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CHELMSFORD
RURAL DISTRICT COUNCIL

Annual Report

OF THE

MEDICAL OFFICER of HEALTH

(JOHN F. MACDONALD, M.D., D.P.H.)

(Barrister-at-Law)

FOR

1947.

SOUTHEND :

W. H. Houldershaw, Ltd., Printers, 49-55, London Road,

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LONDON ROAD,
CHELMSFORD.

26th May, 1948.

To the Chairman and Members of the Chelmsford Rural District Council.

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour to present for your consideration the Annual Report on the health and sanitary circumstances of your District during the year 1947.

The Death Rate for the year per 1,000 population was 11.6 compared with 11.2 for 1946, and the Birth Rate was 21.4 compared with 19.7 for the previous year.

The number of cases of infectious diseases was not above the average.

To my colleagues I am much indebted for valuable assistance, and to Mr. Denton Ogden for helping in the preparation of this Report.

This being my final Report, may I express my appreciation for the willing co-operation shown by my colleagues at all times.

For the sympathetic consideration extended to me by the Council during the 34 years I have acted as Medical Officer of Health, I wish to express my sincere thanks.

Your obedient servant,

JOHN F. MACDONALD.

STAFF.

Clerk to the Rural District Council : H. H. Gowers.

Deputy Clerk to the Rural District Council : C. R. Plumtree.

Financial Officer to the Rural District Council : M. W. Butcher.

PUBLIC HEALTH DEPARTMENT.

Medical Officer of Health : John F. Macdonald, M.D., D.P.H.
(also Medical Officer of Health for the Rural Districts of Maldon and Rochford).

Clerk to Medical Officer of Health : W. D. Hall.

CHIEF SANITARY INSPECTOR'S DEPARTMENT.

*Chief Sanitary Inspector and Petroleum Inspector :**

A. Denton Ogden, M.B.E., F.R.San.I., F.S.I.A.

*Sanitary Inspectors :—**

T. H. C. Bartrop, M.R.San.I., M.S.I.A.,

C. F. Allard, M.S.I.A., M.R.I.P.H.H.

L. W. Eckersley, M.R.San.I., M.S.I.A.

Clerk-Assistant : F. B. Brewster.

Clerk : R. H. Hawkes.

*Qualified Inspectors of Meat and other Foods, Royal Sanitary Institute.

ENGINEER'S DEPARTMENT.

Engineer and Surveyor : W. E. Bunker, M.Inst., M. & CyE.
M.R.San.I.

Assistant Engineer and Surveyor : D. C. Pinder.

HOUSING ESTATES DEPARTMENT.

Estate Surveyor and Ambulance Officer : E. Ollett.

CHELMSFORD RURAL DISTRICT

STATISTICS AND SOCIAL CONDITIONS OF THE AREA

Area (acres) 86,590 (land and inland waters.)

Population (estimated, 194⁷₅) 35,930

Population, 1931 (census) 27,836 (13,628 males; 14,208 females).

Number of families or
separate occupiers (1931) 7,441

Number of houses on 31st
December, 1947 ... 10,694

The rateable value of the district for the half-year commencing—
1st April, 1947, was £199,144 10s. 0d.

The sum represented by a penny rate, year ended
31st March, 1947 £801 18 11

Social Conditions.

The chief occupation in the District is still agriculture. The male working population in this and associated occupations at the 1921 census was 45 per cent total male working population, and in 1931, 35 per cent. This latter figure is still a substantial proportion of the male working population. A number residing in the parishes adjacent to the Borough of Chelmsford are employed in industrial works in the borough.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR

			Total	Male	Female	
Live Births	(Legitimate ...	...	743	365	378	Birth-rate (R.G.) 21.4
	(Illegitimate ...	...	27	12	15	
Still Births	(Legitimate ...	...	10	5	5	Rate per 1,000 births 15.5
	(Illegitimate ...	...	2	—	2	
Deaths	...	...	428	208	220	Death-rate (R.G.) 11.6

Deaths from puerperal causes :—

From Puerperal and post-abortive sepsis	...	...	Nil
Other Maternal causes	...	...	1

Number of deaths of infants under 1 year of age :—

Males, 10 (9 legitimate); Females, 8 (7 legitimate).
(1 illegitimate). (1 illegitimate).

Death-rate of infants under 1 year of age :—

All infants per 1,000 live births	...	...	...	23.3
Legitimate infants per 1,000 legitimate live births	...	...	...	21.5
Illegitimate infants per 1,000 illegitimate live births	...	...	...	74.0

Deaths from Cancer (all ages)	...	...	...	64
Deaths from Measles (all ages)	...	...	...	Nil.
Deaths from Whooping Cough (all ages)	...	...	...	Nil.
Deaths from Diarrhoea (under 2 years of age)	...	...	...	Nil.

Comparative Table of Birth and Death Rates During the Year, 1947.

	Rate per 1,000 Resident Population		Deaths under One Year per 1,000 regis- tered Live Births
	Live Births	Deaths from all causes	
England and Wales	20.5	12.0	41
126 County Boroughs and Great Towns, including London ...	23.3	13.0	47
148 Smaller Towns with resident population of from 25,000 to 50,000 at 1931 Census... ..	22.2	11.9	36
Chelmsford Rural District ...	21.4	11.6	23

The deaths classified according to age were as follows :—

				Number of Deaths			
				Occurring in district	Of non- residents occurring in district	Of residents occurring outside district	Allotted to district
Under 1 year				4	—	14	18
1 and under 2				3	1	—	2
2 " " 5				4	2	4	6
5 " " 15				5	3	1	3
15 " " 25				3	1	3	5
25 " " 35				7	6	5	6
35 " " 45				14	10	9	13
45 " " 55				17	7	14	24
55 " " 65				49	19	25	55
65 " " 75				89	23	33	99
75 and over				209	53	41	197
Totals				404	125	149	428

During part of the first three months of 1947 the weather was abnormally severe, and this is reflected in the number of deaths that occurred during that period as compared with the number

of deaths in the corresponding periods of 1945 and 1946. The following table also classifies these deaths according to age:—

<i>Period and Year</i>				<i>Total Deaths</i>	<i>Under 65</i>	<i>Over 65</i>
January-March, 1945	...			100	39	61
„ „ 1946	...			91	22	67
„ „ 1947	...			154	31	123

Natural increase of population, namely, the excess in the number of live births over the number of deaths, since 1937 is shown in the following tabular statement.

