiry on 15th July, 1937, and decided to accede to the application for a Provisional Order to revoke the Maldon Joint Hospital Order, 1901, and amend the Chelmsford Joint Hospital Order, 1902. A High Court action thereon is pending.

Under the Scheme the Essex County Council is now an authority for providin accommodation for the treatment of cases of Smallpox occurring in the Administrativ County, exclusive of the Borough of Colchester. By an agreement between the Esser County Council and the Corporation of Colchester, a Smallpox Hospital with 24 bee has been provided, adjacent to the Isolation Hospital situated in Mill Road, Mile Ener Colchester.

The Essex County Council also had an informal agreement with the Londo County Council under which the latter would receive Essex patients into their small pox hospital so long as sufficient accommodation was available.

| | 1 | | Number of Ca | | 1 | for the Yea | r ended 31a | t March, 19 | 37. | Grants for | Beds provi | ded out of | Loan were r | ecommended | | |
|--|------------------------|-----------------------------------|---------------------|-------------------|----------------------|----------------|--|-----------------------|--------------------|-------------------|--------------------------|---------------------|------------------------|----------------------|-----------------------|----------|
| | Billericay, | Braintree. | Chelmsford, | Ciacton, | Colohester. | Dunmow. | | 1 | 1 | | 1 . | 1 | | 1 | 1 | |
| Number for purpose of Grant | 30 | 14 | | | | | _ | | _ | | - Atomioru | . Saffron Walden | Thurrock | k. Walthamste | w. Waltha Joint. | |
| Grant from County Council | #170 | £80 | 21 £115 | 17 £85 | 58 £300 | 8 450 | 16 #90 | 150 £760 | 10 £60 | 12 | 141 £725 | 16 | -14 | 81 | 80 | |
| Cases treated during year : | | | | | | | | | | | £120 | £90 | £270 | £425 | 1.420 | £371 |
| Diphtheria Scarlet Fever | 38 160 | 11 51 | 4 | 6 24 | 71 | 4 | 13 | 109 | 20 | 49 | 582 | | | | | |
| Typhoid | | | 4 | | 102 | 6 | 15 | 250 | 15 | 95 | 726 | 45 | 45 | 101 | 70 | 1126 |
| Other Diseases | 43 | 6 | 20 | 5 | *150 | 3 | 1 | 30 | 2 | | | | 218 | 287 | 172 | 2334 |
| Total number of cases treated | 241 | 68 | 186 | 45 | 327 | | 43 | *232 | 8 | | 221 | 10 | 13 | 2 | 7 | 54 |
| Bed-Days | 6717 | 3332 | 4545 | 2070 | | | - 73 | 621 | 45 | 144 | 1529 | 55 | 363 | 459 | 13 | 916 |
| Expenditure for the year : | £ s. d. 423 11 1 | £ s. d. | £ s. d. | £ s. d. | 15196 £ s, d, | 333 £ s. d. | 1507 E s. d. | 32442 E s. d. | 1273 & s. d. | 5340 | 55650 | 1531 | 11334 | 14348 | 272 8995 | 4430 |
| Interest on loan | 385 7 9 | | 101 4 0 11 16 4 | | 419 2 11 | | 64 0 0 | 3801 9 5 | | £ s. d. 40 1 8 | £ s. d. 4364 10 10 | £ s. d. 162 19 9 | £ s. d. | £ s. d. | £ s. d. | E x. |
| Total £ | 808 18 10 | | 113 0 4 | | 259 15 2 678 18 1 | | 27 3 7 | 3032 14 7 | 8 2 6 | 18 9 0 | 5160 7 2 | A | 660 16 3 830 10 7 | 558 12 5 530 10 5 | 1798 12 3 | |
| Structural Repairs | 131 17 7 | | | | | | 91 3 7 | 6854 4 0 | 45 2 2 | 58 10 8 | 10024 18 0 | 225 5 2 | 1491 6 10 | | 2280 6 9 4078 19 0 | |
| Food (Patients and Staff) Estab. and Patients' Expenses | 1966 17 9 1896 14 9 | 98 18 9 521 19 11 1397 14 4 | 175 1 5 424 17 9 | 87 f f 358 3 3 | 132 5 0 1230 9 9 | 178 4 8 | 51 11 0 229 3 8 | 4683 8 1 4582 11 3 | 45 17 8 264 8 8 | | 1467 3 5 | | 275 6 2 | 1156 18 10 | 836 10 10 | |
| Maintenance | 3935 10 1 | 2018 12 0 | 1844 1 11 | 820 3 5 | 6012 10 2 | 589 18 8 | 1620 16 4 | | | | 5850 0 2 | | 2379 4 8 | 3674 3 0 | 8#2 16 8 | |
| Overhead Charges | 808 18 10 | | 2444 1 1 113 0 4 | 1265 13 2 | 7375 4 11 | 768 3 4 | And a second sec | | | | 11358 1 0 18765 4 7 1 | | 4067 1 0 | | 8751 1 2 | |
| Total £ | 4744 8 11 | 2018 12 0 | 2657 1 5 | 1265 13 2 | 678 18 1 5054 3 0 | | 91 3 7 | 6834 4 0 | 48 2 2 | | 0024 18 0 | | 6721 11 10 | | 0482 8 8 1 | |
| ost per patient per week | | | | | | 768 3 4 | 1992 14 7 | 34439 1 1 | 1645 2 10 | 2197 12 11 3 | | | 1491 6 10 8212 18 8 | | 4078 19 0 | |
| " " Food, Struct, and Estab. Ex. F | 4 18 11 | 4 4 9 | 5 18 9 | 4 5 7 | 3 14 2 | 16 2 11 | 9 5 1 | 787 | 9 0 11 | 2 17 7 | 4 17 7 | 6 0 3 | | | 4559 7 8 1 | 40838-18 |
| ost per case treated, 1935-37 k | 19 13 9 | 4 4 9 29 13 8 | 3 15 3 13 15 0 | 4 5 7 | 3 7 11 | 16 2 11 | 8 16 8 | 5 19 2 | 8 15 8 | 2 16 1 | | | 515 | 8 18 I | 11 6 6 | 5 19 |
| | 22 19 0 | 45 8 10 | 9 0 8 | 28 2 6 33 11 9 | 24 12 8 | 59 1 10 | 27 13 6 | 55 9 1 | 36 11 2 | | 3 12 4 25 7 5 | 4 19 8 | 4 3 0 | 8 7 6 | 8 3 1 | 4 18 |
| * Includes Tuberc | tosh ever t | | | | 20 16 0 | 18 14 2 | 44 12 8 | 49 8 10 | 24 5 0 | | | 23 18 4 | 22 12 6 33 7 10 | 39 16 5 | 55 11 5 | 31 15 16 |



EXAMINATION OF BACTERIOLOGICAL SPECIMENS.

Dr. E. V. Suckling has kindly supplied the following report on the work undertaken during the year 1937 :---

The total number of specimens examined during 1937 was 32,107, which is an increase of 3,950 compared with the number received in the previous year.

For convenience of description the specimens can be divided into the following four main groups :---

| A. Samples of Water and Sewage Effluent. | |
|---|---|
| Total number | 688 |
| B. Samples of Milk, Ice Cream and Foods. | |
| Total number | 1,231 |
| C. Pathological Specimens. | |
| Received from Infectious Diseases Hospitals and Sanatoria, Medical Officers of Health and Medical Practitioners. Total number | 28,785 |
| D. Pathological Specimens. | |
| Received from County Hospitals and Public Assistance Institutions. Total number | 1,403 |
| oup A. Samples of Water and Sewage Effluent. | |
| The samples of this Group consisted of the following :- | |
| (1) Samples of Drinking Water | 373 |
| (2) Samples of Sewage Effluent, Trade Wastes and River Water | 255 |
| (3) Samples of Swimming Bath Water | 60 |
| | 688 |
| | The second se |

Gr

The number of samples in this group shows an increase of 85 over that of 1936.

All samples of water were submitted to chemical analysis and bacteriological examination.

Samples of Sewage Effluent and Trade Waste, however, were examined chemically only, except in special cases.

The samples indicated that the Public Water Supplies of the County maintain a satisfactory standard of purity.

Sewage Effluents and Trade Wastes discharged into watercourses are required to comply with two prescribed standards, *i.e.*, :--

(a) Suspended Matter not to exceed 2.1 grains per gallon.

(b) Impurity Figure not to exceed 10.0 grains per gallon.

On this basis the samples examined can be classified as follows :-

| Satisfactory | | | | | | 61% |
|--------------|-----------------|---------|--------|----------|------------|-----|
| Unsatisfact | ory | | | | | 25% |
| Borderline (| (<i>i.e.</i> , | failing | either | standard | by a small | |
| margin) | | | | | | 14% |

This can be regarded as a satisfactory result and shows an improvement compared with the position last year, when 34% of the samples proved unsatisfactory.

Group B. Samples of Milk, Ice-Cream and Foods.

1,022 samples of Milk were examined bacteriologically compared with 808 samples in 1936. They consisted of :---

| (1) | Ordinary or Un | graded Milk | N | 591 |
|-----|----------------|-------------|-------|-----|
| (2) | Graded Milk | | | 431 |

Ordinary Raw Milk.

The examinations to which these samples were submitted consisted of :--

- (a) Enumeration of total bacteria.
- (b) Coliform Test.
- (c) Methylene Blue Test.

according to requirements.

The standards aimed at in the case of these samples were bacterial count not to exceed 200,000 per c.c. and absence of coliform bacteria in 0.01 c.c., and in 125 cases, the methylene blue test was carried out in place of the estimation of the bacterial count.

The results obtained were :--

| -Satisfactory | | 368 | | 62% |
|----------------|------|---------|---|-----|
| Unsatisfactory | | 223 | = | 38% |

This is regarded as a good result in view of the high standard aimed at for ordinary milk samples.

Graded Milk.

Graded Milks and their required standards are as follows :---

| Pasteurised Milk . | Must not contain more than 100,000 bacteria per c.c. |
|---|--|
| Tuberculin Tested . (Pasteurised) Milk | Must not contain more than 30,000 bacteria per c.c. |
| Accredited Milk | Must comply with the prescribed Methy- |
| Tuberculin Tested Milk | lene Blue Test and must not contain coliform bacteria in 1/100th c.c. |

The results of the examinations of the samples of Graded Milk were as follows :---

Pasteurised Milk. Total number 174.

| Satisfactory | | 171 | - | 98.2% |
|----------------|------|-----|---|-------|
| Unsatisfactory | | 3 | | 1.8% |

24

SHEWING NUMBER AND TYPE OF PUBLIC HEALTH SPECIMENS EXAMINED BY THE BACTERIOLOGIST FOR ESSEX-YEAR 1937.

| SANITARY DISTRICTS | | Diph- theria. | Sputa. | Typhoid. | Ring- worm. | General. | Mlik and IceCream. | Water. | Sewage. | Total Specimens examined. | Virulence Tests for Diph- theria and Tubercle. |
|---|--|---|---|---|--|--|--|---|---------|--|--|
| URBAN- Barking B. Benfleet Billericay Braintree & Bocking Brentwood Brightlingsea Burnham-on-Crouch Canvey Island Chelmsford B. Chigwell Chingford Clacton-on-Sea Colchester B. Dagenham Epping Frinton & Walton Halstead Harwich B. Hornchurch Hiford B. Leyton B. Maldon B. Rayleigh Romford B. Saffron Walden B. Thurrock Waltham Holy Cross Walthamstow B. Wanstead & Woodford B. | ······································ | $\begin{array}{r} +1369\\ 102\\ +627\\ 58\\ 307\\ 1\\ 8\\ 22\\ 99\\ 61\\ +281\\ 47\\ +124\\ 432\\ +103\\ 13\\ +24\\ 53\\ 245\\ +424\\ +1689\\ +68\\ 28\\ +229\\ 16\\ +909\\ +366\\ 137\\ 397\\ 30\\ 18\\ \end{array}$ | $\begin{array}{c} \ddagger 265\\ 25\\ 50\\ 91\\ 303\\ 1\\ 8\\ 11\\ \ddagger 121\\ 49\\ \vdots 17\\ \ddagger 31\\ \ddagger 260\\ \ddagger 408\\ \ddagger 68\\ 19\\ \ddagger 52\\ \ddagger 2423\\ \ddagger 789\\ \ddagger 541\\ \ddagger 26\\ 13\\ \ddagger 450\\ \ddagger 218\\ \ddagger 450\\ \ddagger 218\\ \ddagger 450\\ \ddagger 151\\ 2\\ 45\end{array}$ | $\begin{array}{c} 26\\\\ 7\\ 9\\ 9\\ 9\\\\ 1\\ 2\\ 2\\ 6\\ 92\\\\ 16\\ 32\\ 8\\ 7\\ 2\\ 1\\ 221\\ 44\\ 13\\ 3\\ 13\\\\ 27\\ 40\\ 127\\ 11\\ 2\end{array}$ | | $\begin{array}{r} 49\\ 1\\ 96\\ 46\\ 80\\ 2\\ 3\\ 7\\ 33\\ 31\\ 73\\ 4\\ 30\\ 46\\ 45\\ 6\\ 3\\ 14\\ 50\\ 6613\\ 119\\ 108\\ 1\\ 77\\ 18\\ 68\\ 52\\ 1345\\ 56\\ 4\\ 13\\ \end{array}$ | 88 66 21 8 147 7 7 56 2 97 8 24 57 114 10 23 72 68 68 68 68 7 7 7 7 7 7 7 8 97 8 24 | 1) 2 4 7 8 11 2 4 2 4 2 6 3 1 2 5 4 2 5 4 2 6 3 1 2 4 2 3 7 7 7 7 7 7 7 7 7 | 3 | $\begin{array}{c} 1808\\ 196\\ 808\\ 221\\ 857\\ 4\\ 31\\ 42\\ 263\\ 156\\ 768\\ 138\\ 436\\ 1035\\ 236\\ 68\\ 66\\ 124\\ 2777\\ 8199\\ 2398\\ 230\\ 69\\ 865\\ 55\\ 1356\\ 463\\ 2727\\ 705\\ 38\\ 92\end{array}$ | 2 |
| Wivenhoe | | 8 | | | | | | 1 | | 9 | |
| Total | | 8295 | 7892 | 721 | 92 | 9093 | 1010 | 121 | 16 | 27240 | 28 |
| RUBAL- Braintree Chelmsford Dunmow Epping Halstead Lexden & Winstree Maldon Ongar Rochford Saffron Walden Tendring Totals- Rural | | +271 +44 83 53 39 7 29 +230 21 25 834 | \$1561 52 31 24 36 9 8 17 38 18 16 1810 | 4 | ······································ | 358 9 17 12 13 3 36 4 3 18 476 | 74 38 12 2 44 7 2 179 | 21 16 29 2 11 30 1 7 1 1 20 139 | | 2215 121 238 138 98 94 21 136 274 51 82 3468 | 20 2 22 |
| Urban | | 8295 | 7892 | 721 | 92 | 9093 | 1010 | 121 | 16 | 27240 | 28 |
| Adminis. County | | 9129 | 9702 | 734 | 95 | 9569 | 1189 | 260 | 30 | 30708 | 50 |
| | , | | Specime | ns of U | rine L. | G. & O. | O. Sup. | Schen | ne | 43 0 | |
| | | | | | | | | | | 31138 | |
| | | | | | | | | | | | |

Norm-The above figures do not include specimens submitted from the Oldchurch County Hospital, Romford, see page 30. Includes specimens taken at Isolation Hospital in district. """ Sanatoria or Dispensary.

Tuberculin Tested (Pasteurised) Milk. Total 5.

| Satisfactory | | 5 | =100% |
|----------------|------|-------|-------|
| Unsatisfactory | | 0 | = 0% |

Accredited and Tuberculin Tested Milk. Total 246.

| Satisfactory | | 191 = | 77.6% |
|----------------|------|-------|-------|
| Unsatisfactory | | 55 = | 22.4% |

Ice Cream. Total number 205.

205 samples of Ice-cream were examined, and based on the standard that the bacterial count should not exceed 100,000 per c.c., 28 or 13.6% were unsatisfactory.

In addition, 5 samples of milk and 1 sample of cream were specially examined for bacteria of the typhoid-paratyphoid-salmonella-dysentery groups, and one batch of bottles were submitted to the laboratory for tests for sterility in order to confirm the efficacy of cleansing.

The results proved satisfactory in all cases.

Other Foods.

One sample of Oysters was examined bacteriologically and proved to be clean.

One sample of bread was examined bacteriologically with special reference to the presence of typhoid-paratyphoid bacteria, but with negative results, and one sample of canned fish was examined in connection with suspected food-poisoning, but this proved sterile.

Group C. Pathological Specimens.

The total number of Pathological Specimens in this Group was 28,785, but a number were submitted to various different examinations, as outlined below :—

(1) Swabs from Throat, Nose, Ear, &c. .. 15,992

These specimens are mostly submitted in connection with Diphtheria and Scarlet Fever and are examined culturally for Klebs Loeffleur's Bacilli or Haemolytic Streptococci, and microscopically for the organisms of Vincent's Angina, &c., as required.

(a) Swabs examined culturally for Diphtheria Bacilli only 9,175

Many of these were also examined directly by microscopical method. 712 or 7.7% of these swabs gave positive results.

Animal Inoculation Tests for Virulence were carried out on 49 cultures, of which 26 proved virulent.

(b) Swabs submitted to general bacteriological examination, microscopical and cultural ... 7,100 These specimens consisted of the following :---

| (1) | Throat Swabs | | | 2,290 |
|-----|------------------------|-------|------|-------|
| (2) | Nose Swabs | | | 2,730 |
| (3) | Ears, Eyes, Skin, &c., | Swabs | | 376 |
| (4) | Breast Swabs | | | 1,547 |
| (5) | Unlabelled | | | 257 |

The majority of these specimens were sent primarily for examination for Streptococci and Staphylococci. Streptococci, when found, were differentiated into Haemolytic and Non-Haemolytic strains.

(2) Specimens in connection with Puerperal Fever 108

In addition to many swabs from Throat, Nose, Breast, &c., included under Paragraph 1, 108 specimens were examined, including vaginal and cervical swabs, &c.

These specimens were submitted to the following examinations :--

- (a) Microscopical Examination.
- (b) Bacteriological Examination-Cultural.
- (c) Classification of Streptococci, when found, into Haemolytic and Non-Haemolytic Groups.

(3) Specimens of Sputum 9,030 . .

The total number of specimens of sputum examined was 9,030, as follows :--

| <i>(a)</i> | Specimens | examined n | nicro | scopicall | y for Ti | abercle | |
|------------|-----------|--------------|-------|-----------|----------|---------|-------|
| | Bacilli | | | | | | 8,990 |
| (b) | Specimens | submitted | to | general | micros | copical | |
| | and bac | teriological | exa | mination | | | 40 |

All specimens of sputum are examined by concentration methods before a negative result for Tubercle Bacilli is given and 2,892 or 32% gave positive results.

| (4) | Specimens . | of | Pus | | | 203 |
|-----|-------------|----|-----|--|------|---------|
| | | | | | | |

The total number of specimens under this heading was 203, and the examinations to which they were submitted were as follows :---

| (a) General Microscopical Examination | 199 |
|---|-----------|
| (b) Microscopical Examination for T.B. | 182 |
| (c) Bacteriological Examination, Cultural | 199 |
| (d) Animal Inoculation Tests for T.B | 5 |
| (5) Specimens of Urine | 1,463 |

The examinations to which the specimens were submitted were as follows :---

| (a) Chemical Analysis | 1,191 |
|--|-------|
| (b) General Microscopical Examination | 1,204 |
| (c) Microscopical Examination for Tubercle Bacilli | 892 |
| (d) Bacteriological Examination, Cultural | 499 |
| (e) Animal Inoculation Tests for Tubercle Bacilli | 26 |
| (f) Animal Inoculation Tests for Pregnancy | 2 |

Of the 892 specimens examined for Tubercle Bacilli, 77 or 8.6% gave positive results and the majority of these were from patients under treatment for Tuberculosis in the County Sanatoria.

11 of the 26 specimens submitted to animal inoculation tests for Tubercle Bacilli gave positive results.

114 of the specimens examined culturally were especially submitted for examination for Typhoid-Paratyphoid Bacilli and two showed the presence of Paratyphoid Bacilli.

| | (6) S | pecimens | of | Faces | | | | | 71 | 3 |
|--|-------|----------|----|-------|--|--|--|--|----|---|
|--|-------|----------|----|-------|--|--|--|--|----|---|

The total number of specimens was 713, which were examined as follows :---

| (a) | General Microscopical Examination for ab | onormal | |
|--------------|--|---------|-----|
| | constituents, cells, parasites, ova | | 42 |
| (b) | Microscopical Examination for Tubercle | Bacilli | 84 |
| (c) | Bacteriological Examination, Cultural | | 663 |
| (<i>d</i>) | Occult Blood Reaction | | 14 |
| (e) | Triboulet's Reaction | | 30 |

Of the 663 specimens examined culturally, 639 were submitted for examination for typhoid-paratyphoid-dysentery bacilli, and 19 were found to contain paratyphoid bacilli. 122 contained dysentery bacilli (Sonne).

The total number of specimens was 172, consisting of the following :--

| (1) | Cerebr | o-Spinal | Fluid | | | | 73 |
|-----|--------------|----------|---------|--------------|------|----|----|
| | <i>(a)</i> | Cytologi | cal Exa | amination | | 72 | |
| | | Chemica | | | | 64 | |
| | (c) | Microsco | pical | Examination | for | | |
| | | Tube | rcle Ba | cilli | | 63 | |
| | (<i>d</i>) | Bacterio | logical | Examination, | Cul- | | |
| | | tural | | | | 72 | |
| (2) | Pleura | d Fluids | | | | | 88 |
| | (<i>a</i>) | Cytologi | cal Exa | minations | | 88 | |
| | | Chemica | | | | 0 | |
| | (c) | Microsco | pical | Examination | for | | |
| | | Tube | rcle Ba | cilli | | 88 | |
| | (<i>d</i>) | Bacterio | logical | Examination, | Cul- | | |
| | | tural | | | | 88 | |
| | | | | | | | |

| 3) Other Flui | ds | | | | 11 |
|---------------|----|--|--|--|----|
|---------------|----|--|--|--|----|

These consisted of specimens of fluid from abdomen, joints, &c., and were examined as follows :---

- (c) Bacteriological Examination, Cultural .. 11

Animal inoculation tests for Tubercle Bacilli were carried out on 1 specimen of pleural fluid and 1 specimen of joint fluid.

(8) Specimens of Blood 899

The total number of specimens of blood was 899, and the various examinations required were as follows :---

| (a) Cultural Examination | | | 46 |
|-------------------------------------|-----------|-----|-----|
| (b) Agglutination Reactions | 5 | | 414 |
| (1) Typhoid-Paratyphoid G | roup | 393 | |
| (2) Melitensis Group | | 22 | |
| (3) Dysentery Group | | 20 | |
| (c) Blood Films for Differential Ce | ll Counts | | 81 |
| (d) Blood Films for Malarial Para | sites | | 4 |
| (e) Estimation of Blood Sugar | | | 75 |
| (f) Estimation of Blood Urea | | | 279 |
| (g) Estimation of Blood Calcium | | | 1 |
| | | | |

(9) Specimens of Hair and Skin Scrapings 95

The number of specimens examined was 95, of which 29 or 30.5% showed the presence of Ringworm Fungus.

(10) Specimens of Tissue.

The number of specimens of tissue examined histologically was 35. Slides of the sections were supplied on several occasions by request.

(11) Preparation of Autogenous Vaccines.

Five autogenous vaccines were prepared from bacteria isolated from specimens of pus.

(12) Animal Inoculation Tests.

The total number of specimens under this heading was 82, which consisted of the following :---

| (a) Virulence Tests for Diphtheria Bacilli | 49 |
|---|----|
| (b) Urine for Tubercle Bacilli | 26 |
| (c) Pleural and other Fluids for Tubercle Bacilli | 2 |
| (d) Pus for Tubercle Bacilli | 5 |

29

Group D. Specimens from Oldehurch County Hospital and Public Assistance Institutions.

The total number of specimens in this Group was 1,403, an increase of 269 compared with 1936.

These specimens were distributed as follows :---

| Oldchurch County Hospital | | 414 |
|--------------------------------|------|-----|
| Public Assistance Institutions | | 989 |

The character of these specimens and the examinations to which they were submitted were as follows :---

| (1) Specimens of Blood | | 49 |
|--|------|-----|
| (a) Estimation of Blood Sugar | 2 | |
| (b) Estimation of Blood Urea | 12 | |
| (c) Blood Cell Counts | 6 | |
| (d) Blood Culture | 5 | |
| (e) Agglutination Reactions | 24 | |
| (1) Typhoid-Paratyphoid Group : 6 | | |
| (2) Melitensis Group : 1 | | |
| (3) Dysentery Group : 17 | | |
| | | |
| (2) Specimens of Faces | | 117 |
| (a) General Microscopical Examination | 13 | |
| (b) Microscopical Examination for Tubercle | | |
| Bacilli | - 51 | |
| (c) Bacteriological Examination, Cultural | 80 | |
| (d) Occult Blood Reaction | 19 | |
| (e) Triboulet's Reaction | 16 | |
| (f) Fat Estimation | 3 | |
| (3) Specimens of Urine | | 377 |
| (a) General Microscopical Examination | 266 | |
| (b) Microscopical Examination for Tubercle | | |
| Bacilli | 106 | |
| (c) Chemical Analysis | 266 | |
| (d) Bacteriological Examination, Cultural | 68 | |
| (e) Zondek-Ascheim Tests for Pregnancy. | 111 | |
| (f) Animal Inoculation Tests for Tubercle | | |
| Bacilli | 1 | |
| (4) Specimens of Cerebro-Spinal Fluid | | 22 |
| (a) Cytological Examination | 22 | |
| (b) Chemical Analysis | 22 | |
| (c) Microscopical Examination for Tubercle | | |
| Bacilli | 22 | |
| (d) Bacteriological Examination, Cultural | 22 | |
| | | |

| (5) Specimens of Pleural and other Body Fluids | | 27 |
|---|---------------|-----------|
| (a) Cytological Examination | 27 | |
| (b) Microscopical Examination for Tubercle | | |
| Bacilli | 26 | |
| (c) Bacteriological Examination, Cultural | 27 | |
| (d) Animal Inoculation Test for Tubercle | | |
| Bacilli | 8 | |
| | | |
| (6) Specimens of Pus | | 25 |
| (a) General Microscopical Examination | 24 | |
| (b) Microscopical Examination for Tubercle | | |
| Bacilli | 24 | |
| (c) Bacteriological Examination, Cultural | 24 | |
| (0) 200000000000000000000000000000000000 | | |
| (7) Specimens of Sputum | | 452 |
| | | |
| (a) Microscopical Examination for Tubercle | 452 | |
| Bacilli | 452 | |
| (b) General Microscopical Examination(c) Bacteriological Examination, Cultural | 60 | |
| (c) Dacteriological Examination, Cultural | 00 | |
| (8) Swabs from Throat, Nose and Ear | | 220 |
| (a) Cultural Examination for Diphtheria | | |
| Bacilli | 214 | |
| (b) General Microscopical Examination | 2 | |
| (c) General Bacteriological Examination | 18 | |
| (d) Animal Inoculation Tests for K.L.B. | | |
| Virulence | 14 | |
| | | |
| (9) Specimens of Uterine and Urethral Discharges | | 12 |
| (a) General Microscopical Examination | 12 | |
| (b) Microscopical Examination for Tubercle | | |
| Bacilli | 11 | |
| (c) Bacteriological Examination, Cultural | 12 | |
| | | |
| (10) Specimens of Hair and Skin Scrapings | | 1 |
| This specimen was examined microscopic Fungus. | ally for Ri | ngworm |
| (11) Specimens of Tissue | | 76 |
| | iconico (Tral | |
| Histological Examinations for Malignant D &c., were carried out on these specimens. | usease, 1ube | rcutosis, |
| (12) Animal Inoculation Tests | | 134 |
| (a) Zondek-Ascheim Tests for Pregnancy | 111 | |
| (b) Virulence Tests for K.L.B. Virulence. | 14 | |
| (c) Body Fluids for Tubercle Bacilli | 9 | |
| | | |

31

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It is evident that increasing advantage is being taken of the County Laboratory facilities and the extent of this is shown in the following Table, in which the figures have been summarised in their respective Groups for 1936 and 1937 respectively :—

| Group A. | 1936. | | 1937. |
|---|--------|-----|--------|
| Samples of Water, Sewage Effluents and Swimming Bath Waters | 603 | | 688 |
| Group B. | | | |
| Samples of Milk, Ice-Cream and other Foods | 1,010 | | 1,231 |
| Group C. | | | |
| Pathological Specimens from Medical Officers of Health, Medical Practi- tioners, &c | 25,410 | | 28,785 |
| Group D. | | | |
| Pathological Specimens from Oldchurch Hospital and Public Assistance Insti- | | | |
| tutions | 1,134 | • • | 1,403 |
| Total | 28,157 | | 32,107 |

The increase in the total number of specimens during the year is therefore 3,950, or approximately 14%.

Other laboratories are also utilised by the County Council in the direction indicated below :---

East Anglian Institute of Agriculture for the bacteriological examination of samples of milk obtained under the Milk (Special Designations) Order, 1936.

Dr. A. Leslie Sheather, Wroxton, Chorleywood, Herts, for the biological examination of samples of milk obtained from all the licensed and nonlicensed farms in the Administrative County.

Dr. S. Roodhouse Gloyne, City of London Hospital, Victoria Park, E.2, for the bacteriological and biological examination of samples of milk obtained at or during delivery to schools under the Milk-in-Schools Scheme.

Chelmsford and Essex Hospital, Chelmsford, for the examination of specimens in connection with cases of puerperal fever and scarlet fever.

Oldchurch County Hospital, Romford, for the examination of routine specimens from patients at the hospital.

Black Notley Sanatorium for the examination of routine specimens from patients at the Sanatorium.

32

LOCAL GOVERNMENT ACTS, 1929 and 1933.

SECTION 57 (1929). Full details of the County Scheme for making contributions to District Councils were given in the Report for 1934. Schemes for water supplies and sewerage and sewage disposal were submitted by the undermentioned Local Sanitary Authorities; the grants shown below were approved, or the Schemes were regarded as suitable for grant purposes under the Section 57 Scheme :—

| Sanitary District. | Parish. | Purpose. | Grant. |
|-----------------------|---|---|--|
| Dunmow R | Comprehensive Scheme | Water Supply | *Increased from £12,000 to £12,650. |
| Dunmow R | Hatfield Broad Oak, Great & Little Halling- bury | Water Supply | *Reduced from £1,300 to £1,150. |
| Maldon R | Dengie Hundred | Water Supply | *Reduced from £4,000 to £3,750. |
| Tendring R | Lawford | Sewerage and sewage disposal. Cost £940 | Eligible for Scheme. |

*These amendments were in accordance with the decision of the Minister of Health to amend the grant promised by him under the Rural Water Supplies Act, 1934.

GRANTS MADE FOR 1937-38. The County Council made the following grants in accordance with the provisions of the Section 57 Scheme in respect of the financial year 1937-38 :---

| Rural District. | | | Amount of Grant. £ |
|-----------------|------|------|--------------------------|
| Braintree | | | 3,345 |
| Dunmow | | | 2,556 |
| Halstead | | | 354 |
| Saffron Walden | | | 1,998 |

AMENDMENT OF SECTION 57 SCHEME. At the request of the Essex branch of the Rural District Councils' Association a discussion took place with representatives of that Association upon the question of the amendment of some of the conditions in the Section 57 Scheme. Subsequently, the County Council agreed that the Scheme be amended by the substitution of the following clause for the existing Clause 3 of the Scheme relating to minimum charges for water supplies :—

"The charges for water supplies must be adequate and shall be subject "to approval by the County Council. If the minimum tariff imposed by a "Rural District Council is less than $12\frac{1}{2}$ per cent. on Rateable Value for "domestic supplies, and less than 1/6 per thousand gallons for measured "supplies respectively, the County Council shall take into account for the "purpose of calculating any grant payable under the Scheme the additional "income which would have been produced had the charges in force been not "less than those mentioned above." Arising out of the same conference, the County Council approved of the following recommendation :---

"That representations be made to the Ministry of Health in support of "the action taken by the Rural District Councils in the County in petitioning "the Minister of Health to introduce legislation to provide for Exchequer "Contributions in aid of Sewerage and Sewage Disposal Schemes in the same "manner that contributions were made in aid of Water Schemes under the "Rural Water Supplies Act, 1934."

HOUSING.

Table VI on page 34a gives particulars of the work carried out under the Public Health and Housing Acts by the Local Sanitary Authorities during the year 1937. The principal items included in that table are compared below with the figures for the year 1936 :—

| | 1936. | 1937. |
|---|--------|------------|
| No. of new houses erected | 14,316 | 15,273 |
| No. of houses inspected for housing defects | 36,974 | 32,752 |
| No. of inepections made for the purpose | 91,231 | 94,120 |
| No. of houses found to be totally unfit for | | |
| human habitation | 2,067 | 1,436 |
| No. of houses found not to be in all respects | | |
| reasonably fit for human habitation | 15,011 | 15,550 |
| No. of houses rendered fit in consequence of | | |
| informal action | 12,078 | 12,390 |
| | | |

RURAL DISTRICTS. The Housing Act, 1936, which came into force on 31st July, 1936, is an Act to consolidate the Housing Acts, 1925 to 1935, and certain other enactments relating to housing. The special provisions as to Rural Districts are contained in Sections 88 and 89, which replace Sections 32 and 33 of the Housing Act, 1930. In those special provisions a definite duty is placed upon the Council of every County " as ' respects each rural district within the County, to have constant regard to the housing ' conditions of persons of the working classes, the extent to which overcrowding or other ' unsatisfactory conditions exist and the sufficiency of the steps which the Council of ' the district have taken, or are proposing to take, to remedy those conditions and to ' provide further housing accommodation."

To assist the County Council in carrying out that duty, each Rural District Council furnished their sixth return (for the year 1936) in regard to housing conditions of persons of the working classes. A summary of these returns is given in Table VII on page 34b, and the totals are compared with last year's figures in the following table :---

| | 1935. | 1936. |
|--|-----------|-----------|
| No. of totally unfit houses on 31st December | 563 | 1,639 |
| No. of houses demolished during year | 141 | 163 |
| No. of partially unfit houses on 31st December | 1,261 | 2,501 |
| No. of houses rendered habitable during year | 1,330 | 1,413 |

34

| | 51 | W HOUSE ES. | ACTED DURIN | u 1987, | | | and the second day | s Bouns 203 | No. of Concession, name | | HOUSI | 1 | | | | | | | | E PUBI | | | | | | |
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| | | | 87 | | (6) Total No | (0) | Na. of Dural | (4) | (0) | No. (f) | Ma. of defective Dwelling Houses | TROTREOS AND 16 C | THE DODES | armows 5, 10 | 1 22 | OTHER DESIGNATION OF | DER STATC | | | | | | Horsess A | IT, 2836-0 | TERCINOVALING. | |
| STILLY DISTRICT. | Total. | The Local Authority | Other Local Authorities | Other Bodim Cr Persona. | inapecta for Broad Defecta Public Public Brackto or Housin Arta | ng No. of Inspector mate for the purpose | MEL carefy childed and mub-head (a) which were has hapened and popula | Bring States | No. found to be in a state so damprova to halfo as to be units for kernan halfoamen. | ing those referred to taking (a)) fotad not to be to all respects | Eccares rendered fit in rensergeneres of informal action by the Loyal Authority of their Officers. | No. of Dwelling Elouans His suspect of which Noticos vers served requiring Repairs. | No. of D which we | willing Houses to Desidered III See of formal illion. By Local Authority is default of Owners. | No. of Dwelling Boung In support of which | No. of Des | Actia Clag Houses in is were remedian the of formal intern. By Local Attibuting In default af Owners. | 6 No. of Dwitting Historie in rangest of Witten Dwardthen Orders want | No. of Densities demokied in portugation for a set provided in portugation of Demokies Orden | No. of separate Tene- monte or Under- Stound Rooms in Perpet of which Cooling Orders | No. of expanded Testandary 1006. No. of expanded Testandary Underground Bootes in respect of which Config Orders was determined, the Tearmont of | No. of Desclarge | Stat | No. of Jersona Oveling Useroia, | No. of sev cause of ever- creeting reported | Si chi chi ling r chi ling r chi ling r |
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| TCTAL | 13784 | 653 | 84 | 13047 | 25826 | #1267 | 7830 | 27563 | 518 1 | | 110 | 843 | 750 | | 1000 | 865 | 27 | 204 | 20 | | | 1 946 197 | 'i 73 141 | 7 | | 4 |
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| BRAN TOTAL 1: | | 295 653 | | | | | | | 018 22 118 120 | | | 46 48 7 | 33 50 | 1 1 | | | 25 | | | | 437 | 437 | 32414 | 0) 541 | 219 | |
| COUNTY 1 | 15273 | 638 | 86 14 | 249 3 | 19752 0 | 04120 12 | 290 371 | 173 14 | 36 155 | 50 123 | 85 00 | 14 75 | | 18 111 | 0 924 | | 7 49 | | | | | _ | | | | ļ |

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TABLE VIL

HOUSING ACT, 1930.