Year	Number of			Deaths		Increase
		Births				
1937	...	460	...	370	...	90
1938	...	485	...	340	...	145
1939	...	497	...	357	...	140
1940	...	518	...	419	...	99
1941	...	478	...	416	...	62
1942	...	600	...	372	...	228
1943	...	584	...	387	...	197
1944	...	670	...	427	...	243
1945	...	586	...	358	...	228
1946	...	693	...	396	...	297
1947	...	770	...	428	...	342

The birth rate is declining gradually. The effect of a declining birth rate is an increase in the proportion of older persons in the population, and a decline in the number in the younger groups. This is shown in the following table:—

Census			Percentage of the Population under 20 years of age	Percentage of the Population under 40 years of age	Percentage of the Population over 65 years of age
1881	...	...	46.6	70.9	6.9
1901	...	...	36.9	65.2	7.3
1911	...	...	37.7	67.0	8.5
1921	...	...	35.8	64.1	8.4
1931	...	...	32.2	61.2	9.6

The number of persons per family has shown a steady decrease, for example :—

At the 1911 census the average number of persons per family was 4.5 per cent

[illegible]

The following table classifies the deaths according to cause and sex—

Cause of Death	Males	Females	Total
Typhoid and Paratyphoid Fevers	—	—	—
Measles	—	—	—
Scarlet Fever	—	—	—
Whooping Cough	—	—	—
Diphtheria	—	—	—
Influenza	5	4	9
Ac. Poliomyelitis & Polioencephalitis	—	—	—
Acute Inf. Encephalitis	—	—	—
Cerebro Spinal Fever	—	1	1
Tuberculosis of respiratory system	4	4	8
Other tuberculosis	—	2	2
Syphilitic Diseases... ..	—	1	1
Cancer	29	35	64
Diabetes	2	1	3
Intra-cranial vascular lesions ...	19	46	65
Heart disease	62	42	104
Other circulatory diseases ...	12	15	27
Bronchitis	9	3	12
Pneumonia (all forms)	3	10	13
Other respiratory diseases ...	2	2	4
Ulcer of stomach and duodenum	6	—	6
Diarrhoea (under 2 years) ...	—	—	—
Appendicitis	—	—	—
Other digestive diseases	4	2	6
Nephritis	2	4	6
Puerperal and post Abortive Sepsis	—	—	—
Other Maternal Causes	—	1	1
Malformation, etc.	7	8	15
Premature Birth	3	—	3
Suicide	4	1	5
Road traffic accidents	2	2	4
Other violent causes	6	2	8
All other causes	27	34	61
TOTALS ...	208	220	428

GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

The Rural District Council consists of 36 elected members and meets monthly. There are several Committees dealing with Public Health matters, each of which meets on the 3rd Tuesday of each month. The Committees' reports are presented at the following Council Meeting—4th Tuesday in each month. The Minutes of the Council are printed and distributed to members.

LIST OF COMMITTEES.

General Purposes and Staffing.

Finance.

Buildings and Planning.

Public Health.

Housing.

Re-Housing.

Slum Clearance.

Estates Management.

Drainage and Water.

Rating and Valuation.

Fuel and Lighting Advisory.

Catering.

Community Centres.

The Council is represented on the :—

Chelmsford Area Assessment Committee.

Chelmsford Joint Sewerage Committee.

Chelmsford Joint Hospital Board.

South-East Essex Superannuation Joint Committee.

South-East Essex United Districts (Medical Officer of Health) Committee.

Chelmsford Area Guardians Committee.

Road Safety Joint Committee.

Traffic Committee

Ministry of Labour Employment Committee.

Mid-Essex Regional Planning Committee.

Chelmsford and District Tuberculosis After Care Association.

Rural District Council's Association (Essex Branch).

Chelmsford and District Youth Committee.

Essex County Branch Rural District Councils Association.

Divisional Education Committee.

Midwives. None is subsidised by the District Council. There were 13 midwives and 1 district nurse practising in the district at the end of 1947. In addition two midwives were in private practice.

Laboratory Facilities.

These services are provided by the County Council.

Hospitals provided or subsidised by the Sanitary Authority or by the County Council :—

(1) Tuberculosis Institutions are provided by the Essex County Council.

(2) Maternity Hospital. Hospital treatment is provided by the County Council by arrangement with certain hospitals for the following types of patients :—

- (i) Complicated or difficult cases of confinement where hospital treatment is essential. (St. John's Hospital, Chelmsford; Municipal Hospital, Rochford; Colchester Borough Maternity Home).
- (ii) Patients who, after confinement, are found to be suffering from Puerperal Pyrexia. (Colchester, Rush-Green, Romford, Waltham Abbey, and Billericay Isolation Hospitals).
- (iii) Pregnant women for whom hospital treatment is necessary.

(3) Hospital for Children. Arrangements are made by the Essex County Council for the reception of infants suffering from Ophthalmia Neonatorum, at Rush Green Hospital, Romford, and Oldchurch County Hospital, Romford. Where, for some particular reason, the infant cannot be admitted to Hospital, the County Council has an arrangement with the Essex County Nursing Association for the provision of a trained nurse at the patient's home.

Treatment of Orthopaedic patients.

Ascertainment clinics are held at Coval Lane, Chelmsford approximately once a quarter.

Arrangements are made for children seen at the Ascertainment Clinic to be admitted to Oldchurch County Hospital, Romford, or Essex County Hospital, Black Notley.

After-treatment clinics are held at Chelmsford on Mondays, commencing at 2 p.m.

Arrangements have been made by the Essex Education Committee for operative treatment for the removal of Adenoids and enlarged Tonsils at Chelmsford and Essex Hospital, Chelmsford; St. John's Hospital, Chelmsford; Essex County Hospital, Colchester; and St. Andrew's Hospital, Billericay.

(4) Fever hospital accommodation is provided for both the Borough and the Rural District by the Chelmsford Joint Hospital Board. The Hospital for ordinary infectious diseases situated in Great Baddow consists of an administrative block, a 14-bed pavilion, a 7-bed pavilion, an 18-bed asbestos pavilion, and the necessary out-houses (wash-house, laundry, disinfectant, mortuary, etc.)

(5) A Small-pox Hospital is provided by the Essex County Council. For this purpose the County Council has entered into an agreement with the Borough of Colchester for the provision of Hospital treatment, including ambulance services, for small-pox cases.

(6) A General Hospital (Voluntary) situated in the Borough of Chelmsford serves the whole of the Rural District.

There is provision provided at certain Social Welfare Institutions for unmarried mothers, illegitimate infants, and homeless children in the district, and suitable cases can be admitted to the Hostel for mothers and babies at Ardmere, Buckhurst Hill.

Registered Nursing Homes. These are administered by the Essex County Council. There are 3 in the district.

Diabetic Treatment. During the year, Insulin has been supplied free of cost to 9 diabetic persons for whom no other public provision was made. As from the "appointed day" under the National Health Service Act, 1946, the District Council will not be responsible for this free issue.

British Restaurants. During the war, the District Council inaugurated two British Restaurants—one in Great Baddow and one in Writtle. These are still functioning and, during the last twelve months, provided the following meals:—

	Great Baddow	Writtle
Main meals supplied to the public ...	38,316	49,256
Main meals supplied to schools ...	69,907	37,797

The schools supplied are:—Great Baddow, Galleywood, Danbury, Sandon, Chignal, Roxwell, Writtle, and Heathcote Private School, Danbury.

Ambulance Facilities. (a) For infectious diseases there is a motor ambulance which is housed at the Isolation Hospital in Great Baddow.

(b) For non-infectious and accident cases there are two modern motor ambulances, both Buick, one 30 h.p., and the other 32 h.p. These are both directly controlled by the Rural District Council and are both garaged at the Council Offices, New London Road, Chelmsford. The staff is part time. The caretaker of the Council Offices acts as driver, clerks on the Council staff act as attendants, a driver mechanic in a garage near the Offices is retained as a second driver, and a lady acts as voluntary attendant when desirable, such as maternity cases, etc. She resides opposite the Council Offices and is on the telephone. There is also an Ambulance Officer. All calls are made to the Council Offices, and day and night services are provided. Doctors, nurses and police, etc., have the telephone number and have details of the arrangements.

The amount charged for conveyance by ambulance from or to the various parishes in the Rural District is calculated at the rate of 1/6d. per road mile, the minimum charge being 7/6d. and the maximum charge £1 0s. 0d. Details for each parish were set out in the Annual Report for 1946.

The actual cost to the rates for these services amounted to £67 for the year 1946/47 and is estimated at £178 for 1947/48.

The ambulance services are authorised by Section 197 of the Public Health Act, 1936. This section is repealed by the National Health Service Act, 1946, therefore, after the appointed day relating to this Act (5th July, 1948), the Rural District Council ceases to have legal authority to continue the ambulance services. These services, from that date, will be undertaken by the County Council and no direct payment will be made by the users of the service. During the year 1st January, 1947 to 31st December, 1947, there were 478 calls answered. The mileage (outward and inward) covered by these calls totalled 7,432 miles, equal to an average of approximately 12 miles per call.

Mortuaries. There is a mortuary for infectious cases at the Isolation Hospital, Great Baddow.

Arrangements have been made with the Chelmsford General Hospital for the housing of bodies from the District and the housing of bodies removed by order of a coroner.

Obstetric Specialist and Paediatric Specialist. Services available for consultations with medical practitioners and at clinics.

Clinics and Treatment Centres. These are provided by the Essex County Council as given in the following tabular statement :—

MATERNITY AND CHILD WELFARE CENTRES.

Centre	Address	Sessions (Monthly)
Roxwell	Church Hall	2nd Thursday, 2.30 p.m.
Highwood	Iron Room	3rd Wednesday, 2.30 p.m.
Good Easter	Parish Hall	Last Thursday, 2.30 p.m.
Ford End	The Hut	Last Friday, 2.30 p.m.
Downham	Women's Institute Hall	1st Friday, 2 p.m.
Danbury	Village Hall	1st & 3rd Thursdays, 2 p.m.
Broomfield	Church Room	1st Thursday, 2 p.m. & 3rd Thursday. No Doctor.
Galleywood	Keene Memorial Hall	3rd Tuesday, 2 p.m.
Writtle	Iron Room	4th Tuesday, 2.30 p.m.
Rettendon... ..	Village Hall	3rd Wednesday, 2 p.m.
Ingatestone	Workmen's Club	2nd and 4th Fridays, 2 p.m.
Great Baddow	Parish Hall	2nd and 4th Thursdays, 2 p.m.
Little Waltham... ..	Chapel School Room	1st Tuesday, 2 p.m.
Stock	Congregational Schoolroom	3rd Thursday, 2 p.m.
Woodham Ferrers	Congregational Schoolroom	2nd Monday, 2 p.m.
Boreham	Village Hall	2nd Tuesday, 2 p.m.
Boreham Aerod'rome	Hut 16, Site 2.	1st & 3rd Mondays, 2 p.m.
Chignal Smealey... ..	Congregational Church Room	3rd Friday, 2.30 p.m.

ANTE-NATAL CLINIC.

Chelmsford and Essex Hospital, London Road, Chelmsford, Tuesdays,
2.15 p.m.

Rettendon, Village Hall, 1st Wednesday, 10 a.m.

Women's Welfare Clinic, Special Clinic, New Writtle Street, Chelmsford,
2nd and 4th Thursdays, 10 a.m.

TUBERCULOSIS DISPENSARY.