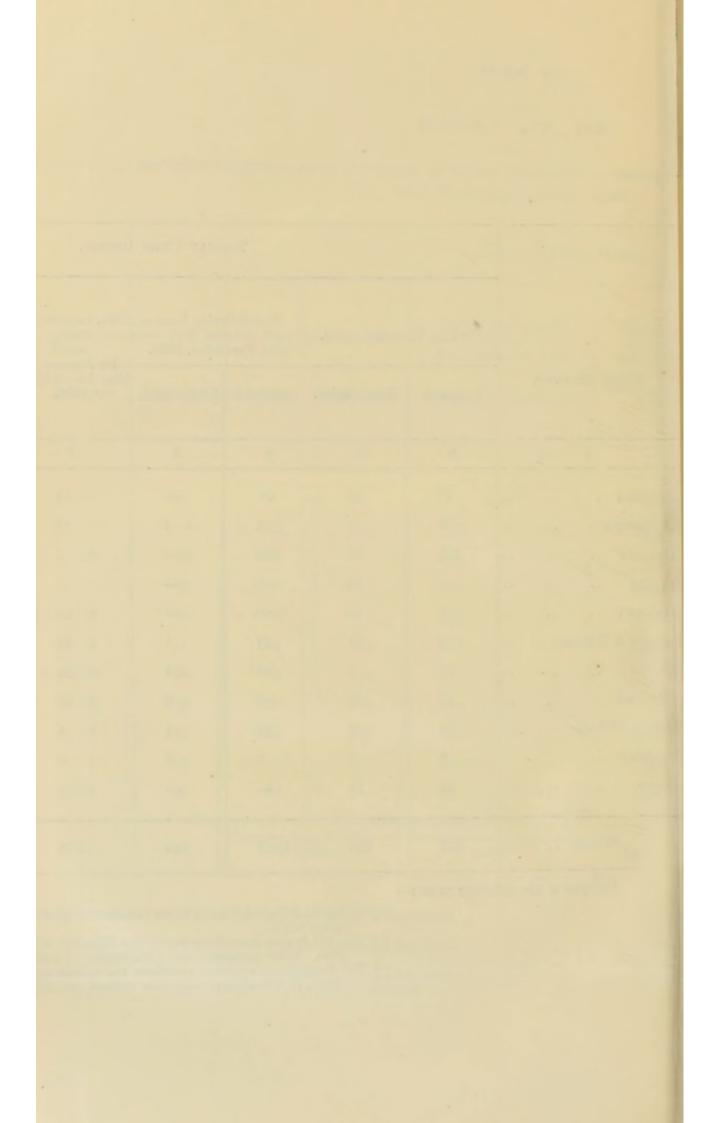
SCHMARY OF RETURNS RECEIVED FROM COUNCILS OF RULAL DISTRICTS IN REGARD TO HOUSING CONDITIONS OF PERSONS OF THE WORKING CLASSES-1907.

| | | | | То | TALLY USER | HOTNES. | | | | | Ра | STIALLY UNIT | r Houses, | | | 1 | | | | | | | |
|-------------------|-------|------------|---------------|-----------|-------------------------------------|--|-----------------|---------------------|------------|---------------|---------------|-------------------------------------|--------------------------------------|------------|------------------------|----------------------------------|-----------------|-------------------------------|---|-------------|---|--------------------------------------|--|
| | T | | | | | | - | | 1.000 | | 1 | | | | | UVINCEO | Exist. | KROWN TO | | Pass | ISING OF NEW | e Houses. | |
| | | On 31st De | oember, 1985. | 10 | laring Year ided smber, 1956. | No. demolished during period bit January to | No 31st Dece | n on mber, 1936, | On 31st De | cember, 1935. | 0 | during year nded ember, 1936. | Rendered habitable during year | 3 Int Dece | io, on omber, 1996. | No. found by Survey | No. remediad | No. | No. erected | Estimat | ed No. of | Total No. | Total No. of houses contemplated |
| RERAL DISTRICT. | | Occupied. | Unoccupied, | Occupied. | Unoccupied. | 31st Detember | Occupied. | Unoccupied. | Oerupied. | Unoccupied | 1 | | ended | Overpind. | Unscorpied. | under Housing Act, 1935 | during 1936, | on 31st December, 1996. | during year ended 31st December, | year ending | ding 31st Marin, 38, to meet by Minis but no | of houses approved by Minister | for erection in year ending |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 12 | | | | | | | 1936. | Overcared. | Normal expan- sion, | completed. | by Ministry, |
| Praintree | | 71 | 32 | -016 | 48 | 18 | | | - | | | | 13 | 14 | 15 | 16 | 17 | 28 | 19 | 20 | 21 | 22 | |
| Chelmaford | | 50 | 11 | 21 | | 15 | 537 | 62 | 31 | 11 | | 43 | 182 (4) | | 12 | 84 | 14 | | | | | | 21 |
| Danmow | | 112 | 16 | 416 | | 15 | 06 | 6 | 87 | - | 97 | - | 114 | 70 | - 1 | 104 | | 20 | 88 | - | - | - | 105 (b) |
| Epping | | 3 | 19 | 5 | 1 | 2 | 500 | 29 | 322 | - | 510 | - | 37 | 795 | - | 87 | | 101 NI | 28 | 56 | 448 | 152 | 332 |
| alstead | | 32 | 45 | 40 | 30 | 20 (d) | 50 | 23 | 165 | - | 285 | - | 227 | 223 | - | 69 | 64 | 21 | 22 | 46 | - | 78 | 210 |
| Lexden & Winstree | | 3 | 21 | 17 | 5 | 20 | 13 | 52 16 | 70 | 6 | 140 | 18 | 95 | 164 | 10 | 47 | н | 33 | 34 | (0) | | 76 | 20 |
| Maldon | | 19 | 8 | 46 | 21 | 24 (f) | 42 | 28 | 122 | 14 | 341 | 4 | 322 | 201 | 5 | 38 | 14 | 44 | - | 33 | 26 | -53 | |
| Sochdoed | | 23 | 29 | τ | 6 | 29 | 23 | 13 | 50 | 6 | 67 | 4 | 57 | 25 | 4 | 65 | 39. | 35 | 56 | 22 35 | 120 (c) 33 | - | = |
| Saffron Walden | | 23 | 19 | 40 | 1 | 4 | 53 | 14 | 38 | • | 28 | 5 | 44 | 20 | | 39 | 20 | 39 | - | - | 50 | - | 55 |
| Fendring | | 8 | 9 | 9 | 6 | 5 | 8 | 15 | - | | 90 200 (h) | - | 129 | - | - | 114 | 34 | 80 | | 50 | | 35 | - |
| Dogar | ••• | 30) | 23 | | - | 21 | 30 | 11 | 80 | 2 | 351 | 12 | 88 163 | - | 112(P) | 85 | 11 | 74 | 3(0 (i) | - | - | - | |
| *Totals | | | 2000 C | 10.00 | | | | | | | | | 140 | 209 | 9 | 83 | - | 83 | 64 | 38 | 35 | 49 | 24 (g) |
| *Subject to the | folls | 412 | 235 | 1,067 | 124 | 163 | 1,300 | 279 | 1,29 | 17 | 2,59 | 15 | 1,413 | 2,501 | 1 | 895 | 194 | 611 | 603 | 320 | 761 | 446 | 215 |

(a) 30 house included in total where repairs were permitted after notices for denolition enters had been served or denolition enders made.
(b) The 140 house have here here the Ministry of Heidh has been committed. Nothing is yet matistical beyond 30 the Committee with the Ministry of Heidh has been committee size and date.
(c) The Committee to the aufficiency of heidh has been committee in the date.
(c) The Committee enterprise fails to meet the need. It is impossible to make anything the an accurate enternade.

(d) 10 houses denotabled and 10 houses in respect of adult midertakings were given.
 (e) The Datriet Consol's Public Health Committee are deviation that private interprise will next the needs of the Datriet so far at the total ranks or a minft and overvene deviation of the data of

342



| Estimated No. of houses required : | On 31-3-37. | On 31-3-38. |
|--|----------------|----------------|
| (a) To meet overcrowding | 335 | 310 |
| (b) To meet normal expansion | 452 | 761 |
| No. of proposed new houses : | | |
| (a) Approved by Ministry of Health | 268 | 446 |
| (b) Not yet approved by Ministry of Health | 635 | 928 |

HOUSING (RURAL WORKERS) ACT, 1926-1931.

The information given below has been kindly supplied by the County Land Agent. During the year 1937, 245 Forms of Application were received applying for Grants in respect of 491 cottages.

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

| District. | А | No. of pplication | 8. | No. of Cottages. | in wh | No. of Cottages respect of ich Grant been ma | ts | Total Grants in the year. |
|--------------------|-----|----------------------|----|---------------------|----------|--|----|------------------------------|
| | | | | | | | | £ |
| Braintree R. | | 40 | | 77 | | 45 | | 4,390 |
| Chelmsford R. | | 38 | | 72 | | 11 | | 1,100 |
| Dunmow R. | | 27 | | 57 | | 21 | | 1,996 |
| Epping R. | | 2 | | 2 | | - | | _ |
| Halstead R. | | 17 | | 28 | | 14 | | 1,336 |
| Lexden & Winstree | R. | 15 | | 23 | | 10 | | 989 |
| Maldon R. | | 18 | | 29 | | 7 | | 614 |
| Ongar R. | | 15 | | 35 | | 21 | | 2,100 |
| Rochford R. | | 15 | | 37 | | 22 | | 2,187 |
| Saffron Walden R. | | 22 | | 48 | | 16 | | 1,590 |
| Tendring R. | | 18 | | 37 | | 9 | | 900 |
| Braintree & Bockin | gU. | 1 | | 3 | | 3 | | 300 |
| Billericay U. | | 2 | | 3 | | 1 | | 100 |
| Epping U. | | 3 | | 7 | | 6 | | 600 |
| Frinton & Walton | U. | 3 | | 7 | | _ | | _ |
| Thurrock U. | | 2 | | 6 | | _ | | _ |
| Witham U. | | 7 | | 20 | | 4 | | 400 |
| And Sectored 196 | - | 245 | | 491 | | 190 | | £18,602 |

Of the cottages included in the above applications, 190 were approved for grants, 32 were not approved, 15 were withdrawn, and 254 were under consideration at the end of the year. The total number of cottages approved for reconditioning under the Act in Essex up to 31st December, 1937, is 927. The total amount of Grants is £85,563, and it is estimated that the expenditure made in addition by the owners themselves exceeded £82,458.

Particulars of three typical cases of cottages reconstructed or improved by Grants made by the County Council during 1937 are set out hereunder :---

35

(1) Parish of Hatfield Broad Oak.

Three timber-built plaster and thatched cottages, situate on the south side of the Chelmsford Road, Hatfield Heath :---

Lean-tos at back and wash house at end raised. New sculleries, food stores, staircases, partitions, windows, doors and w.c.'s provided. New flues formed for fireplaces. Concrete paving at back of cottages.

Grant made to owner—£260. Estimated total expenditure—£390.

(2) Parish of Beauchamp Roding.

Detached timber-built, part weatherboarded, part plastered and tiled cottage :---

Roof stripped and re-tiled. Tops of chimneys re-built and one new chimney. External walls plastered, new food store, cupboards, windows, doors, range, stoves, copper and sink provided. Floors renewed.

Grant made to owner—£100. Estimated total expenditure—£240 16s. 0d.

(3) Parish of Kelvedon.

Two semi-detached part brick, part timber-built, chiefly tiled and part slated cottages, situate on Felix Hall Road, Kelvedon :---

Roof stripped, re-tiled and slated. Back portion heightened to form two new bedrooms. New bedroom flue formed and one staircase. New windows, doors, floors, food stores, sinks, stoves, range and e.c.'s provided. The whole of the external plastering renewed.

Grant made to owner—£200. Estimated total expenditure—£425.

MILK SUPPLY.

Veterinary Inspection of Dairy Herds.

A whole-time veterinary service, consisting of one Chief Veterinary Officer, one Senior Assistant Veterinary Officer and seven Assistant District Veterinary Officers, was employed throughout the year.

In November and December, five Assistant District Veterinary Officers were released at the request of the Ministry of Agriculture and Fisheries to assist the Ministry in dealing with the outbreaks of Foot-and-Mouth Disease. During those two months also, all routine examinations of dairy herds in Essex by the Veterinary Officers were stopped. Otherwise, the scheme for the inspection three times yearly of dairy herds producing ordinary raw milk was continued as shown below. The total number of herds in the County is 1,880 :—

| Quarter ended. | lo. of Here Inspected | | No. In milk. | Total. | | | |
|----------------|--------------------------|-----|-----------------|--------|--------|--|---------|
| 31st March | 1,463 | | 26,520 | | 6,731 | | 33,251 |
| 30th June | 1,155 | | 24,552 | | 3,917 | | 28,469 |
| 30th September | 1,265 | | 23,343 | | 4,499 | | 27,842 |
| 31st December | 555 | • • | 12,635 | • • | 5,067 | | 17,702 |
| Totals | 4,438 | | 87,050 | | 20,214 | | 107,264 |

Under the Milk and Dairies Order, 1926, it is unlawful for the owner of cows suffering from certain specified diseased conditions to sell milk from such cows or to use it in the manufacture of products for human consumption. These diseased conditions are non-tubercular and are not notifiable, and it can be confidently asserted that none of these conditions would have come to light or to the knowledge of the County Council were it not for the periodical visits to farms by the veterinary staff.

These diseased conditions, and the number of cows found to be suffering therefrom during the period under review are tabulated below, together with comparative figures for the previous year, the table being compiled from reports by the Chief Veterinary Officer :—

| | | | | 1936. | 1937. |
|----------------------------|------------|------------|-------|-------|---------|
| Giving tuberculous milk | | | | 6 | 14 |
| Emaciation due to tubercu | ilosis | | | 33 | 31 |
| Tuberculosis of the udder | | | | 147 | 150 |
| Acute inflammation of the | udder | | | 13 | _ |
| Acute mastitis | | | | 286 | 174 |
| Actinomycosis of the udde | r | | | _ | |
| Anthrax | | | | - | |
| Foot-and-Mouth disease | | | | - | |
| Suppuration of the udder | | | | 32 | 15 |
| Comatose condition | | | | _ | 2 |
| Septic condition of uterus | | | | 42 | 14 |
| Any infection of the udder | or teats w | hich may c | onvey | | |
| disease | | | | 275 | 494 |
| | | | | | |
| | | | | 834 | 894 |
| | | | | | |

Notices were served by the Chief Veterinary Officer upon the respective owners (1) restricting the sale of milk from the affected animal, and (2) requiring the removal of such animal from the herd. As regards (1), the Medical Officers of Health concerned were notified.

Milk and Dairies (Consolidation) Act, 1915.

BIOLOGICAL EXAMINATIONS. Samples of milk were obtained and submitted to biological examination with the results indicated below :---

| | R | Results | | | |
|---|---|---------|--|----|--------|
| Taken by. | No. found to contain Tubercle Bacilli, | | No. free from Tubercle Bacilli. | | Total. |
| Assistant District Veterinary | | | | | |
| Officers at farms Weights and Measures Inspec- tors : | 75 (5.2%)* | | 1,356 | | 1,431 |
| (a) At Public Assistance In- stitutions, Sanatoria, | | | | | |
| &c (b) At or near Schools under | 3 (10.3%) | | 26 | •• | 29 |
| Milk-in-Schools Scheme | 22 (4.2%)† | | 498 | | 520 |
| Totals | 100 (5.0%) | | 1,880 | | 1,980 |
| | | | | | |

*The percentage for 1936 was 4.61. †The percentage for 1936 was 4.4.

In regard to the samples containing tubercle bacilli, particulars were sent to the Chief Veterinary Officer, who promptly carried out investigations under the Act, and took appropriate action under the Tuberculosis Order, 1925.

SECTION 4. During the year, 20 notifications were received from Medical Officers of Health under Section 4 of the Milk and Dairies (Consolidation) Act, 1915, to the effect that the biological examination of samples of milk from 20 farms within the Administrative County of Essex had revealed the presence of tubercle bacilli. Particulars were transmitted to the Chief Veterinary Officer, who arranged for the usual inspections of the herds at the farms where the milk in question was produced, and who has kindly supplied the following results :--

| Animals responsible for infection dealt with under the | fuber- | Section 4 Inquiries. |
|---|--------|-------------------------|
| culosis Order, 1925 | | 11 |
| Infection apparently due to animals sold between date s | ample | |
| taken and Veterinary Officer's examination of herd | | 4 |
| No animal found to be responsible for infection | | 3* |
| Investigations proceeding | | 2 |
| | | - |
| | | 20 |
| | | |

*In these cases the samples were not taken direct from the farms, but from the retailers' premises.

Milk and Dairies Order, 1926.

Increasing use was made by the local Sanitary Authorities of the laboratory facilities for the bacteriological examination of samples of milk, with the results indicated below :—

| Quarter ended. | Sa | tisfactor | ry. | No. of Samples Unsatisfactory. | Total. |
|----------------|----|-----------|-----|-----------------------------------|---------|
| 31st March | | 165 | | 3(1.7%) | 168 |
| 30th June | | 201 | | 53 (20.8%) | 254 |
| 30th September | | 183 | | 143 (43.8%) | 326 |
| 31st December | | 177 | | 59 (25.0%) | 236 |
| Totals | | 726 | | 258 (35.5%) | 984 |

It will be seen that during the warm months of the September quarter nearly half the samples obtained could not be regarded as satisfactory.

Milk (Special Designations) Order, 1936.

LICENCES. During the year, the following licences were granted :--

| Kind. | | N | lo. |
|-------------------------|------|-----|-------|
| *Tuberculin Tested Milk | | 65 | (46) |
| †Accredited | | 800 | (748) |
| | | 865 | (794) |

* 19 of the Licensees were also licensed to bottle Tuberculin Tested Milk.

† 54 of the Licensees were also licensed to bottle Accredited Milk.

The figures in brackets in the above Table are for the year 1936.

Every farm from which an application for a licence has been received is inspected jointly by one of the County Health Inspectors and the appropriate local Sanitary Inspector, when agreement is reached as to the improvements, if any, which are required.

The Milk Special Sub-Committee has adopted the practice of not granting a licence until a certificate is received from the Local Sanitary Authority to the effect that they are satisfied that the premises comply with the Milk and Dairies Order, 1926.

TUBERCULIN TESTED MILK AND ACCREDITED MILK. Surprise visits were paid to farms which were licensed to produce Tuberculin Tested Milk and Accredited Milk by the County Health Inspectors, when samples of milk were obtained. Routine samples were also obtained by the Assistant District Veterinary Officers, and the Weights and Measures Inspectors obtained samples from central depots and in course of delivery. All these samples, with a few exceptions, were submitted to the Methylene Blue Reduction Test only, with the following results :—

(a) Tuberculin Tested Milk.

| Quarter ended. | No. | of Sam taken. | No. Sat factory | No. unsatis- factory. |
|----------------|-----|------------------|--------------------|--------------------------|
| March 31st | | 30 | 28 | 2 (6.6%) |
| June 30th | | 95 | 76 | 19 (20.0%) |
| September 30th | | 71 | 48 | 23 (32.4%) |
| December 31st | | 38 | 36 | 2 (5.3%) |
| Totals | | 234 | 188 | 46 (19.7%) |

| (b |) A | lccred | lited | M | ilk. |
|----|-----|--------|-------|---|------|
|----|-----|--------|-------|---|------|

| Quarter ended. | N | o. of San taken. | | | No. unsatis- factory. | |
|----------------|-----|---------------------|-----|-------|--------------------------|-------------------|
| March 31st | | 976 | | 930 | 46 (4.7%) | |
| June 30th | | 1,018 | | 877 | 141 (13.9%) | |
| September 30th | 1 | 1,257 | | 756 | 501 (39.9%) | |
| December 31st | •• | 763 | • • | 704 | 59 (7.7%) | |
| Totals (193 | 37) | 4,014 | | 3,267 | 747 (18.6%) | |
| Totals (193 | 36) | 2,882 | | 2,370 | 512 (17.7%) | (Bacteria Count). |

The reduced number of samples taken in the December quarter was due to the outbreaks of Foot-and-Mouth Disease, when routine visits to farms were stopped.

It will be seen that the highest percentage of unsatisfactory samples occurred during the two summer quarters, when more care is needed in methods of milk production if satisfactory results are to be maintained.

After the first unsatisfactory sample, a letter of caution is sent to the farmer and a further sample is obtained. After the second consecutive unsatisfactory sample, a stronger letter of caution is sent and the farmer is advised to consult the Principal of the East Anglian Institute of Agriculture. Most farmers readily avail themselves of these free advisory facilities. After the third consecutive unsatisfactory sample, particulars are submitted to the next meeting of the Milk Special Sub-Committee, who interviewed several farmers during the year.

1937 was regarded as an experimental year, in view of the new test (Methylene Blue Reduction Test) which superseded the Bacteria Count from 1st January, 1937. There were many criticisms of this simple and quick test, contending that it was unfair to the producer, which led the Committee to instruct the Bacteriologist at the East Anglian Institute of Agriculture to undertake and report upon certain research work. The report included the following conclusions :—

- "(1) The present accredited standard is shown to be more severe than the old Grade A standard.
- (2) The greater severity of the new test is due to the small sample bottles containing milk being kept at atmospheric temperature for 12 or 18 hours. Of the 28 samples in Chart 4, judged satisfactorily by the keeping quality test, an approximately correct statement is given by the Methylene Blue Test on iced samples and also by the plate count on iced samples, but both these tests give a wrong conclusion on samples held for 18 hours at atmospheric temperature. Icing of all samples is advocated.
- (3) The change from the plate count to the Methylene Blue Test does not, in itself, significantly alter the standard.
- (4) It is desirable to use a number of different tests for grading milks. No single bacteriological test in use at present gives all the information

needed. The Methylene Blue Test on iced samples could be used as a "weeding out" test and supplemented by a Keeping Quality Test on samples which fail. The Methylene Blue standard *might* then be raised slightly, but only those samples which fail both the Methylene Blue and the Keeping Quality Tests should be definitely condemned."

A copy of the above-mentioned report was forwarded to the Ministry of Health and County Councils Association. Members of the Milk Special Sub-Committee subsequently attended at the Ministry of Health and discussed the position generally. Later, the Ministry issued a statement which, with their approval, was published in the Essex Farmers' Journal. The following extracts have been taken from that statement :—

> "The Ministry are not prepared to admit that the Methylene Blue Reduction Test or the instructions relating to the treatment of samples before examination, are too severe.

> "In the opinion of the Ministry, no difficulty should be experienced by producers in securing that samples of milk from their farms, taken during the winter months, comply with the Methylene Blue Reduction Test carried out in accordance with the Order and the instructions. Difficulty would, however, be experienced in the summer months if correct methods and care were not employed.

> "With regard to the period which must elapse under the Order before the Methylene Blue Test is applied to unbottled milk, it is understood that the intention of the Regulations is to secure that the milk, when delivered to the consumer, shall comply with a certain bacteriological standard, which is a convenient measure of the care which has been taken in its production and distribution

> "In the opinion of the Ministry, in order to secure, throughout the year, samples of the requisite degree of cleanliness, adequate equipment, such as the steam steriliser, is necessary. A steam steriliser cannot be specifically insisted upon under the Order, but its absence may make it impossible to comply with the bacteriological requirements of the Order and so imperil the producer's licence. A producer will find the provision of proper equipment essential to the production of milk to the requisite degree of cleanliness during the summer months.

> "In regard to the question of the cleansing of churns before use by a producer licensed under the Order, notwithstanding the requirement which the Milk and Dairies Order, 1926, places upon milk purchasers to cleanse churns and receptacles, the obligation rests on the producer of complying with the bacteriological standard prescribed by the Order. As the Milk (Special Designations) Order, 1936, authorises samples to be taken before the churns or other containers are opened by the dealer, it is in the producer's own interest, in order that his licence should not be jeopardised, to cleanse adequately and sterilise the churns."

In all these circumstances, the Committee did not revoke any licence during the year owing to unsatisfactory samples, but interviewed several farmers and instructed the Clerk of the County Council to forward cautionary letters to those farmers from whom unsatisfactory results had been obtained. In one instance, where the farmer, who was also a dealer, failed to mark the cows and keep a register of the herd, and where there were other unsatisfactory features, the Committee decided to revoke the licence. The farmer appealed to the Ministry of Health, and the licence lapsed before the appeal could be heard. The Committee's refusal to grant a licence for the year 1938 was upheld by the Ministry of Health.

WATER SUPPLIES AT LICENSED FARMS. Two special reports were submitted to the Milk Special Sub-Committee dealing with water supplies at licensed farms in Borough, Urban and Rural Districts. Reference was made to the requirements of the Milk and Dairies Order, 1926, that "all registered premises shall be provided with a supply of water suitable and sufficient for the requirements of this Order" and "every receptacle used for the storage or conveyance of water shall be emptied and "cleansed from time to time as often as may be necessary."

Valuable assistance was rendered by the local Sanitary Inspectors who supervised all necessary improvements to private supplies where required.

The conclusions of these two special reports were as follows :--

(a) Borough and Urban Districts.

Every tank in which water is stored at all the licensed farms is now provided with a tightly fitting cover, and where necessary, has been cleaned out. Also, all necessary improvements to shallow wells have been carried out.

In the following table are given figures comparing the position in respect to the water supplies found at the primary inspections with the conditions obtaining at the time of this report :---

| | | | | Position. | | | | | |
|----------------|--------------|------------|----------|---------------------|----------|-------------|--|--|--|
| | | | A Iı | t prima nspectio | ry n. | At present. | | | |
| Public mains | | | | 180 | | 182 | | | |
| Private deep b | oreholes | | | 7 | | 7 | | | |
| Shallow wells | | | | 36 | | 28 | | | |
| Other sources, | e.g., spring | gs, brooks | , rivers | | | | | | |
| and ponds | | | | 19 | •• | 15 | | | |
| Total | | | | 242 | | 232 | | | |

Of the above-mentioned 232 sources of supply, there are at the present time 14 farms with water supplies which I am not yet in a position to certify as satisfactory, namely :---

| Source. | | | No | of Farms. |
|---------------|---|------|------|-----------|
| Shallow wells | | | | 7 |
| Springs | | | | 4 |
| Brooks | | | | 2 |
| River | | | | 1 |
| | | | | |
| | Т | otal | | 14 |

In 4 cases further improvements are being carried out, in 5 cases (including the supplies from brooks and river), efforts are being made to connect to public mains, and in 5 cases, existing sources have been improved and protected as no alternative source is available. In each of the last-named cases, the farmer has been asked to give an undertaking to obtain a better supply of water if and when it becomes available within a reasonable distance.

(b) Rural Districts.

Every tank in which water is stored at all the licensed farms is now provided with a tightly fitting cover, and where necessary has been cleaned out. Also, all necessary improvements to shallow wells and springs have been carried out.

In the following table are given figures comparing the position in respect of the water supplies found at the primary inspections with the present conditions :—

| | | | | | | sition. | |
|------------------|---------|----------|---------|---------|---------------------|---------|------------|
| | | | | A Iı | t primary spection. | A | t present. |
| Public mains | | | | | 248 | | 258 |
| Private deep bor | reholes | | | | 22 | | 23 |
| Shallow wells | | | | | 233 | | 199 |
| Other sources, | e.g., | springs, | brooks, | riv | ers | | |
| and ponds | | | | | 122 | | 107 |
| | | | | | 625 | | 587 |

Of the above-mentioned 587 sources of supply, there are at the present time 72 supplies which I am not yet in a position to certify as satisfactory, namely :—

| Source. | | | No. | of Supplies. |
|---------------|---|--------------------|-----|--------------|
| Shallow wells | · | | | 41 |
| Springs | | | | 17 |
| Brooks | | an aller for a | | 5 |
| Ponds | | | | 2 |
| Rain water | | | | 5 |
| Rivers | | | | 2 |
| | | | | _ |
| | | | | 72 |

In the case of the 58 unsatisfactory shallow wells and springs, all possible improvements have been or are being carried out, and where possible efforts are being made to connect to the public mains. In many cases further improvements and the taking of further samples are in hand.

Of the remaining 14 unsatisfactory cases (*i.e.*, supplies from brooks, ponds, rivers and rainwater) one supply is only used when the existing satisfactory supply fails, and in the other cases undertakings have been received to connect to the public mains when they are available.

Further improvements have taken place since these reports were issued, and the comprehensive schemes of water supply provided or adopted by nearly all the Rural District Councils have enabled or will enable many farms to obtain water from public mains.

CONFERENCE WITH RURAL DISTRICT COUNCILS. A conference between members of the Public Health and Housing Committee and representatives of the Rural District Councils in Essex was held at Essex House on 18th February, 1937. It arose from the suggestion contained in a letter, dated 26th March, 1935, from the Rural District Councils Association to the effect that "a conference should be 'arranged to agree a standard as to premises, *i.e.*, construction, ventilation, lighting, 'standings, cubic capacity, &c., and any standard agreed on should form the minimum 'requirements for all premises where milk graded or ungraded is produced."

It was decided that the Essex Branch of the Sanitary Inspectors' Association should be asked to consider these matters and submit a report. It was also agreed that the results of the examination of all samples of milk obtained by the County Council's Inspectors should be transmitted regularly to the local Medical Officers of Health and local Sanitary Inspectors.

Milk-in-Schools Scheme.

This Scheme has been readily accepted by, and received the full co-operation of practically all the Head Teachers, upon whose willing help the success of the Scheme must depend. As a result of these efforts, the following numbers participate in the Scheme :---

- (a) Number of schools under the Milk Marketing Board Scheme, 498, an increase of 15. Number of children participating, 43,384, an increase of 5,022.
- (b) Number of schools not necessarily under the Milk Marketing Board Scheme, 95. Number of children participating, 4,167.
- (c) Number of schools not participating in the Milk-in-Schools scheme 20
 - Number of children attending thereat 1,245

The County Medical Officer, after consulting the local Medical Officers of Health, issued during the year 151 certificates approving of the source and quality of the milk supplied. On 31st December, 1937, there were 535 certificates in operation under the scheme.

During the year samples of milk, as delivered to schools under the Milk-in-Schools Scheme, were obtained and examined, with the following results :---

> (a) Biological Examination. Number of samples examined 573, of which 53 gave inconclusive results. 22 samples (4.2%) were found to contain tubercle bacilli, the percentage for 1936 being 4.4. For economical reasons, pasteurised milk was not submitted to biological examination this year. Prompt action was taken by the Chief Veterinary Officer

with a view to eliminating from the herds concerned any cow which was found to be excreting tubercle bacilli in the milk.

- (b) Bacteria Count. Since 1st January, 1937, in accordance with the Milk (Special Designations) Order, 1936, Pasteurised Milks only are submitted to the Bacteria Count, the standard for which is that the milk shall be found to contain not more than 100,000 bacteria per millilitre. Number of samples of Pasteurised Milk examined 247, of which 20 (8.5%) failed to comply with the standard. In each of the unsatisfactory cases, representations were made to the Local Medical Officer of Health concerned, and further samples were obtained, with satisfactory results.
- (c) Methylene Blue Reduction Test. All samples of milk, other than Pasteurised Milk, have since 1st January, 1937, been submitted to the Methylene Blue Reduction Test, which is a test prescribed for Tuberculin Tested Milk and Accredited Milk by the Milk (Special Designations) Order, 1936. Number of samples examined 455, of which 66 (14.5%) failed to comply with the standard laid down in the before-mentioned Order. In each of the unsatisfactory cases, representations were made to the Local Medical Officer of Health concerned, and further samples were obtained, with satisfactory results.
- (d) Coliform Bacteria Test. 440 of the 455 samples referred to in (c) above were also submitted to the Coliform Bacteria Test for Tuberculin Tested Milk and Accredited Milk by the Milk (Special Designations) Order, 1936. 48 (10.9%) failed to comply with the standard laid down in that Order. In each of the unsatisfactory cases, representations were made to the Local Medical Officer of Health concerned, and further samples were obtained, with satisfactory results.
- (e) Chemical Test. The following paragraph has been extracted from the Annual Report of the County Analyst :---

"Among the numerous samples taken from deliveries to 'schools or public institutions, only four were found to be watered, 'three to a comparatively small extent only (2 to 5 per cent.), but 'in one case to the extent of as much as 17 per cent. of added 'water. Sixty-three of the samples of milk delivered to schools 'or institutions which showed no evidence of added water were 'deficient in milk fat in proportions ranging up to over 40 per 'cent. of the quantity indicated in the Sale of Milk Regulations.

"Deducting 67 samples from the 910 samples of milk delivered to schools or institutions, the 843 remaining samples were all in conformity with the regulations inasmuch as that they contained not less than 3 per cent. of milk fat, but among these samples there were 93 in which the percentage of fat was less than 3.25, which was understood to be the minimum percentage required in the contracts under which the milk was supplied."

FOOD AND DRUGS.

The Administrative County is divided into two districts for the sampling of Food and Drugs, namely, Eastern and Western Districts. The following statistical information relating to this work has been kindly furnished by the County Analyst Dr. Bernard Dyer, 17, Great Tower Street, London, E.C. (Telephone No. Royal 6608), and relates to the year 1st December, 1936, to 30th November, 1937 :—

| | amples nalysed. | τ | Samples Insatisfactory. | Percentage of Unsatisfactory Samples. |
|--|--------------------|-----|----------------------------|---|
| Eastern District of the County | 2256 | | 122 | 5.4(7.1) |
| Western District of the County | 2583 | | 81 | 3.1 (1.8) |
| Borough of Barking | 1 | | 1] | |
| Borough of Ilford | 6 | | _ x | |
| Borough of Walthamstow | 81 | | 4 | 1 8 /0 0) |
| Borough of Wanstead and Woodfor | rd 26 | | | ↓ 4.8 (9.0) |
| Chingford U.D | 10 | | | |
| Dagenham U.D | 1 | • • | 1 | |
| | 4964 | | 209 | 4.2 (4.3) |
| " Appeal to Cow " milk samples : | | | | |
| Eastern District of the County | 37 | | | |
| Western District of the County | 9 | | | |
| Borough of Walthamstow | 2 | | | |
| 0 | | | | |
| | 48 | | | |
| Samples taken from Schools or Institutio | ons : | | | |
| Eastern District of the County | 653 | | 56 . | . 8.6 |
| Western District of the County | 257 | | 11 . | . 4.3 |
| | 910 | | 67 . | . 7.4 |
| Total | 5922 | | 276 | |

The figures in brackets refer to the year 1936.

The above table shows that during 1937 the number of unsatisfactory samples examined decreased slightly, the percentage being 4.2 per cent. compared with 4.3 per cent. in 1936.

The following are interesting extracts from the Annual Report of Dr. Bernard Dyer, the County Analyst :--

"MILK. The 138 unsatisfactory samples of milk taken from vendors (or occasionally on delivery to vendors) included 69 samples containing added water.....Sixty-nine other samples showed deficiencies in fat.

COOKING FATS OR LARD SUBSTITUTES. Six samples of cooking fats sold as lard substitutes or under fancy names or descriptions suggesting an affinity to lard were found to contain from 7 to 9 per cent. of water. SAUSAGES. Six samples of sausages sold without notice of preservation were found to contain sulphur dioxide in quantities varying from 50 parts to 300 parts per million, being, however, in no case beyond the limit allowable when due notice is given of the presence of preservative. One of these samples, containing 290 parts per million of sulphur dioxide, was, despite this, unfit for food, having an offensive smell indicating either that the sausages themselves were stale or that the meat from which they had been made had not been fresh.

CHOCOLATE CONFECTIONS. Forty-one samples were analysed of confections bearing the name of 'chocolate', such as 'Chocolate Roll', 'Chocolatecovered Roll', 'Chocolate Swiss Roll', 'Chocolate Sponge' or 'Chocolate Sandwich'. Of these samples eleven yielded no evidence of the presence of the essential constituent of chocolate, namely, cocoa, although in most cases they were stained brown and sometimes flavoured in such a way as to indicate the presence of chocolate.

GROUND ALMONDS. Out of 109 samples of ground almonds six were found to consist of or to contain ground arachis (peanut) kernels or other nuts than almonds, while one sample purchased as 'ground almond substitute' was found to consist of oatmeal, this, however, being no doubt due to an error in serving the article.

VINEGAR. Twenty samples of vinegar were found to be unsatisfactory. Five of these, sold as 'malt vinegar', were of full strength, but were improperly described as 'malt vinegar 'inasmuch as they consisted of artificial vinegar. Three samples of real malt vinegar were deficient in strength to the extent of 5 per cent., $7\frac{1}{2}$ per cent. and 27 per cent. of the minimum quantity proper to any form of vinegar. Another sample, improperly described as 'malt vinegar', was found to be deficient in strength to the extent of 7 per cent. Three samples sold as 'table vinegar', were of full strength but consisted of artificial vinegar; one sample sold as 'spirit vinegar' was 10 per cent. deficient in strength; four samples frankly sold as 'wood vinegar' showed deficiencies ranging from 24 to 40 per cent. of acetic acid content; while three other samples sold simply as 'vinegar', showed deficiencies of 6, 25 and 33 per cent. respectively."

METEOROLOGY.

Table VIII is compiled from information kindly supplied each month by the East Anglian Institute of Agriculture, Chelmsford, from records kept at the County Meteorological Station at Chelmsford.

The year 1937 proved to be a third consecutive wet year, the total rainfall being 28.22 inches. For 1936 it was 25.17 inches, and for 1935 it was 27.32 inches. February was the wettest month, and once again August was the driest month.