Address :

Essex County Council Hospital
Broomfield, Chelmsford.

Hours of Session :

Mondays and Wednesdays,
10—12 noon.

VENEREAL DISEASES.

Treatment is available at the Chelmsford and Essex Hospital, London
Road, Chelmsford, and at Essex County Hospital, Colchester.

MINOR AILMENT CLINIC.

Coval Lane, Chelmsford, Monday and Friday mornings.

*OPHTHALMIC CLINIC.

Coval Lane, Chelmsford, 5, Market Road, Chelmsford.

DENTAL CLINIC.

5, Market Road, Chelmsford. Coval Lane, Chelmsford.

*CHILD GUIDANCE CLINIC.

"Highfields," London Road, Chelmsford.

*SPEECH CLINIC.

5, Market Road, Chelmsford.

* Children can be seen by appointment on application to the Divisional
School Medical Officer, Coval Lane, Chelmsford.

WATER SUPPLY.

By the end of 1947, a piped water supply under pressure was available throughout the District for over 80 per cent of the houses—of these over 79 per cent had the water into or 'on to' the house.

This leaves 21 per cent of the houses in the District without a piped main water supply. Details, classified according to parish, are given in the table on page 6. 17.

If the proposed main extensions submitted to the Ministry of Health for approval are carried out, a further 4 per cent of the houses in the district will have a piped main water supply available. Details of the proposed extensions are given on pages 20, 21, 22.

The following table includes living huts on Government Airfields and Sites. It also gives effect to the transfer of properties under the County of Essex (Rural Parishes) Confirmation Order of 1946. The table does not include any new houses which may be occupied or in the course of erection but are not yet in the Valuation List.

Parish	Number of Houses and Hutments					
	Total Number of Hutments	With Water Laid on	With Communal Standpipe	With Meter Supply		
				Domestic	Domestic and Trade	Trade
Great Baddow SPA	1,509	1,465	—	19	9	36
„ „ OSPA	384	297	6	5	14	25
Little Baddow	292	281	—	10	5	6
Boreham	413	214	—	4	4	23
Broomfield	507	440	—	3	4	15
Chignal	127	65	20	—	3	6
Danbury	708	631	—	13	16	27
Good Easter	117	65	—	1	2	1
East Hanningfield	121	90	—	1	17	17
South Hanningfield...	427	315	—	4	5	38
West Hanningfield...	186	81	—	—	13	10
Ingatstone	734	599	12	32	17	41
Great Leighs	331	71	—	2	6	3
Little Leighs	65	23	—	1	1	2
Margaretting	202	139	12	3	11	24
Mashbury	42	13	—	—	2	—
Mountnassing	266	170	—	—	—	9
Pleshey	81	34	—	—	2	1
Rettendon	257	220	1	7	19	25
Roxwell	281	95	10	3	11	7
Runwell	411	344	7	2	6	11
Sandon	240	187	—	5	12	18
Springfield	124	63	2	—	3	8
Stock	345	203	8	5	13	21
Great Waltham	555	281	18	4	15	18
Little Waltham	313	181	5	2	16	12
Woodham Ferrers	648	560	19	10	30	28
Writtle SPA	787	668	—	1	18	45
Writtle OSPA	221	107	15	—	14	17
TOTALS ...	10,694	7,852	135	137	288	494
						2,282*

* A number of these properties are on the line of main but are not yet connected

Hutments included in the previous totals are:—

Boreham (Boreham Aerodrome)	...	...	...	80
Chignal (Bedells Cross)	...	...	...	3
Great Leighs (Boreham Aerodrome)	...	...	...	106
Roxwell (Roxwell Labour Camp)	...	...	...	11
(Boyton Cross Military Camp)	...	...	...	25
Little Waltham (Boreham Aerodrome)	...	...	...	50

During the year 339,231,000 gallons of water were supplied throughout the District, as shewn in the following table.

WATER CONSUMPTION (IN GALLONS) DURING 1947.

Area	Council's Waterworks	South Essex Waterworks Company	Southend Waterworks Company	Total
Great Baddow ...	—	71,016,000	—	71,016,000
Broomfield ...	2,569,000	—	—	2,569,000
Danbury ...	—	100,040,000	—	100,040,000
Ingatestone, Margaret- ting, Writtle and West Hanningfield...	—	51,121,000	—	51,121,000
Northern ...	—	90,247,000	—	90,247,000
Stock ...	—	5,668,000	—	5,668,000
Mountnessing ...	—	—	5,263,000	5,263,000
South Hanningfield ...	—	—	8,264,000	8,264,000
Woodham Ferrers ...	—	—	5,043,000	5,043,000
	2,569,000	318,092,000	18,570,000	339,231,000

From the above tabular statement it will be seen that of the water supplied by the Council, 318,092,000 gallons were purchased from the South Essex Waterworks Company.

Properties Connected to the Water Mains during 1947.

	Existing Houses	New Houses	Domestic and Trade	Trade	Existing Houses on Domestic Supply to which Meters have been inserted	Special Charges	Total
Gt. Baddow (inc. Galleywood)	—	93	—	3	2	2	46
Little Baddow	—	1	—	1	—	—	2
Boreham ...	6	11	1	2	—	—	20
Broomfield ...	2	30	—	1	—	—	33
Chignal ...	8	—	—	—	—	—	8
Danbury ...	—	8	—	2	1	—	11
Good Easter ...	4	—	—	—	—	—	4
East Hanningfield	2	4	—	2	—	—	8
Sth. Hanningfield	1	1	—	—	—	—	2
West Hanningfield	1	—	2	—	—	2	5
Ingatestone & Fryerning	5	19	2	2	1	—	29
Great Leighs	1	1	1	—	—	—	3
Little Leighs	—	—	—	—	—	—	—
Margaretting ...	2	2	—	4	1	—	9
Mashbury ...	1	—	—	—	—	—	1
Mountnessing	—	—	—	—	—	—	—
Pleshey ...	2	—	1	—	—	—	3
Rettendon ...	2	2	—	1	1	—	6
Roxwell ...	3	9	1	3	—	—	16
Runwell ...	—	4	—	—	—	—	4
Sandon ...	1	9	—	—	—	—	10
Springfield ...	—	8	—	—	—	—	8
Stock ...	3	2	—	—	—	—	5
Great Waltham	15	10	3	4	1	1	34
Little Waltham	11	8	3	2	—	—	24
Woodham Ferrers	1	6	1	4	—	—	12
Writtle ...	8	18	1	5	—	—	32
	79	192	16	36	7	5	335

PROPOSED WATER MAIN EXTENSIONS

PREPARED BY THE ENGINEER AND SURVEYOR, APPROVED BY THE DISTRICT COUNCIL, AND SUBMITTED TO THE MINISTRY OF HEALTH FOR SANCTION.

A comprehensive post-war scheme has been proposed which will bring the main water supply to a further 360 existing properties and meter supplies to a possible 76 premises. The details of the scheme are given in the following table:—

Parish	No. of Properties to be served	Length of Main (Yds.)		
		3"	4"	Total
Baddow, Great ...	32	880	3,025	3,905
Baddow, Little ...	7	—	1,323	1,323
Boreham ...	9	—	960	960
Broomfield ...	6	—	1,350	1,350
Chignal ...	22	5,844	—	5,844
Danbury ...	—*	155	—	155
Good Easter ...	15	120	2,713	2,833
Hanningfield, East ...	10	—	3,240	3,240
Hanningfield, West ...	19	—	2,083	2,083
Ingatestone ...	25	580	4,051	4,631
Leighs, Great ...	31	811	2,807	3,618
Leighs, Little ...	13	1,558	—	1,558
Margaretting ...	3	—	117	117
Pleshey ...	6	598	—	598
Rettendon ...	4	—	5,046	5,046
Roxwell ...	25	2,519	1,184	3,703
Sandon ...	2	—	680	680
Springfield ...	8	—	587	587
Stock ...	38	590	3,067	4,407†
Waltham, Great ...	115	4,723	4,350	9,073
Waltham, Little ...	6	657	—	657
Woodham Ferrers ...	10	1,487	—	1,487
Writtle ...	30	240	2,630	2,870
Total ...	436	20,762	39,213	60,725

* The short extension at Danbury is to connect two existing water mains

† The proposed extension at Stock includes 750 yards of 5" mains.

The principal grounds on which this proposed scheme has been based are :—

- (a) to link existing main supplies to include properties having a poor local supply ;
- (b) to extend mains to serve areas where local supplies are precarious ; and
- (c) to further co-ordination with the schemes of neighbouring Local Authorities.

The comprehensive post-war scheme prepared by the Engineer and Surveyor has been approved in principle by the Minister of Health excepting the following sections of the scheme which have been postponed for the time being :—

<i>Parish</i>	<i>Estimated Cost</i>	<i>Length of 4" Main in yds.</i>
Little Baddow ...	£1,350	1,323
Ingatestone ...	£1,220	1,507
Ingatestone ...	£480	657
Ingatestone ...	£1,480	1,887
Stock ...	£1,015	1,184
	£3,180	4,051

The total cost of the scheme is estimated at £44,212. The Ministry of Health is giving a grant of £20,000 towards the cost of the scheme, and the Essex County Council have provisionally agreed to contribute an annual payment equivalent to a capital grant of £14,737, which is one third of the total cost.

The Ministry did not however, authorise the carrying out at once of the entire scheme, and accordingly, the Council decided that the following extensions should form the first part of the programme. This was accepted by the Ministry who authorised the obtaining of tenders for this work. Tenders were provisionally accepted for Contracts 1, 2, 4 and 5 by the Council, but the Ministry's authorisation under Defence Regulation 56a is still awaited.

<i>Parish</i>	<i>Length of Main 3 in and 4 in.</i>	<i>Contract No.</i>	<i>Material</i>
Boreham ...	973 yards	1	Iron
Danbury ...	170 "	1	Iron
Good Easter ...	2,731 "	4	Asbestos
Great Leighs ...	2,161 "	2	Iron
Great Leighs ...	673 "	1	Asbestos
			Cement
Great Waltham ...	3,667 "	3	Iron
Ingatestone ...	550 "	5	Asbestos

A number of additional water mains extensions have been prepared by the Engineer and Surveyor and approved by the Council. These extensions will bring main supplies to 52 existing properties, and meter supplies to a possible 12 premises.

<i>Parish</i>	<i>Number of Properties to be served</i>	<i>Length of Main in Yards</i>		
		<i>4in.</i>	<i>3in.</i>	<i>Total</i>
Chignal	4	460	—	460
Danbury	1	58	—	58
Good Easter	11	2,088	494	2,582
West Hanningfield	9	—	—	—
Mashbury	5	1,179	—	1,179
Roxwell	13	2,204	—	2,204
Sandon	11	1,336	—	1,336
Stock	4	464	—	464
Great Waltham ...	6	111	—	111
TOTALS	64	7,900	494	8,394

An extensive scheme of water main renewals is proposed to replace mains that are inadequate or corroded externally or internally, and need constant repair. No new supplies will be provided under this scheme, but more satisfactory supplies will thereby be given to many parts of the District, and there will be less interruption of supplies due to mains bursting, when these mains have been renewed.

Water main extensions have been carried out for new Council Housing Schemes as follows:—

<i>Parish</i>	<i>Length of 3in. Main</i>
Little Waltham	172 yards
Roxwell	297 „
Ingatestone	95 „
Stock	274 „
TOTAL	838 yards

The District Council has certain statutory rights by which water can be procured from the mains of the Chelmsford Corporation (Chelmsford Corporation Water Act, 1923) Southend Waterworks Company (Southend Waterworks Act, 1924) and the South Essex Waterworks Company (South Essex Waterworks Act, 1928).

SOUTH ESSEX WATERWORKS COMPANY

RECENT ANALYSIS OF SAMPLES OF WATER PUMPED FROM
THE WORKS AT LANGHAM AND LAYER-DE-LA-HAYE.