This year the highest maximum temperature (88°) was reached in August, the next highest being 83° in July.

| T. | A | B | L | E | V | п | I. | |
|-----|---|---|---|---|---|----|----|--|
| 2.1 | - | - | - | _ | - | ~~ | - | |

OBSERVATIONS FROM THE COUNTY METEOROLO JICAL STATION AT CHELMSFORD.

| 10 |)37. | | 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. |
|---------------------|------|----|-----------------------|-----------------------|----------------------|----------------------|---|--------------------------------|---------------------|---------------------------------|--------------------------|------------------------|
| January February | :: | | $39.0 \\ 42.0$ | $39.0 \\ 41.0$ | 46.0 48.5 | $35.0 \\ 37.0$ | $\begin{array}{c} 54 \\ 54 \end{array}$ | 6th 3rd & 19th | 26 29 | 30th 24th | 23 22 | 3.77 3.83 |
| March | | | 39.1 | 37.4 | 45.7 | 32.8 | 59 | 20th | 25 | 23rd | 16 | 2.49 |
| April | | | 47.6 | 45.6 | 55 | 41.4 | 52.8 | 22nd | 29 | lst | 16 | 2.77 |
| May | | | 55.5 | 52.4 | 63.5 | 46.8 | 79 | 25th | 39 | 6th | 14 | 2.54 |
| June | | | 60.7 | 57.0 | 69.4 | 49.6 | 81 | 11th | 42 | 21st | 11 | 2.3 |
| July | | | 63.6 | 61 | 71.3 | 53.9 | 83 | 3rd | 44 | 31st | 10 | 1.73 |
| August | | | 64.0 | 61 | 75.3 | 54.7 | 88 | 7th | 45 | 16th | 4 | 0.71 |
| September | ••• | | 58.5 | 55.6 | 67.4 | 48.1 | 80 | 7th | 38 | 21st & 23rd | 15 | 1.28 |
| October | | | 52.0 | 50.2 | 60.0 | 46.5 | 68 | 2nd | 32 | 18th | 17 | 1.21 |
| November | ••• | •• | 40.9 | 40.4 | 48.2 | 33.9 | 58 | 2nd & 3rd | 23 | 21st | 13 | 1.93 |
| December | | | 37.0 | 36.6 | 41.9 | 32.7 | 53 | .23rd | 22 | 15th & 20th | 27 | 3.66 |
| TOTAL- | | | | | | | | | | | | |
| Year 1937 | | | | | | | | | | | | 28.22 |
| 1936 | | | | | | | | | | | | 25.17 |

WATER SUPPLIES.

During the year three Rural District Councils made application to the Ministry of Health for sanction to borrow sums of money, a gross total of £55,600, for works of water supply. Public Inquiries were held on the dates shown in the following table :--

| Date of Inquiry. | Local Sanitary Authority. | | Joan Juired. | Purpose. |
|---------------------|------------------------------|-----|-----------------|---|
| 1937. May 6th | Braintree R | 36 | £ 5,000 | Water Supply—Parishes of Great Cogges- hall, Little Coggeshall, Feering, Kelvedon, Stisted, Pattiswick, Bradwell, Cressing, Black Notley and White Notley. |
| Dec. 10th | Halstead R. | 1 | ,500 | Water Supply—Parish of Bures Hamlet. |
| Dec. 15th | Saffron Walden R. | 18 | 3,100 | Water Supply. |
| | | £55 | 6,600 | |

GAUGING OF RIVERS. Negotiations were continued with the Essex Rivers Catchment Board and with the Ouse Catchment Board regarding the gauging of rivers with the following results :--

> *Essex Rivers Catchment Board.* The County Council agreed to contribute, in pursuance of Section 33 of the Land Drainage Act, 1930, towards the cost of the installation by the Essex Rivers Catchment Board of a gauging station on the River Colne at a total estimated cost of £1,648 16s. 4d.

Ouse Catchment Board. The Engineer to the Ouse Catchment Board has been interviewed, when the County Council's objects were explained. The Engineer has promised to prepare a report for presentation to the Ouse Catchment Board.

Consulting Engineer. The County Council considered it desirable to authorise the County Medical Officer of Health to engage the services of Mr. J. Mackworth Wood, Consulting Engineer, in connection with consultations relative to the proposed gauging of certain rivers within the Administrative County.

SCHEMES. In September, 1937, a Special Report was presented to a Sub-Committee of the Public Health and Housing Committee, showing that in 1934 the County Council, on the recommendation of the Public Health and Housing Committee, appointed Mr. J. Mackworth Wood, M.Inst.C.E., Consulting Engineer, to carry out a detailed survey of the water supplies in the Rural Districts in the Administrative County. In a report, dated September, 1934, Mr. Mackworth Wood published the results of this survey and gave details of the water supply, if any, provided in every parish in each Rural District.

Meanwhile, in view of the shortage of water supplies due to the drought in the years 1933 and 1934, several Rural District Councils began the preparation of schemes to provide further piped water supplies. To encourage and assist Rural District Councils in this direction, the Minister of Health obtained power under the Rural Water Supplies Act, 1934, to make contributions towards expenditure incurred by Local Authorities in providing or improving supplies of water in rural localities. For that purpose the Minister set aside the sum of £1,000,000. Experience proved that the amounts of grants allocated to the Rural District Councils expressed as percentages of the estimated cost of the schemes, decreased as the sum of £1,000,000 became exhausted. In one instance, namely, in the Halstead Rural District, the Rural Council delayed submitting their comprehensive scheme, estimated to cost £134,000; therefore, the Minister was only able to promise a very small grant, namely, £3,000, and consequently the Rural District Council abandoned the scheme. The County Council undertook to contribute grants at least equivalent to those promised by the Ministry of Health.

According to the latest available figures, the estimated cost of schemes and amounts of grants promised or given by the Ministry of Health towards the cost of schemes for providing water supplies in rural districts in Essex are as follows :---

| Rural District. | Estimated Cost. £ | Amount of grant from Ministry of Health. £ |
|-----------------------------------|-------------------------|--|
| Braintree R. (Northern Area) | 38,000 | 6,000 |
| Braintree R. (South-Eastern Area) | 37,360 | 1,700 |
| Chelmsford R. (Southern Area) | 43,800 | None* |
| Chelmsford (Northern Area) | 65,584 | 12,325 |
| Dunmow R. (Main Scheme) | 98,119 | 12,650 |
| Dunmow R. (Smaller Scheme) | 7,890 | 1,150 |
| Carried forward | 290,753 | 33,825 |

49

| Rural District. | | Estimate Cost. | d | Amount of grant from Ministry of Health. |
|---------------------------|--------|-------------------|-----|---|
| | | £ | | £ |
| Brought forward | | 290,753 | | 33,825 |
| Epping R. | | 6,126 | | 350 |
| Halstead R | | 4,325 | | 550 |
| Lexden & Winstree R. | | 80,700 | | None [†] |
| Maldon R. (Northern Area) | | 17,250 | | None* |
| Maldon R. (Southern Area) | | 39,950 | | 3,950 |
| Ongar R | | 13,571 | | 3,300 |
| Saffron Walden R | | 121,050 | | 10,800 |
| Tendring R | •• | 2,581 | • • | 150 |
| | | £576,306 | | £52,925 |

*Carried out without applying for financial assistance.

+Ministry of Health ruled that schemes could be carried out without financial assistance.

With the amounts promised by the Ministry of Health and at least the equivalent sums from the County Council, Rural District Councils will be helped by grants of over £100,000 in this important work.

The position so far as the provision of piped water supplies in each Rural District is concerned, is set out below. It should be noted that the reference to 'piped supplies' in this Report does not necessarily mean that every house in the parishes in which mains have been or will be laid is or will be supplied with water from that source. In other words, water from public mains will be available for the majority of the houses in some Parishes, and for only a small proportion of the houses in other Parishes.

Braintree R. There are 23 parishes in this Rural District. In 1934, a piped supply was available in eight parishes. Two comprehensive schemes for the provision of piped water supplies have been prepared, namely, (a) Northern Area, and (b) Southern Area :—

- (a) Northern Area. This scheme makes provision for a piped water supply for eight parishes. There has been some delay owing to the fact that the County Council was unable to approve of the original scheme. An amended scheme, which meets the County Council's objections, has now been submitted to the County Council.
- (b) Southern Area. This approved scheme makes provision for a piped water supply for four parishes, and for augmenting or replacing the existing supply in six other parishes.

When the above-mentioned schemes have been completed, three parishes, namely, Fairstead (population 269), Faulkbourne (population 188), and Markshall (population 52), will be the only parishes in this Rural District without the nucleus of a piped water supply.

Chelmsford R. There are now 27 parishes in this Rural District. In 1934 a piped water supply was available in fourteen parishes. Five schemes for the provision

of piped water supplies have been prepared and three of these have been completed. The remaining two schemes are now in hand and when completed, a piped water supply will be available in every parish in this Rural District.

Dunmow R. There are 25 parishes in this Rural District. In 1934 a piped water supply was available in six parishes. A comprehensive scheme has been prepared, and is now in hand. When this scheme is completed, every parish in the Rural District will be provided with at least the nucleus of a piped water supply, except the parishes of Chickney, with a population of 37. and Tilty, with a population of 71.

Epping R. There are 14 parishes in this Rural District. In 1934 every parish was provided with a more or less complete piped water supply except Little Parndon (population 128), which is dependent upon shallow wells. Two schemes for extending mains in four parishes have been carried out.

Halstead R. There are 40 parishes in this Rural District. In 1934 a piped water supply was available in five parishes. Under small schemes, public mains were extended from Helions Bumpstead to Steeple Bumpstead, and the source of the existing water supply at Castle Hedingham was augmented by sinking a borehole and providing the necessary pumping plant.

A comprehensive scheme for the provision of piped supplies for most of the parishes in the Rural District, at an estimated cost of £134,000, was prepared and abandoned owing to the small amount of grant, namely, £3,000, promised by the Ministry of Health.

Thirty-four of the 40 parishes in this Rural District are left without at least the nucleus of a piped water supply.

Lexden & Winstree R. There are 34 parishes in this Rural District. In 1934 a piped water supply was available in 12 parishes.

Three comprehensive schemes have been carried out by the Rural District Council without any grant from the Ministry of Health or the County Council. All the schemes, with one exception, are more or less intercommunicating, and the whole area with the exception of the parishes of East Donyland and East Mersea could be supplied from the principal source in the Stour Valley. The only parish left without a piped water supply is the isolated parish of East Mersea (population 228).

Maldon R. There are 30 parishes in this Rural District. In 1934 a piped water supply was available in 18 parishes.

Two comprehensive water schemes have been carried out, and replacements of and extensions to existing mains have also been undertaken. Every parish in this Rural District, except the parish of Ulting, which is a scattered parish with 44 houses, is now provided with at least the nucleus of a piped water supply.

Ongar R. There are 26 parishes in this Rural District. In 1934 a partial piped water supply was available in 11 parishes.

Schemes have been carried out to provide piped supplies to four additional parishes. A comprehensive scheme for the remainder of the district was prepared, but was abandoned owing to the cost. A further comprehensive scheme is now in course of preparation, and if this is carried out it will leave only four parishes, namely, Abbess Roding (population 169), Beauchamp Roding (population 173), Berners Roding (population 81) and Stapleford Tawney (population 192) without at least the nucleus of a piped water supply.

Rochford R. There are 14 parishes in this Rural District. In 1934 every parish had a more or less piped supply, with the exception of Havengore, which contains only three houses, accommodating 14 persons, and Paglesham, which contains only 92 houses, accommodating 301 persons.

Saffron Walden R. There are 33 parishes in this Rural District. In 1934 a partial piped water supply was available in seven parishes.

Four schemes have been approved by the Ministry of Health, and are approaching completion. Difficulty has been experienced in obtaining pumping machinery owing to the re-armament programme; otherwise the work would already have been completed. On the completion of all these schemes, every parish in this Rural District will be provided with at least the nucleus of a piped water supply.

Tendring R. There are 24 parishes in this Rural District. In 1934 a piped water supply was available in 17 parishes.

One small scheme for extending the water mains in parishes which had piped supplies has been carried out. A comprehensive scheme for providing a piped water supply to seven parishes, at an estimated cost of £24,500, has, at the time of writing, been submitted to the County Council by the Rural District Council for consideration. If this scheme is carried out, only one parish, namely, Little Bromley (population 278) will be left without a piped supply.

Conclusion. At the time of writing this report, the position in respect to the provision of piped water supplies in each Rural District is set out in Table IX on page 53, a summary of which is given below :—

| No. of parishes with piped supplies | | 123 | | |
|---------------------------------------|-------------|--------------|---------|-----|
| No. of parishes without piped supplie | es availabl | e in 1934 | | 167 |
| Total | | | | 290 |
| No. of parishes where piped supplie | s will be a | available wł | nen all | |
| schemes are completed | | | | 241 |
| No. of parishes left without piped su | upplies | | | 49 |
| Total | | | | 290 |

Estimated length of additional mains laid or to be laid under schemes since 1934 552 miles

TABLE IX.

| Rural District. | Total No. of Parishes. | No. of Parishes with piped supplies, 1934. | No. of Parishes which will have piped supplies when schemes are completed. | No. of Parishes left without piped water supplies. | Length of additional mains laid or to be laid under Schemes since 1934. (Estimated). |
|-------------------|---------------------------|---|--|---|--|
| Braintree | 23 | 8 | 20 | 3 | Miles. 56 |
| Chelmsford | 27 | 14 | 27 | _ | 90 |
| Dunmow | 25 | 6 | 23 | 2 | 88 |
| Epping | 14 | 13 | 13 | . 1 | 1 |
| Halstead | 40 | 5 | 6 | 34 | 6 |
| Lexden & Winstree | 34 | 12 | 33 | 1 | 92 |
| Maldon | 30 | 18 | 29 | 1 | 86 |
| Ongar | 26 | 11 | *22 | 4 | 10 |
| Rochford | 14 | 12 | 12 | 2 | - |
| Saffron Walden | 33 | 7 | 33 | - | 100 |
| Tendring | 24 | 17 | 23 | 1 | 23 |
| | 290 | 123 | 241 | 49 | 552 |

LIST OF RURAL DISTRICTS SHOWING POSITION REGARDING THE PROVISION OF PIPED WATER SUPPLIES IN SEPTEMBER, 1937.

*In this area, the scheme in hand has not yet been submitted to the County Council.

SEWAGE WORKS AND RIVERS POLLUTION.

LOANS. During the year, one Municipal Borough, one Urban District and three Rural District Councils made application to the Ministry of Health for sanction to borrow sums of money, a gross total of £318,254, for works of sewerage and sewage disposal. Public Inquiries were held on the dates shown (page 54) and the County Council was represented at all the Inquiries except those in the Clacton-on-Sea area :—

VISITS TO SEWAGE WORKS. The County Health Inspectors paid 183 visits to the Sewage Works in the Administrative County, when 196 samples were obtained. It will be seen from Table X on page 55 that 138 samples were satisfactory or on border line, and 58 or 29.6 per cent. were unsatisfactory, which is an improvement on the percentage of 38.5 for 1936. Representations were made to the Local Authorities concerned regarding the unsatisfactory samples.

| Date of Inquiry. | Local Sanitary Authority. | Catchmen Area. | it | Loan required. | Purpose. |
|------------------------|----------------------------------|-------------------|----|-------------------|--|
| 1937. February 11th | Braintree Rural | Brain | | 38,600 | Sewerage and sewage disposal—Cressing, Black Notley and White Notley. |
| March 9th | Wanstead & . Woodford Borough | Roding | | 40,984 | Sewerage and sewage disposal. |
| May 4th | Tendring Rural | Sea | | 7,300 | Sewerage and sewage disposal—St. Osyth. |
| June 8th | Lexden & Winstree Rural | Colne | | 10,100 | Sewerage and sewage disposal—East Dony- land. |
| October 8th | Clacton-on-Sea Urban | Sea | | 27,520 | Sewage disposal. |
| November 2nd | Clacton-on-Sea Urban | Sea | | 48,500 | Sewerage—Northern Area. |
| November 4th | Clacton-on-Sea Urban | Sea | | 145,250 | Sewerage and sewage disposal—Western Area. |
| | | Total | | £318,254 | |

ESSEX COUNTY COUNCIL ACT, 1933.

Establishments for Massage and Special Treatment.

Sections 54-71 of the Essex County Council Act, 1933, regarding establishments for massage and special treatment, are in force by resolutions of the County Council, in the Boroughs of Chelmsford, Colchester, Maldon, Romford, Saffron Walden and Wanstead & Woodford, the Urban Districts of Billericay, Brentwood, Chigwell, Chingford, Clacton, Dagenham, Epping, Frinton & Walton, Hornchurch, Thurrock, and Waltham Holy Cross, and the Rural Districts of Epping and Ongar.

By Section 69, the powers and duties under this part of the Act are delegated to the Boroughs of Barking, Ilford, Leyton and Walthamstow. Conditions and restrictions to be imposed upon the exercise of the powers and duties of Part IV of the Essex County Council Act, 1933, were approved by the County Council on 6th March, 1934.

During the year ended 31st March, 1937, licences were granted to 64 applicants, authorising them to carry on establishments for massage or special treatment on the premises approved.

Refuse Dumps.

Sections 146-157 of the Essex County Council Act, 1933, in conjunction with the Third Schedule, give power for controlling the depositing of refuse in any place within the County other than the place within the County District in which the refuse is collected or assembled. In other words, it is mainly to control the dumping in Essex of refuse which has been collected in many of the London Boroughs.

TABLE X.

SHOWING SEWAGE WORKS, NUMBER OF VISITS, AND NUMBER OF SAMPLES TAKEN DURING THE YEAR 1937.

| | | | 1 | I management and antiperior | nples take | n. |
|-----------------------|----------------------------------|-------------------------------|-------------------|---|-------------------------------|--------------------|
| Catchment Area. | Sewage Works. | Sanitary District. | No. of Visits. | No. satisfac- tory or on bor- der line. | No. un- satisfac- tory. | Total. |
| Brain | Braintree | Bra'tree & Bocking U. | | 2 | 3 | 5 |
| Blackwater | Bocking | | 3 | 3 | | 3 |
| | Coggeshall | Braintree R | | 3 | - | 3 |
| | Kelvedon | Witham U | 0 | 33 | 3 | 3 6 |
| | Silver End | | 4 | 3 | 1 | 4 |
| Roding . | Abridge | "Ongar R | 4 | 4 | _ | 4 |
| | Buckhurst Hill | Chigwell U | 4 | 4 | - | 4 |
| | Chigwell | ** ** | 2 | 2 | 1 | 3 |
| | Chigwell Row | "n + c | 5 | 5 | | 5 |
| | Debden Green | | 1 | - | 1 | 1 |
| | Epping (Southern, | Epping U | 3 | 3 | - | 3 |
| | Grange Hill | Chigwell U | 3.4 | -1 | 2 4 | 3 4 |
| | Moreton | Ongar R | 1 | 1 | * | 1 |
| | North Weald | Epping R | 3 | _ | 3 | 3 |
| | Ongar | Ongar R | 1 | 1 | _ | 1 |
| | Theydon Bois | Epping R | 2 | 1 | 1 | 2 |
| | Thornwood | | 3 | 3 | - | 3 |
| | Wanstead | Wanst'd & Woodf'd B | | 4 | - | 4 |
| Chalman | Woodford | Chelmsford B. & R | 4 2 | . 4 2 | - | 4 |
| Chelmer | Chelmsford B. & R. Jt. Dunmow | Damas D | 4 | 4 | _ | $\frac{2}{4}$ |
| | Felatord | | .4 | | | * |
| | Great Waltham | Chelmsford R. | 1 | | 1 | 1 |
| | Thaxted | Dunmow R | 3 | 3 | _ | 3 |
| Fer . | Hatfield Peverel | Braintree R | - | | - | |
| Wid | Billericay | Billericay U | 2 | 2 | | |
| | Great Warley | Brentwood U | 1 | 1 | - | 1 |
| | Ingatestone | Chelmsford R | 2 | | 2 | 2 |
| | Shenfield, Hutton and Ingrave | Brentwood U. | 2 | 2 | | 2 |
| Colne | Halstead | Halstead U. | ĩ. | ĩ | 3 | 4 |
| oome | Sible Hedingham | Halstead R. | 2 | | 2 | 2 |
| | Tiptree | Lexden & Winstree R. | 3 | 2 | 1 | 3 |
| | Layer Breton | ,, ,, | 3 | 3 | | 3 |
| Stour . | Steeple Bumpstead . | Halstead R | 1 | 1 | - | 1 |
| | St. Osyth | Tendring R | 4 | 4 | - | 4 |
| Ingrebourne . Beam | Brentwood | Brentwood U Romford B. and | 2 2 | 2 4 | | $\frac{2}{4}$ |
| beam . | church Jt. | Hornchurch U. | 4 | | | * |
| Crouch | Great Burstead | Billericay U | 2 | 2 | _ | 2 |
| | Laindon | ,, | 3 | 1 | 2 | 3 |
| Mardyke | Bury Farm, Great Warley | Hornehurch U | 3 | 3 | - | 3 |
| | South Ockendon . | Thurrock U | 2 | 2 | - | 2 |
| | Orsett | n | 2 | 2 | - | 2 |
| Kirby Creek | Kirby-le-Soken | Frinton & Walton U. | 3 | 3 | - | 3 |
| Holland Brook | Manual | Tendring R | 4 | 4 | | $\frac{3}{4}$ |
| .am | Saffron Walden | Saffron Walden B | 2 | 2 | | 2 |
| Roach | Rayleigh (East) | Rayleigh U | 3 | 2 | 1 | 3 |
| | | | 133 | 105 | 31 | 136 |
| Other samples i | ncluding private sewage | works, rivers, streams, | | | | |
| ditches, &o. | | | 34 | 22 | 22 | 44 |
| frade effluents | ** ** ** ** | | 16 | 11 | 5 | 16 |
| | Total | | 183 | 138 | 58 | 196 |
| | | | | | | and said the state |

At the end of the year there were 13 refuse dumps in Essex which must comply with the conditions of this Act. Surprise visits are paid to these dumps from time to time, and apart from a few minor infringements, conditions were found to be satisfactory.

TOWN AND COUNTRY PLANNING.

The major subjects dealt with during the year by the Town and Country Planning Committee included the following :---

> STANDING ORDERS. Developments necessitated an extension of the Committee's powers which were approved by the County Council, and except such matters as shall involve an expenditure or liability exceeding £50, the following duties are now delegated to the Committee :—

- (i) Matters arising out of the Town and Country Planning Act, 1932,
 or otherwise relating to town and country planning.
- (ii) Matters arising out of the Air Navigation Acts, 1920 and 1936.
- (iii) Matters relating to playing fields and open spaces.
- (iv) Matters arising out of Section 144 of the Essex County Council Act, 1933.
- (v) Matters arising out of the Ancient Monuments Acts, 1913 and 1931.
- (vi) Matters arising out of the National Trust Act, 1937.

TOWN PLANNING SCHEMES.

(a) Colchester B. The County Council approved in principle the proposal that a Planning Scheme be prepared by the North-East Essex Regional Planning Committee for the built-up areas of the Borough of Colchester which are at present excluded from the area of the Regional Planning Scheme, the cost being shared equally by the Colchester Borough and the County Council.

(b) *Road Proposals*. Approval was also given to the County Council accepting financial responsibility for certain proposed roads of future classification importance in Saffron Walden B., Witham U., Braintree & Bocking U. and Halstead U.

Retention of the road proposals in Rural Districts, for which the County Council will be the responsible authority, provided for in the planning schemes for the North-East Essex, Mid-Essex and North-West Essex Regional Planning Areas, and in other schemes which have arrived at a similarly advanced stage was approved under certain conditions.

Financial responsibility was accepted by the County Council under Town Planning Schemes in respect of widths and building lines of existing or proposed County roads in Benfleet U., Burnham-on-Crouch U., Maldon B., Clacton-on-Sea U., Waltham Holy Cross U.

LONDON "GREEN BELT" PROPOSALS. The policy of acquiring or sterilising a number of large estates approximately equidistant from London and linking them up as far as possible with each other and with existing open spaces was continued. Recommendations to purchase or sterilise the following estates were approved :—

(a) To be purchased.

| Hainault-Havering Se | ector | 1 | 500 acres. |
|----------------------|---------|---|-----------------------------|
| Thorndon Park | | | 373 ,, |
| Theydon Bois Northe | rn Link | { | 65 ,, 180 ,, |
| Epping-Hainault Lin | k | | $16\frac{1}{2}$,, 55 ,, |

(b) To secure sterilisation from development.

| Epping-Hainault Link | 93 ¹ / ₄ acres at Theydon Bois. |
|----------------------|--|
| | 21 acres at Lambourne |

End.

Green Belt proposals or purchases in the Administrative County of Essex now include 19,772 acres.

OPEN SPACES. Contributions not exceeding 20 per cent. were promised by the County Council towards the cost of purchasing open spaces in Benfleet U., Chigwell U., Hornchurch U. and Thurrock U.

It was decided to purchase $344\frac{1}{2}$ additional acres to extend the County Council's properties and open spaces in the Langdon Hills area.

PLAYING FIELDS AND RECREATION GROUNDS. Approval was given to making contributions to the Urban District of Chingford, and the Rural Districts of Chelmsford, Maldon and Tendring towards the cost of acquisition of playing fields, subject in each case to facilities being granted to the satisfaction of the Education Committee for the use of the grounds by children of neighbouring elementary schools for play and organised games.

PRESERVATION OF WINDMILLS. Orders were made by the County Council under Section 17 of the Town and Country Planning Act, 1932, to the effect that the Upminster and Ramsey Windmills being buildings of special architectural or historic interest shall not be demolished without the consent of the Essex County Council.

ADVISORY REGIONAL PLANNING COMMITTEES. The Essex County Council notified the Ministry of Health that they concurred in the proposal for the establishment of a Greater London Standing Conference on Regional Planning to replace the Greater London Regional Planning Committee, which has since been formed and a number of Meetings held.

MENTAL DEFICIENCY.

The arrangements for ascertainment, medical examination and furnishing of reports on persons suspected of mental defect have continued. The services of Dr. T. P. Puddicombe, Deputy County Medical Officer, have again been available to the Statutory Committee for the Care of the Mentally Defective and to the Courts of Justice for investigation, examination and recommendations on cases referred as possibly mentally defective.

Dr. A. R. Forbes has, during the year, again rendered valuable assistance in this work. The table set out below and compiled from the medical reports shows that 347 persons were examined under the Mental Deficiency Acts :---

| | No | . Examin | be | *The figures given in Columns (1), (2) and (3) include the following : | | | | | | | | | | |
|-----------------------------------|---------------|-----------------|--------------------|---|--------------------|-----|-----------|------------------------|------------------------|----------|-----------|--|--|--|
| | | | | | eferred lastices f | | ic | alitic. | pastic Tetraplegic. | | tia. | | | |
| Diagnosis. | Males. (1) | Females. (2) | * Total. (3) | | F. | | Epileptic | Post- Encephalitic. | Spastic Tetral | Mongols. | Dementia. | | | |
| Feeble-minded | 96 | 101 | 197 | 15 | 1 | 16 | 8 | 2 | - | _ | _ | | | |
| Imbeciles | 64 | 29 | 93 | - | - | - 1 | 3 | 4 | 1 | 14 | - | | | |
| Idiots | 8 | 13 | 21 | - | | _ | 2 | 1 | - | 1 | - | | | |
| Moral Defectives | - | 1 | 1 | - | - | - | - | - | - | - | | | | |
| Not Certifiable under the Acts | 19 | 16 | 35 | 12 | 4 | 16 | - | _ | - | - | 2 | | | |
| Totals | 187 | 160 | 847 | 27 | 5 | 32 | 13 | 3 | 1 | 15 | 2 | | | |

The Essex Voluntary Association for Mental Welfare has again rendered valuable and appreciated services in connection with ascertainment and preliminary investigation of cases, boarding out, voluntary and statutory supervision, occupational centres, convalescent and other treatment, &c. As from the 1st April, 1938, the County Council resumed such of their functions as they had either delegated or assigned to this Association and took over the latter's salaried staff.

The Occupational Centres at Barking, Dagenham, Romford and Walthamstow (two—Junior and Senior Boys' Handicraft Class) have continued and preliminary arrangements were made for the establishment of a Senior Boys' Handicraft Class at Dagenham. Useful training is provided at these Centres for children of suitable grade and the mothers accordingly benefit by being relieved of the care of the children during their busy hours.

Institutional accommodation has again become limited for the number of cases needing admission, and the Committee has obtained the approval of the Minister of Health to the provision of a further two patients' villas at Turner Village, Colchester.

The need for the provision of suitable accommodation for the very young with gross mental defect is still a matter for remedy. These children are unsuitable for boarding out under guardianship and are a continual difficulty in their own homes or in unsuitable surroundings in certain Public Assistance Institutions. At the end of 1937 the Statutory Committee was responsible for the care and control or supervision of 2,077 persons, an increase of 127 on the previous year. These afflicted persons are dealt with under the following headings :—

| | Male. | Female. | Totals. |
|---------------------------------|---------|---------|-----------|
| In Institutions | 468 | 347 | 815 |
| Under Statutory Supervision | 633 | 498 | 1,131 |
| Under Guardianship | 24 | 21 | 45 |
| Under Licence from Institutions | 35 | 51 | 86 |
| | 1,160 | 917 | 2,077 |
| | | | |

Of the 2,077 defectives referred to above, 88 were placed in Institutions, 8 under Guardianship and 132 under Statutory Supervision during the year.

MENTAL TREATMENT ACT, 1930.

The previous arrangements whereby Dr. R. C. Turnbull and Dr. W. G. Masefield, Medical Superintendents of the Severalls and Brentwood Mental Hospitals, attend certain clinics to conduct Out-Patient Consultative Clinics have continued. These Clinics have again rendered valuable services to the patients and advice to the practitioners concerned.

The reports of the Consultants on the work carried out at the Clinics are as follows :---

Dr. R. C. Turnbull.

"The Clinic at the Colchester Hospital is held at 3 p.m. on Mondays and during the year 1937, 110 individual patients attended for diagnosis and treatment. The average attendance at the Clinic was eight per session.

The Clinic at the Chelmsford Hospital is held at 2.30 p.m. on Wednesdays, and during the past year 98 individual patients attended for diagnosis and treatment. The average attendance was six per session.

In addition to the patients seen at the Clinics, I have, from time to time, visited and examined cases at various Public Assistance Institutions, and at County Hospitals when required.

I am indebted to Dr. Penrose, Director of the Research Department of the Royal Eastern Counties Institution, for his continued willingness to give me assistance in dealing with mentally defective children who have been sent to the Clinics for advice."

Dr. W. G. Masefield.

"The Clinic at Oldchurch County Hospital, Romford, has been held weekly on Fridays at 2.30 p.m., and during 1937 I saw 94 men and 239 women, which included 37 male and 110 female in-patients of the Hospital.

At the Woodford Clinic (held fortnightly on first and third Tuesdays at 3 p.m.), 44 patients were seen—13 males and 31 females. I or my deputy continue to attend the Orsett Clinic as and when required, the majority of the cases being in-patients of the Public Assistance Institution."

BLIND PERSONS ACTS, 1920-1938.

Resulting from the publication of the Report on the Prevention of Blindness by the Standing Committee of the Union of Counties Association of the Blind and the Ministry's Circular No. 1621, the County Medical Officer submitted a report to the Blind Persons Act Committee in November, 1937.

With the adoption of the proposals outlined in the Report a determined effort is being made to correlate the ophthalmic services from infancy through the school years and adolescence into adult life, thus making provision for the defectively sighted, uninterruptedly, to be under the ægis of specialist ophthalmic supervision as part of the County scheme for assisting in the prevention of blindness.

Moreover, the Blind Persons Act Committee is prepared, in furthering the objects of the scheme, to arrange for the County ophthalmic services to be available for the indigent poor, to assist in the provision of spectacles where necessary, and to make arrangements for the ascertainment and treatment of persons threatened with blindness.

During the year the ophthalmic department of Oldchurch County Hospital has been used to an unprecedented extent in the treatment of surgical ophthalmic cases. Operative treatment has been given to squints, cataracts, glaucomas and, in particular, to detachments of the retina, with uniformly satisfactory results.

Mr. G. A. Jamieson, M.B., D.O.M.S., D.L.O., commenced duty on the 1st March, 1937, as whole-time Ophthalmic Specialist and as a result of the above-mentioned Report, it was agreed to appoint a further whole-time Specialist and also obtain parttime service to the extent of two sessions per week. Mr. J. H. Young, M.B., B.S., D.O.M.S., has since commenced duty as whole-time Ophthalmic Specialist on 1st June, 1938, and Mr. R. S. MacLatchy, M.R.C.S., L.R.C.P., as part-time on 25th April, 1938.

The liaison that exists between the County Ophthalmic Specialists and the London Hospital has been of inestimable benefit in referring cases under the Blind Persons Act for further consultative opinion and investigation.

Arrangements have now been made for the dental care of the blind, and applications are continually being received from patients seeking to avail themselves of the opportunity for treatment. Where the patients are not being treated by a private dental practitioner, arrangements are made for the treatment to be carried out by the County whole-time Dental Staff.

In all cases an estimate of the cost of dental treatment is obtained before permission is granted to complete the work. It is hoped that, after the scheme has been working for some time and has become generally known, these patients will automatically apply for treatment by the County Staff. This will result in considerable economy to the Committee since the supply of dentures will be at production cost.

The Home Teachers for the Blind at the end of 1937 numbered nine-females, eight, male, one.

During the year under review 413 persons were examined by specialists, and occupational training was given to 41 persons for various periods.

On the 31st March, 1938, the Blind Persons Register showed a total of 1,753 (males 867, females 886), being an increase of 89 (males 57, females 32) over the previous year. Of these 1,688 (males 821, females 867), are over 16 years of age, of whom 1,397 (males 592, females 805), are classed as unemployable.

Of the 1,397 cases recorded as unemployable, 27 were maintained in Homes for the Blind, 32 in Mental Hospitals and 77 in Poor Law Institutions.

The net increase of 89 on the Register is the result of the addition of 237 and removal of 148 names.

Of those removed from the Register, 99 have died, 43 have removed to other areas and two were re-classified as not coming within the definition of a blind person under the Act.

Cases under observation for the prevention of blindness number 602, as against 559 for the previous year, a net increase of 43, the result of the addition of 88 new cases less the removal of 45 cases from the list.

On the 1st April, 1938, a new Act came into operation, viz. the Blind Persons Act, 1938, the main features of which are as follows :---

- (1) Old Age Pensions. The age at which a blind person becomes eligible for an Old Age Pension has been reduced from 50 to 40 years.
- (2) Domiciliary Financial Assistance. Councils are required to take into account not only the needs of the blind person but also the needs of any dependent members of his household.
- (3) Funeral Expenses. Councils are empowered to pay or to contribute towards the funeral expenses of a blind person or his dependants.
- (4) Assistance to be provided exclusively under the Blind Persons Act. All assistance other than assistance in an institution or medical assistance shall be provided exclusively by virtue of the Blind Persons Act and not by way of poor relief.

PROPAGANDA.

A National Campaign to encourage the use and appreciation of the Public Health Services was launched in the early part of the year by the Ministry of Health, who invited the Central Council for Health Education to assist. It was felt that, whilst the excellence of the work achieved by these services was well known, there was no doubt that much more could be accomplished if they were fully used. Special posters, leaflets, publications, bookmarkers were offered free of charge, and every County and Local Authority was invited to co-operate in making this Campaign a success.

. The Campaign commenced on 1st October, 1937, and ended on 31st March, 1938, each month being devoted to a specific subject as shown below :---

| October | | | Introductory. |
|-----------------|---|------|----------------------------------|
| November | 7 | | |
| and | } | | Maternity and Child Welfare. |
| December | J | | |
| January | | | School Health. |
| February and | } | | School Hygiene. Tuberculosis. |
| March | J | | Tuberculosis. |

On 29th October, 1937, a Conference of Essex Medical Officers of Health was addressed by Dr. W. A. Lethem, of the Ministry of Health. It was agreed that the carrying out of this Campaign should be through and in co-operation with the Medical Officer of Health for each Sanitary District. Subsequently, full particulars of the Campaign were forwarded to each Medical Officer of Health in that portion of the County for which the County Council is the Child Welfare Authority. The following services were placed at his disposal :--Travelling health exhibition, lecturers and demonstrators and an offer was made to co-operate in any way at public meetings, parent days at schools and at child welfare centres, clinics, &c.

The Public Health and Housing Committee approved of the expenditure of £275 for displaying large posters on advertisement hoardings in the populous centres in the County, and authorised expenditure in regard to the holding of Health Exhibitions.

The following special events were arranged in connection with this campaign :--

Health Exhibitions at 17 Centres.

Health Days at 3 Urban and 3 Rural Districts.

Public meetings, with film displays at Chelmsford (2) and Colchester.

In addition to the above campaign, the customary publicity and propaganda activities have been continued throughout the year. These included Health Exhibitions at 11 Centres in the County and 34 lectures to Women's Institutes, Nursing Associations, Mothercraft Classes, &c.

PROVISION OF HOSPITAL SERVICES.

The Hospital Survey Committee, having discharged its functions of surveying the needs of the County in respect of hospital accommodation, was disbanded by the Council in July, 1937, and the whole of the activities of this Committee were taken over by the Public Health and Housing Committee. The policy outlined in the Report of the County Medical Officer for the year 1936 has been continued, but certain variations and amendments in the original schemes set out, have been made. This was to be expected, as new factors have arisen as the investigations proceeded, both as regards extension and establishment of Council Hospitals and in negotiations with the Voluntary Hospitals.

The conditions of Capital Grants to Voluntary Hospitals, set out in the Report for the year 1935, were amended by the Council on 4th January, 1938, and the revised conditions, which are intended to be regulations of general application only and subject to the individual circumstances of each case, are given below :---

(1) In each case there shall be submitted to the Council for its approval :---

- (a) Full particulars and plans of the proposals.
- (b) A detailed estimate of the cost of such proposals.
- (c) Full particulars of any land and/or buildings to be acquired or used in connection with the proposals.
- (d) The tender for the carrying out of the work.

- (2) (a) There shall be adequate proportional representation of the County Council on the Governing Body of the hospital and upon its effective or executive Committee.
 - (b) Unless otherwise agreed, the County Medical Officer of Health or his deputy shall have a seat upon the Medical Committee of the hospital.
- (3) The accounts of the hospital shall be open to inspection and audit by officers of the County Council.
- (4) The Council, through their officers, shall be entitled to enter and inspect the hospital or any part thereof at all reasonable times, and all reasonable facilities shall be given to them and all reasonable information afforded to them.
- (5) The Council shall be satisfied that the hospital is so discharging its functions that it performs to an adequate extent the functions of the County Council in regard to the provision of places for the reception of the sick.
- (6) The County Council shall have the right of nomination to an agreed number of beds in the hospital.
- (7) No contribution or loan shall be made until that portion of the cost of the acquisition of the site or of the erection or alteration of the building (as the case may be) as has been agreed to be found by the hospital, has been raised and no contract for the erection or alteration of a building shall be entered into until the County Council has approved the expenditure.
- (8) The hospital shall give a charge to the County Council on the property of the hospital to secure the repayment of the capital of any loan in the event of the hospital failing at any time to comply with these regulations.

During the year conditions pertaining to Maintenance Grants have also been considered, and in January, 1938, the Council agreed that the following proposals should be adopted as a basis of any terms and conditions arranged with voluntary hospitals in connection with the making of maintenance grants by the Council :—

- There shall be adequate proportional representation of the County Council on the Governing Body of the hospital and upon its effective or executive Committee.
- (2) The accounts of the hospital shall be open to inspection and audit by officers of the County Council.
- (3) The Council, through their officers, shall be entitled to enter and inspect the hospital or any part thereof at all reasonable times, and all reasonable facilities shall be given to them and all reasonable information afforded to them.

(4) The Council shall be satisfied that the hospital is so discharging its functions that it performs to an adequate extent the functions of the County Council in regard to the provision of places for the reception of the sick.

Table XI on page 64a shows the number of beds provided and occupied during 1937 in hospitals belonging to the County Council.

As in last year's report, an up-to-date resumé of the position regarding the Council's hospitals and the Voluntary Hospitals is set out below :---

SOUTHERN AREA.

The Medical Superintendent of the Oldchurch County Hospital, Dr. E. Miles, has issued a separate report with regard to this Hospital.

The proposal to extend the Oldchurch County Hospital to 1,060 beds has received further consideration, together with the proposal to erect a hospital on the Chadwell Heath site (Crowlands). The whole question of the provision of hospital accommodation in the Southern area was revised and it was finally agreed by the Council on the 4th January, 1938, that a scheme for the extension of Oldchurch County Hospital should be proceeded with to accommodate ultimately 948 beds.

Approval was given by the County Council to the layout plan prepared by the County Architect for the development to its fullest extent of the Crowlands site to provide for the erection of a hospital with accommodation for approximately 500 children, 500 adults and a separate maternity block for approximately 120 patients. It has been agreed to proceed forthwith, as a first instalment, with the erection of 240 beds for children, 240 for adults, plus 10 casualties, with a separate maternity block for 80 patients.

The problem of meeting immediate needs owing to shortage of accommodation became more and more acute as the year 1937 drew to its close, particularly in connection with accommodation of chronic patients. The utilisation of Little Heath House and Hainault Lodge for chronic patients, totalling 100 beds, did a little to relieve the situation. A number of chronic patients have also been diverted to Public Assistance Infirmaries in other parts of the County owing to lack of accommodation in the Southern Area. Reference is made in the paragraph headed South-Western Area, to the proposals concerning the premises on the site at Hermon Hill, Wanstead, as a means of helping to meet this need.

At the time of writing, a proposal is being considered by the Public Assistance Committee to utilise certain accommodation at the new Suttons Institution for chronic patients, and also for proceeding with new blocks on this site to provide further beds for these patients.

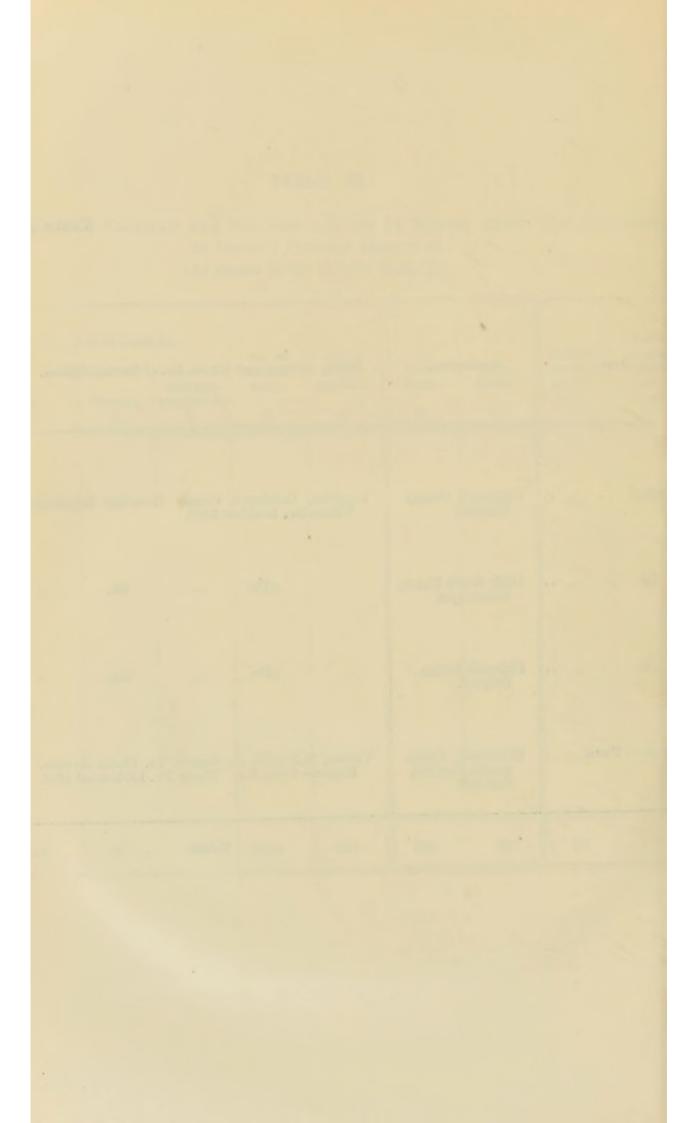
Elsewhere in the Southern Area the following developments have occurred :---

Hainault Lodge, Chigwell Row, was opened in November, 1937, with temporary accommodation for fifty chronic patients.

TABLE XI.

| Area. | Institution. | Name, Address and 'Phone N | io. of Medical Officer. | No. of Beds available, | | No. of Admis- | No. of | | | Deaths | Deaths among | Maternal | | No. of | No. of Beds occupied. | | | No. of operations | | |
|------------------|---|--|---|--------------------------|------------------------|--|-----------|---------|----------------------------|-------------------------------------|-----------------|----------|---------|---------------------------------|----------------------------------|-----|------|----------------------|------|------|
| | | | | women confined. 5. | Live- Births. 6. | Still- Births. newly- born. 7. 8. | dy- under | Deaths. | Total No. of Deaths. | patients dis- charged. 12. | Average. 13. | Highest. | Lowest. | - general anaes- thetics. | No. of Abdominal Sections. | | | | | |
| Romford , | Oldebureh County Hospital | E. Miles, Oldchurch County Those No. Romford 3666. | Hospital, Romford. | 428 | 352 | 183 | 9539 | 694 | 643 | 59 | 30 | 121 | 8 | 854 | 8591 | 840 | 943 | 754 | 4481 | 17. |
| Dø | Little Heath House, Goodmayes | Do. | Do. | - | 50 | - | 26 | - | - | - | - | - | - | п | 5 | 42 | 50 | 40 | - | - |
| Do | Hainault Lodge, Chigwell | Do, | Do. | - | 50 | - | 47 | - | - | - | - | - | - | 2 | i | - | 44 | 17 | - | _ |
| Woodford Green . | Brookfield Ortho- pardic Hospital, Oak Hill | Visiting M.O., Dr. A. Roger Highams Park, E.4 Phone | . 24. Castle Avenue, No. Larkswood 1614. | - | - | 30 | 82 | - | - | - | - | - | - | | 93 | 28 | 31 | 19 | 151 | - |
| | - | Totals | ······································ | 428 | 452 | 213 | 9694 | 694 | 643 | 59 | 30 | 121 | 8 | 867 | 8690 | 910 | 1068 | 830 | 4632 | 1324 |

Table showing Beds Provided and Occurried for the 12 Months ended 31st December, 1937, IN COUNTY COUNCIL HOSPITALS. (As shown in the Return Hosp. 6). 644



Little Heath House, Dagenham, also provides temporary accommodation for fifty chronic patients. The premises are rented from the County Borough of West Ham.

Loxford Lane, Ilford. With regard to this site, as indicated in the previous year's report, this will not be required for building purposes for a number of years, but consideration is now being given to the works required to be undertaken on this site to make it ready for use.

King George Hospital. Little progress has been made in connection with negotiations with the King George Hospital regarding terms and conditions under which the County Council can assist in a Scheme for the extension of their hospital by about 300 beds to a total of 500 beds.

Pyrgo Park. See under heading Convalescent Hospitals on page 67.

SOUTH-WESTERN AREA.

Hermon Hill, Wanstead. The site at Hermon Hill, Wanstead, was acquired in July, 1937, for the erection of a hospital of 500 beds.

To meet the immediate needs referred to in the paragraph headed Southern Area, above, consideration was given to the question of adapting the existing premises known as the Convent of the Good Shepherd, formerly the Merchant Seamen's Hospital, to accommodate 201 beds for chronic patients. Officials of the Ministry of Health, in conference with County Council representatives, did not consider the buildings satisfactory for adaptation, except as emergency accommodation for use for a very limited number of years, and therefore suggested that as the alterations proposed did not appear to be a suitable subject for a loan, the County Council should defray the cost out of revenue. Ultimately, therefore, on 4th January, 1938, the Council agreed to proceed with the adaptation and temporary utilisation of the premises on these conditions, and it is hoped that the premises will be ready for occupation in the Autumn of 1938. It has been decided that the Hospital shall be known as the Essex County Hospital, Wanstead.

Site at Oak Hill, Walthamstow. Negotiations to acquire the site at Oak Hill, Walthamstow, owned by the Walthamstow Parochial Charities for the erection of a 500-bed hospital, capable of extension to 800 beds, proved unsuccessful, as terms satisfactory to both parties could not be agreed upon. At the time of writing, therefore, the County Council are considering an alternative site.

Connaught Hospital, Walthamstow. The Connaught Hospital, Walthamstow, have submitted a scheme for extension and alterations which will increase the number of beds by about 89. Negotiations are still proceeding with this Hospital with regard to capital and maintenance grants being made by the County Council.

Brookfield Orthopædic Hospital. This Hospital which was taken over by the County Council on the 1st December, 1936, has continued to render useful services. Certain improvements and renovations have been carried out during the year. Further reference is made to the Hospital in Part III of this Report, (page 107) where information is given as to the number of admissions and discharges, &c.

SOUTH-EASTERN AREA.

Site on the Tilbury Arterial Road. Completion of the purchase of the site on the Tilbury Arterial Road, near Chadwell St. Mary, was completed in July, 1937, and will in due course accommodate a hospital of 250 beds, capable of extension to 500 beds, to serve the Thurrock Area. Until the Council is in a position to commence building operations on the site, the land has been let to the tenant in occupation when the purchase was completed, upon a yearly agreement.

Negotiations with Southend-on-Sea. It is estimated that by the time the present agreement with the Southend-on-Sea County Borough Council expires in 1951, at least 200 hospital beds will be required for the area of the old Rochford Hundred (which includes the Benfleet, Canvey Island and Rayleigh Urban Districts and Rochford Rural District), and that this number will increase to 250 over a period of years.

The negotiations with the County Borough Council to provide such accommodation at their Municipal Hospital at Rochford as would suffice for the whole of the area for all time have not reached the conclusion expected. In October, 1937, the Borough Council intimated that they had found it necessary to modify their views so far as the provision of accommodation in perpetuity for the Rochford Hundred was concerned, but that they were willing that their hospital should be regarded as serving for all time the Rochford Rural District in addition to the County Borough.

As a result of a Conference between representatives of the County Council and the Borough Council, discussions are now in progress with a view to the formulation of definite alternative proposals in accordance with suggestions made at that Conference.

CENTRAL AREA.

Reference is made on page 116 in the Public Assistance Section of this Report to the increased accommodation which it is proposed to provide at the Billericay and Chelmsford Public Assistance Institutions.

Chelmsford and Essex Hospital. As was indicated in the Report for 1936, the Chelmsford and Essex Hospital authorities, early in the year, accepted the general principle of it becoming a base hospital and plans of the complete scheme of extensions have been prepared.

Meanwhile, as part of the complete scheme, the Hospital authorities are proceeding with the erection of a new ward block, to be known as the Keene Block, to accommodate 70 additional beds, and a laboratory. Negotiations are in progress with regard to the payment by the County Council of both capital and maintenance grants in return for which the County Council will have the right to use certain beds in the new block.

COLCHESTER AREA.

Park Road Site. The purchase of the Altnacealgach Estate on Park Road, Colchester, was completed during the year under review.

Part of this site, as was indicated in last year's report, will ultimately be used for the erection of a hospital supplementary to the accommodation to be provided by the Essex County Hospital authorities in co-operation with the County Council.

Essex County Hospital, Colchester. It is pleasing to be able to report that negotiations with the Colchester hospital authorities have progressed steadily throughout the year, and general agreement has now been reached regarding the regulations and conditions to be attached to the making of capital and maintenance grants. A layout plan of the ultimate accommodation (to be provided in stages) has been prepared by the hospital's Architect for consideration by the Hospital Board and the County Council.

NORTH-WESTERN AREA.

Saffron Walden Voluntary Hospital. Further conferences with representatives of the Saffron Walden Voluntary Hospital took place during 1937, and as a result the basis of the ultimate agreement between the Council and the Hospital authorities has been arrived at. Sketch plans of the extensions and adaptations of the present building have been prepared and are under consideration.

Bishops Stortford Institution. The negotiations with the Hertford County Council for the provision of additional accommodation at the Bishops Stortford Institution are still proceeding.

EPPING AREA.

Ongar War Memorial Hospital. The application for a Capital Grant to meet the cost of re-planning and re-organising the services of the Ongar War Memorial Hospital received favourable consideration during the year, but unfortunately difficulties have arisen, mainly in connection with the question of the necessary mortgage on the hospital premises. The Hospital is a charity, administered in conformity with a scheme of the Board of Charity Commissioners, who are unable to give their approval to the form of mortgage required by the Council. Several suggestions have been considered for overcoming the difficulties.

CONVALESCENT HOSPITALS.

Pyrgo Park. In October, 1937, land at Pyrgo Park belonging to the Town and Country Planning Committee was appropriated by the Public Health and Housing Committee for the purpose of erecting thereon a Convalescent Home of 200 recovery and convalescent beds. Plans of this hospital are at present receiving the consideration of the Ministry of Health. Michaelstow Hall The purchase of Michaelstow Hall, Dovercourt, as a site for the Council's second Convalescent Hospital has now been completed. It has, however, been necessary to modify the original scheme for adapting the premises to accommodate 50 women and children, and in due course adaptations will be carried out so that the existing house may be used for the accommodation of somewhat less than 40 suitable convalescent patients. It is anticipated that the work will be completed by the Autumn of 1938.

Other Matters.

(i) AMBULANCE FACILITIES. No outstanding difficulties have arisen in connection with the County Ambulance Service, and the scheme for the reciprocal use of ambulances continues to run smoothly and to be satisfactory to both local authorities and the police, on the lines indicated in last year's report.

In order to secure greater co-ordination and control of the Council's own ambulances, arrangements have been made for a uniform type of log book to be kept in respect of each vehicle and for the entries to be submitted periodically to the County Medical Officer of Health as Chief Organiser and Controller of Ambulances.

Consideration was given to the question of augmenting the Council's own ambulance service, but it was felt that the ambulances available were sufficient to cope with emergencies under existing conditions, although the provision of extra vehicles will no doubt have to be considered in the near future in connection with Air Raid Precautions schemes.

(ii) NURSING SERVICES. Much attention continues to be given to the question of improving the conditions of service of nurses in regard to hours of duty, salaries, promotion, pensions, social amenities and recreation. A good deal has been written on the subject, both in the public and the professional press, and an Inter-Departmental Committee has been set up by the Ministry of Health and the Board of Education to make a comprehensive enquiry into the whole subject of recruitment, training and conditions of service of the nursing profession.

During the year under review, a conference was held consisting of members of the various Committees of the Council in charge of hospitals and institutions, when a detailed report, with recommendations, was submitted by the County Medical Officer. In introducing the report, the County Medical Officer pointed out that :--

"The question is one which affects the whole of the hospital policy which the Council have been considering since 1930, because it is not much use having good institutions unless they are staffed with an efficient team of doctors, nurses and domestic workers. It must be realised that we have entered into an entirely new world in respect to the nursing profession; the old ideas of a vocation and a religious devotion are passing and in their place the modern girl looks for a career. Moreover, she has endless opportunities to-day, whereas fifty years ago nursing and teaching were practically the only two professions open to her.

It is common knowledge that for many years past there has been a slowing down in the recruitment of nurses, and this seems to have been accentuated very considerably during the last year. It applies to Hospitals, Infirmaries, Sanatoria, Health Visiting and other collateral branches of the nursing profession.

In Essex a special feature has been the small number of Essex born girls who come forward for training. Whilst our first duty and responsibility is to attract a sufficient number of the right kind of nurses for our institutions, I think there is also another duty to provide an outlet for Essex girls in a profession to which many of them have a natural leaning.

Owing to the altered circumstances of the last few years, Essex is now in a position to form a nursing service of its own, and to offer a career in almost every branch of the nursing profession to those desirous of taking it up. There is the Oldchurch County Hospital, Romford, and a number of voluntary hospitals where the General Training Certificate can be secured. Again, at Oldchurch County Hospital and other places in the County, midwives receive the recognised training. At the County Training Home, Leytonstone, District Nurse-Midwives are trained, whilst at Black Notley Sanatorium Nurses are trained and given a certificate for the nursing of tuberculous patients. For the past few years a trained nurse, usually from one of our own Institutions, has been appointed as probationer Health Visitor, and after the necessary training, taken on our staff of whole-time Health Visitors. Many Fever Hospitals in Essex are recognised as training schools for fever-trained nurses. Our Mental Hospitals are similarly recognised in their own branch of the profession. Essex is, therefore, in the position, by co-operation and mutual assistance, to cover almost the entire field of nursing, both in respect of training and subsequently to offering suitable posts for the actual carrying out of the profession. If this were accomplished and duly advertised throughout the County, I believe a great many young girls at school-leaving age would be attracted to take up nursing. We are losing the great bulk of these now.

Another source of loss is where the nurse, who has already received some training and wishes to take up a specialised branch and makes application to one or other of our existing services, is not able to be assured that inside our own scheme there will be full opportunity of training and also of subsequent employment.

The shortage of nurses is worst in respect of Assistant Nurses, *i.e.*, those untrained nurses who chiefly are engaged in the Public Assistance Infirmaries for looking after the chronic and infirm patients under the supervision of trained nurses. The scheme of training Assistant Nurses at Epping and Orsett is a success, but the number in training is few, and it will be many years before we can meet our needs. In the meantime, the Council is paying exorbitant fees to the various Nurses Supply Associations for temporary Assistant Nurses."

On 5th July, 1938, the Council adopted the following recommendations, which are designed to improve the general amenities of the Nurses, both on and off duty, and to remove unnecessary restrictions on their freedom :--- (i) *Holidays*. Holidays to be granted to all grades of nurses, both trained and untrained, at the rate of 14 days for 6 months' service, to be taken as and when arranged within the year, commencing if possible with the financial year 1938-39, provided that no cash shall be paid in lieu of holidays except to nurses leaving the service.

(ii) *Hours of Duty.* The hours of duty of both day and night nurses to be reduced to 96 per fortnight, if possible within 12 months, by an increase of staff, and endeavours to be made to include lectures to probationers and trainees studying for recognised certificates in the recognised hours of duty.

(iii) Residence and Emoluments. Trained Nurses and approved Assistant Nurses, but not Matrons, Superintendent Nurses, Head Nurses, Probationers and Trainees to be permitted to live outside the hospital or institution at approved residences where deemed desirable, but to have most meals at the hospital, and medical attention as if living in.

A cash allowance of a maximum of 22/6d. per week, or £58 10s. 0d. a year, to be made to each nurse living out, and the total emoluments of such a nurse to be valued at an appropriate figure, the emoluments of a nurse living in to be valued at £70 per annum as heretofore.

(iv) Salaries. The following salary scales to be adopted from an agreed date for nurses in the Council's permanent service, viz. :---

| | Living in. Living out. £ per annum. £ per annum. |
|---------------------------------------|---|
| Senior Posts | Controlling Committees to make recom mendations. |
| Sisters | £100—£7 10s.—£130 £158 10s.—£7 10s —£188 10s. |
| Staff Nurses | £80—£7 10s.—£95 £138 10s.—£7 10s —£153 10s. |
| Assistant Nurses (Council trained) | £60—£7 10s.—£75£118 10s.—£7 10s —£133 10s. |
| Do.—In training | £50 (1st year) £55 (2nd year). |
| Assistant Nurses (Untrained) | £50—£7 10s.—£65 £108 10s.—£7 10s —£123 10s. |
| Probationers | £30 (1st year). £35 (2nd year). £40 (3rd year). |
| Junior Assistant Nurses | £30—£2 10s.—£40 until category is super seded. |

(v) *Recreation Facilities.* Improved recreational facilities to be provided where necessary and suitable transport arrangements to be made to outlying hospitals and institutions to enable each nurse to have a satisfactory day out each week.

(vi) Senior Posts. House Committees or Management Committees to be required to ascertain if a greater proportion of senior posts can be created. (vii) *Male Nurses*. Non-resident Male Nurses to be employed in Public Health and Public Assistance Hospitals and Institutions to a greater extent than formerly, to work under the supervision of trained ward sisters, and the following salary scales to be adopted and applied to future appointments, viz. :--

| State | Registered | Male £95—£5—£125 per annum, plus £58 10s. |
|---------|-------------|--|
| Nurs | es | per annum in lieu of residential emolu- |
| | | ments, together with uniform, laundry and meals when on duty valued at £26 10s. per annum. |
| Unregis | stered Male | Nurses £75-£5-£95 per annum, plus £58 10s. |

with some experience

75— \pounds 5— \pounds 95 per annum, plus \pounds 58 10s. per annum, in lieu of residential emoluments, together with uniform, laundry and meals when on duty valued at \pounds 26 10s. per annum.

Application to be made for Oldchurch County Hospital, Romford, to be recognised as a Training School for Male Nurses (salary for Probationer Male Nurses to be £65 first year, £70 second year, £75 third year, plus £58 10s. per annum in lieu of residential emoluments, together with uniform, laundry and meals when on duty valued at £26 10s. per annum) where three or four men could be trained annually so that about nine would be in training at any one time.

(viii) Co-operation with Schools and Post-School Courses. The Education Committee to be approached to make known in schools the need for recruits to the nursing profession and to endeavour to frame a scheme for bridging the gap between the average school-leaving age and the age for commencing training.

(ix) Nurses in Charge of Wards at Night. Sisters and staff nurses in charge of wards at night, whether permanently or for not less than a month at a time to be paid extra salary at the rate of $\pounds 10$ per annum.

In connection with the "Essex Scheme" for training Assistant Nurses, details of which have appeared in previous reports, the Matrons of the Epping and Orsett Institutions and the Sister-Tutor are again to be congratulated upon the encouraging results achieved. The Council were again fortunate in obtaining the services of the examiner referred to in last year's report, and the following are extracts from her reports with regard to the examinations held in September, 1937, and in March, 1938.

Twelve candidates were examined and they all obtained pass marks and over :---

"In appearance the nurses were neat, clean and tidy. Their manner towards the patients was kind and attentive.

"Papers. I think I might say fair as a whole, although there were two very good papers. The spelling and composition were very good. The anatomy question appeared the most difficult to the candidates, but as we only expect them to know sufficient anatomy to apply treatment correctly the question was fairly well answered. "*Bedmaking* has distinctly improved. I was pleased to see crumbs and fluff dusted out before inserting the clean sheets. The beds were neatly stripped and re-made and the patients carefully and correctly handled. The beds this time came up to the standard required for general trained nurses.

"Application of Treatment. All the treatment asked was known and correctly applied. Marks were lost from minor faults such as carrying dressings in hand without receiver, timorous application (which is to be preferred to being rough but might make the patient doubtful of the nurse's ability). Surgical technique was good, but nurses rather erred on the side of doing unnecessary cleaning. For instance, it should not be necessary to thoroughly wash and polish the dressing trolley to apply a surgical fomentation to a septic thumb. The dressings, &c., might be taken to the bedside on a dressing tray. A surgical fomentation after being boiled should have some of the boiling water poured over it whilst waiting in the bowl at the bedside, otherwise it is not really hot when applied.

"Urine Testing. Good. All tests asked were correctly made. One nurse forgot to wash after testing.

"Bandaging. Roller bandaging needs improving. No candidate was able to gain more than half marks in this section. Triangular bandaging not good (September, 1937). Still rather weak. Needs much more practice. Triangular bandaging fair (March, 1938)."

All candidates obtained the requisite fifty per cent. of marks and six were regarded as having passed with honours, having obtained over seventy-five per cent.

(iii) VOLUNTARY HOSPITALS COMMISSION. The Voluntary Hospitals Commission set up by the British Hospitals Association in 1935 under the chairmanship of Lord Sankey, issued their report in April, 1937. The Commission recommends the unification of the administration of voluntary hospitals on a national basis and their principal recommendations include :—

- (a) The division of the country into Hospital Regions;
- (b) The formation in each region of a Voluntary Hospital Regional Council to correlate hospital work and the needs of the region ; and
- (c) The formation of a voluntary hospitals Central Council to co-ordinate the work of the Regional Councils.

(iv) PEP REPORT. Another valuable contribution to hospital literature was contained in the "Report on the British Health Services" by PEP (Political and Economic Planning), which was published in December, 1937. In connection with hospitals it contains a comprehensive summary of the position in relation to the transition from Poor Law days as envisaged by the Local Government Act, 1929, and surveys the arrangements which are being made to meet the serious shortage of hospital beds which exists. The tendency for co-operation between local authorities and the voluntary hospitals is noted with approval by the compilers of the Report.

(v) GOVERNMENT PUBLICATIONS. In March, 1937, the "Departmental Committee on the Cost of Hospitals and other Public Buildings" appointed by the Ministry of Health, issued its first Report, which dealt with the acute general hospital and included sections relating to the details of accommodation, methods of construction and engineering services. The Final Report of the Departmental Committee was issued in February, 1938.

AIR-RAID PRECAUTIONS.

General.

The Air-Raid Precautions Act, 1937, received the Royal Assent on the 22nd December, 1937. Prior to the passing of the Act, the County Council had regarded themselves merely as a co-ordinating authority, having no power to interfere with the acts of the County District Councils and accordingly had appointed a County Organiser whose duties were limited to those of co-ordination, a general supervision of those functions which the County Council proposed to carry out themselves through their own services, and the encouragement of District Councils to proceed with their own schemes.

Early in 1937 the County Council outlined their policy in connection with the general precautionary measures which should be taken in the event of air raids and these were circulated to local sanitary authorities, but as a consequence of the passing of the Air-Raid Precautions Act, the County Council's legal responsibilities were much enlarged as it cast upon them the primary responsibility for the preparation of a scheme or schemes covering the whole County.

Medical Aspects.

Even before the passing of the Act considerable attention had been given to the general question of the medical aspects of Air-Raid Precautions schemes, and during the year under review conferences and discussions took place between medical officers of the Central Office staff and local Medical Officers of Health. As a result when the Act was passed it was easy to come to a prompt decision as to the distribution of responsibilities in connection with this side of the general schemes. It has been agreed by all concerned that the County Council should be responsible for :—

- (a) The co-ordination of the medical side of local schemes;
- (b) Augmentation of the County ambulance services;
- (c) Anti-gas training of certain personnel in County Council Hospitals;
- (d) Co-operation with neighbouring county and county borough councils.

and that local sanitary authorities should carry out the detailed work in connection with :---

- (a) The provision of mobile first aid parties ;
- (c) The establishment of first aid parties and decontamination centres ;
- (c) The organisation of local ambulance services;
- (d) The recruitment and training of the personnel for these services.

Training in Anti-Gas Measures.

During the year 1937 one of the medical officers on the Central Office Staff attended the Senior Officials Course at the Civilian Anti-Gas School, Falfield, and an Assistant County Health Inspector qualified as an Instructor (C.A.G.S.). He has commenced the instruction of the male staff at the Oldchurch County Hospital in anti-gas measures. The nursing staff at the Oldchurch County Hospital is being instructed in anti-gas measures by a Home Office Medical Instructor.

At the time of writing this report considerable progress has been made with regard to the preparation of local schemes.

PART II.

TUBERCULOSIS.

Notifications.

The following tables supply the necessary statistical information relating to the work done under the County Tuberculosis Scheme during 1937, and I am indebted to Dr. W. L. Yell for the general remarks which follow the tables :--

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1930.

(a) A summary of the notifications made in the Administrative County of Essex during the period 1st January, 1937, to 31st December, 1937, is given below :--

| | | | | | | FOR | MAL | Nor | FICA | TIONS | | | |
|----------------------|----|--------------|------|------|--------|------|-------|------|--------|-------|--------|---------------------|---------------------|
| | | Prin | nary | Noti | ficati | ions | of Ne | w Ca | ises o | f Tub | oercul | osis. | |
| | | Age Periods. | | | | | | | | | | | Total |
| | -0 | 1- | 5- | 10- | 15- | 20- | 25 - | 35- | 45 - | 55- | - 99 | Total (all ages) | Notifica- tions. |
| Pulmonary, Males | 1 | 6 | 7 | 13 | 51 | 82 | 164 | 119 | 106 | 54 | 20 | 623 | 708 |
| ., Females | - | 9 | 12 | 13 | 63 | 112 | 179 | 72 | 34 | 25 | 15 | 534 | 619 |
| Non-Pulmonary, Males | 4 | 31 | 41 | 31 | 19 | 13 | 24 | 15 | 10 | 4 | 2 | 194 | 2 18 |
| " Females | 5 | 20 | 31 | 25 | 22 | 18 | 26 | 13 | 9 | 1 | 5 | 175 | 192 |

(b) The following summary shows the new cases which came to the knowledge of the Medical Officers of Health during the above-mentioned period, otherwise than by formal notification :--

| | | | | Age periods. | | | | | | | | | | |
|-------------------------|---|---|---|--------------|-----|-----|-----|----|-----|-----|----|----|--|--|
| | - | | | | | | | | | | | | | |
| | 0 | - | 2 | 10- | 15- | 20- | 25- | 35 | 45- | 55- | 65 | | | |
| Pulmonary, Males | - | - | 1 | - | 7 | 14 | 20 | 24 | 7 | 6 | 3 | 82 | | |
| ,, Females | 1 | 2 | - | - | 2 | 12 | 19 | 14 | 4 | 6 | 4 | 64 | | |
| Non-pulmonary, Males | - | 3 | 5 | 5 | 3 | 1 | 4 | - | - | - | - | 21 | | |
| " Females | - | 2 | 4 | 6 | 2 | 2 | 5 | | 1 | - | - | 22 | | |

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

| | | | No. of | Cases. |
|---|------------|--------------------|---------|--------|
| Source of Information. | Pulmonary. | Non- Pulmonary. | | |
| Death Returns from Local Registrars { transferable deaths from Registrar-General | | | 26 2 | 6 |
| Posthumous Notifications | | | 4 | 3 |
| "Transfers" from other areas (other than transferable deaths) | • | | 77 | 26 |
| Other Sources (Forms I and II) | | | 37 | 8 |

TABLE XIII.

NOTIFICATION REGISTER.

| | | Pulmonar | y. | No | Total | | |
|---|----------|----------|-----------|----------|----------|----------|-----------|
| Number of cases of Tuberculosis remaining | g at | Females | Fotal | Males | Females | Total | Cases. |
| he 31st December, 1937, on the Registers Notifications kept by District Medical Offi of Health in the County. | | 3247 | 7079 | 1648 | 1513 | 3161 | 10,240 |
| | | | | | | | |
| umber of cases removed from the Register during the year by reason of : | rs | | | | | | |
| | rs 19 | 18 | 87 | 15 | 10 | 25 | 62 |
| during the year by reason of : | | 18 | 87 106 | 15 43 | 10 54 | 25 97 | 62 203 |
| during the year by reason of : 1. Withdrawal of notification | 19 | | | | | | |

TABLE XIV.

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

| | | Pulmonary Tuberculosis. | | | | | Non-Pulmonary Tuberculosis. | | | | Tuberculosis (All Forms). | | | | |
|---------------|--------------------------|------------------------------|---------|------------------------------|--------------------------|------------------------------|--------------------------------|------------------------------|--------------------------|------------------------------|------------------------------|-----------------------|--|--|--|
| Т иав. | Noti- fica- tions. | Rate 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. | Ra po 1,0 Po | | | |
| 1912-16 | N | ot | 851 | 0.86 | N | ot | 269 | 0.27 | N | ot | 1120 | 1 | | | |
| 1917-21 | avail | able | 752 | 0.89 | avail | | 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 | | | |
| 1927-31 | 1110 | 1.00 | 710 | 0.64 | 382 | 0.34 | 141 | 0.13 | 1492 | 1.34 | 851 | 0 | | | |
| 1932 | 1188 | 0.96 | 683 | 0.55 | 425 | 0.34 | 165 | 0.13 | 1613 | 1.30 | 848 | 0 | | | |
| 1933 | 1262 | 0.99 | 680 | 0.53 | 453 | 0.35 | 135 | 0.11 | 1715 | 1.34 | 815 | 0 | | | |
| 1934 | 1190 | 0.92 | 654 | 0.50 | 409 | 0.31 | 114 | 0.09 | 1599 | 1.23 | 768 | 0 | | | |
| 1935 | 1041 | 0.79 | 604 | 0.46 | 314 | 0.24 | 113 | 0.08 | 1355 | 1.03 | 717 | 0 | | | |
| 1936 | 1044 | 0.78 | 600 | 0.45 | 356 | 0.26 | 126 | 0.09 | 1400 | 1.04 | 726 | 0 | | | |
| 1937 | 1157 | 0.84 | 603 | 0.44 | 369 | 0.27 | 123 | 0.09 | 1526 | 1.11 | 726 | 0 | | | |

TABLE XV.

SHOWING DEATHS FROM TUBERCULOSIS REGISTERED WITH LOCAL REGISTRARS OF BIRTHS AND DEATHS IN THE ADMINISTRATIVE COUNTY DURING 1937, AND PARTICULARS REGARDING NOTIFICATION UNDER THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS (Transferable Deaths are excluded).

| | | 1 | 1 | | Whe | en Noti | ified. | | | |
|--|--|--------------------------|--------------|---------------------------------|-----------------------------------|------------------------------------|----------------------------|----------------------------------|---------------------------------------|------------------------|
| DISTRIC | TS. | 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 Information. |
| Urban | | | | | | | | | | |
| Barking B. Benfleet Billericay Braintree & Bocking | ··· ··· | 17 8 16 7 | ï | 2 1 3 1 | $1 \\ 2 \\ 1$ | 4 2 2 | 1 3 1 | 2 | 5 1 2 2 | 2 1 5 2 |
| Brentwood Brightlingsea Burnham-on-Crouch | ··· ·· ·· | 6 4 2 6 | | 22 | | 1 | | 1 | | 3 2 1 1 |
| Canvey Island Chelmsford B, Chigwell Chingford | ······································ | 4 5 16 | 1 | 1 3 | ··· ··· | 1 | | 1 1 1 1 2 | 1 3 | 3 3 2 4 |
| Clacton-on-Sea Colchester B. Dagenham Epping | ··· ·· ··· | 14 23 49 2 3 | ···· ···· | 9 10 | 26 | 3 1 3 1 | 2 4 6 | 3 1 10 1 | 2 2 5 | 4 4 9 |
| Frinton & Walton Halstead Harwich B. Hornchurch | | 2 7 32 | 1 | | 1 | | 1 4 | 1 1 4 | | 1 9 10 |
| Ilford B Leyton B Maldon B. Rayleigh | | 46 49 4 | 22 | 10 6 1 | 23 | 53 | 32 | 5 9 2 | 11 11 | 8 13 3 2 6 |
| Romford Saffron Walden B. Thurrock Waltham Holy Cross Walthamstow B. | | 24 6 32 4 65 | 1 | 3 :5 :5 | 1 4 | 4 7 1 3 | 2 1 2 3 | 2 2 3 1 17 | 5 5 12 | 6 3 5 2 12 |
| Wanstead & Woodfo West Mersea Witham | | 25 1 2 2 | 8 1 | 72 | 33 | 1 1 | 3 1 | 4 | 2 | 12 9 2 |
| wivenhoe | Totals | 487 | 18 | 74 | 33 | 52 | 41 | 74 | 73 | 122 |
| Rural. | | | | | | | | | | |
| Braintree Chelmsford Dunmow | | 9 15 5 | 3 1 | | 2 1 | 1 1 | 2 1 | | 3 2 | 1 4 2 |
| Epping Halstead Lexden & Winstree Maldon | | 6 2 12 2 | 1 | | "1 1 | 1 | 3 | 1 | 2 | 2 3 1 5 |
| Ongar Rochford Saffron Walden Tendring | | 3 9 5 9 | ···· ··· | 1 | 1 1 | 1 | · ``i ``i | 1 | 1 2 | 2 7 1 4 |
| Totals | | 77 | 5 | 1 | 7 | 6 | 8 | 9 | 10 | 31 |
| URBAN DISTRICTS | | 487 | 18 | 74 | 33 | 52 | 41 | 74 | 73 | 122 |
| RURAL DISTRICTS | | 77 | 5 | | | 6 | 8 | 9 | 10 | 31 |
| A DMINISTRATIV | VE COUNTY | 564 | 23 | 75 | 40 | 58 | 49 | 83 | 83 | 153 |

New Cases and Mortality during 1937.