(CHEMICAL RESULTS IN PARTS PER MILLION)

	Langham	Layer-de-la-Haye
Appearance	Clear and bright	Clear and bright
Colour A.P.H.A.	9	9
Turbidity, silica scale ...	Nil	Nil
Odour	Nil	Nil
Taste	Nil	Nil
Electric Conductivity 20°C.	700	470
Total solids 180°C.	467	314
Reaction P.H.	7.9	7.7
"Free Chlorine"	0.35	0.29
Chlorides as Cl.	40	39
Total Oxidised Nitrogen ...	3.2	0.55
Nitrites as N	0.002	Nil
Hardness, Permanent	92	81
" Temporary	258	121
" Total	350	202
Free Ammonia	0.11	0.13
Albuminoid Ammonia	0.09	0.22
Oxygen absorbed 4hrs. 27°C.	0.93	1.53
Metals	Nil	Nil
Colony Count per m.l. on		
Agar 1 day at 37°C.	35	6
Ditto 3 days at 20°C. ...	130	10
Presumptive coli absent in ...	100 ml.	100 ml.
Bact. Coli absent in	100 ml.	100 ml.
Cl. Welchii Present in	100 ml.	100 ml.
Absent in	10 ml	10 ml.

From the figures given it is seen that over 93% of the water supplied to consumers (by the District Council) is provided by South-Essex Waterworks Company from the two Waterworks—the Langham and Layer-de-la-Haye Works.

The water leaving the two works is examined daily (except Sunday) bacteriologically and in every instance the Bact. Coli is absent in 100 ml. The Laboratory at Langham deals with over 3,000 chemical, bacteriological, and biological examinations per year.

The difference of hardness between the water at Langham and Layer de-la-Haye is rather striking and the reduction of hardness at the latter station is mainly attributable to the prolonged storage in the Abberton Reservoir; its contents when completely filled are 5,700 million gallons. Approximately 8 million gallons are pumped daily from the Layer works, and 10 million gallons daily from the works at Langham.

(These observations were supplied by the Company).

Copy of a Recent Analysis From The Southend Waterworks Company's Mains.

	Chemical Results in parts per Million
Appearance	... Bright
Turbidity (Silica Scale)	... Nil.
Colour	... Hazen (less than 10)
Odour	... Nil.
Reaction pH	... 8.5 (faint alkaline)
Free Carbon Dioxide	... Absent.
Electric Conductivity at 20°C.	... 445.
Total Solids, dried at 180°C.	... 300.
Chlorine in Chlorides	... 45.
Alkalinity as in Calcium Carbonate	... 35.
Hardness : Total	... 130
Permanent	... 95. Non-Carbonate.
Temporary	... 35 Carbonate.
Nitrogen in Nitrates	... 4.8
Nitrogen in Nitrites	... 0.01 (approx.)
Free Ammonia	... 0.076
Albuminoid Ammonia	... 0.11
Oxygen Absorbed in 4 hrs. at 27°C.	... 0.85
Residual Chlorine	... 0.04 (at time of sampling)
Metals	... Iron 0.05
Other Metals	... Absent

BACTERIOLOGICAL RESULTS.

Number of Colonies developing on Agar per c.c. or ml. in—
 1 day at 37°C. 0
 2 days at 37°C. 0
 3 days at 20°C. 0

Presumptive Coliform

Reaction	... Present in —.	Absent from 100ml.
Bact. coli	... Present in —.	Absent from 100ml.
Cl. Welchii Reaction	... Present in —.	Absent from 100ml.

REPORT.—This sample is clear and bright in appearance apart from a negligible trace of iron. The reaction of the water is on the alkaline side of neutrality and its hardness and content of mineral and saline constituents in solution are very moderate. It is of satisfactory organic quality and of the highest standard of bacterial purity. The water is considered wholesome in character and suitable for public supply purposes.

Broomfield Waterworks.

The use of the Broomfield Pumping station was discontinued on the 16th August, 1947. At the present time, the Ministry of Health refuses to sanction the necessary repairs owing to the cost involved. The water from the Works is of excellent quality.

RIVERS AND STREAMS.

The district is drained by the Chelmer and its tributaries. Pollution from agricultural lands is bound to occur.

DRAINAGE AND SEWERAGE.

Sewers are available in the parishes of Broomfield, Great Baddow, Ingatestone, Mountnessing, Runwell, and Writtle.

The number of houses connected to the sewers at end of 1947 was :—

<i>Parish</i>	<i>Private Houses</i>	<i>Council Houses</i>	<i>Total at end of 1947</i>
Great Baddow	2	34	487
Broomfield	2	18	1,334
Ingatestone	1	12	528
Mountnessing	—	—	142
Runwell	11	—	164
Writtle	—	12	627
TOTALS	16	76	3,282

During the year, further consideration was given to the provision of major sewerage schemes, but no work has yet been put in hand.

PUBLIC CLEANSING.

Refuse Collection.

In last year's Annual Report outline plans were given of the proposed comprehensive refuse collection scheme. This scheme envisaged weekly collections in the more populous parishes, the remainder having fortnightly collections, and was based on the assumption that two new vehicles would be delivered by the 1st April, 1947, and that approximately twenty per cent of the houses in the District would be collected by a contractor.

In actual fact, the first vehicle was not delivered until August, the second one arrived in November, and between the delivery of the two the contractor terminated his contract owing to labour difficulties. To meet these changed circumstances a modified comprehensive refuse collection scheme was planned and this commenced on the 10th November. Nine hundred and fourteen houses in the parishes of Ingatestone and Fryerning and Mountnessing are collected weekly; four thousand four hundred and ten houses in the parishes of Great Baddow, Broomfield, Danbury, South Hanningfield (Ramsden Heath and Downham areas), Margaretting, Stock, Great Waltham (village area), Little Waltham (village area), Writtle (village area) and the temporary hutments at Boreham Aerodrome are collected fortnightly; four thousand one hundred and ten houses in the parishes of Little Baddow, Boreham, Chignal, Good Easter, East Hanningfield, Great Leighs, Little Leighs, Mashbury, Pleshey, Rettendon, Roxwell, Runwell, Sandon, Springfield, Great Waltham (excluding village area), Little Waltham (excluding village area) and Writtle (excluding village area) have a monthly collection. Approximately ninety per cent of the houses in the District are visited, the remainder being isolated farms, houses on totally unmade roads, or houses in positions inaccessible to the heavy collection vehicles.