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

| | | | | Now | Casca. | | 1 | Dea | tha. | | |
|----------|---------|-----|---------|-------|---------|---------|--------|------|----------------|----|--|
| Ag | e Perio | de. | Pulmo | nary. | Non-pul | monary. | Pulmon | ary. | Non-pulmonary. | | |
| | | | М. | F. | M. | F. | М. | F. | М. | F. | |
| 0- | | | 1 | 1 | 4 | 5 | 1 | 2 | 5 | 7 | |
| 1— 5— | | | 6 | 11 | 34 | 22 | 1 | 3 | 15 | 14 | |
| 5 | | | 8 | 12 | 46 | 35 | 13 8 | 1 | 12 | 7 | |
| 10- | | | 13 | 13 | 36 | 31 | 1s° | - | 14 | ' | |
| 15 | | | 58 | 65 | 22 | 24 | 28 | 76 | 12 | 13 | |
| 20- | | | 96 | 124 | 14 | 20 | | | | 10 | |
| 25 | | | 184 | 198 | 28 | 31 | 78 | 70 | 7 | 7 | |
| 35— | | | 143 | 86 | 15 | 13 | 95 | 41 | 4 | 2 | |
| 15 | | | 113 | 38 | 10 | 10 | 69 | 25 | 2 | 1 | |
| 55 | | | 60 | 31 | 4 | 1 | 43 | 21 | 3 | 3 | |
| 35 and | upwar | ds | 23 | 19 | 2 | 5 | 19 | 22 | 5 | 4 | |
| | | | 705 | 598 | 215 | 197 | 342 | 261 | 65 | 58 | |

TABLE XVI.

It is pleasant to record a new low record in the death rate from pulmonary tuberculosis (0.44 per 1,000) in the County of Essex, while the rate for non-pulmonary tuberculosis (0.09) remains as last year's, unchanged. Each case of pulmonary tuberculosis is a potential source of more tuberculosis—non-pulmonary tuberculosis does not carry with it that danger. Even if the decline in the death rate from all forms is a small one, it is one step more in a continued descent. There has been an increase in the notification rate of both pulmonary and non-pulmonary tuberculosis and it is a little difficult to foresee what this may portend. That there is a certain amount of selective immigration there can be little doubt, but if transfer notifications be taken as a guide, this has operated to a lesser extent than in 1936. Notification of all cases before death is impossible, as tuberculosis is often a terminal complication. Nevertheless, of persons dying from it in Essex during 1937, nearly one-third died unnotified. This is far too many. As Sir Arthur McNalty has pointed out, however, the death rate is a truer guide to incidence in tuberculosis than the notification rate.

The steady improvement in the death rate is not a measure of the success of treatment (although successful treatment may have some slight influence on the incidence), but it is a measure of the success of prevention. Despite advances in the treatment of certain forms of pulmonary tuberculosis, which, in the groups found suitable for them, have increased the patient's expectation of life, the results of treatment have had no great influence on the fate of the tuberculous as a whole.

Early tuberculosis of the lungs can be treated and cured whilst years of useful life may be gained for some of those with more extensive disease, but the weak link in the chain is the late recognition of tuberculosis and this weakness may come from any or all of three directions—the public, who are the potential patients, their doctors, and the dispensary service.

There is only one way of reaching the public, and that is by advertising what the County Service has to offer in the way of expert investigation and treatment, and making better known the essential facts regarding tuberculosis. One is forced to the conclusion that insufficient attention has been paid to this field in the past and that by picking a judicious course between the nightmare of morbid fear on the one hand and an unenlightened insouciance on the other, the patients may be educated more often to seek medical advice before irreparable damage has been wrought.

The general practitioner, as in many other social problems, occupies a key position and his co-operation is essential if patients are to be brought to the notice of the tuberculosis service at an early, curable stage. He cannot be a specialist in all branches of medicine, but a training which impresses on him the universality of this disease, its preference for adolescence, and its infectivity in middle age and senescence when it often masquerades as bronchitis, should make him alert to suspect it, and, where detection is difficult, to seek consultation. But, despite the statutory obligation to notify, he will not seek help early of a public service if it is not an efficient one. The Tuberculosis Officer must be an expert in his speciality, and a willing and courteous colleague, who has at his command facilities for investigation, particularly X-ray investigation, which the private doctor does not possess, and behind him there must be ample institutional accommodation, where the best of modern treatment is available for the patient and a lengthy waiting list does not nullify early diagnosis.

The growth of population in the post-war years in Essex has been phenomenal, but there has grown up with it a tuberculosis service of steadily increasing efficiency. Whole-time tuberculosis officers, who are specialists, carry on the dispensary services in the extra-metropolitan area with a staff of whole-time tuberculosis nurses. Full X-ray facilities are available in this densely-populated area. Surgical cases presenting difficulty in diagnosis are referred to Sir Henry Gauvain at Farringdon Dispensary and obscure pulmonary cases to Dr. Burton Wood at the London Chest Hospital, or at the Black Notley Sanatorium. I am indebted to Dr. Wood for the following account of his special clinic in London, where the discussions benefit not only the patients but the doctors who attend :—

"The Clinic at the London Chest Hospital is held on the first and third Wednesday afternoons of each month and is attended by sanatorium superintendents and tuberculosis officers from the extra-metropolitan and Thamesside districts. Members of the Resident staff of the Hospital often attend and are always welcome and occasionally other visitors are present. The Clinic opens with a short session held in a consulting room. This is attended by patients from the Dispensaries whose personal attendance is necessary for the purpose of physical examination or some special investigation. Each case is introduced by a Tuberculosis Officer, who explains any special difficulty he may have experienced in arriving at a diagnosis or arranging a plan of treatment. When the patient has retired the case is discussed and opinions expressed. Sometimes a vote is taken on the special points at issue and a brief summing up is usually given by the physicians in charge of the clinic. When these patients have been seen the meeting adjourns to the post-graduate lecture room. Here a special multiple viewing box for X-ray films has been provided through the kindness of the Dean of the post-graduate school. Each member of the Clinic brings cases for the discussion, which is held around the viewing boxes. The dossier of each

| TABLE XVII. | |
|-------------|--|
|-------------|--|

(a) SHOWING THE WORK OF THE DISPENSARIES DURING 1937.

| | P | ULMO | NABT | | Nos | -Pui | MOM | ART. | | Tot | TAL. | | | | | | | | | |
|--|--|-------------|---|------|-----|--------------|-------|---------------|---|--|------------------|-----------------|-------------------|--|--|--|--|--|--|--|
| DIAGNOBIS. | Adu | ilts. | Chil | dren | Adu | ilte. | Chil | dren | Adu | ilts. | Children. | | GRAND TOTAL | | | | | | | |
| | M. | ¥. | м. | ¥. | м. | y. | м. | ¥. | м. | F. | м. | ¥. | | | | | | | | |
| A.—NEW CASES examined during the year (excluding contacts) :- (a) Definitely tuberculous (b) Diagnosis not completed (c) Non-tuberculous | 428 | 284 | 16 | 15 | 47 | 60 | 84 | 65 | 475 5 601 | 344 14 575 | 100 12 301 | 80 18 241 | 999 49 1718 | | | | | | | |
| BCONTACTS examined during th year : | 65 | 66 | 4 | 5 | 2 | 3 | 1 | 1 | 67 1 178 | 69 3 334 | 5 9 253 | 6 7 199 | 147 20 964 | | | | | | | |
| C.—CASES written off the Dispersary Register as (a) Recovered (b) Non-tuberculous (including any such case previously diagnose and entered on the Dispensary Register a tuberculous) | 42 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- | 54 | 18 | 9 | 12 | 13 | 66 | 57 | 54 789 | 67 931 | 84 | 66 500 | 271 | | | | | | | |
| DNUMBER OF CASES on Disper sary Register on Dec. 31st : (a) Definitely tuberculous (b) Diagnosis not completed | 1- 2093 | 1675 | | 95 | 255 | | 492 | 387 | 2348 6 | 1987 17 | 588 21 | 482 25 | 5405 69 | | | | | | | |
| Number of cases on Dis Register on January 1st Number of cases transferred for areas and cases returned charge under Head 3 in prev | rom ot after | her dis- | 5420 416 | | | to l tati | ons) | s (ind | ts by T cludin its by Home | g per | es or | consu Healt | . 1983 h | | | | | | | |
| areas, cases not desiring further assistance under the scheme, and cases "lost sight of " | | | | | | | | | | . 23647 2731 | | | | | | | | | | |
| Number of attendances at th sary (including contacts) Number of insured persons un ciliary treatment on the 31st | der da | omi- | 20502 11. Number of "recovered" cases restored to Dispensary Register and included in A (a) and A (b) above 7 | | | | | | | | | | | | | | | | | |
| 7. Number of consultations w practitioners: (a) Personal (b) Other | ith m | edic: | | | 12. | Num per | ber o | of "7 Regi | r.B. p ster of | in A (a) and A (b) above 7 | | | | | | | | | | |

(b) NUMBER OF DISPENSARIES FOR THE TREATMENT OF TUBEROULOSIS (excluding centres used only for special forms of treatment).

| Provided by the Count | cil | | | 23 . |
|-----------------------|----------|------|------|------|
| Provided by Voluntary | / Bodies | | | Nil. |

(c) NUMBER OF BEDS AVAILABLE FOR THE TREATMENT OF TUBERCULOSIS ON THE 31ST DECEMBER IN INSTITUTIONS BELONGING TO THE COUNCIL.

| Name of Institution. | | | | lmonary ses. | For Non-H | Pulmonary ses. | |
|---|-----------|--------------------|--|---------------------------------|--------------------------------|-----------------------|---------------------------------|
| | | | Adults, | Children under 15. | Adults. | Children under 15. | Total. |
| | ty Hospit | tal ibers fluc | 85 90 39 30 Lecording to | +15 1 requirement | M. F 28 +32 27 8. | +42 36 23 | 202 90 36 42 80 |
| Public Assistanc | | | 1 | | | | 1 |
| Billericay | | | - | | | | |
| Billericay Braintree | | | 1 | | | | 1 |
| Billericay Braintree Chelmsford | | | 1 3 | | | | 1 3 |
| Billericay Braintree Chelmsford Colchester | | | 1 3 1 | | | | 1 3 1 |
| Billericay Braintree Chelmsford Colchester Maldon | | | 1 4 | | | | 1 3 1 6 |
| Billericay Braintree Chelmsford Colchester Maldon Orsett | | ···· ··· | 131444 | | | | 1 3 1 6 4 |
| Billericay Braintree Chelmsford Colchester Maldon | | ···· ··· ··· | 1 4 | | 2 | | 1 3 1 6 4 1 6 |

81

patient is forthcoming so that an accurate history is available, the Tuberculosis Officer describes the clinical condition and physical signs and finally demonstrates the X-ray picture or pictures of the case. Many are problem cases on which advice is sought, others are of special interest encountered in the preceding fortnight. In this manner some thirty or forty cases are discussed. Opportunity is also taken to keep members of the clinic in touch with any special work which is being done in the hospital."

In rural Essex and where the tuberculosis work is done by the Assistant County Medical Officer, who is also the Medical Officer of Health, Dr. Yell pays monthly visits to the local clinics with a portable X-ray apparatus and his services are available for consultation with the district tuberculosis officers or private practitioners at clinics, local hospitals or patients' homes. Ambulance transport to the nearest approved X-ray centre is provided for the patient, who cannot otherwise travel there for examination. Thus, in Essex, no suspected case of tuberculosis need lack clinical and X-ray investigation and the laboratory examination of sputum for tubercle bacilli is available to all practitioners.

Any claim that finality in development has been reached would be unwise, and as the basis of the services broadens and the tendency to utilise the special knowledge of the tuberculosis officer in differential diagnosis increases, a further strengthening of the staff extending the whole-time tuberculosis appointments beyond their present confines may be necessary, together with the setting up of additional centres for X-ray examination.

But the tuberculosis problem has always bristled with difficulties and an inherent obstacle to securing all patients at an early stage is the insidious onset of some forms of tuberculosis, where the advance is so stealthy that for a long time the patient does not realise that he is being attacked. Some will shrink from fear of being told what they almost know, and procrastination will tempt those who feel the economic whip too keenly. No matter how enthusiastically the family doctor and the tuberculosis officer may join hands, human nature and this social disease ordain that for a few the verdict will always be " too late."

Despite the sustained fall in the death-rate, the number of cases on the dispensary register, which in 1936 showed an increase of 85, shows in 1937 a further increase of 54. Though this might be due to a greater proportion of the tuberculous seeking public medical treatment, it is far more likely the direct result of the continued increase of population in the County outstripping the decline in tuberculosis. In any case the consequence is that the need for institutional and other accommodation does not decline. With special methods of treatment in suitable cases, and improvement in accommodation for advanced cases the average duration of stay in hospital or sanatorium tends to lengthen. On 31st December, 1937, with an increase of 57 beds occupied in outside institutions, the waiting list stood at the same figure as it had done 12 months before.

Table XVII on page 80 relating to the work of the dispensaries shows in most items an increase over the figures for the previous year, and over all an increasing amount of work carried out by the same medical staff.

TABLE. XVIII.

| (a) | SHOWING | THE | EXTENT OF | RESIDENTIAL | TREATMENT | AND OBSERV | VATION DURING |
|-----|----------|------|-------------|--------------|-------------|------------|---------------|
| | THE YEAR | 1937 | IN INSTITUT | TIONS (OTHER | THAN PUBLIC | ASSISTANCE | INSTITUTIONS) |

| - William I and a start of the | | | | | | 1 |
|---|------------------|---|--|--|--|--|
| | | 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 | 6 | 49 | 51 | - | 4 |
| Number of doubtfully | Adult females | 3 | 52 | 49 | 1 | Б |
| tuberculous cases ad- mitted for observation | Children | 15 | 93 | 87 | 2 | 19 |
| | Total | 24 | 194 | 187 | 3 | 28 |
| | Adult males | 293 | 497 | 359 | 98 | 333 |
| Number of patients suffering from pulmon- | Adult females | 228 | 447 | 342 | 72 | 261 |
| ary tuberculosis | Children | 12 | 42 | 30 | 2 | 22 |
| | Total | 533 | 986 | 731 | 172 | 616 |
| | Adult males | 39 | 56 | 45 | 3 | 47 |
| Number of patients suffering from non- | Adult females | 55 | 59 | 55 | 3 | 58 |
| pulmonary tuberculosis | Children | 131 | 134 | 144 | 3 | 118 |
| | Total | 225 | 249 | 244 | 9 | 221 |
| GRAND TOTAL . | | 782 | 1429 | 1162 | 184 | 865 |

| | | 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 | 13 | 50 | 38 | 13 | 12 |
| Number of patients suffering from pulmon- ary tuberculosis | Adult females | 7 | 26 | 17 | 7 | 9 |
| | Children | - | - | - 5 | - | - |
| | Total | 20 | 76 | 55 | 20 | 21 |
| | Adult males | 1 | 2 | 2 | - | 1 |
| Number of patients suffering from non-pul- | Adult females | 2 | - | 1 | - | 1 |
| monary tuberculosis | Children | 1 | _ | 1 | - | - |
| | Total | 4 | 2 | 4 | _ | 2 |
| GRAND TOTAL . | | 24 | 78 | 59 | 20 | 23 |

(b) Showing the Extent of Residential Treatment provided during the Year 1937 in Public Assistance Institutions.

(c) Showing the Results of Observation of Doubtfully Tuberculous Cases Discharged from Institutions during 1937.

| Diamaria | | FOR PULMONARY TUBERCULOSIS. | | | | | | | FOR NON-PULMONARY TUBERCULOSIS. | | | | | | TOTALS. | | |
|--|--|--------------------------------|----|-----|-----------------------|----|-----|------------------------|------------------------------------|-----|-----------------------|----|-----|---------|---------|-----|--|
| Diagnosis on discharge from observation. | | Stay under 4 weeks. | | | Stay over 4 weeks. | | | Stay under 4 weeks. | | | Stay over 4 weeks. | | | TOTALS. | | | |
| | | М. | F. | Ch. | M. | F. | Ch. | M. | F. | Ch. | М. | F. | Ch. | M. | F. | Ch. | |
| Tuberculous | | 1 | 3 | 3 | 10 | 7 | 16 | - | 2 | 1 | 2 | 2 | 14 | 13 | 14 | 34 | |
| Non-tuberculous | | 17 | 14 | 7 | 15 | 12 | 15 | 1 | 3 | 1 | 3 | 5 | 30 | 36 | 34 | 53 | |
| Doubtful | | 1 | 1 | - | 1 | - | - | - | - | | - | - | - | 2 | 1 | - | |
| Died | | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | 1 | 2 | |
| TOTALS | | 19 | 18 | 10 | 26 | 20 | 31 | 1 | 5 | 4 | 5 | 7 | 44 | 51 | 50 | 89 | |

TABLE XIX.

SHOWING THE IMMEDIATE RESULTS OF TREATMENT OF DEFINITELY TUBERCULOUS PATIENTS DISCHARGED FROM INSTITUTIONS DURING THE YEAR, 1937.

| | ion on to the ion. | | | : | Dura | tion | of Re | sider | atial | Trea | tmen | t in t | be li | nstitu | ation. | | | 0 |
|---------------|---|---|----------------|---|------------|----------------|---------------|-----------|---------------|----------------|-------------|-------------------------|---------------|------------|-----------------|----------------|--------------|------------------|
| | Classification on admission to the Institution. | Condition at time of discharge. | but | Under 3 months but exceeding 28 days. | | | mon | ths. | 6-12 months. | | | More than 12 months. | | | r | 'OTAI | .8. | GRAND TOTALS. |
| | Clas | | М. | F. | Ch. | М. | F. | Ch. | M. | F. | Ch. | M. | F. | Ch. | M. | F. | Ch. | |
| | Class T.B. minus. | Quiescent Not quiescent Died in Institution | 23 6 6 | 18 9 2 | 3111 | 12 8 | 12 15 4 | 8 2 | 10 8 1 | 20 14 2 | 7 | 742 | 6 4 | 3 | 52 26 9 | 56 42 8 | 21 3 1 | 129 71 18 |
| TUBERCULOSIS. | Class T.B. plus. Group 1. | Quiescent Not quiescent Died in Institution | 5 2 1 | 8 2 2 | | 6 3 1 | 16 13 | | 331 | 11 1 4 | | 1 1 | 3 7 | | 15 9 3 | 38 23 6 | | 53 32 9 |
| PULMONARY 7 | | Quiescent Not quiescent Died in Institution | 13 45 14 | 13 19 12 | 1 1 | 18 46 13 | 23 24 7 | 1 | 19 43 4 | 22 27 13 | | 10 17 12 | 13 10 3 | | 60 151 43 | 71 80 35 | 2 1 | 133 232 78 |
| I | Class T.B. plus. Group 3. | Quiescent Not quiescent Died in Institution | 1 4 9 | 1 2 4 | | 1 4 5 | 1 4 3 | 1 | 4 | 1 | | 1 2 1 | 1 | | 3 14 20 | 2 6 9 | 1 | 5 20 30 |
| 1. | Г | OTALS (pulmonary) | 129 | 92 | 7 | 117 | 122 | 12 | 101 | 115 | 7 | 58 | 47 | 3 | 405 | 376 | 29 | 810 |
| LOSIS. | Bones and Joints. | Quiescent Not quiescent Died in Institution | 4 | 1 1 | 4 1 1 | 7 1 1 | 2 | 8 | 4 | 9 | 5 | 6 3 | 7 | 31 | 21 4 2 | 19 1 1 | 48 1 1 | 88 6 4 |
| TUBEROULOSIS. | Abdo- minal. | Quiescent Not quiescent Died in Institution | ·:: 2 | 2 | 4 | 1 | `i | 4 | | 4 1 1 | 7 1 | | 2 | 3 | 1 2 | 6 4 1 | 18 1 | 25 7 1 |
| NON-PULMONARY | Other Organs. | Quiescent Not quiescent Died in Institution | 1 2 | 3 1 | 7 1 | 3 | 3 | | 2 1 | 2 1 | 3 1 | 3 | | 7 1 | 6 6 | 8 2 | 17 1 2 | 31 9 2 |
| NON- | Peri- pheral Glands. | Quiescent Not quiescent Died in Institution | 2 1 | 1 | 14 | 1 1 | 5 | 24 | | 1 | 12 1 | | | 2 | 311 | 7 | 52 1 | 62 2 1 |
| | TOTAL | 8 (non-pulmonary) | 13 | 9 | 32 | 15 | 11 | 36 | 7 | 19 | 30 | 12 | 10 | 44 | 47 | 49 | 142 | 238 |

In the Annual Report for 1936 a fear was expressed that the enhanced accuracy and rapidity of diagnosis afforded by X-rays in pulmonary disease would lead to a neglect of examination of the sputum. The finding of tubercle bacilli in the sputum is, of course, direct evidence of the presence of tuberculous infection. The returns for 1937 show that this fear was groundless for the number of sputum examinations carried out at the Counties Public Health Laboratories is up by almost 20 per cent. The number of X-ray examinations shows a more substantial increase (27 per cent.) and there can be no doubt that this makes the service of greater value to the general medical practitioner as well as to the community. 27 per cent. is a smaller proportionate increase than last year, and may indicate that saturation point is being approached. In 1937 over 4,000 consultations with the tuberculosis officers took place. It will be realised, therefore, that the tuberculosis service is a consultative one, and must be staffed by specialist officers if it is to fulfil its functions. We are dealing with a disease notoriously difficult to diagnose in the early stages, and requiring special knowledge for its assessment. The number of consultations provided by the dispensary staff grows and is a welcome instance of increasing co-operation between the general practitioner and the public service which is so much advocated to-day.

During the year ended 31st December, 1937, the cost of X-ray photographs taken by apparatus, other than that belonging to the County Council, amounted to £958.

The only notable falling off is one of 122 in the number of tuberculosis officers' visits to patients' homes, but this is primarily a duty for health visitors, so that the tuberculosis officers may be set free for consultative duties. 23,647 visits were made by these nurses during the year—an increase of 618. The only figure giving any concern is the small number of contacts examined.

Contact examination has not proved as valuable as had been hoped in the early days of the campaign, but here is the very *fons et origo mali*. How many "woeful pageants" does one see where tubercle—preventable disease—knocks again and again at the same door. Yet the ages at which it strikes are as clearly defined as the seven ages of man. Essex youth differs not at all from youth generally in this country, where all tuberculosis workers unite in complaining that the adolescent contact, whose danger is greatest, refuses medical examination, supervision and advice on which his future may depend.

The examination of the elderly so-called contact, who may be the source of infection in the household, is no less important, and often as difficult to secure.

The following record from Dr. J. G. Currid, Tuberculosis Officer in the Ilford Area, illustrates the success which may attend the persistent pursuit of contacts. Though no early case was found, the source of infection was traced and dealt with :---

> "A child, aged 10 months, died of tuberculous meningitis in a London Hospital one November, and the cause of death was confirmed by post mortem examination. The remaining members of the household were the parents, two sisters, and two lodgers of long standing."

"Both sisters were examined on 15th December, and while one, aged 17 years, showed X-ray evidence of a healed infection, the other, 13 years of age showed in the chest radiogram healed disease of juvenile type. Neither was infectious, but both had evidently been in close contact with infection."

"The parents were examined at the same time. The father was found to be 'catarrhal', but not tuberculous, and the mother, although in childhood she had had various tuberculous bony lesions, healed these many years, could be assured that she had not been infectious in the recent past, nor, it was probable, at any time."

"The first lodger, a woman aged 32 years, attended for examination on 15th January, but despite a history of winter coughs, no evidence of tuberculosis was detected. On 28th January the remaining lodger, a man of 33 years, eventually attended. He had had a variable cough and expectoration for some years, improved by periodic abstention from smoking, but denied any other symptoms. Both physical and X-ray examination showed he had signs of chronic, sluggish tuberculosis of the lungs. His sputum contained tubercle bacilli. He was quite fit for work and, on advice, removed to a household where there were no young people at risk, and was instructed in a mode of life which would make the passing of infection to others unlikely."

Only sustained unremitting effort will secure the examination of the adolescent and adult contacts, and the health visitor, more than the tuberculosis officer, plays the leading role. For this part she requires enthusiasm, tact and patience. It is necessary for her to be well informed in her subject, but above all she must have a personality, more valuable than educational attainments, and it is her duty to direct the attention of the tuberculosis officer to any special family and environmental conditions which may exist.

One examination will exclude an individual from the suspicion of harbouring the primary source of infection but, however thorough it may be, it can give assurance of health only for the immediate present. A Lancashire investigation of some years ago showed that an average period of $3\frac{1}{2}$ years elapsed before secondary cases showed themselves, *i.e.*, before disease developed in the contacts. Repeated examination, therefore, is necessary, more especially as adolescence is reached. Too often, with the death of the original patient the firm link with the dispensary is broken.

Reference was made in last year's Annual Report to the need for Institutional accommodation for patients with advanced and those with chronic intermediate disease, and with this the position of contacts is intimately linked. Segregation of the advanced case is devoutly to be wished and it was noted in that Report that "70 per cent. of deaths from pulmonary tuberculosis in Essex take place at home, frequently in surroundings which make unwelcome legacy of disease all the more likely." That is still true of 1937. Doubts have been cast on the need for Sanatorium treatment of the chronic intermediate case because the ultimate clinical results as a whole are necessarily small, but the treatment is an education and many relapses are precipitated because time has dimmed the lessons of the Sanatorium, and often more serious relapses are prevented by timely treatment. Such patients may be as dangerous as their more advanced fellows, for their very ability to get about makes the dissemination of infection easier, the observance of hygiene appears less needful, and family contact more close. The development of tuberculosis, no less than of other parasitic disease, is an indication that the immunity of the host has failed to keep pace with the infecting organisms. The prime factor in the heavy incidence of tuberculosis among contacts has been accepted as "massive infection", so universally accepted and declaimed that its meaning has become obscured and is rarely questioned. There appears no reason to doubt that often the dose is "massive" because it is repeated at short intervals, nor that the fate of household contacts may depend on the Sanatorium treatment and incidental temporary segregation of the chronic intermediate case.

(1) COUNTY SANATORIA.

(a) BLACK NOTLEY SANATORIUM. Dr. M. C. Wilkinson, Medical Superintendent of the Black Notley Sanatorium, reports as follows on the work carried out during 1937 :—

> On the 7th July, 1937, the extensions of the Sanatorium were opened by the Right Hon. Sir Kingsley Wood, M.P. It will suffice to say that scarcely any department of the old Sanatorium has been left untouched and that all have been expanded to meet the additional number of patients. Not only in buildings, but in personnel, the Sanatorium services have been supplemented. It may be claimed as a result that Black Notley is an institution in which any form of tuberculosis can be treated. This is a great advantage, as modern methods of treating both the pulmonary and non-pulmonary forms of the disease are beginning to converge as more is learned of its underlying pathology, and as it becomes apparent that a patient does not suffer from tuberculosis of the lungs only, or of the hip only, but that both are a local manifestation of a generalised disease. Mention will be made in each section of new developments.

> Treatment of Pulmonary Tuberculosis. (Consulting Physician : Dr. W. Burton Wood). As a result of the extended accommodation there are now available at the Sanatorium twenty-five additional beds for the treatment of young adult pulmonary tuberculosis, forty beds for the treatment of adult type pulmonary tuberculosis in females, and a maternity unit for the care of tuberculous women during and after their confinement. The latter unit consists of a separate annexe to the ward for adult women and is complete in itself with lying-in room, labour ward, sterilising room, bathroom and sanitary annexe. Hopes are entertained that the unit will serve a useful purpose for the aid of tuberculous mothers whose health might be jeopardised by confinement under less propitious circumstances. Special mention should be made of the site of the adult women's ward. These women require often certain forms of active treatment, but rest under healthy and peaceful surroundings is also important. This ward is the southernmost one in the Sanatorium, has a garden which may be regarded as private, and an uninterrupted view of beautiful country surroundings.

> The work in the pulmonary wards has been carried out by Dr. Cohen under the direction of Dr. Burton Wood. Rest and treatment by artificial

pneumo thorax remain the main lines of treatment. Operations for the division of adhesions have been developed by Dr. Burton Wood as an aid to procure the successful collapse of a lung of a patient having artificial pneumo-thorax treatment. Twenty-two of these operations have been performed in 1937, as opposed to six in 1936. By this means the outlook of a considerable number of patients has been improved.

Particulars of treatment in the wards for pulmonary tuberculosis are as follows :---

| Number of artificial pneumo | thorax ind | luctions | | | 33 |
|-------------------------------|-------------|----------|----------|------------|-------|
| Number of artificial pneumo | othorax cas | es under | treatmen | nt : | |
| In-patients | | | | 91 | |
| Out-patients | | | | 18 | |
| | | | | | 109 |
| Number of refills given : | | | | | |
| In-patients | | | | 1,436 | |
| Out-patients | | | · | 248 | |
| * | | | | | 1,684 |
| Number of cases treated by | sanocrysin | | | | 18 |
| Number of cases treated by | | | livision | of pleural | |
| adhesions | | | | | 22 |
| Number of phrenic avulsions | 8 | | | | (|
| Cases transferred for thoraco | oplasty | | | | 1 |
| | | | | | |

Non-pulmonary Tuberculosis. (Consulting Surgeon : Sir HENRY GAUVAIN, K.B.E.). The new extensions have included a forty bed ward for the treatment of women suffering from non-pulmonary tuberculosis. This ward is divided into cubicles, which are preferred by adult patients. In addition, the new children's block is being used as improved, though temporary, accommodation for the male adult patients suffering from nonpulmonary tuberculosis. A noteworthy feature of both these wards are the wide and weather proof verandahs, which greatly facilitate open air treatment. There are also extensions to the verandahs on to which patients may be wheeled for sun treatment. The controversy concerning the choice of method of treating tuberculous joints is now subsiding, as it is becoming recognised that constitutional treatment is essential for a cure of the disease and that in some cases stabilising operations are essential to correct mechanical defects and to prevent crippling. Full facilities for both these forms of treatment are provided at the Sanatorium. It is our good fortune at Black Notley also to have facilities for the treatment of renal, abdominal and glandular tuberculosis, as the outlook in these forms of disease is improved when treatment is undertaken under Sanatorium conditions. The methods of treating joint tuberculosis by conservative means have been long taught and practised by Sir Henry Gauvain and are now generally recognised. It is also a pleasure to acknowledge the valuable help afforded by the operative skill of Mr. R. Reid, M.S., F.R.C.S., and by his particular knowledge of renal, genital and glandular tuberculosis. Dr. Fagge has by his skill and special study of anæsthetics in tuberculous patients greatly contributed to the efficiency and safety of the surgical work.

During 1937 the operating theatre was enlarged and a new sterilising room and sluice room were added. The resulting operating theatre is a great improvement and is roomy and well lighted.

Number of Operations. (Consulting Surgeon : Mr. R. REID, M.S., F.R.C.S.) :---

| Cystoscopies | | | 23 |
|----------------------------|---------|-------|-----|
| Excision of tuberculous g | lands | | 14 |
| Tonsillectomy | | | 2 |
| Excisions of knee | | | 2 |
| Hip arthrodesis | | | 2 |
| Osteotomy of hip | | | 4 |
| Albee graft | | * | 2 |
| Phrenic avulsions | | | 6 |
| Nephrectomy | | | 4 |
| Synovectomy of knee | | | 4 |
| Laparotomy | | | 4 |
| Various | | | 16 |
| For tuberculous abscess of | r sinus | | 32 |
| | | | |
| | | | 115 |
| | | | |

Immunisation against Diphtheria and Scarlet Fever. I am indebted to Dr. Cohen, who has carried out this work, for the following note :--

"The immunisation of children up to the age of 12 has been carried out on the same lines as in previous years. The freedom from undesirable reactions to the injections is noteworthy, and the efficiency of the immunisations was tested by the occurrence of one case of scarlet fever and the presence of a nasal carrier of diphtheria, each occurring in a children's ward. No secondary cases arose from either of these, and there were no other cases of infectious disease during the year.

One case of faucial diphtheria occurred in a probationer nurse. The source of infection was traced to the nasal carrier referred to above. The following summarises the results for the year ending April 1st, 1938 :---

| | | ted or | amune | | Suscept- | nmuni | ischarge before final test. | ed | Immunisa- tion confirmed by final test. |
|-----------------------------|-----|--------|--------|-----|----------|--------|--------------------------------------|-----|---|
| Diphtheria | | 94 | 34 | | 60 | 57 | 16 | | 38 |
| Immunisati | ion | | | | | | | | |
| Scarlet Fever Immunisati | | 91 | 31 | ••• | 60 | 56 | 17 | ••• | 56 |

X-Ray Department. (Consulting Radiologist : DR. FRANKLIN G. WOOD). At present arrangements are being made for the installation of tomography apparatus. This is a recent development in the technique of chest radiography

90

The X-ray department may almost be regarded as the hub on which the wheels of the treatment of pulmonary and non-pulmonary cases revolve, as radiography has become the most accurate method of assessing the progress of each patient. Miss Slater, under the direction of Dr. Franklin Wood, has ably maintained the high standard that is necessary.

> Number of patients X-rayed during the year . . 2,300 Screening examinations (approximately) . . 25 per week.

Artificial Light Treatment. (Consulting Dermatologist : DR. A. BURROWS). The artificial light treatment department has been rebuilt and considerably enlarged. There are now a changing room, two cubicles for treatment by mercury vapour lamps and one room for treatment by carbon arc lamps. An additional Kromayer lamp has also been installed. Under the direction of Dr. A. Burrows artificial light treatment is given in large doses to patients in special need of it during the winter months. It is at the end of the winter months that patients suffering from non-pulmonary tuberculosis tend to relapse or to develop complications, and artificial light therapy is used to prevent this retrogression in patients whom it threatens.

The following treatments were given during 1937 :---

General Treatments.

| Carbon Arc lamps | 2,559 treatments. |
|------------------------|-----------------------|
| Mercury Vapour lamps | 2,180 ,, |
| Local Treatments. | |
| Infra red ray thereapy | 99 treatments. |
| Kromayer lamps | 210 ,, |

Laboratory. (Consulting Pathologist : Dr. F. CAMPS). During 1937 the laboratory was re-equipped, principally for the purpose of carrying out at the Sanatorium research into some of the many problems which are encountered in the treatment of tuberculosis patients. A full-time laboratory attendant has been appointed. An opportunity has thus been provided to combine laboratory and clinical investigations, which should prove fruitful. Under the direction of Dr. F. Camps a start has been made in this work : special reference may be made to an investigation into the incidence of the human and bovine strains in various forms of tuberculous disease and also to an investigation into the number of patients who suffer from tuberculous bacilluria with no symptoms of renal tuberculosis.

The following examinations were made during the year :---

| Bacteriológical examinations of sputum | 95 |
|--|-----|
| Bacterial examinations of urine | 84 |
| Blood counts | 24 |
| Blood sedimentation rate tests | 528 |
| Various | 15 |
| | |
| | |

746

Out-Patient Department. During 1937 out-patient attendances were as follows :---

| To see Sir Henry Gauvain | | 26 |
|---------------------------------|------|-----|
| Dr. Burton Wood's Clinics | | 328 |
| Seen by Medical Superintendent | | 39 |
| Attendances for A.P. refills | | 201 |
| Attendances for X-ray | | 553 |
| Attendances for Light Treatment | | 177 |

Dental Treatment. Regular dental inspections and treatment have been carried out by Mr. S. K. Donaldson and Mr. J. Edgar. The importance of this work has been emphasised in previous reports.

Nursing Staff Accommodation. To meet the extra accommodation required for nursing staff a new Nurses' Home has been built. This includes a nurses' lecture room well equipped with anatomical and other models. The new Nurses' Home provides a comfortable bed-sitting room for each member of the nursing staff, with communal sitting rooms.

During 1937 a service was started by which the Sanatorium car has been made available for staff for return journeys from Braintree at certain times on two nights of the week. This experiment has met with sufficient success to warrant its extension in the future.

Splints. During 1937 a full-time splintmaker was appointed. His services have been extremely valuable in the treatment of non-pulmonary tuberculous patients. In addition to daily visits to the wards to adjust apparatus in use, he makes the celluloid splints with which the patients are discharged and the majority of stock splints in use in the wards. His work is being extended to include all forms of metal work for splints.

Articles published during the year in the Medical Press on work at the Sanatorium :---

> "Tuberculosis of the Cervical Lymphatic Glands," by R. Reid, M.S.Lond., F.R.C.S., and M. C. Wilkinson, M.B.Lond.

Finally, my appreciation should be expressed for the valuable services of my colleagues.

The following accommodation is now available at this Sanatorium :--

| Type of Case. | | beds. |
|----------------------|------|---------|
| Women (pulmonary) | | 140 |
| ,, (surgical) | | 40 |
| Children (pulmonary) | | 32 |
| ,, (surgical) | | 32 |
| Men (surgical) | | 28 |
| | | |
| | | 272 |

| U | | | Quiescent. | Q | Not uiescent. | Tul | Non- berculous. |
|--------------------------|---------|----------|------------|---|------------------|-----|--------------------|
| Pulmonary tuberculosis- | -ages | between | | | | | |
| 14-28 years | | | 60 | | 25 | | _ |
| Pulmonary tuberculosis- | -over | 28 years | 15 | | 19 | | _ |
| Observation cases discha | arged a | as nega- | | | | | |
| tive | | | | | _ | | 8 |
| Children under 14 y | ears. | | | | | | |
| Pulmonary tuberculosis | | | 23 | | 5 | | |
| Mediastinal glands | | | 4 | | _ | | |
| Hilum tuberculosis | | | 1 | | 2 | | _ |
| Tuberculous pleurisy | | | 2 | | - | | _ |
| Pulmonary tuberculosis a | and T.I | B. elbow | 1 | | _ | | _ |
| Pulmonary tuberculosis | and T. | B. wrist | 1 | | - | | - |
| Observation cases discha | arged a | as nega- | | | | | |
| tive | | | | | - | | 9 |
| | | | | | - | | |
| | | | 107 | | 51 | | 17 |
| | | | | | | | - |

Patients Discharged from January 1st, 1937, to December 31st, 1937. Pulmonary Adults.

Total .. 175

Patients Discharged from January 1st, 1937, to December 31st, 1937. Non-Pulmonary Adults.

| | | | Ģ | uiescent | | Not Quiescent. | Tu | Non- berculous. |
|--------------|------------|---------------|--------|----------|----|-------------------|----|--------------------|
| Adenitis | | | | 5 | | - | | — |
| Tabes Meser | nterica | | | 5 | | 2 | | — |
| Peritonitis | | | | 4 | | 2 | | — |
| Abdomen an | nd ulcerat | ive colitis | | - | | 1 | | - |
| Spine | | | | 9 | | 7 | | |
| Hip | | | | 6 | | 1 | | - |
| Ankle | | | | 1 | 1. | | | - |
| Sacro-iliac | | | | 1 | | - | | |
| Kidney | | | | 1 | | 1 | | - |
| Knee | | | | 4 | | - | | |
| Wrist | | | | 1 | | — | | |
| Various | | | | - | | 2 | | |
| Mixed | | | | 9 | | 8 | | |
| Genito-urina | ary | | | 5 | | 5 | | - |
| Observation | cases dis | scharged as | nega- | | | | | |
| tive | | | | | | - | | 9 |
| Admitted as | s tubercul | lous diagnosi | is not | | | | | |
| confirmed | 1 | | | | | _ | | 3 |
| | | | | | | - | | _ |
| | | | | 51 | | 29 | | 12 |
| | | | | - | | | | |

Total ..

92

. .

| | | | | Quiescen | t. | Not Quiescent. | Tu | Non- berculous. |
|--------------------------|-----------|-------------|-----------|----------|-----|-------------------|-----|--------------------|
| Adenitis | | | | 6 | | 2 | | |
| Scrofuloder | | | | 1 | | - | | |
| Tabes Meser | nterica | | | 9 | | 3 | | |
| Peritonitis | | | | 1 | | 1 | | |
| Enteritis | | | | - | | 1 | | |
| Spine | | | | 7 | | 1 | | _ |
| Hip | | | | 10 | | 2 | | _ |
| Elbow | | | | 1 | | _ | | |
| Knee | 1. | | | 8 | | _ | | |
| Sacro-iliac | | | | 1 | | _ | | |
| Various | | | | _ | | 1 | | _ |
| Ankle | | | | 1 | | _ | | _ |
| Renal tuber | culosis | | | | | 1 | | |
| Cæcum | | | | 1 | | _ | | _ |
| Observation | cases dis | | | | | | | |
| tive | | | | 3 | - | _ | | 3 |
| Admitted as | | | | | | | | 0 |
| confirmed | | | | 2 | | _ | | 2 |
| | | | | _ | | _ | ••• | |
| | | | | 46 | | 12 | | 5 |
| | | | | - | | | | - |
| То | tal | | 63 | | | | | |
| Total numb Total numb | | | | | ged | | | .75 .55 |
| То | tal numbe | r of Patier | nts disch | arged | | | 3 | 30 |

Patients Discharged from January 1st, 1937, to December 31st, 1937. Non-Pulmonary Children.

(b) HAROLD COURT SANATORIUM. Dr. F. G. Brown, Medical Superintendent of the Harold Court Sanatorium, reports as follows on the work carried out during 1937 :---

During the year two new Staff cottages were completed. These are occupied by the Chauffeur-handyman and the General Orderly. It is of considerable advantage to the Institution for these men to reside on the premises.

A system of house-telephones was installed throughout the Sanatorium, a total of nine instruments being provided ; this means of communication has proved a great boon to all members of the Staff.

A new and up-to-date apparatus for the sterilisation of sputum was installed during the year. This replaces an old steriliser which had become worn-out and obsolete.

The following table gives particulars of patients admitted and discharged during the year :---

| No. of patients | admitted during the year | | 21 |
|------------------------------|-------------------------------|---------|-----|
| No. of patients follows : | discharged during the year a | S | 21 |
| Discharged hon | ne after a period of treatmen | t | 154 |
| Transferred to | The London Chest Hospital | | 20 |
| ,, | Ilford Sanatorium | | 11 |
| ,, | Papworth Village Settlement | t | 6 |
| ,, | British Legion Village Presto | on Hall | 4 |
| ,, | Thurrock Sanatorium | | 4 |
| ,, | Burrow Hill Sanatorium Col | ony | 3 |
| ,, | Black Notley Sanatorium | | 2 |
| ,, | Liverpool Road Hospital | | 1 |
| ., | Maldon Institution | | 1 |
| | Oldchurch Hospital | | 1 |
| ,, | Romford Isolation Hospital | | 1 |
| 33 | Royal National Sanatorium | | |
| ** | Ventnor | | 1 |
| Died | | | 1 |
| | | | 210 |

Patients who were discharged with disease quiescent, or who had made material improvement—75 per cent.

Patients, who on discharge had either made no improvement or slight improvement only-25 per cent.

X-Ray Department. The films taken continue to be of a high standard.

Photographs taken during the year are as follows :---

| In-Patie | ents | | 926 |
|----------|--------|------|---------|
| Out-Pat | tients | | 632 |
| Staff | | | 41 |
| | | | |
| | | | 1,599 |

This shows an increase of 243 over those taken during 1936, and of 484 over those taken in 1935.

Treatment.

Artificial pneumothorax has been carried out as follows :---

| No. of patients who have received treatment | 84 |
|---|-----------|
| Total number of refills given | 1,380 |
| No. of cases induced at Harold Court | 21 |
| No. of Out-Patients | 31 |

A feature of this treatment is the increased number of cases on which thoracoscopy and division of adhesions was performed, 13 cases having been transferred to the London Chest Hospital for this purpose, which has, in most cases, considerably improved the degree of collapse obtained. These cases are seen by Dr. Burton Wood at the Sanatorium and, whenever possible, are admitted under his care at the Hospital; thus a close liason between Sanatorium and Hospital is maintained.

Other forms of Treatment. Three cases were transferred to the London Chest Hospital for the operation of phrenic avulsion and one for the operation of thoracoplasty.

Gold Therapy. 27 patients received this treatment, a total number of 215 injections being given.

Staff.

At the end of the year the number of ex-patients employed as nursing orderlies had been increased to five. These men continue to give satisfactory service.

(c) HIGH BEECH SANATORIUM. Dr. L. S. Fry, Medical Officer of the High Beech Sanatorium, reports as follows on the work carried out during 1937 :---

I give below an analysis of the cases admitted during the year :---

| Tuberculous | Cervical Glands | | 39 (| cases. |
|--------------|-------------------|------|------|--------|
| ,, | Mesenteric Glands | | 5 | |
| ,, | Bones and Joints | | 2 | ,, |
| ,, | Scrofuloderma | | 1 | ,, |
| " Observatio | n" | | 42 | ,, |
| | | | - | |
| | | | 89 | |

During the year one death from Miliary Tuberculosis occurred at the Sanatorium.

-The serial Mantoux Test was carried out in 20 cases with the following results :---

Positive—14 cases. Negative in three dilutions—15 cases.

Infectious disease. One child developed nasal diphtheria a few days after admission and was removed to the isolation hospital. No further cases occurred. There was a small outbreak of whooping cough in the young children's ward in the early part of the year, which was apparently controlled by the administration of whooping cough vaccine to susceptible contacts, and cases in the early stage of the disease.

Diphtheria Immunisation. As in previous years all children were Schick tested on admission and those giving a positive reaction immunised. A summary of the results is given below :---

| Primary Schick negative. | 5 | mary ek pl | Alur and | n jection n Toxo l Schiel gative. | oid k | Alum and | jection 1 Toxoi Schick olus. | d | be | nargeo fore chick. | Not in ised course compl | or not | |
|--------------------------------|---|---------------|-------------|--|----------|-------------|---------------------------------------|---|----|--------------------------|-----------------------------------|-----------|--|
| 17 | | 52 | | 15 | | | 6 | | | 7 | | 9 | |

During the last three months of the year a selected group of children, all Schick positive, were immunised by Jensen's combined method.

The procedure consists in giving one subcutaneous injection of 1 c.c. of purified $A1.OH_3$ Toxoid, followed in one month by three weekly instillations of 10 nasal drops (five into each nostril) of purified toxoid. Dr. O'Brien of the Wellcome Research Laboratories kindly carried out antitoxin titrations on the blood of these cases before and after immunisation. The investigation is not yet complete, but the results obtained hitherto show the excellent response evoked by the combined stimulus of subcutaneous injection and nasal instillations.

Although probably not suited for general use in clinics, the method is easily carried out in hospital and has the advantage of reducing the number of skin punctures, besides giving a very high antitoxin response.

A summary of the results obtained with this method is given below :---

Diphtheria Antitoxin response to 1 c.c. A1.OH 3 Toxoid (10 cases) or 0.5 c.c. Alum Toxoid (B.W. & Co.) (4 cases) + 3 Nasal Instillations of 10 drops purified Toxoid at weekly intervals.

| | before treat | | | | | |
|-----------------|--------------|----------------------|----------------|----------------------|-----------------------|-----------------------|
| | Unit per | c.c. | Antitoxin leve | l after treatm | ent. Units pe | r c.c. |
| Total cases. | 1/1000 | 10 units per c.c. | | 1/5 unit per c.c. | 1/10 unit per c.c. | 1/25 unit per c.c. |
| 14 | 14 | 1 | 1 | . 1 . | . 10 . | . 1 |

All the cases were Schick negative after treatment.

Travelling Facilities for Patients.

An amount of £50 13s. 2d. was expended during the year in providing necessitous patients with free travelling vouchers upon admission or discharge from Institutions, and special visits to "Out-Patient" Departments.

Extra Nourishment.

With the increased number of patients receiving institutional treatment there is a corresponding increase in the number of patients eligible for extra nourishment under the County Scheme. During 1937 an amount of £816 4s. 11d. was expended in providing one pint of milk daily for 299 patients.

Care Associations.

Table XXII gives a summary of the work done during 1937, by the Voluntary Care Associations established in the County. Continued enthusiasm each year continues to be displayed amongst the personnel forming these Associations, and there is no doubt that the work accomplished proves the need for the existence of such organisations.

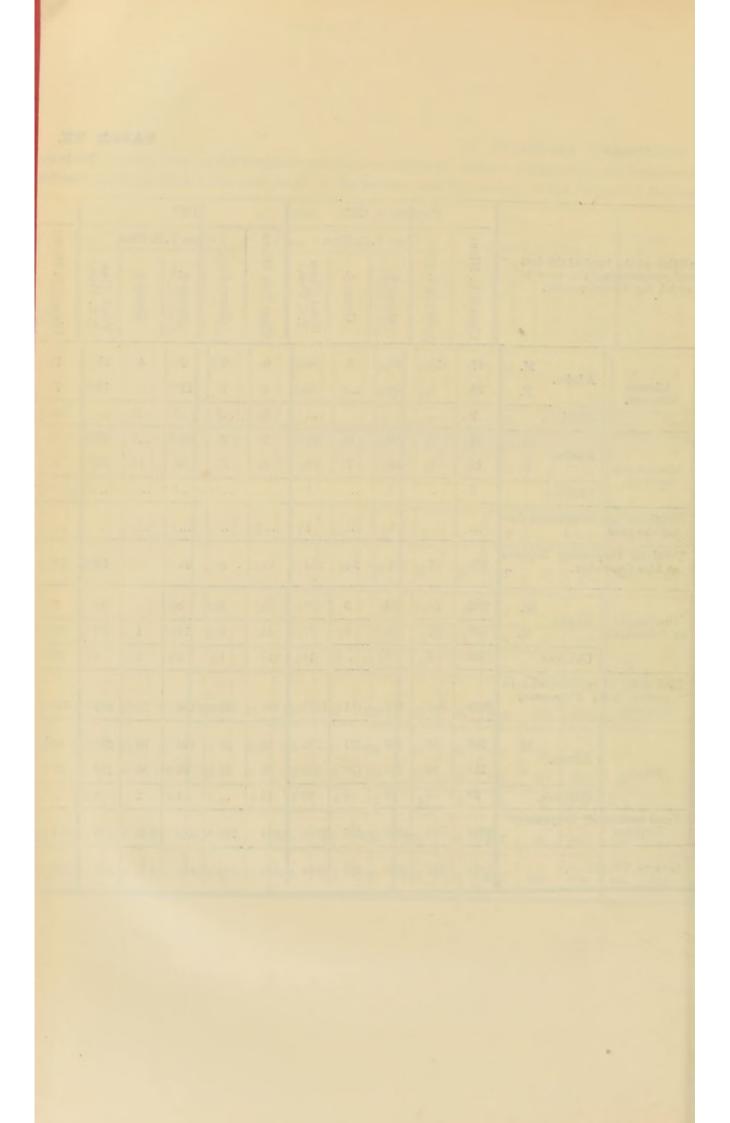
During 1937 the Public Assistance Committee of the County Council agreed to provide such extra nourishment as the Tuberculosis Officer recommended for any family in which there was a case of tuberculosis, and where Public Assistance Relief was already being given. This concession has proved of great value to the Care Associations as it will be readily understood that a large number of patients previously assisted from the Care Associations' Funds came within this category.

Prevention of Spread of Infection.

No action was taken during the year under Section 62 of the Public Health Act, 1925, for the compulsory segregation of an infectious tuberculosis patient.

The number of shelters on loan to patients at their homes during 1937 was 81.

| | | | | | | | T | ABLE | Table vi. | awing i hie in w | in semina manged as | ary form | (a) the to the p | ecoditio poars in | o at th which | e and u the pol | d 1907 (blante w | d all p | Alente : | | ag on th | ENCLES to Dispo | neary Re | gister ; ; definite | and (b) | the reas | ans dor 1 abry tab | ha remo | real of sil | l cases w | rittea off deation a | the Reg 4 that 10 | jetter. | | | | | | | | | | | | | | 4 | 984 |
|--|-----------------|-------------|---------|----------------------------|----------------|----------|----------|--------------|-----------------|---------------------|------------------------|-------------|------------------|----------------------|------------------|--------------------|----------------------|---------------|------------|----------|----------------------------|--------------------|-------------|------------------------|--------------|----------------|-----------------------|----------|------------------------------|----------------|-------------------------|----------------------|--------------------------|----------------|----------------|----------|----------------------------|--------------|------------|----------|---------------------------|---------------|----------|----------|----------------------------|-------------|--------------------|--------|
| 1 | | Previou | 14 1921 | 1 | | | 1927. | | 1 | | 1954 | | 1 | | 1929. | | 1 | | 19 | lb. | | 1 | E | 10. | | 1 | | 192. | | 1 | 18 | 68. | | 1 | 110 | N. | 1 | | 1 | 1585. | | T | 11 | 106. | | 1 | 190 | |
| | 5 | | T.R. B | in a second | 11 | | T.R. P | Tun | 1 | | 1am T. B. 1 | Plas. | 1 | 0 | into T.I | I. Phis. | | 1 | Class | T.B.P | ius. | 1 | Cla | # T. R. I | Piss. | 1 | Ca | + T.B. | Pins. | 1 | Cia-s | T.R. P | Ine. | 1 | Class | T.E. P | - | 1 | Ch | HTR. | Plu ~ | II | Cia | = 7.8. P | ha. | 11 | Class | e T.B. |
| ness at the tone of the last rands during the year to odd the listory relates. | Class T. R. No. | Group I. | Green 2 | Total (Class T.0. Plac) | Class T.R. Mis | Group 1. | Gauge E. | Total (Class | Class T. R. Mis | Group I. | Group 2 | Tead of the | Case T.E. Mi | Group 1. | Greep 2. | Greep X. | T.R. Find | Chen T. P. Mi | Greep L | Group 2. | Total (Class T.R. Flas) | Class T.R. Mi | Group 1. | Group I. Group I. | Total (Class | Class T.R. Mil | Orrop I. | Group 2. | Tetal (Class 7.11. Plas). | Class T.R. Nia | Group L. | Group 2 | Teld (Care T.R. Place | Cher T.R. Mile | Group I. | George & | Total (Class T.B. Plan) | Casa 7.3, M5 | Group L. | Group E. | Test (Class T.K. Plan. | Class T.B. Mi | Group 1. | Graph | Total (Chan T.N. Phas.) | Case T.R. M | Group 1 Group 2 | |
| Tissars Adults. N. | 87 26 | 17 0 8 1 | 0 . | N3 38 | 8 | | 9 0 | 4 15 13 | | 7 | 15 | 17 | 12 | | 10 31 | | 18 | 14 | 8 1 4 1 | - | 21 19 | 55 51 | 8 3 10 3 | 18 2 19 | 25 38 | 40 26 | | | 1 34 1 30 | 25 47 | 30 20 4 33 | | 30 10 | 45 | 13 28 13 10 | | | 30 52 | 6 1 3 1 | 14 - | 20 13 | | + + | | - | - | | |
| Cultines | 9 | - | | | 3 | | | | 5 | | | 2 2 | - | 1 | 17 | | | - | 1 . | | 1 | | 3 1 | - | 45 | 6 | 1 - | | 1 2 | 15 | 2 64 | 1 | 1 | 11 | 15 84 | - | | 6 | 18 10 | - | 126 | 110 | 13 1 141 | 12 | 178 | 14 3 | 1 199 | |
| Adulta N. | 28 | 8 1 | | s 11. 7 31 | 2 | 3 | 16 | 1 19 | | | 18 | 1 8 | 1 11 | 1 | | | | | | | | | | | | 14 | - | 29 3 | 1 34 | 21 | 1 22 | | - | 24 | 14 16 | 2 | - | | 10 8 | | 10 | 100 | 29 1.54 | | | 156 2 | 4 154 | 11 |
| arreaded. F. Children. | 3 | | | 1 01 | - | | - | | - | | | 1 | 3 | | 3 | | 3 | | | | 1 | 2 | 1 | | 1 | 3 | | 1 | 1 | 1 | | - | 2 | T | 1 1 | | 2 | 15 | | 1 | 2 | 37 | 1 | 1 | 3 | 24 | 22 | 1 |
| and basisteness for middle | - | | | | | | | - | | | 1 | | | | 1 | | 2 | 1 | 1 | | 1 | 1 | | | 1 | | 1 | 1 | 2 | | | 1 | 1 | 1201 | | | | | | | 1 | 2 | 1 | 1 | 3 | | | |
| ng the year inal on Dispetancy Register as Rist Denstoher | 122 | 36 | | 28 254 | 19 | | +1 | 5 59 | | 34 | | 5 C | 6 | 13 | 54 | 5 | | 27 | | | | 316 | 27 10 | | 141 | 230 | | | 170 | 110 | 10 140 | | 178 | 348 | 40 133 | 20 | 24 1 | | 28 277 | 13 | 272 | 320 | 1 177 | IT | 205 3 | 01 64 | 312 | 26 |
| | | | | | 1 | | - | | - | | | | - | - | | | - | - | | | - | 1 | - 10 | - | | | | - | | | 1 | 1 | 1 | | | | 1 | | | | 1 | | | | 1 | | 1 | |
| scharged Adults M. | 214 | | | 3 191 | 29 | | 3 | - 11 | | | 11 | 19 | and second in | | 4 | | | | 3 3 | | 15 | 17 | - | 3 | 4 | - | | 1 | | - | | | | | | | - | - | | - | - | | - | | - | - | | ł |
| Recovered Y. | 240 | 11 | | B 77 12 | and the second | | | 1 22 | the statement | 1 | | 3 | - | 1 | 1 | | | 7 | 4 . | - 1 | - 15 | 11 | | | | 6 | | 1 | | - | | | - | | - | | - | | | | | - | - | | | | | |
| at side of or otherwise re- | - | | - | - | - | - | - | | - | - | | | - | | - | - | - | | - | | - | - | - | | | - | | | | | | | | - | - | | | - | - | - | | - | | 1 | | | | ŧ, |
| mound from Disponsiony Englisher | 105 | 345 | 1 004 | 1179 | 104 | 129 | 180 | 20 011 | 1 10 | 74 | 133 1 | 16 235 | 110 | 65 | 149 | 17 | 234 3 | 10 | 4 11 | 4 12 | 176 | 226 | ¢1 11 | 15 9 | 196 | 117 | 37 1 | 13 13 | 1.82 | 228 | 19 199 | 12 | 156 | 118 | 11 80 | 34 | 101 10 | 14 | 8 73 | | 91 | 6 3 | 12 | | 117 3 | 5 5 | 14 | |
| м | 20 | 135 | | 271 742 | 1.0 | 21 | 10 | 66 547 | | 10 | 120 | 45 192 | 30 | 24 | 195 | 40 | === | = | 24 23 | 6 13 | 113 | 14 | e 10 | 1 24 | 215 | 39 | 8 1 | 27 20 | 145 | 77 | 10 229 | 28 | 108 | 22 | . 10 | 25 | 18 2 | 25 | 5 79 | 31 | 117 | 23 3 | 50 | 24 | 80 3 | 14 3 | 31 | |
| Duan. Adalta. F. | | | | 154 4,0 | | | 36 | 35 332 | | | | 26 115 | 11 | 1000 | 1/6 | 43 | 170 | 18 | 16 10 | 7 90 | 153 | 27 | 34 13 | | 108 | 20 | | 10 21 | 131 | 38 | P 83 | JF. | 114 | 17. | 1 21 | .21 | 18 | 4 | 5 61 | - 21 | 15 | 18 | 1 30 | 18 | 31 | 2 - | 17 | 12 |
| Chillen. | 25 | 3 | 14 | 3 25 | i. | | 1 | 2 4 | - | | 3 | 1 4 | 1 | 1 | 2 | 4 | 1 | 4 | 3 | 2 2 | | 1 | | 4 1 | . 8 | 3 | | 5 1 | | - | . 1 | | 3 | 6 | | 2 | 2 | 1 | | 2 | 2 | 2 . | - | | | 1 | - | 4 |
| fotal written off Etspensory Highter | 3150 | 291 | | 515 2430 | 645 | 116 | 448 3 | 145 288 | 1 25 | 104 | 34. 1 | 10 4.1 | 116 | 117 | 428 | 387 | 612 | 12 | 18 25 | 3 99 | 181 | 250 | 87 44 | 6 64 | 591 | 917 | 50 3 | 10 61 | 433 | 26 | 30 304 | n | 450 | 180 1 | 10 259 | 42 - 1 | NT 14 | 0 1 | 1 215 | 44 | 216 | 103 3 | 8 104 | 43 | 215 | 0 6 | 0 | |
| GRAND TWEALS | 5455 | 1.221 | 1524 | 525 THE | 0.0 | - | | | - 199 | 10 | | | 1 | 130 | | |]. | | | | - | 445 | | | 1 | | 89 3 | | | | 13 410 | 14 | | | | | 34 27 | 0 0 | 4 437 | 27 | 565 | 421 7 | . 445 | 05 | 545 0 | 65 70 | 436 | 1 |



| | 1 | Derio | a to 1922 | | - | 192 | | Table | showing | in erme | ary form i | a) the c | adition | of the en | d =4 190 | 07 of al | I patient | a remain | sing on | the Di | -prostory | Bogister | and (b | the res | ecas de | e the rem | to lawood | all cases | written. | of the R | egister. | | | | | | | | | | | | | | 98# | | |
|---|----------------|---------|--------------|-------|--------|---------------------|----------------------|-------|-----------|---------|------------|-----------------|---------|------------------|-----------|----------|-----------|------------------|---------------------|--------|------------|----------|------------|---------|-----------------------|-----------|--------------|-----------|----------|----------|-------------|-------|-----------|------|----------|----------|---------|------|--------|-------|--------|-------|--------|--------|---------|-------|---------|
| and the time of the last | 7. | * | 13 | | - | 4 | 1- | 1 | - | 190 | 1 | - | | 1909. | | | | 1900 | | | | 193 | | | | 15 | | | 1 | 110 | | 1 | | 10 | | T | | 1100 | | - | | | | | | | |
| t the Esturn relates. | Bears | Abbouch | Proper | These | Dom a | Abdomin | Puriphero Classic | Tora. | Bound and | Other | Problem | Torst. | Jointe. | Other Organic | Classic . | Torat. | Prints. | Other Organic | ulpheral University | Total. | Direct and | dominal. | with state | Tona. | inter set | Graniasi. | Chaster. | Ten | see and | brained. | 14 | unu. | inter and | 1 11 | altrait. | 111 | 1 | 1 31 | 14 | + | 1 | 2104 | 74 | - | 4 3 | 197 | 17, |
| erase Adulta M. mitel, F. | 20 | 1 | | 30 | 1 | | | 3 | 0 | 1 | 1 | 1 | 4 | 9 | - | 11 | 4 | 11 | 4 | - | 4 | 2 . | 120 | | 27 | 4 | 0 <u>2</u> 0 | | and a | - | 26 | - | 1 | 08 | 112 | the Base | ALC: NO | 8.8 | 100 | The | June 1 | 0.00 | 10 | Tour | Joint O | Other | Perioda |
| Children. | 10 | 3 | 1 0 | 33 | 15 | 1 1 | 2 | | 1 | | | | | 3 | 4 | 3 | 9 | | | | 3 | 1 1 | 2 | | 2 | 1 : | 1 1 | 18 | 1 | 5 4 | 1 | :0 | | | | | 6 7 | 1 1 | 6 | | 3 1 | 2 | | n | 3 - | - 1 | |
| Adaba E. | 4 | 1 | * 1 | 17 | - | | | 1 | 1.0 | 2 | | 2 1 | | | 5 1 | | 2 | 1 | 14 | 25 | 21 | 0 1 | 28 | 55 | 25 | 6 | 28 | 209 | 12 | t 2 | 63 | 64 | 32 | 0 3 | | | | 1 3 | | 18 | 4 2 | | | 12 1 1 | 6 1 | 3 | 1 |
| etad, Children. | | | 0 0 | 15 | | - | 1 | 1 | 1 | - | | 1 3 | 1 | 1 | | | 2 1 | 1 | | | | 1 1 | , | 6 | 4 | 1 | | 1 | 1 2 | 2 1 | 1 | | 4 | 4 | | | 5 | 1 | 1 | 13 | 4 1 | 4 | | 24 1 1 | - | - | 11 |
| tion not accertained, dur | | | | _ | | | - | | 3 | | - 1 | 3 1 | | - | | | 9 7 | | 6 | 16 | 3 | | 2 | 5 | and the second second | 3 1 | 6 | 18 | 6 | × 1 | - | | | 3 | 1 | | 5 2 | 10 | | 14 | 8 1 | 3 | | 18 11 | | 10 | |
| 1 on Dispensary Depister | | | 1 2 | | | | | | | - 2 | | _ | | | | | | 1 | | | 1. | | | | 2 | | | 2 | | 1 1 | | | | | | | - | | | 43 - | 4 8 | 3 | 18 | 0 11 | | : | 41 |
| med to Fulmonary | - | 10 | 20 1 | 10000 | 31 | 1 2 | 1 0 | 35 | 34 | 1 1 | 1 5 | 14 21 | 4 | 6 | | | 6 3 | , | 29 | 6 | | | 21 | | 53 | | 92 | | 200 | - | | | | - | | - | 1 | | | - | 1 2 | | 3 | 6 _ | | | 100 |
| | - | - | | 2 | - | | 1 - | - | - | - - | 1 | 1 - | | - | | 11 | | 1- | - 1 | -1 | 1 . | | | 11 | 1 | 1 1 | - | 1.1 | | 1 12 | 04 | 115 | 44 34 | - 10 | 54 1 | 10 01 | 16 | 28 | 118 1 | 107 8 | 0 22 | 22 | 65 1 | 10 10 | 16 | 28 | .82 |
| arged as Adulta. M. | 35 42 | | 7 10 10 2 | | | 1 3 | 1 6 | 18 | 0 | 2 1 | 1 | . 1 . | 1 | 3 | 1 | 1 | | | 3 | 1 | 1 | 1 | 1 | | - 1 | | - | - | | | 1 | - | | - | 1 | a | | 1 | 1 | 2 | | | | | - | | |
| Children. | and the second | | 26 19 | | 2 | 2 7 | 3 | | 3 | | 4 | where we wanted | | 1 | 6 1 | 12 | 1 2 | 5 | | n | | | 2 | 1 | 1 | 1 1 | 1 | 2 | 1 . | | | 1 | 2 - | 1 | - | 3 | - | | | | - 1 | | | | | | |
| sight of or otherwise re- real from Dispensory fields | | | | | | | | | 17 | 0 3 | 34 | 10 1 | 13 | 4 | 28 4 | 63 1 | 3 5 | 4 | 61 | 74 | 7 1 | - | 25 | 39 | 2 | 6 1 | 50 | 14 | | 1 | 10 | 20 | 1 1 | | 12 1 | - | 1 40 | | -1- | | | | | - | | 4 | |
| Nocie - | 217 | 248 | 30 30 | 2096 | 21 | 24 18 | 0 | 214 | 62 | 34 23 | 10 2 | c 5 | 27 | 28 | 47 21 | | 0 19 | | | | | | | | | | | | | - | | | | | | | - | | | | 1 100 | - | | - | - | | |
| Adulta N. | 25 | 5 | | 42 | - | 4 1 | | 7 | 1 | . 1 | 2 | | | 1 | | | | 1000 | | | 37 31 | | 73 | 265 | 31 1 | 19 15 | 80 | 123 | 26 20 | 17 | <u>61</u> 1 | 109 2 | 6 11 | 10 | 26 8 | 2 28 | 16 | 22 | a 1 | | | 6 | 29 2 | | | 1 | |
| Children. | 27 | | 3 1 | | | Contract Street, or | 1 | - | 2 | 3 3 | 1 | | | | 1 | | - | - | 1 | | 3 3 | 2 | | 20 | 2 | 1 3 | | 4 | 1 _ | 1 | | 1 | 3 1 | 3 | 1 1 | | 1 | | | i | | , | | 1 | | | - |
| written of Dispensary | 1000 | | | - | | | - 1 | | 2 | 2 | 3 | 7 4 | 1 | | 2 | | 1 | | | - | 4 3 | | | | + | 3 - | 1 | - | 1 | 1 | | 1 | - | 1 | | 2 | 1 | 1 | - | | | | 2 1 | 1 | | | |
| | - | 241 | N (1) | lique | 325 | 01 27 | 128 | 330 | 93 | 10 30 | 114 2 | 1 19 | 49 | 38 1 | 10 10 | | 22 | 20 | 145 1 | | 50 45 | 32 | | - | 54 3 | 7 20 | 114 | | | - | | | - | 1 | 1 3 | - 5 | | 1 | 2 | 8 1 | 1 | 1 | 2 | 1 | 1 | | |
| so Trituin of (a) and (b) inding three transferred Winnery) | | 100 | | | | | | | | | 11 | 1 | 1 | T | | i | | | 1 | - | - | - | | | | | 114 | ~ 1 | N 19 | 1.19 | 48 3 | 52 23 | 13 | 10 | 56 12 | 20 | 38 | 24 | 60 12 | | T | 18 | 21 43 | 0 | | 1 | |
| | 200 | | 11 541 | 1900 | 155 | 51 20 | 120 | 364 | 312 | 10 .10 | 179 23 | 9 310 | 85 | 4 3 | 14 24 | 6 110 | 39 | 32 | 148 1 | | 99 63 | | 140 | | | . 28 | 214 | 300 | | | | | | | | | | | | | | | | 1 | | | T |
| | | | | | in the | | | | | - | 1. 1. | 1 | 1 | | 10 | | | | | | ~ ~ | 1 | 110 | 1 | 1 | a 24 | 214 | 30 | 63 00 | 21 | 132 0 | 12 21 | \$ 29 | 36 | 150 203 | 10 | 24 | 10 1 | 20 200 | 1 30 | 20 | 32 11 | 11 241 | | 30 | 10 17 | - 1 |

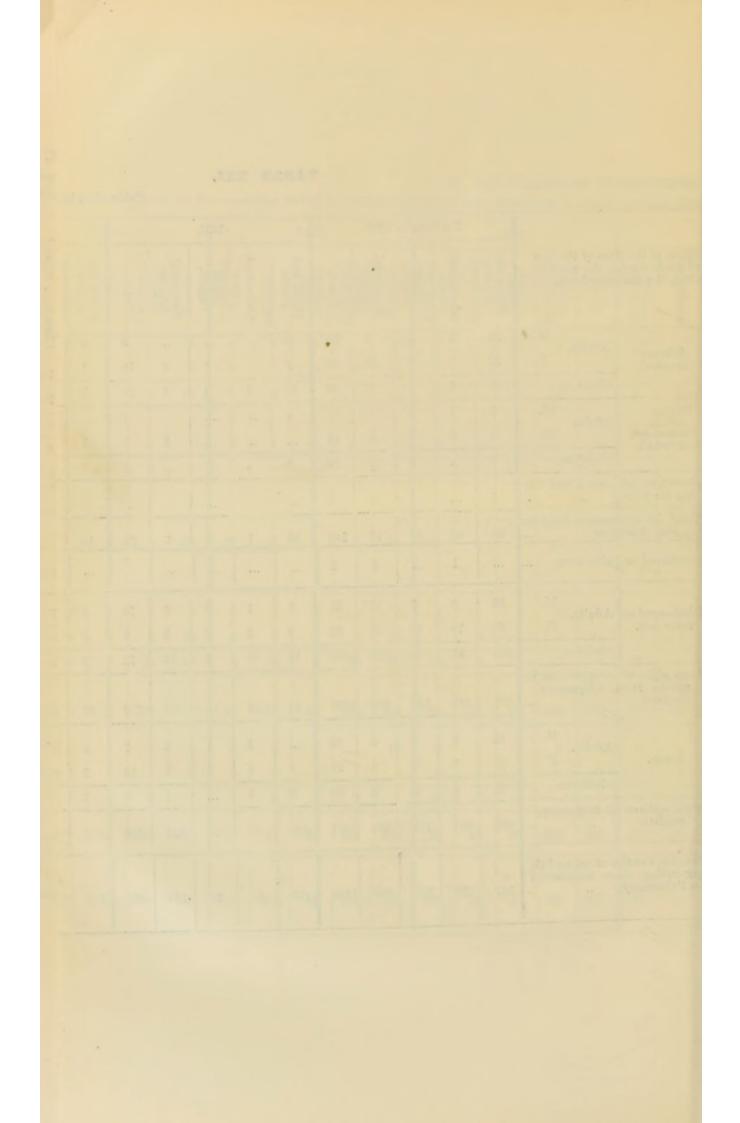


TABLE NXII.

TUBERCULOSIS CARE ASSOCIATIONS IN ESSEX.

(The information given in this Table is in respect to the year ended 31st March, 1938).

| | D 1.00 | Income | Exper | nditura. | Total No. of | Nature of |
|---------------------------|---|---|----------------------|--------------------|--------------------|---|
| Name of Association. | Day and Time of Meetings. | including Balance in hand. | Assist- ance. | Other Items. | Cases assisted. | Assistance Provided. |
| BARKING | Third Monday in each month at 8 p.m. | £ s. d. 508 0 6 | £ s. d. 449 6 7 | £ s. d. 15 18 6 | 70 | Extra Nourishment Convalescent Holiday Treatment Clothing Fares Cash Grants |
| CHELMSFORD | Fourth Monday in each month at 7 p m. | No. 1 a/c. 502 2 1 *No. 2 a/c. 125 3 8 | 262 15 1 123 15 0 | 54 0 0 10 0 | 4 2 25 | Extra Nourishment Convalescent Holiday Treatment Clothing Fares, &c. |
| DAGENHAM | Third Thursday in each month at 8.15 p.m. | 523 3 1 | 424 2 2 | 20 2 10 | 70 | Extra Nourishment Clothing Surgical Appliances |
| GRAYS | Third Monday in each month at 5.30 p.m. | 362 13 10 | 254 8 6 | 12 2 0 | 41 | Extra Nourishment Convalescent Holiday Treatment Clothing Home Helps Fares, &c. |
| ILFORD | First Thursday in each month at 7.30 p.m. | 744 9 7 | 349 7 1 | 23 17 10 | 97 | Extra Nourishment Boarding-out Fees Clothing Fares, &c. |
| LETTON | Third Friday in each month at 7.30 p.m. | 897 3 10 | 666 16 1 | 55 3 8 | 149 | Extra Nourishment Convalescent Holiday Treatment Home Helps Cash Grants |
| Romford and Hornchurch | Fourth Monday in each month at 8 p.m. | 909 10 7 | 719 12 4 | 54 2 2 | 102 | Extra Nourishment Convalescent Holiday Treatment Clothing Fares |
| Saffron Walden | Fourth Tuesday in each month at 2.30 p.m. | 178 16 4 | 159 10 7 | - | 66 | Extra Nourishment Convalescent Holiday Treatment |
| WALTHAMBTOW | First Monday in each month at 7 p.m. | 1024 5 6 | \$33 18 5 | 120 15 8 | 124 | Extra Nourishment Convalescent Holiday Treatment Clothing Home Helps Cash Grants |

* This refers to a special fund administered by the Chelmsford Tuberculosis Care Association for those areas in the County not served by a Care Association,

PART III.

MATERNITY AND CHILD WELFARE.

The Notification of Births Acts, 1907 and 1915, the Maternity and Child Welfare Act, 1918, and parts of the Children and Young Persons Acts, 1908-1932, were repealed on 1st October, 1937, and re-enacted under Part VII of the Public Health Act, 1936.