The vehicles in use are one Dennis (purchased 1943) and two Shelvoke and Drewry (purchased 1947); all are of 10 cubic yard capacity. Each vehicle is manned by a driver-loader and three loaders. There is, too, a 5 cwt. Ford van (purchased 1947) which is used by the foreman in his duties of supervising the scheme and also for collecting salvage.

The difficulties of obtaining and retaining suitable and sufficient workmen are very great and it must be stressed that until permanent teams of men are built up there are bound to be disturbances in the working of the regular collection schedules.

The Council, for its part, endeavours to make working conditions as easy and as comfortable as efficiency and economy permit and the majority of householders play their part, too, by placing their bins in easily accessible positions and by putting into the bins only normal household refuse, such as ashes, dust and tins. There are, however, too many bins, especially in the residential areas of certain parishes, containing garden refuse, wet refuse and unsifted ashes. Compost for the garden and economy of fuel seem matters quite forgotten.

In order that the original comprehensive scheme may be commenced as soon as possible, the Council ordered a further 10 cubic yard Shelvoke and Drewry vehicle, but delivery of this is not expected until late in 1948.

Refuse Disposal.

The refuse continues to be disposed of by controlled dumping. The refuse dump in a disused gravel pit at Broomfield is still in use, and one attendant is employed there full-time. Dumping on Galleywood Common ceased during the year owing to the fact that all suitable depressions had been filled in and levelled. As an alternative, dumping is being carried out in a large disused gravel pit at the rear of an engineering works in Beehive Lane, Great Baddow. This dump was started at the request of the owners of the pit and works, and levelled ground is already being used as a storage area for the firm's products. Two attendants are employed full-time on this dump. No rents are being paid for the dumps in use; in fact, there is a waiting list of suitable dump sites.

Salvage.

The disorganisation of the refuse collection scheme, as mentioned above, also had repercussions on the salvage collection scheme for the old Shelvoke and Drewry 7 cubic yard vehicle (purchased 1934) normally employed solely on salvage collection had, with its team, often to be switched to refuse collection. On the commencement of the modified refuse collection scheme in November, however, this vehicle was released for whole-time salvage collection and regular fortnightly or monthly collections are arranged throughout the District. The amount of waste-paper for salvage collected during the year was approximately seventy-four tons, which is the same as that collected the previous year. Bottles and jars, bones, textiles and non-ferrous metals are also collected for salvage and good prices continue to be obtained.

The following table shows the weights of various salvable materials collected during the year and the proceeds of their sale. In some previous years, substantial profits have been made which have been used to relieve the rates, but owing to the present high cost of collection, the scheme is now only self-supporting. Many local authorities have to levy a rate for their salvage collections. The salvage vehicle is manned by two persons, and female labour is employed part-time for the sorting and baling of the paper. The paper is returned direct to the paper mills.

<i>Materials</i>	<i>Tons</i>	<i>cwts.</i>	<i>qrs.</i>	<i>lbs.</i>	<i>£</i>
Bones	9	9	1	2	132
Boots and shoes	—	6	2	—	
Glass bottles (mixed)	—	7	3	—	
Non-ferrous metals	—	2	—	—	
Textiles	3	9	3	—	548
Wastepaper	74	16	1	3	
	88	11	2	5	780

In addition to the above-mentioned materials, but included in the receipts were 2,400 sorted bottles.

General.

Extra garage accommodation at the Public Cleansing Depot was provided during the year, and further extensions are to be made to accommodate the new vehicle now on order and to give added space for salvage sorting, baling and storage.

NIGHT SOIL COLLECTION.

Night soil collection in the following parishes is carried out by a contractor.

<i>Parish</i>	<i>Approx. No. of Houses (Including Schools)</i>
Rettendon	35
Great Waltham	99
Little Waltham	69
Woodham Ferrers	56

SANITARY INSPECTION OF THE AREA.

The table prepared by the Chief Sanitary Inspector, shows the amount of inspection work performed by the Inspectors.

Slaughterhouses. These were not in general use during the year.

Knackers Yards. There is one in the District, in the parish of Great Baddow. This is a modern building erected during 1935.

Dairies and Cowsheds. These are dealt with under the heading "Inspection and Supervision of Food."

Smoke Abatement. No complaints were received during the year.

Camping Sites. During the year, thirty-three licences were in force under Section 269, of the Public Health Act, 1936. as compared with a total of twenty in force during 1946.

Many of these licences were granted to persons who would not normally reside in moveable dwellings, but owing to the acute housing shortage, have no alternative at the present time

INSPECTIONS AND PARTICULARS OF NOTICES FOR THE YEAR, 1947.