(1) COUNTY AREA. During the year 1937 the County Council was responsible for administering this Part of the 1936 Act in the undermentioned 31 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, (c) notifications of Puerperal Pyrexia and Fever, and Maternal Deaths as given by the Registrar-General, and (d) notifications of Ophthalmia Neonatorum :—

| | Estimated | | f Births ied by | No. of Births | No. of cation | | Mater- |
|------------------------|---------------------------|----------------|----------------------------|------------------|---------------------------------------|-------------------------------------|----------------|
| Sanitary Districts. | Popula- tion, 1937. | Mid- wives. | Doctors and Parents. | Unnoti- fied. | Puerperal Pyrexia and Fever. | Oph- thalmia Neona- torum. | nal Deaths. |
| Maldon B | 9.020 | 13 | 58 | 4 | | | _ |
| Maldon B | 6,286 | 22 | 31 | 2 | 1 | 1 | _ |
| Benfleet U | 15,710 | 90 | 25 | ĩ | 2 | | 1 |
| Billericay U | 34,560 | 304 | 68 | â | 6 | 1 | î |
| Braintree & Bocking U. | 14,650 | 101 | 118 | 9 | ĩ | _ | - |
| Brentwood U. | 27,300 | 103 | 113 | 7 | 5 | | 1 |
| Brightlingsea U | 4,222 | 11 | 30 | _ | | - | |
| Burnham-on-Crouch U. | 3,530 | 33 | 2 | _ | | 1 | 1 |
| Canvey Island U | 6,485 | 60 | 8 | - | 1 | - | 1 |
| Chigwell U | 22,510 | 90 | 89 | 11 | 3 | _ | - |
| Chingford U | 35,970 | 168 | 113 | 49 | 7 | 1 | - |
| Epping U | 5,770 | 71 | 53 | 5 | 4 | 1 | - |
| Frinton & Walton U | 7,287 | 18 | 25 | 3 | 2 | | |
| Halstead U | 5,859 | 25 | 39 | 4 | | - | - |
| Hornchurch U | 72,010 | 569 | 514 | 58 | 10 | 5 | 6 |
| Rayleigh U | 7,501 | 57 | 15 | 4 | | - | - |
| Waltham Holy Cross U. | 7,098 | 38 | 43 | - | 2 | - | 2 |
| West Mersea U | 2,400 | | 19 | 5 | 1 | - | - |
| Witham U | 7,162 | 60 | 38 | - | - | - | |
| Wivenhoe U | 2,170 | 9 | 19 | 1 | 1 | - | - |
| Braintree R | 15,660 | 98 | 79 | 3 | 2 | - | - |
| Chelmsford R | 29,960 | 290 | 92 | 15 | 2 | - | - |
| Dunmow R | 16,170 | 109 | 104 | - | 2 | - | 1 |
| Epping R | 15,040 | 96 | 76 | 3 | 4 | - | 1 |
| Halstead R | 15,620 | 75 | 87 | 6 | 2 | | - |
| Lexden & Winstree R. | 19,840 | 119 | 84 | 9 | 3 | | - |
| Maldon R | 13,560 | 105 | 68 | 11 | 1 | - | _ |
| Ongar R | 12,590 | 95 | 97 | 2 | 1 | 2 | 1 |
| Rochford R. | 16,650 | 102 | 167 | 8 | 2 | 2 | - |
| Saffron Walden R | 15,770 | 81 | 60 | 10 | 1 | 1 | _ |
| Tendring R | 22,840 | 297 | 77 | 6 | | 1 | |
| Totals | 491,200 | 3,309 | 2,411 | 240 | 66 | 13 | 16 |
| | | - | | | | | |

TABLE XXIII.

The maternal mortality rate for the County Council's Child Welfare Area is 2.18 as compared with the rate of 2.66 for the Administrative County and 3.23 for England and Wales.

(2) MEDICAL STAFF. Particulars in regard to the Medical Staff are given on page 9.

(3) HEALTH VISITORS. Owing to the increase in the work generally one additional Health Visitor was appointed during the year to serve the district of Billericay and to perform the duties of Health Visitor, School and Tuberculosis Nurse. The services of one part-time Health Visitor were terminated.

Facilities were granted to a State Certified Midwife to train for the new Health Visitors' Certificate by being appointed as a probationer Health Visitor under the Council's Scheme.

A successful conference of Health Visitors, School and Tuberculosis Nurses, was held at the Oldchurch County Hospital, Romford, on the 12th March, 1937, at which an address was given by the Medical Superintendent of the Hospital on "The History of Health Nursing".

On 31st December, 1937, the Health Visiting Staff undertaking Child Welfare work on behalf of the County Council numbered as follows :---

| Whole-time (also underta | king Sch | nool and | | JE | quivalent | whole-time | е |
|--------------------------|----------|----------|----|----|-----------|------------|---|
| Tuberculosis duties) | | | 44 | 7 | H.V. for | C.W. = 19 |) |
| Part-time | | | 1 | J | (approx.) | | |

N.B.—The above figures do not include the Chief Health Nurse and her two Assistants, but include the Relief Health Visitor and Probationer Health Visitor.

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

(4) ANTE-NATAL CLINICS, MATERNITY AND CHILD WELFARE CENTRES, WEIGHING CENTRES, TODDLERS' CLINICS AND WOMEN'S WELFARE CENTRES. At the end of the year 1937 there were 22 Ante-Natal Clinics, 105 Child Welfare Centres, 14 Toddlers' Clinics, 9 Weighing Centres and 8 Women's Welfare Centres in the County Child Welfare Area. A new Ante-Natal Clinic was established at Rayleigh during the year and Child Welfare Centres at North Chingford (Sewardstone Road), Boreham, Harlow Common, and a Weighing Centre at Hockley. A Women's Welfare Clinic was also established at Chelmsford.

On the 29th October, 1937, the Fifth Annual Conference of representatives from each of the Voluntary Committees of Child Welfare Centres was held. Two very interesting talks were given by the Hon. Secretary of the Chingford Child Welfare Centres and the Hon. Secretary of the Braintree Child Welfare Centres, to the 110 delegates who attended. A discussion followed on various branches of the Maternity and Child Welfare Scheme.

The services of the Domestic Science Teacher, Mrs. B. G. Richardson, were continued throughout the year. The course consists of a series of ten lessons at Child Welfare Centres, giving useful information to mothers regarding the different classes of food necessary to build up, warm and protect the body and also giving general rules for the kitchen, &c.

I am indebted to Mrs. Richardson for the following observations concerning her attendance at Centres during the year :---

"Courses of ten Practical Demonstrations have been completed during the year at the following Child Welfare Centres :---

Great Bardfield, South Woodham, Broomfield, Thaxted, Wickford, East Hanningfield, Great Yeldham, Weeley, Ingatestone, Stock, Great Wakering and Kelvedon.

New courses began in July, 1937, and will be completed in 1938 at Danbury, Upminster, Braintree, Great Easton, Dedham, Fordham, Southminster, Great Tey, Rowhedge, Tiptree, Ongar, Rayleigh, Rochford, Hornchurch, Wethersfield and Hatfield Heath.

The interest in the course has been increased in the Country areas by the use of an inexpensive oil cooker which has given entire satisfaction.

The "Notes of Lessons", giving recipes, hints and in some cases, simple food values, have been very helpful and distinctly popular. It would seem from the large number of "Notes" distributed that the following is the order of popularity of the Demonstrations :—

- (1) Jams and marmalades. From fresh and dried fruit.
- (2) Vegetables and salads, including inexpensive dressings.
- (3) Fish. Boning, stuffing, &c.
- (4) Simple supper dishes and cheese cookery.
- (5) Potted meat and fish. Beef moulds and jellies.
- (6) Suet puddings.
- (7) Soups and simple savouries.
- (8) Milk puddings, junkets, &c.
- (9) Stews.

Inexpensive cakes, biscuits, and simple beverages such as barley water, beef tea, and lemonade, have been included.

The small samples brought for approval and criticism clearly show that the lessons are applied in the home.

In consequence of the rising prices of foodstuffs, every effort has been made to supply pleasing dishes of maximum food value at a minimum cost of time, fuel and material. The special attention paid to costing home made and ready made foods has stimulated much interest, some controversy and one hopes, will result in practical application in the home.

Demonstrations at Health Exhibitions have been given at various places including Wickham Bishops, Earls Colne and Halstead, and the interest of the audience during and after the Demonstration has been most gratifying. The splendid co-operation of the doctors, health visitors, nurses, voluntary workers and caretakers has added considerably to the value of the work, and I would like to express my sincere appreciation of most generous support in all parts of the County, thus making a great pleasure of very important work ".

(5) COMBINED TREATMENT CENTRES. Reference is made to Combined Treatment Centres on page 115 of this Report.

(6) PROVISION OF MILK AND MEDICAMENTS. The two schemes outlined in previous reports, for (a) the provision of wet milk and (b) medicaments through local chemists were continued.

As mentioned in the report for the year 1936, consideration has been given to Circular 1519, dated 1st April, 1937, issued by the Ministry of Health, referring to the First Report of the Advisory Committee on Nutrition, and as a result the following amendments to the Council's Scheme have been approved :—

- (i) Previously it was necessary for special recommendations to be submitted to the County Medical Officer in respect of milk of be supplied to children over the age of one year. This has been amended and it is now only necessary to submit special recommendations for a supply of milk to children over the age of three years.
- (ii) The County Medical Officer is now authorised to allow more than one pint of milk per person per day on the special recommendation of the Medical Officer or Health Visitor.
- (iii) The milk to be provided is to be Tuberculin Tested or efficiently Pasteurised Milk if available, and if not available arrangements are to be made for the source and quality of the milk to be approved by the local Medical Officer of Health.
- (iv) On 1st April, 1938, a further amendment was made whereby milk can be supplied to expectant mothers during the whole period of pregnancy instead of the last six months as previously.

(7) DENTAL TREATMENT AND DENTURES. The Scheme, as outlined in previous reports, was continued throughout the year. Mr. S. K. Donaldson, the Senior Dental Surgeon writes : "With the increased County Dental Staff available, it has been possible for them to give more attention to the Maternity and Child Welfare Service, and during the year 833 patients were treated by the whole-time County Dental Staff. It is hoped that in the near future the question of setting up a workshop and employing a dental mechanic for the supply of artificial teeth will be considered. In recent conversations I have had with some of the mothers they have intimated that after dental treatment their outlook on life has been completely changed for the better, and there is no doubt that it is worth while for both adults and toddlers alike ".

During the year under review a total of 1,168 patients were treated at a cost to the Council of £1,810 4s. 2d., of which £521 1s. 8d. was recovered from patients as contributions.

(8) HOME HELPS. One hundred and seventy-four applications were received during the year as follows :--Bardfield (1), Belchamp St. Paul (2), Belchamp Walter (1), Blackmore (2), Braintree (2), Brentwood (32), Brightlingsea (2), Bures (2), Colne Engaine (2), Doddinghurst (1), Fyfield (1), Galleywood (2), Halstead (4), Hatfield Peverel (5), Hedinghams (2), Hornchurch (69), Laindon (3), Layer-de-la-Haye (1), Maldon (2), Moreton (1), Ongar (3), Ovington (1), Pitsea (10), Rettendon (1), Shelley (1), Shenfield (1), Southminster (1), South Woodham (1), Stanford Rivers (1), Stebbing (1), Stock (4), Great Tey, (1), Thaxted (2), Tiptree (1), Walton (1), Wethersfield (1), White Colne (1), Wickham St. Pauls (2), Witham (1), Yeldham (2).

The revised Scheme for the provision of Home Helps outlined in the report for the year 1935 was continued in the Hornchurch area. Arrangements were also made for the Scheme to be brought into operation in the Brentwood area in March, 1937. Six Home Helps were employed in Hornchurch and seven in the Brentwood area.

(9) TRAVELLING EXPENSES OF MOTHERS ATTENDING CHILD WELFARE AND WEIGHING CENTRES. At the end of the year 1937 forty-nine Child Welfare and Weighing Centres were participating in the scheme, namely :--Bardfield, Bocking, Braintree, Brightlingsea, Burnham-on-Crouch, Cold Norton and Purleigh, Danbury, Debden and Wimbish, Dunmow, Earls Colne, East Hanningfield, Eastons, Epping, Felsted, Fingringhoe, Fordham, Fyfield, Goldhanger, Good Easter, Harlow, High Easter, Great Horkesley, Laindon, Layer-de-la-Haye, Leaden Roding, Mistley, Ongar, Parkeston, Rivenhall and Silver End, Rochford, Roydon, Great Sampford, Southminster, Stansted, Steeple Bumpstead, Stebbing, Stock, Stondon Massey, Takeley, Terling, Great Tey, Thaxted, Tillingham, Tollesbury, Great Wakering, Little Waltham, Wethersfield, Woodham Ferrers and Great Yeldham.

(10) PUBLIC HEALTH (NOTIFICATION OF PUERPERAL FEVER AND PUERPERAL PYREXIA) REGULATIONS, 1926. During the past two years copies of notifications made by medical practitioners were received from Medical Officers of Health in the Administrative County and the County Child Welfare Area as follows :---

| | | istrative unty. | C.C. Chil Are | d Welfare |
|-------------------|---------|--------------------|------------------|-----------|
| | 1936. | 1937. | 1936. | 1937. |
| Puerperal Fever | 61 | *36 | 18 | *17 |
| Puerperal Pyrexia | 179 | 217 | 56 | 49 |

*These figures are for the nine months ended 30th September, 1937, and as from the 1st October, 1937, when the Public Health Act, 1936, came into operation, the term Puerperal Fever was dispensed with and only the term Puerperal Pyrexia retained for notification purposes.

(i) Obstetric Specialists. The services referred to in the previous year's report were continued.

Mr. W. S. O'Loughlin, M.C.O.G., in addition to attending at the Ante-Natal Clinic, Oldchurch Hospital, Romford, was called in to thirteen patients in various parts of the County.

At the time of writing a number of changes are taking place in respect of the arrangements for Obstetric Specialists, and these will be given in more detail in next year's report. Mr. W. S. O'Loughlin resigned his appointment on the 30th June,

1938, and Mr. Stanley Henderson, M.C.O.G., Obstetric Specialist, commenced duty in July, 1938, on the whole-time staff of the Oldchurch County Hospital, Romford. It is anticipated that Mr. Henderson's services will be available for a certain amount of consulting work within a reasonable area of the Oldchurch County Hospital. In addition, the services of Mr. Everard Williams, M.C.O.G., have been made available in a consulting capacity for maternity patients in the County Council's Child Welfare area.

(ii) Consulting Physician and Pathologist. During the year the services of Dr. F. E. Camps, Pathologist at the Chelmsford and Essex Voluntary Hospital, were made available in the capacity of consulting physician and pathologist in respect of patients sent in to Public Assistance Institutions by the Public Health and Housing Committee. These included maternity patients from the County Council's Child Welfare area, and arrangements were also made for Dr. Camps' services to be available for patients either in their own homes or in other Institutions or Hospitals.

(iii) Institutional Treatment. During the year 1937, thirty-one patients suffering from puerperal pyrexia were admitted to Hospitals and Institutions under the Public Health Committee's arrangements at a cost of £289 13s 0d., the amount recovered from patients being £33 0s. 3d.

(iv) Puerperal Units at St. John's Hospital, Chelmsford, and Oldchurch Hospital, Romford. The valuable work carried out by these two special units, which was mentioned in the report for 1931, has been continued and full advantage of the facilities has been taken by the Public Health Committee, as well as by certain autonomous child welfare authorities in the County. Details of the work carried out have been received and the following is a brief summary thereof :—

| | | No. of | | | Consider you | | | | |
|--------------|--|-----------------------|-----|------|--------------|-------|------------------|-------------|--|
| Institution. | | patients admitted. | 0—7 | 8-14 | 15-21 | 22—28 | Over 28 days. | Discharged. | |
| Chelmsford | | 26 | 2 | 9 | 7 | 1 | 7 | 25 | |
| Romford | | 28 | | 3 | 15 | 2 | 8 | 27 | |

In spite of the valuable work carried out by the above-mentioned Special Units, it was considered, after consultation with the Ministry of Health, that the time had come when other arrangements should be made for these patients who are capable of conveying infection to others.

(v) 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.

(vi) Bacteriological Examinations of (a) lochia, (b) blood. Facilities for these examinations were available under the County Laboratory Scheme.

The arrangements whereby Dr. F. E. Camps, Pathologist at the Chelmsford and Essex Voluntary Hospital, carried out special Hæmolysis tests, were continued. These tests have, when necessary, included a serological typing, and continue to prove of great value in determining earlier diagnosis of puerperal sepsis, control of midwives and in tracing the source of infection. Further mention is made of this subject on page 113.

(11) PUBLIC HEALTH (OPHTHALMIA NEONATORUM) REGULATIONS, 1926-1937. The Ophthalmia Neonatorum Regulations were amended from the 1st April, 1937, whereby notifications of Ophthalmia Neonatorum occurring in the County Council's Maternity and Child Welfare area are sent direct to the County Medical Officer instead of to the Medical Officer of Health for the district concerned. The aim of this arrangement is to bring cases to the notice of the Authority responsible for dealing with the condition at the earliest possible moment.

During the year ended 31st December, 1937, 56 cases of Ophthalmia Neonatorum were notified in the Administrative County.

| 1 | Treated | Visio | 1 | Vision | Total | |
|-------|-----------|---------|------|-----------|------------|---------|
| At | In | Unimpai | red. | Impaired. | Blindness. | Deaths. |
| Home. | Hospital. | R. | L. | R. L. | R. L., | |
| 6 | 7 | 13 | 13 | | | — |

Three patients were admitted to Hospital during the year under the County Council's arrangement for the treatment of this disease, with satisfactory results.

It is becoming quite rare for an infant to lose its sight from this cause.

(12) PREVENTION OF BLINDNESS. On the 6th August, 1937, the Ministry of Health issued Circular 1621, entitled "Prevention of Blindness," drawing the attention of County Councils and Local Sanitary Authorities to the report issued in 1936 by the Standing Committee on the Prevention of Blindness of the Union of Counties Associations for the Blind. The Circular was divided into sections, which included a Maternity and Child Welfare Section relating to (i) Ante-natal service; (ii) Ophthalmia Neonatorum; and (iii) Children under School Age. The County Medical Officer submitted a detailed report thereon and amongst the recommendations made, it included co-ordination of the Venereal Diseases Treatment Centres with the Maternity and Child Welfare Centres to be developed to the fullest extent. As an experiment the whole-time Venereal Diseases Medical Officer commenced attendance at the Hornchurch Child Welfare Centre in January, 1938. The above-mentioned Circular also referred to the use of prophylactics and reference is made to this on page 110.

(13) 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, the patient cannot with safety be confined in her own home.

During the year five hundred and fifty-six patients were admitted under the above schemes at a cost of £4,826 8s. 6d., the amount recovered from patients being £1,474 18s. 1d.

(14) CONVALESCENT TREATMENT—MOTHERS AND CHILDREN. The arrangements in connection with the Mabel Greville Home, Walton-on-the-Naze, were discontinued at the end of September, 1937, owing to the Home being closed, and up to that time four children were admitted under the Child Welfare Scheme. In addition, two mothers were admitted to suitable Homes for a period of convalescent treatment.

Convalescent treatment of mothers and infants still constitutes somewhat of a difficulty owing to the fact that there are few suitable Homes readily available in Essex for such cases.

(15) TREATMENT OF MINOR AILMENTS—CHILDREN UNDER SCHOOL AGE. The scheme was continued and 129 children under school age received operative treatment during the year for Adenoids and Enlarged Tonsils, Circumcision and Hernia.

(16) TREATMENT OF ORTHOPAEDIC PATIENTS. Full details of the scheme for the treatment of orthopædic patients adopted by the Public Health and Education Committees were given in the Annual Report for 1927.

As far as children of school age are concerned, these are dealt with in the School Medical Officer's Annual Report, so that the following information relates only to children under school age in the County Council's Child Welfare Area :---

(a) Number of Cases on Books. At the end of 1937, there were approximately 198 Child Welfare patients requiring treatment, supervision or observation.

(b) Ascertainment and Re-examination Clinics. During 1937 Mr. Whitchurch Howell attended 64 clinic sessions for the County Council and carried out 344 examinations of County patients under school age.

(c) *Hospital Treatment*. The following figures relate to the number of Child Welfare patients who completed treatment and those who were admitted during the year 1937, as compared with 1936 :---

| | Complete Treatment 1937. | Admittee 1937. | 1. | Completed Treatment. 1936. | Admitted. 1936. |
|--------------------------------|--------------------------------|-------------------|----|----------------------------------|--------------------|
| Brookfield Orthopædic Hospital | 8 | 10 | | 5. | . 6 |
| Oldchurch County Hospital . | . 5 | 3 | | 2. | . 5 |
| Other Hospitals | . 12 | 10 | | 8. | . 11 |

The Orthopædic Scheme continues to provide adequate treatment and after-care.

It was found necessary to establish further After-Treatment Centres during 1937, and in April a monthly session was commenced at Chelmsford and in October at Burnham-on-Crouch and Great Wakering.

Brookfield Orthopædic Hospital.

Full use has been made of the services provided at the Brookfield Orthopædic Hospital, and during the year 82 patients were admitted, including 32 County Council cases (10 Child Welfare and 22 Education cases). An average of 28.32 beds were occupied during the year out of a total of 30 beds provided, and 151 surgical operations were performed. Patients continue to be sent by Autonomous Child Welfare and Education Authorities. From 1st April, 1938, a whole-time Masseuse was appointed in place of two part-time Masseuses.

(d) Orthopædic After-Treatment Clinics. The Orthopædic After-Treatment Clinics were continued during the year and 1,408 attendances of children under school age were made.

NURSING HOMES.

On 1st October, 1937, the Public Health Act, 1936, Part VI, repealed the whole of the Nursing Homes Registration Act, 1927.

The number of registered Homes at the end of the year was as follows :----

| <i>(a)</i> | Maternity I | Homes only | | | | 21 |
|------------|-------------|--------------------|-----------|--------|-----|----|
| (b) | Maternity a | and Nursing Homes | | | 14. | 26 |
| (c) | Nursing Ho | mes (including Con | valescent | Homes) | | 12 |

Routine inspections of Nursing Homes have been made at regular intervals, and midwives residing therein and who notify their intention to practise have also been inspected on the same occasion as the visit made to inspect the home.

The general conditions existing at the Homes have maintained a satisfactory standard throughout the year, and no drastic action was necessary in any instance.

Seven applications for Registration were approved during the year, and one application was refused on the grounds that the applicant was not a fit person to carry on a Nursing Home, and that the accommodation and arrangements made for staffing were inadequate.

CHILD LIFE PROTECTION.

Of all the many phases of preventive medicine, one of the most vitally important concerns the nurture and welfare of the young child. Here we have human life in its most delicate and vulnerable form, and at a stage when that tiny spark, either through ignorance or sheer neglect, may so easily be extinguished. This particularly applies to those instances where children are placed in the care of foster parents.

In all those areas for which the County Council is the Child Welfare Authority it is the Council's statutory duty to take on the "guardianship" of all such children who are fostered out for reward to persons other than their parents, relatives or legal guardians. All the Health Visitors in the County Child Welfare area are appointed Child Protection Visitors, and as a result of their reports, foster mothers are permitted, where found suitable, to accommodate on their premises an agreed number of foster children. If the environment is not suitable, the application is, of course, disallowed.

At the end of the year there were 591 registered foster children in the care of 358 foster mothers, the majority of the latter accepting only one, two, or perhaps three

| No. of foster | mothers | receiving | 1 | child | | 1. | 256 |
|---------------|---------|-----------|---|------------|---------|--------|-----|
| ,, | ,, | ,, | 2 | children | | | 64 |
| ,, | ,, | ,, | 3 | children | | | 22 |
| ,, | ,, | " | 4 | children | | | 8 |
| ,, | ,, | ,, | 5 | children | | | 1 |
| " | " | ,, | 6 | children o | or over | | 7 |

children into an ordinary household where the foster child becomes for the time being "one of the family." The following table explains this in more detail :---

There is no doubt that the ideal arrangement is where a foster mother accepts only a small number of foster children, and this point has frequently been endorsed by the members of the Maternity and Child Welfare Sub-Committee, who feel it is better for children to grow up in ordinary home surroundings rather than in an Institutional atmosphere such as is bound to occur in very large foster homes.

Regular visits of inspection at intervals of at least once a quarter are made by the Health Protection Visitors to each foster mother and child registered. In special cases the inspections are made at more frequent intervals, and where necessary, visits are made by members of the Central Office staff. The larger foster homes always receive additional supervision from the Central Office, and where recommended by the County Architect, fire precautionary measures are provided. Boarding Schools receiving children under the age of nine years were also inspected and in certain instances fire precautionary measures as recommended by the County Architect have been provided.

During the summer months there is always a large influx of children into the County for short term periods of a fortnight or three weeks for holidays. There is a number of Societies responsible for sending children away for summer holidays and by seeking our opinion of particular premises, we are able to co-operate with them regarding the standards to be maintained. There is still a frequent tendency to overcrowd children in holiday accommodation, it being argued that this was more than counterbalanced by the good effects of the change of air and scenery. The fallacy is obvious, however, in as much as many of these children already live in sordid slum conditions, and it is, therefore, all the more necessary to provide them with the best possible conditions during their short holiday if they are to derive the utmost benefit therefrom.

It was unnecessary to obtain any Orders during the year for the removal of children from foster parents under Section 212 of Part VII of the Public Health Act, 1936.

MIDWIFERY SERVICE.

(a) GENERAL. (i) Full details of the County Council's Scheme approved under the Midwives Act, 1936, are given in the report for the previous year. The Scheme commenced to operate on 1st July, 1937, and at the end of the year 16 whole-time County Council Midwives and 22 Welfare Council Midwives were appointed under the Scheme. The following table shows the number of confinements attended by the 16 County Council and 22 Welfare Council Midwives during the period 1st July to 31st December, 1937 :—

| | Midwifery | Maternity. |
|-----------------------------|-----------|------------|
| 16 County Council Midwives | 191 | 99 |
| 22 Welfare Council Midwives | 330 | 198 |

It is pleasing to record that no serious difficulties have arisen, largely due, no doubt, to the general approbation and support with which the provisions of the Act have been welcomed by all sections of the community.

Suffice it to say that at this stage the scheme is operating smoothly and satisfactorily, and the services of the Council Midwives are becoming increasingly well known and appreciated by expectant mothers.

Application has not so far been made to the Minister of Health requesting him to make an Order invoking Section 6 of the Act, which will ultimately deal with the eradication of the unqualified handywoman. When making such application, it is necessary to satisfy the Minister that the Council's scheme completely supplies the needs of the areas for which it is responsible.

In next year's report it will be possible to give a more detailed review of the Council's scheme for a full calendar year.

In accordance with Section 5 of the Midwives Act, 1936, 19 midwives were compulsorily retired, or surrendered their C.M.B. certificates voluntarily during the year 1937, and appropriate compensation in each case has been arranged.

(ii) Consideration was given to the Ministry of Health's Circular 1621, dated 6th August, 1937, dealing with the Prevention of Blindness, and arising out of this it was decided to adopt the use of 1 per cent. solution of Silver Nitrate as the prophylactic for instillation into the eyes of infants, instead of protargol as hitherto.

(iii) The Urban District of Dagenham made application to the Ministry of Health to become the Local Supervising Authority in the Urban District under the Midwives Acts, 1902-1936. The Minister, after consulting the County Council, complied with the application and issued the necessary Order to take effect from 1st April, 1937.

(iv) It is interesting to mention here that on 1st January, 1937, Rule E.17 (a) of the Central Midwives Board was amended whereby the lying-in period of ten days was extended to a period of fourteen days. All practising midwives were notified accordingly, and no difficulties have arisen in bringing this amended rule into operation.

(b) PRACTISING MIDWIVES. During the year under review 360 midwives notified their intention to practise in the Administrative County, excluding the Barking, Colchester, Dagenham, Ilford, Leyton and Walthamstow Midwives. Of these, 296 were actually in practice at the end of the year 1937. These midwives are classified as follows :—

| Total No. of Midwives in Practice | | Traine | d. | | L.O.S. | ed. |
|--------------------------------------|------|--------|--------|-------|--------|--------|
| at end of year. | Dep. | | Indep. | Dep. | | Indep. |
| 296 | 209 | | 84 | 1 | | 2 |

110

The total number of live births and still births which occurred during the year 1937 in the Administrative County, excluding Barking, Colchester, Ilford, Leyton and Walthamstow Boroughs and Dagenham Urban District, was 11,116, and of these, 4,807 (43.2 per cent.) were attended by midwives in the capacity of a midwife, and 3,545 (31.8 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 1937, and it was found that 142 trained midwives and 1 *bona fide* midwife attended 10 or less cases each, 85 trained and 1 *bona fide* attended 11—20 cases each, 57 trained and 1 *bona fide* attended 21—40 cases each, 7 trained attended 41—60 cases each, and 2 trained attended 61—100 cases each.

(c) HANDYWOMEN. During the year 1937 no reports were received regarding cases of confinement attended by women who were not certified midwives.

(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 :---

| | | 1933. | 1934. | 1935. | 1936. | | 1937. |
|--|-----|-------|----------|----------|----------|-----|-------|
| Records of Medical Aid | L . | 2025 | 2089 | 1898 | 1954 | | 1805 |
| Records of Still-Births | | 101 | 102 | 85 | 82 | | 78 |
| Deaths of Mothers | | 2 | 1 | 2 | 4 | | 3 |
| Deaths of Infants | | 76 | 73 | 55 | 65 | | 44 |
| Artificial Feeding | | 61 | 77 | 66 | 83 | | 71 |
| Liability to be a source of Infection | | *209 | *277 | *265 | *238 | ••• | *198 |
| Laying-out for Burial | | 293 | 260 | †78 | †285 | | †268 |
| Ophthalmia Neonatorum or Discharging Eyes | | 243 | 199 | 102 | ‡120 | | 107 |

*These figures include all cases of High Temperature.

[†]The low figures for the year 1935 are accounted for owing to a variation of the rule of the Central Midwives Board in this respect which operated from the 1st October, 1934, until it was again amended on the 1st October, 1935.

‡Includes 7 cases notified as Ophthalmia Neonatorum.

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 1937 in two cases of high temperature the rules of the Central Midwives Board were not properly carried out. Warning letters were sent to the midwives concerned.

Pemphigus Neonatorum.

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

Enquiries were made into 29 suspected or actual cases occurring in Benfleet (1), Billericay (2), Brentwood (2), Canvey Island (1), Chelmsford (3), Chelmsford R. (1), Chigwell (2), Dagenham (2), Rochford R. (2), Tendring R. (1) and Thurrock (12). Some suspected cases of Pemphigus Neonatorum in the practice of an independent midwife were investigated and the midwife was for a time suspended from midwifery practice.

Inspection Visits.

One thousand and eighty routine visits were made to midwives during the year, and of these 155 were undertaken by Assistant County Medical Officers and 925 by the Chief Health Nurse and her Assistants and the Relief Health Visitor.

Written cautions were sent to 6 midwives for minor infringements of the rule⁸ other than those referred to in the paragraph relating to Puerperal Fever and Ophthalmia Neonatorum above.

One midwife was interviewed by the County Medical Officer in regard to her attendance on an infant who subsequently died.

Doctors' Fees.

In accordance with Section 14 of the Midwives Act, 1918, during the year ended 31st December, 1937, the County Council paid the sum of $\pounds 2,211$ 16s. 1d. as fees to medical practitioners and recovered from patients during the year the sum of $\pounds 602$ 8s. 4d.

The following comparative table is of interest, showing (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 :—

| Year. | N | . of Medica otices recei rom Midwiv | ved | which medical aid was sought. | | o. of Medical Notices for whi octor's claims h been received | ich nave | Total a of cl | | | | | d |
|-------|---|---|-----|----------------------------------|--|---|-------------|------------------|----|----|---------|----|----|
| | | | | | | | | £ | s. | d. | £ | s. | d. |
| 1933 | | 2025 | | 34.9 | | 1575 | | 2,527 | 12 | 6 | 625 | 9 | 1 |
| 1934 | | 2089 | | 36.4 | | 1628 | | 2,174 | 15 | 6 | 800 | 13 | 6 |
| 1935 | | 1898 | | 38.9 | | 1514 | | 2,147 | 15 | 6 | 766 | 1 | 6 |
| 1936 | | 1954 | | 37.6 | | 1510 | | 2,130 | 15 | 1 | 648 | 16 | 4 |
| 1937 | | 1805 | | 44.6 | | 1347 | | 2,211 | 16 | 1 | 602 | 8 | 4 |

Lectures.

The Essex Midwives Association arranged a special course of Lectures in Chelmsford which was held in May and June.

Mr. Alan Brews, F.R.C.S., M.C.O.G., Honorary Assistant Obstetrician to the London Hospital, gave lectures entitled "Management of Breech Delivery", "Ante-Natal Care", "Toxæmia of Pregnancy", and "Practice in Midwifery".

The lectures were greatly appreciated by the midwives who attended the course. The County Council assisted the Association by a grant towards the lecturers' fees, travelling expenses, &c.

Essex County Nursing Association.

(a) GENERAL. For the year 1937 the sum of £12,906 5s. 1d. was paid by the County Council to the County Nursing Association in accordance with the agreement.

(b) DISTRICT NURSING ASSOCIATIONS. At the end of 1937 the number of District Nursing Associations in the Administrative County which were affiliated to the County Nursing Association and which employed 190 Nurses, was as follows :---

| No. of affiliated D.N. Associations. | ertaking Midwifery District Nursing. | | | | ernity and ties only. |
|---|---|--|--|------------------|--------------------------|
| 154 | 150 | | | which nursing | undertake only). |

District Nurses belonging to affiliated Associations during the year 1937 made the following visits :--Midwifery 49,927, Maternity 38,094, District General 241,271, District Tuberculosis 2,268, Health Visiting-Pre-natal 28,451, Post-natal 35,925, and Home Visits (school children) 9,027.

Of the 154 affiliated Associations, 149 participate in the County Council's Combined Nursing Scheme.

GENERAL.

(a) Notification of Puerperal Pyrexia.

With the coming into operation of the Public Health Act, 1936, on the 1st October, 1937, the term puerperal fever has been deleted and puerperal pyrexia alone has been retained for the purpose of notification. This has obviated the previous confusion which so frequently arose and led to failure to notify, for, whereas puerperal fever is an ill-defined condition, puerperal pyrexia is a technical definition involving no theory as to its causation, namely :—

"A rise of temperature to 100.4°F for 24 hours or its recurrence within that period ".

Modern research is increasingly pointing to the necessity for earlier and closer scrutiny of all cases of pyrexia in the puerperium. Moreover, the public generally are becoming more and more alive to certain minimal obligations to be expected from those in attendance on women in childbirth, and this is borne out by their more frequent tendency to seek redress and compensation through the Law Courts.

If, therefore, no local and non-infectious condition is obvious to account for the pyrexia, it is highly desirable that a throat and cervical swab should be obtained from the patient and examined for str. pyogenes at the earliest possible moment.

With this object in view, and as mentioned on page 105 of this report, the County Council have made arrangements whereby such swabs can be examined by Dr. F. E. Camps at the laboratory at the Chelmsford and Essex Hospital, London Road, Chelmsford. In order to save time and expedite delivery, swabs, if addressed as above to Dr. Camps, can be placed on Eastern National 'Buses travelling to Chelmsford, where they will be collected from the 'bus station by special arrangement with the Hospital.

Further information and advice regarding these facilities are available on application to the County Medical Officer, County Hall, Chelmsford (Telephone : Chelmsford 3231).

(b) Coronation Celebrations.

In order to celebrate the Coronation of Their Majesties King George VI and Queen Elizabeth the County Council allowed grants to Child Welfare Centres up to 50 per cent. of expenditure involved in any arrangements made at the Centre to mark the Coronation, provided that no grant would exceed £5 to any one Centre. This proved very popular and the majority of Centres held local functions of one kind or another and in due course applied for the grant.

(c) Nursery Schools.

Following representations from the Maternity and Child Welfare Sub-Committee that a Nursery School should be established at Laindon, the Education Committee have intimated that Tilbury and Romford have already been scheduled in their programme as suitable places for the establishment of Nursery Schools, but in view of the Sub-Committee's remarks in respect to Laindon, consideration will also in due course be given to the possibility of establishing a Nursery School there.

(d) Post-Graduate Course-Independent Midwives.

Under the County Council Scheme for certain independent practising midwives to undergo a post-graduate course in Midwifery for a period of two months at the York Road Lying-in Hospital, Lambeth, an application was received from one midwife during the year and the necessary arrangements made for her to attend the Course.

(e) National Health Campaign.

This campaign, as far as Maternity and Child Welfare is concerned, is dealt with comprehensively on page 61 of this report.

(f) Report of First Assistant C.M.O. (Dr. J. L. Miller Wood).

MINISTRY OF HEALTH REPORT ON MATERNAL MORTALITY. CMD. 5422. Arising out of the comprehensive investigation and report on Maternal Mortality published in April, 1937, the Ministry of Health issued Circular 1622, dated 7th May, 1937, calling upon Local Authorities to review their Maternity and Child Welfare Schemes in the light of certain recommendations emanating from the report.

This was accordingly acted upon, and on 2nd September, 1937, the County Medical Officer presented a report thereon with appropriate recommendations.

The chief innovation amongst these recommendations has been the introduction of the emergency obstetric unit, or so-called "flying squad" unit. By the use of such a unit the intention is to be able to bring rapidly to the bedside of a patient all those special facilities of personnel and equipment which would be available in an up-to-date maternity hospital. In other words, a complete working unit of the hospital is brought to the patient instead of bringing the patient to the hospital. Naturally it is only intended to do this in those sudden and fortunately somewhat rare instances where a journey to hospital may be definitely prejudicial to the safety of the mother's life. For practical considerations such as distance, &c., this unit will not be able to serve the whole of the County, but it is intended to experiment with this unit in the first instance and, in the light of the experience gained, other units might be established elsewhere.

Whether further County Council units will be required only time will show, but at the time this report is being compiled it is interesting to note that the Borough of Colchester is establishing a similar emergency unit at the Borough Maternity Home. Moreover, the Borough has extended to the County Council the opportunity of using this unit in the County Council's district surrounding the Borough. It would appear, therefore, that this arrangement will provide the facilities of a flying squad for a large area in the eastern part of the County.

(g) Miscellaneous.

The scheme was continued whereby a midwife practising in the County Child Welfare Area is allowed compensation of 10/6 in respect of each patient referred to an Ante-Natal Clinic or a Medical Practitioner where the patient is admitted to hospital as a result. Eight claims were paid during the year 1937.

In the report for the year 1933 details of the scheme were given under which the County Council pay a fee of £1 1s. 0d. for the services of an Anæsthetist called in by a medical practitioner engaged for a confinement. One claim was paid in 1937.

COMBINED MEDICAL SERVICE.

The Combined Medical Service was continued during the year, the only alteration in the scheme being in connection with the Borough of Chelmsford where, upon the resignation of Dr. J. C. Sleigh, the work was re-arranged so that the tuberculosis duties formerly undertaken by Dr. Sleigh were transferred to the Council's wholetime medical staff, and Dr. Sleigh's successor became whole-time Medical Officer of Health for the Borough.

COMBINED TREATMENT CENTRES.

During the year under review the following Combined Treatment Centres were opened :---

| Centre. | | Date. |
|-----------|------|---------------------------|
| Epping | | 19th January, 1937. |
| Braintree | | 15th September, 1937. |
| Rainham | | 15th November, 1937. |
| Vange | | 7th December, 1937. |

Waltham Abbey.

Other new Combined Treatment Centres in course of construction are as indicated below :---

Billericay. Buckhurst Hill. Burnham-on-Crouch. Hornchurch (Abbs Cross). Rochford.

PART IV.

PUBLIC ASSISTANCE.

General.

The status and efficiency of all branches of Public Assistance medical work continue to improve, with resultant benefits to the community.

The provision of better accommodation and more up-to-date equipment at Public Assistance Institutions has converted the old type of infirmary into highly efficient hospitals.

The experimental period of the "Free Choice Scheme" has proved that this is a sound and satisfactorily operating scheme, popular with patients and doctors alike. It is hoped that in the near future the scheme will be extended to other districts in the County.

During the year the Children's Home at Little Thurrock was closed.

Provision for the Sick in Public Assistance Institutions.

Table XXIV on page 118a shows the number of sick beds available on 31st December, 1937, in the ten County Public Assistance Institutions, together with the number of patients admitted and discharged.

Dental Treatment.

Public Assistance patients are treated by private dental practitioners, and also by whole-time members of the County dental staff, by arrangement with the Education Committee. Approximately 200 Public Assistance patients were treated by the County Dental Surgeons during the year, as compared with 356 in the year 1936.

Major Improvements carried out at Institutions during the year.

BILLERICAY. The plan for extending the St. Andrew's Hospital, foreshadowed in last year's Report, has been carried a stage further. Upon consideration of a report by the County Medical Officer, drawing attention to the considerable overcrowding in the Hospital, especially during peak periods, and the continued increase in the number of road accidents to be dealt with, it was decided to proceed with the preparation of the plans for the enlargement of the hospital from 67 to 150 beds, and to include accommodation for an X-Ray plant.

CHELMSFORD. It became apparent during the year under review that steps would have to be taken to enlarge the St. John's Hospital, particularly in connection with the accommodation for maternity patients, and steps are being taken to proceed with a proposal previously made for extending the accommodation on the second floor to provide 16 additional maternity beds.

Medical Staff-Public Assistance Institutions.

There were no changes in the Medical Staff of the various Public Assistance Institutions during the year. A list of the staff will be found in Table XXIV on page 118a. Arrangements were made to employ from 1st April, 1937, the services of Dr. F. E. Camps, of Chelmsford, as Consulting Physician and Pathologist at St. John's Hospital, Chelmsford, and at other Public Assistance Institutions as and when required.

Children's Homes.

| | | Beds a 31st D 19 | | | | Beds 31st D 1 | |
|----------------|-----------------------------|------------------------|----|--------|----|---------------------|--------|
| Area. | Address of Home. | Boys. | | Girls. | | Boys. | Girls. |
| Colchester | The Institution, Villa | 27 | | 24 | | 21 | 24 |
| | Road, Stanway | | | | | | |
| | "The Chestnuts," "The | 28 | | 26 | | 24 | 22 |
| | Firs," "The Limes," | | | | | | |
| | "The Oaks," Tendring, | | | | | | |
| | Nr. Weeley | | | | | | |
| Braintree | " Friars," Bradford Street, | 16 | ., | 15 | ., | 15 | 15 |
| | Bocking, Braintree | | | | | | |
| Saffron Walden | New Street, Dunmow | 8 | | 12 | | 6 | 9 |
| Epping | Coopersale Common, | 27 | | 18 | | 23 | 15 |
| | Epping | | | | | | |
| Southern | Scattered Homes | 102 | | 66 | | 93 | 54 |
| | Headquarters : | | | | | | |
| | Harold Wood Hall, | | | | | | |
| | Harold Park, Romford | | | | | | |
| Chelmsford | "The Gables," High | 26 | | - | | 26 | _ |
| | Street, Maldon | | | | | | |
| | "Foxcroft," High Street, | 32 | | | | 32 | |
| | Billericay | | | | | | |
| | " Greenbourne," Writtle | 32 | | - | | 32 | |

During the year the children's home at Little Thurrock was closed.

Children's Summer Camps.

Three hundred and seventy-six children from the Public Assistance homes and the Romford Homes attended the holiday camp at Tendring.

In the course of his report Dr. F. Atthill, who acted as Medical Officer of the camp, says :---

> "The children benefited by the change of air and living under canvas. Whatever the cost to the County may have been I think the money was well spent, judging by the results."

Credit is due to the camp staff, who worked hard to give the children an enjoyable holiday.

Maternity.

The maternity work undertaken at the ten County Public Assistance Institutions during the year again shows an increase as follows :----

117

| | 1936. | 1937. |
|--|-------|---------|
| Total number of beds available for maternity cases | 37 | 37 |
| Total number of maternity cases confined therein | 370 | 435 |

The Special Units at Oldchurch County Hospital and St. John's Hospital, Chelmsford, continued to deal with many of the cases of puerperal fever and puerperal pyrexia in the County.

From 1st January, 1938, however, arrangements were made to send all maternity patients suffering from puerperal sepsis and allied conditions to certain isolation hospitals having facilities for the treatment of these conditions and such patients are no longer accepted for treatment at the Oldchurch County Hospital and St. John's Hospital. This subject is also referred to on page 105.

Examination of Bacteriological Specimens.

The Public Assistance Committee's arrangement with Dr. J. F. Beale, Bacteriologist for Essex, for the examination of bacteriological specimens from Institutions was continued. Nine hundred and sixty-eight specimens were submitted during the year 1937.

Free Choice of Doctor System.

As indicated in last year's report, the Free Choice of Doctor System operating in the Great Clacton and Little Holland, Chingford and Walthamstow Medical Relief Districts was continued for a further experimental period ending 31st March, 1938. In a report upon the medical aspects of the scheme during 1937 the County Medical Officer pointed out that there were 65 medical practitioners participating in the scheme, as compared with 61 in 1936. During the year all the medical practitioners participating were visited and their records scrutinised and, from information thus gained, there is no doubt that the scheme fulfils its purpose both from the point of view of the medical practitioners and of the patients, who have the opportunity of being attended by the doctor they desire and in whom they have confidence. Only one complaint was made against an Approved Medical Practitioner during the year. The circumstances were reported by the practitioner himself and upon enquiry the grounds for complaint appeared to be non-existent.

Ancillary to the scheme in the Walthamstow District, is the employment of a nurse to carry out general nursing duties under the supervision of the Approved Medical Practitioners. During 1937 she paid an average of 70 domiciliary visits per week and in addition attended at the Relief Station to treat other patients. The services of a midwife are also provided by arrangement with the Walthamstow District Nursing Association to act as a maternity nurse.

It has now been decided to continue the scheme in the Districts referred to above on the existing terms and conditions and steps are being taken to inaugurate similar schemes in other Medical Relief Districts according to circumstances. TABLE XXIV.

| | | N | No. | of Beds ava | ilable. | No. of Admis- | No. of | Live- | Still- | Deaths | Deaths among Children | Maternal Deaths. | Total No. of | No. of patients dis- | No. | of Beds occ | apied. | No. ed operations under general | No. of |
|-----------------|--------------------------------------|---|------------|--------------|--------------------------------|------------------|-----------|---------------|---------|-----------------------|-----------------------------|---------------------|-----------------|----------------------------|-----------------|-----------------|----------------|--|----------------|
| Area. | Institution. | Name, Address and 'Phone No. of Medical Officer. | Men. 1. | Women. 2. | Children* (under 16). 3. | sions. | confined. | Births. 6. | Births. | newly- born. 8. | under 1 year. 9. | 10. | Deaths. | charged. 12. | Average, 13. | Highest. 14. | Lowest. 15. | anace- thetics. 16. | Section 17. |
| Colchester | Colebester | W. F. Payne, Sussex Lodge, Lexden Road, Colchester. 'Phone No. Colchester 2650. | 74 | 73 | 8 | 386 | 25 | 23 | 2 | 1 | 4 | - | 119 | 269 | 112 | 125 | 103 | 20 | 10 |
| | Stanway | Do. Do. | 34 | 53 | - | 96 | - | - | - | - | - | - | 44 | 48 | 67 | 75 | 62 | 1 | - |
| | Tendring | F. Atthill, Laurels, Great Bentley. 'Phone No. Great Bentley 11. | 48 | 78 | 8 | 293 | 9 | 9 | - | - | - | - | 93 | 195 | 116 | 124 | 107 | - | - |
| Braintree | St. Michael's Hospital, Braintree | T. W. Panter, Bradford Street, Bocking. 'Phone No. Braintree 13. | 43 | 55 | 8 | 175 | 1 | 1 | - | - | - | - | 79 | 90 | 88 | 92 | 81 | - | - |
| Saffron Walden | . Saffron Walden | J. H. Bartlett, Salfron Walden. 'Phone No. Salfron Walden 27. | 28 | 40 | 1 | 126 | 4 | 4 | - | - | - | - | 49 | 74 | 63 | 72 | 61 | - | - |
| Epping | Epping | R. Evans, Elm Bank, Station Road, Epping. 'Phone No. Epping 95. | 111 | 138 | 8 | 969 | 45 | 43 | 3 | 1 | 4 | - | 198 | 764 | 212 | 232 | 197 | 25 | - |
| Southern | . Gt. West Hatch, Chigwell | E. Miles, Oldchurch County Hospital, Romford, 'Phone No. Romford 3666. | - | 56 | - | 11 | - | - | - | - | - | - | - | 9 | 54 | 56 | 54 | - | - |
| South Eastern . | . Ornett | F. A. M. Nelson, Orsett. 'Phone No. Orsett 47. | 79 | 135 | 23 | 1279 | 73 | 71 | 3 | 3 | 13 | - | 370 | 853 | 194 | 226 | 153 | - | - |
| Chelmsford | St. Andrew's Hospital, Billericay | J. D. Fiddes, Rubislaw, Mount Avenue, Hutton. 'Phone No. Brentwood 110. | 29 | 83 | 11 | 809 | - | - | - | - | 6 | - | 175 | 670 | 66 | 88 | 45 | 143 | 41 |
| | St. John's Hospital, Chelmaford | J. T. Whitley, Thorneybrook, London Road, Chelmsford. 'Phone No. Chelmsford 2194. | 51 | 89 | 13 | 983 | 272 | 252 | 24 | 10 | 16 | 3 | 142 | 821 | 136 | 149 | 128 | 49 | 17 |
| | St. Peter's Hospital, Maldon | M. J. T. Wallis, 25, London Road, Maldon. 'Phone No. Maldon 91. | 23 | 92 | 4 | 221 | 6 | 5 | 1 | - | - | - | 83 | 185 | 61 | 72 | 46 | 17 | - |
| - | | Totals | 520 | 892 | 84 | 5348 | 435 | 408 | 33 | 15 | 43 | 3 | 1352 | 3978 | 1169 | 1311 | 1037 | 255 | 65 |

Table A showing Beds Provided and Occupied for Sick, Maternity and Mental Cases for the 12 Months ended 31st December, 1937, in Institutions belonging to the County Council.[↑] (As shown in the Return Hosp. 6).

118A

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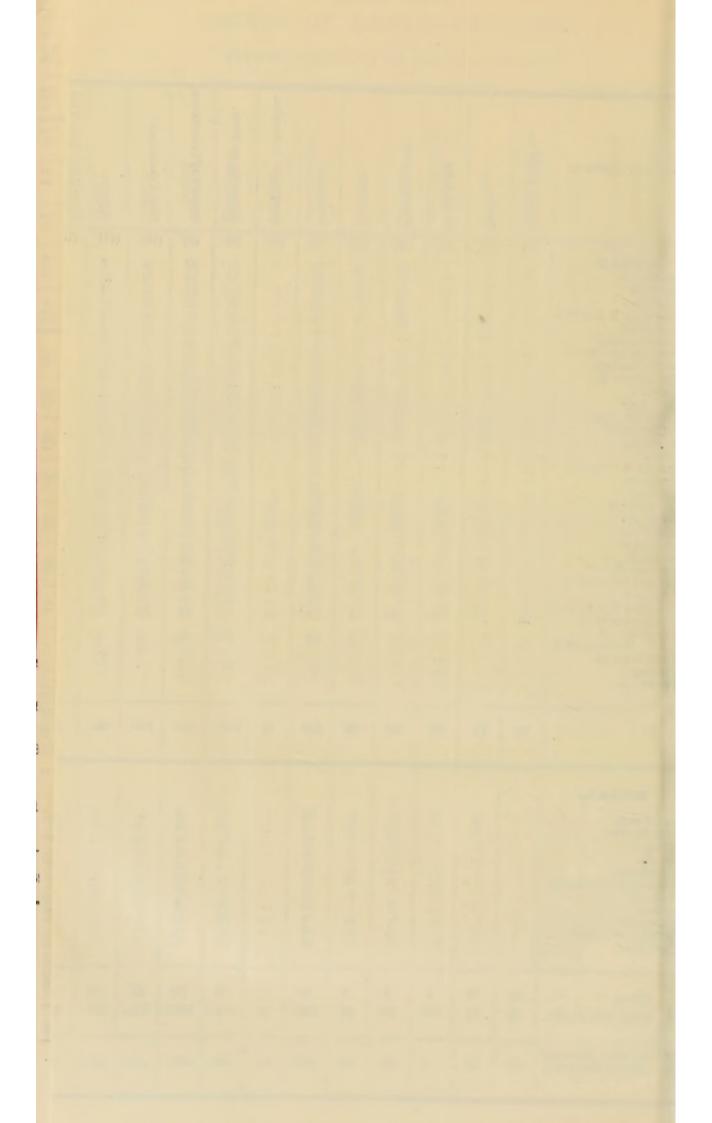
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| ls occu | pied. | No. of operations under general | No. of Abdominal |
| hest. .4. | Lowest. 15. | anaes- thetics. 16. | Sections. |
| .25 | 103 | 20 | 10 |
| 75 | 62 | 1 | - |
| 24 | 107 | - | - |
| 92 | 81 | - | .— |
| 72 | 61 | - | - |
| 32 | 197 | 25 | - |
| 56 | 54 | - | - |
| 26 | 153 | - | - |
| 88 | 45 | 143 | 41 |
| 49 | 128 | 49 | 17 |
| 72 | 46 | 17 | - |
| 11 | 1037 | 255 | 68 |

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| | * | 1 8 | | \$ | 101 | 10-5 1 | 1.5 | | 9.0 9 | 11.0 | 11.4 | |
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| D. Wordfrond, B. 3,812 0,113 2,007 3,048 7,11 2,007 3,048 7,11 2,007 2,008 2,01 2,00 2,01 2,00 2,01 2 | 21- | 662 | - | 8 | .413 | 12.7 D | 0.0 | 2 0.6 | 6 1.4 | 11.1 | 12.1 | |
| matrix 2,007 2,006 2,01 2,007 2,006 2,01 2,00 | | 4 | - | E | 53 | 13.4 | 0 2.6 | 50 G | 60 9 | 15.0 | ¥-6 | |
| m. 0.7324 7.162 111 9 66 2 2 m. 1 MAL 2009 2109 2109 2109 210 20 3 3 3 3 3 m. m. MAL 2009 10.010 2109 10.01 10.0 | 1 1 1 | | | 12 | 34 | - | 9.9 | : | 12 | 0.68 | 6.6 | |
| matrix matrix 210 27 matrix 20 3 matrix RAL. 260,000 1,00,000 1,00,000 1,00,000 1,10,001 | 1 1 3 | 1 3 | 11 19 | 13 | 2 | - | 9 1.6 | 1 0.3 | _ | - | 5 | |
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| RAL. Bal. Rev. Rev. <th< td=""><td>002 002 122</td><td>644 L,104 1,</td><td>514 2,600</td><td>3,118 1</td><td>11,467 1</td><td>6.6</td><td>0 26</td><td>0.2 0.4</td><td>0.1</td><td>1.02</td><td>10.2</td><td>1999</td></th<> | 002 002 122 | 644 L,104 1, | 514 2,600 | 3,118 1 | 11,467 1 | 6.6 | 0 26 | 0.2 0.4 | 0.1 | 1.02 | 10.2 | 1999 |
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| matrix Table Table <t< td=""><td>3 3 6 0</td><td>11 17</td><td>20 12</td><td>74 2</td><td>222</td><td>14.8 14.2</td><td>2 0.1</td><td>9.0</td><td>21</td><td>0.77</td><td>10-9</td><td></td></t<> | 3 3 6 0 | 11 17 | 20 12 | 74 2 | 222 | 14.8 14.2 | 2 0.1 | 9.0 | 21 | 0.77 | 10-9 | |
| Matrix 13031 13036 13040 223 15 15 1 17 1 matrix matrix 1003 1300 1300 130 130 1< | 1- 21 6 | 16 18 | - | 135 | | 15-4 12-3 | 3 0.1 | 0.4 | 12 | \$9.0 | 10.4 | |
| Manual Robit Robit <t< td=""><td></td><td></td><td></td><td></td><td>-</td><td>13.5 14.0</td><td>9</td><td>0.3</td><td>1:5</td><td>N2.0</td><td>1.11</td><td>-</td></t<> | | | | | - | 13.5 14.0 | 9 | 0.3 | 1:5 | N2.0 | 1.11 | - |
| Museuma 66/67 13/418 13/96 3/22 2 2/2 9 0 0 0 1 7.006 13/348 13/36 13/36 13/36 13/36 13/36 1 1 2 | - + 0 - + 0 | 6 16 | | 64 1 | - | 15.4 12.4 | _ | 0.2 | 1.1 | 68.0 | 11.0 | |
| Bound Light Light <thlight< th=""> Light <thl< td=""><td></td><td>-</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>0.5</td><td>1:3</td><td>0.73</td><td>11.4</td><td></td></thl<></thlight<> | | - | | | - | - | - | 0.5 | 1:3 | 0.73 | 11.4 | |
| matrix G.206 11,270 12,400 500 2 128 6 6 1 1 2 Wei - </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>7 0.1</td> <td>0.3</td> <td>12</td> <td>12-0</td> <td>90 90</td> <td></td> | | | - | | | | 7 0.1 | 0.3 | 12 | 12-0 | 90 90 | |
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|--|---|---|---|---|--|------------------------------|---|---|--|---|--|--|---|---|----------------------------------|-----------------|----------------|--|---|
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| For. Boro's & URBAN DISTRICTS | | 232 | 1-20 | 70 | ·36 | 5 | -02 | 5 | 15 | 33 | -17 | 3 | 89 | •46 | 1 | 7 | | | |
| TOTAL RURAL DISTRICTS | | 232 | 2.59 | 1188 | | 140 | 12 | 31 | 201 | 369 | ·31 | | | 10 | | | 61 | | |
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|----|----|---|-----|---|--|
| 1 | A. | D | E | Δ | |

| | PAGE. |
|---|----------------|
| Acreage and Population | 16 |
| After-Care (Tuberculosis) | 97-99 |
| (Orthopædic) | 108 |
| Air Raid Precautions | 73-74 |
| Ambulance Facilities | 68 |
| Ante-Natal Clinics | 101 |
| | |
| Bacteriological Examinations | 23-32, |
| | 105-106 |
| Birth-rate | 17 |
| Birth Control | 101 |
| Biological Examinations (Milk) | |
| Black Notley Sanatorium | 88-94 |
| Blind Persons Act, 1920-1938 | 60-61 |
| Blindness, Prevention of | 106 |
| Brookfield Orthopædie Hospita | |
| | 107-108 |
| ~ | |
| Cancer Care Associations (Tuberculosis | 17 & 18a |
| Care Associations (Tuberculosis | 3) 97-99 |
| Child Life Protection Child Welfare Centres | 108-109 |
| Child Welfare Centres | 101 |
| Combined Medical Service | 115 |
| ", Treatment Centres | 103, 115 |
| Consulting Physician and Pat | holo- |
| gist | 105 |
| Convalescent Hospitals | 67-68 |
| " Treatment | 107 |
| County Nursing Association | 113 |
| " Laboratory Service | 23-32 |
| " Sanatoria | 88 |
| " Tuberculosis Scheme | 75-99 |
| Cookery Lectures | 101-103 |
| | 17 |
| Death-rate | 17 |
| Dental Treatment : | 100 |
| Maternity and Child Welfa | |
| Tuberculosis | 92 |
| Public Assistance | 116 |
| District Nursing Associations | 11 |
| Diphtheria District Nursing Associations Domestic Science | 101 102 |
| Domestic Science | 101-105 |
| Enteric Fever | 17 |
| Enteric Fever Essex County Council Act, 193 | 11 |
| ", County Nursing Associat | tion 113 |
| Extra Nourishment (Tuberculo | (100 113) |
| and a rourismient (1 uberculo | 518) 97 |
| Food and Drugs | 46 47 |
| Food and Drugs Free Choice of Doctor System | 110 |
| and onotes of Doctor System | 118 |
| Gauging of Rivers | 48-49 |
| "Green Belt" Proposals | 40-49 56-57 |
| Troponto | 00-01 |

| | - |
|--|--|
| | PAGE. |
| Hainault Lodge Harold Court Sanatorium | 64 |
| Harold Court Sanatorium | 94-96 |
| Health Education and Exhibition | ons 62 |
| Health Visitors Hermon Hill (Wanstead) | 101 |
| Hermon Hill (Wanstead) | 65. |
| High Beech Sanatorium | 96-97 |
| Home Helps | 104 |
| Hospitals (Isolation) | 22 |
| Hospital Treatment Maternity | 106-107 |
| Services | 62-73 |
| Housing Acts 1925-1936 | 34-35 |
| ,, Services Housing Acts, 1925-1936 ,, (Rural Workers) A 1926-1931 | ets |
| 1926-1931 | 35-36 |
| 1020-1001 | 00 00 |
| Infant Mortality Rate | 17 |
| Infactions Diseases (Notification | 17 |
| Infectious Diseases (Notification Isolation Hospitals | 99 |
| Institutional Assommodation | 44 |
| Institutional Accommodation, | 09.05 |
| Tuberculosis | 00-00 |
| T 1 (D (1 1 1 1)) | 88-97 |
| Laboratory (Bacteriological) | 23-32 |
| Lectures to Midwives | 112 |
| Little Heath House Local Government Acts, 1929 | 65 |
| Local Government Acts, 1929 | and |
| 1300 | |
| Section 57 Section 63 | 33-34 |
| | |
| London and Home Counties Ve | |
| eal Diseases Scheme | 18-20 |
| Loxford Lane (Ilford) | 65 |
| | |
| Massage and Special Treatm Establishments | nent |
| Establishments | 54 |
| Maternal Deaths | 100 |
| Maternal Mortality | 101. |
| | 114-115 |
| Maternity Hospital Treatment | |
| and Child Walfare | 106 - 107 |
| and United Weitare | 106-107 100-115 |
| " and Child Welfare | 100-115 |
| ,, and Child Welfare ,, ,, Centr Medical Service (Combined) | 100-115 |
| ,, and Child Welfare ,, ,, Centr Medical Service (Combined) Practitioners' Fass (| 100-115 |
| ,, Centr Medical Service (Combined) ,, Practitioners' Fees (1 | 100-115 res 101 115 Mid- |
| ,, ,, Centr Medical Service (Combined) ,, Practitioners' Fees (1 wives Acts) | 100-115 res 101 115 Mid- 112 |
| ", ", ", Centr Medical Service (Combined) ", Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 | 100-115 res 101 115 Mid- 112 59 |
| ,, ,, ,, Centr Medical Service (Combined) ,, Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 ,, Deficiency | 100-115 res 101 115 Mid- 112 59 57-59 |
| ", ", ", Centr Medical Service (Combined) ", Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 ", Deficiency Meteorology | 100-115 res 101 115 Mid- 112 59 57-59 47-48 |
| ,, ,, ,, Centr Medical Service (Combined) ,, Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 ,, Deficiency Meteorology Michaelstow Hall | 100-115 res 101 115 Mid- 112 59 57-59 47-48 |
| ,, ,, Centr Medical Service (Combined) , ,, Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 ,, Deficiency ,, Deficiency Meteorology Michaelstow Hall | 100-115 res 101 115 Mid- 112 59 57-59 47-48 68 |
| ,, ,, ,, Centr Medical Service (Combined) ,, Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 ,, Deficiency Meteorology Michaelstow Hall Midwives : | 100-115 res 101 115 Mid- 112 59 57-59 47-48 68 |
| ,, ,, ,, Centr Medical Service (Combined) ,, Practitioners' Fees (1 wives Acts) Mental Treatment Act, 1930 ,, Deficiency Meteorology Michaelstow Hall Midwives : | 100-115 res 101 115 Mid- 112 59 57-59 47-48 68 |
| ","",","," Centr Medical Service (Combined) "," Practitioners' Fees (I wives Acts) Mental Treatment Act, 1930 "," Deficiency Meteorology Michaelstow Hall Midwives Inspection of Lectures to Midwives Acts, 1902-1936 | 100-115 res 101 115 Mid- 59 57-59 47-48 68 112 112 109-112 |
| ","",","," Centr Medical Service (Combined) "," Practitioners' Fees (I wives Acts) Mental Treatment Act, 1930 "," Deficiency Meteorology Michaelstow Hall Midwives Inspection of Lectures to Midwives Acts, 1902-1936 | 100-115 res 101 115 Mid- 59 57-59 47-48 68 112 112 109-112 |
| ", ", ", ", ", ", ", ", ", ", ", ", ", " | 100-115 res 101 115 Mid- 59 57-59 47-48 68 112 112 109-112 44-45 ision |

6

INDEX—continued.

| | PAGE. |
|-------------------------------|--|
| Milk Supply | 36-37 |
| Milk Samples-An | |
| Milk and Dairie | s (Consolidation) |
| Act 1915 | 37-38 |
| Mills and Dairios (| |
| | |
| | ignations) Order, |
| 1936 | (Maternity and |
| Minor Ailments | (Maternity and |
| Child Welfare) | 107 |
| | |
| National Health C | ampaign 61, 114 rths Acts Acts 100 |
| Notification of Bir | rths Acts Acts 100 |
| of In | factions Disasses 17 |
| Numery Schoole | fectious Diseases 17 |
| Nursery Schools | or Chronic Sick 71-72 |
| Nursing Training 1 | or Chronic Sick 71-72 |
| " Associatio | n 113 |
| " Homes I | m 113 Registration Act, 108 68-72 |
| 1927 | 108 |
| Nursing Services | |
| | |
| Oak Hill (Walthan | nstow) 65 |
| Obstetric Specialis | |
| | |
| Oldchurch Hospita | al 18, 30, 32, 64 |
| Ophthalmia Neona | atorum 100, 106, |
| | 111 |
| Orthopædic Treat | ment 107-108 |
| Overcrowding in I | Houses 35 |
| | |
| Park Road Site (C | Solchester) 67 torum 111 |
| Pamphique Neona | torum 111 |
| Post Graduata Con | urse-Midwives 114 |
| Post-Graduate Co | 12 |
| Population | 16 |
| Preface | 6-8 |
| Preface Propaganda, Publ | ic Health 61-62 |
| Public Assistance | 116-118 |
| ,, ,, | Bacteriological |
| | |
| | Facilities 30-32 |
| | |
| | 118 |
| ., ., | 118 Children's |
| "" | 118 Children's Homes 117 |
| » » | 118 Children's Homes 117 Children's |
| | 118 Children's Homes 117 Children's Summer Camps 117 |
| "" | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment |
| """ | 118 Children's Homes 117 Children's Summer Camps 117 |
| "" | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment |
| " " | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 |
| " " | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 Free Choice of Doctor |
| >> >> >> >> >> >> >> | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 Free Choice of Doctor System 118 |
| " " | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 Free Choice of Doctor System 118 Institutional |
| >> >> >> >> >> >> >> | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 Free Choice of Doctor System 118 Institutional Accommodation |
| >> >> >> >> >> >> >> | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 Free Choice of Doctor System 118 Institutional Accommodation (Major Improve- |
| >> >> >> >> >> >> >> | 118 Children's Homes 117 Children's Summer Camps 117 Dental Treatment 116 Free Choice of Doctor System 118 Institutional Accommodation |

-

| | | - |
|--|--|--|
| D.11. A. 1. | 35 21 2 101 00 | PAGE. |
| Public Assistance | | |
| ,, ,, | Nursing of | |
| | Chronic and | |
| | firm Sick | |
| ,, ,, | Provision for | |
| | Sick in I | nsti- |
| TT 1.1 1 | tutions | 116 |
| ,, Health Ad | tutions et, 1936 | 100, 108 |
| ruerperal reve | r and Fuerp | perai |
| Pyrexia | | |
| Pyrgo Park | •• •• | 69-67 |
| Datashi Walas | | 10 |
| Rateable Value | •••••• | 16 |
| Refuse Dumps | | 54 |
| Rivers Pollution | •• •• | 53-56 |
| Sale of Beed and | Danas Asta | 10 17 |
| Sale of Food and | | |
| Sanatoria | | 88 |
| Scarlet Fever | 1 D: D II | 17 |
| Sewage Works ar | | |
| 01 1/ (Demisil | | 24, 53-56 |
| Shelters (Domicil | | 98 |
| Smallpox | | 17 |
| Social Conditions | | ·· 16 9-15 |
| Staff, List of | | 9-15 |
| | | |
| Tilburr Artorial | Road Site | 66 |
| Tilbury Arterial | Road Site | 66 |
| Toddlers' Session | s | 101 |
| Toddlers' Session Town and Count | ry Planning | $101 \\ 56-57$ |
| Toddlers' Session | s ry Planning uses (Maternity | 101 56-57 and |
| Toddlers' Session Town and Count Travelling Expen | ry Planning nses (Maternity Child Welf | 101 56-57 and fare) 104 |
| Toddlers' Session Town and Count Travelling Exper | ry Planning Ises (Maternity Child Welf (Tuberculo | 101 56-57 and fare) 104 sis) 97 |
| Toddlers' Session Town and Count Travelling Expen | ry Planning nses (Maternity Child Welf (Tuberculo | 101 56-57 and fare) 104 sis) 97 75-99 |
| Toddlers' Session Town and Count Travelling Expen " Tuberculosis" " Care Disr | ry Planning uses (Maternity Child Well (Tuberculo | 101 56-57 and fare) 104 sis) 97 75-99 97-99 |
| Toddlers' Session Town and Count Travelling Expen """ Tuberculosis" """ Care """""""""""""""""""""""""""""""""""" | ry Planning nses (Maternity Child Welf (Tuberculo | 101 56-57 and fare) 104 sis) 97 75-99 97-99 80-82 |
| Toddlers' Session Town and Count Travelling Exper "Tuberculosis" "Care " Disp | s ry Planning ases (Maternity Child Welf (Tuberculo Associations bensaries itutional Acc | 101 56-57 and fare) 104 sis) 97 75-99 97-99 80-82 com- |
| Toddlers' Session Town and Count Travelling Expen """ Tuberculosis" """ Care """""""""""""""""""""""""""""""""""" | ry Planning nses (Maternity Child Welf (Tuberculo | 101 56-57 and fare) 104 sis) 97 75-99 97-99 80-82 com- n 83-85, |
| Toddlers' Session Town and Count Travelling Expen " " Tuberculosis" " " Care " " Disp " " Not | ry Planning nses (Maternity Child Welf (Tuberculo | 101 56-57 and fare) 104 sis) 97 75-99 97-99 80-82 com- n 83-85, 88-97 |
| Toddlers' Session Town and Count Travelling Expen """ Tuberculosis """ Care """" Disp """"" """""""""""""""""""""""""""""" | s ry Planning uses (Maternity Child Welf (Tuberculo Associations bensaries itutional Acc modation ifications | 101 56-57 and fare) 104 sis) 97 75-99 97-99 80-82 com- n 83-85, 88-97 75-76 |
| Toddlers' Session Town and Count Travelling Expen "" Tuberculosis "" Care "" Disp "" Inst | ry Planning nses (Maternity Child Welf (Tuberculo | 101 56-57 and fare) 104 sis) 97 75-99 97-99 80-82 com- n 83-85, 88-97 |
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| Toddlers' Session Town and Count Travelling Expen """ "Uberculosis" """ Care """" Disp """"" """""""""""""""""""""""""""""" | s ry Planning uses (Maternity Child Welf (Tuberculo | $\begin{array}{c} & 101 \\ 56-57 \\ and \\ fare) & 104 \\ sis) & 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ som- \\ n & 83-85, \\ 88-97 \\ 75-76 \\ & 38 \\ 20-22 \\ 18-20 \end{array}$ |
| Toddlers' Session Town and Count Travelling Expen """ "Uberculosis""" """ """" """" """"" """"""""""" | s ry Planning ases (Maternity Child Welf (Tuberculo e Associations bensaries itutional Acc modation ifications er, 1925 s Scheme ction | $\begin{array}{c} 101 \\ 56-57 \\ and \\ fare) 104 \\ sis) 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ som- \\ n 83-85, \\ 88-97 \\ 75-76 \\ 38 \\ 20-22 \\ 18-20 \\ 36-37 \end{array}$ |
| Toddlers' Session Town and Count Travelling Expen "Tuberculosis" "Tuberculosis" "Uberculosis" | s ry Planning ases (Maternity Child Welf (Tuberculo e Associations bensaries itutional Acc modation ifications er, 1925 s Scheme ction | $\begin{array}{c} 101 \\ 56-57 \\ and \\ fare) 104 \\ sis) 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ com- \\ n 83-85, \\ 88-97 \\ 75-76 \\ 38 \\ 20-22 \\ 18-20 \\ 36-37 \\ 16 \end{array}$ |
| Toddlers' Session Town and Count Travelling Expen """ "Uberculosis""" """ """" """" """"" """"""""""" | s ry Planning ases (Maternity Child Welf (Tuberculo e Associations bensaries itutional Acc modation ifications er, 1925 s Scheme ction | $\begin{array}{c} 101 \\ 56-57 \\ and \\ fare) 104 \\ sis) 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ com- \\ n 83-85, \\ 88-97 \\ 75-76 \\ 38 \\ 20-22 \\ 18-20 \\ 36-37 \\ 16 \end{array}$ |
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| Toddlers' Session Town and County Travelling Expen """ "Uberculosis" """ Care """" Disp """" """" """" """"""""""""""""""""" | s ry Planning uses (Maternity Child Welf (Tuberculo e Associations bensaries itutional Acc modation ifications er, 1925 s Scheme ction tals Commissio 42-4 s | $\begin{array}{c} \ 101 \\ 56-57 \\ and \\ fare) \ 104 \\ sis) \ 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ som- \\ n \ 83-85, \\ 88-97 \\ 75-76 \\ \ 38 \\ 20-22 \\ 18-20 \\ 36-37 \\ \ 16 \\ n \ \ 72 \end{array}$ |
| Toddlers' Session Town and Count Travelling Expen "Tuberculosis" "Care "Disp "Inst "Inst "Not "Not "Not "Ord Vaccination Venereal Disease Veterinary Inspe Vital Statistics Voluntary Hospi Water Supplies Weighing Centres | s ry Planning uses (Maternity Child Welf (Tuberculo e Associations bensaries itutional Acc modation ifications er, 1925 s Scheme ction tals Commissio 42-4 s | $\begin{array}{c} \ 101 \\ 56-57 \\ and \\ fare) \ 104 \\ sis) \ 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ som- \\ n \ 83-85 \\ 88-97 \\ 75-76 \\ \ 38 \\ 20-22 \\ 18-20 \\ 36-37 \\ \ 16 \\ n \ \ 72 \\ 14, \ 48-53 \\ \ 101 \end{array}$ |
| Toddlers' Session Town and Count Travelling Expen "Tuberculosis" "Care "Disp "Inst "Inst "Not "Not "Not "Ord Vaccination Venereal Disease Veterinary Inspe Vital Statistics Voluntary Hospi Water Supplies Weighing Centres | s ry Planning uses (Maternity Child Welf (Tuberculo e Associations bensaries itutional Acc modation ifications er, 1925 s Scheme ction tals Commissio 42-4 s e Clinics | $\begin{array}{c} \ 101 \\ 56-57 \\ and \\ fare) \ 104 \\ sis) \ 97 \\ 75-99 \\ 97-99 \\ 80-82 \\ com- \\ n \ 83-85, \\ 88-97 \\ 75-76 \\ \ 38 \\ 20-22 \\ 18-20 \\ 36-37 \\ \ 16 \\ n \ \ 72 \\ 14, \ 48-53 \\ \ 101 \\ \ 101 \\ \end{array}$ |