Nature of Inspection	Total Inspec- tions	Notices Out- stand- ing at end of 1946	Notices Served		Notices		
			Informal	Statutory	Complied with	Cancelled	Out-stand- ing at end of 1947
Infectious Diseases Inquiries	84	—	—	—	—	—	—
Disinfection	4	—	—	—	—	—	—
Houses Inspected and Re- corded under Housing Acts	35	—	—	—	—	—	—
Do. under Public Health Acts	4	192	124	25	110	9	222
Re-Inspections under Hous- ing Acts	117	—	—	—	—	—	—
Do. under Public Health Acts	166	—	—	—	—	—	—
Overcrowding	25	2	—	1	—	—	3
Dirty Condition of Houses ...	26	5	5	—	8	—	2
Other Nuisances	158	—	—	—	—	—	—
Re-Inspections	285	—	—	—	—	—	—
Privies and Pail Closets ...	23	28	14	—	12	2	28
Water Closets	29	32	35	6	20	1	52
Urinals	12	—	1	—	—	—	1
Drainage (All Forms)	274	107	117	21	93	15	137
Water Supply	366	92	52	12	50	2	104
Pigstyes	4	1	—	—	1	—	—
Animals improperly kept ...	—	—	—	—	—	—	—
Schools	—	—	—	—	—	—	—
Milk Shops	7	—	—	—	—	—	—
Cowsheds and Dairies	128	63	25	—	18	7	63
Bakehouses	34	1	—	—	1	—	—
Ice-Cream Premises	51	—	—	—	—	—	—
Slaughterhouses and Meat- shops	175	—	—	—	—	—	—
Knackers Yards	23	—	—	—	—	—	—
Fresh and Fried Fishshops ...	7	—	—	—	—	—	—
Factories	15	1	4	1	3	—	3
Rats, Mice and Insect Pests	75	9	12	—	12	2	7
Tents, Vans, Sheds	75	1	—	—	1	—	—
Public Cleansing :—							
Ash Bins	74	51	33	—	12	—	72
Refuse Dumps	153	—	—	—	—	—	—
Shops Act	4	—	2	—	—	—	—
Smoke Nuisances	—	—	—	—	—	—	—
Food Storage and Preparing Premises	—	—	—	—	—	—	2
Control of Civil Building ...	316	—	—	—	—	—	—
Miscellaneous	632	13	32	—	35	1	9
TOTAL	3381	598	456	66	376	39	705

In addition to the above-mentioned visits, the routes to be covered by the refuse collection vehicles in connection with the collection of some ten thousand houses under the comprehensive refuse collection scheme were surveyed, and just prior to the commencement of the modified scheme, the drivers were taken over the scheduled routes.

The following tables provide statistics of work done as a result of the service of Informal and/or Statutory Notices :—

	1945	1946	1947
Adequate ventilation provided to rooms	—	1	—
Ashbins provided	38	9	3
Brick footings repaired	—	2	—
Brick walls repaired or roughcast ...	9	19	26
Chimney flues altered	—	—	—
Chimney stacks repaired or re-pointed ...	1	12	13
Ceiling plasters, repaired or renewed ...	13	12	50
Coppers repaired or provided	5	4	9
Cupboards repaired	—	2	2
Damp-proof courses repaired	—	—	—
Dampness remedied other than by d.p.c.	8	10	32
Dirty or verminous houses cleansed ...	5	5	9
Door furniture provided	—	—	3
Doors repaired or renewed	3	4	18
Eavesgutters and downspouts repaired or renewed	4	11	24
External wall plaster repaired or renewed	8	13	7
Fireplaces, Stoves, repaired or renewed...	12	18	45
Floors repaired or re-laid	13	29	51
Foodstores provided or repaired	1	7	7
Handrails provided to staircases	1	7	6
Internal wall plaster repaired or renewed	17	12	63
Internal walls repaired	—	1	18
Lighting of rooms	—	1	6
Outbuildings repaired	—	1	—
Roofs repaired or renewed	32	23	44
Sinks provided or repaired	1	8	10
Sink waste pipes provided or renewed ...	2	13	14
Staircases provided or repaired	—	—	7
Washing accommodation provided	—	—	3
Washhouses repaired	1	5	4
Weatherboarded walls renewed or repaired	2	2	6
Window sills repaired or renewed	1	7	4
Windows or frames repaired or renewed	8	28	55
Windows re-glazed	3	3	19
Yards or paths repaired or paved	—	6	6
Miscellaneous repairs	7	18	43
Cesspools abolished	15	—	—
Cesspool covers renewed	—	1	2
Cesspool pumps repaired	—	1	—
Cesspools cleansed	4	6	2

	1945	1946	1947
Cesspools provided	—	—	—
Choked drains cleansed	13	8	7
Drainage systems altered or repaired ...	7	4	8
Drainage cut off from ditches, watercourses, etc.	10	8	22
Foul ditches cleansed	2	4	6
Foul ponds cleansed	—	1	—
Houses connected to the sewer	15	2	4
Inspection covers repaired or renewed ...	—	2	3
Inspection chambers repaired	—	2	—
Pail closets converted to water closets ...	—	3	2
Overflows from cesspools abolished ...	—	3	24
Pail closet structures repaired or renewed	1	5	5
Privies converted to pail closets	—	—	1
Pails provided to closets	2	1	1
Urinals repaired or provided	—	1	—
Ventilation pipes repaired	—	2	2
Water closets cleansed	—	—	2
Water closet floors repaired	—	—	—
Water closet drain repaired	—	—	—
Water closet flushing apparatus repaired or renewed (provided 1, repaired 4) ...	5	5	10
Water closet pedestals provided	5	2	2
Water closet structures repaired or renewed	2	1	2
Yard gullies, channels, provided or repaired	—	1	3
Hot water boilers repaired or renewed ...	1	1	2
Main water supply provided to houses ...	22	24	27
Pumps repaired	2	—	1
Water pipes, taps repaired	4	2	4
Water tanks cleansed	—	—	—
Water tank covers provided	—	—	—
Wells cleansed, repaired or improved ...	1	—	2
Water supplies improved	3	1	1
Water butts provided	—	6	3
Approaches to cowsheds or dairies improved	3	—	4
Buildings converted to Cowsheds	—	1	1
Cesspools provided	—	—	—
Choked drains cleansed	—	—	—
Cowsheds cleansed	—	—	2
Cowshed floors repaired	2	1	2
Cowsheds reconstructed	—	3	—
Cowshed roofs repaired	—	—	—
Cowshed walls rendered or repaired ...	9	6	12

	1945	1946	1947
Dairies cleansed	—	—	—
Dairies sealed off from cowsheds ...	—	—	—
Dairies provided	1	2	1
Dairies repaired or improved	4	—	—
Dairy entrances repaired	—	—	—
Dairy floors repaired	2	—	5
Dairy lighting improved	—	—	1
Dairy roofs repaired	—	—	1
Dairy walls rendered or repaired... ..	5	1	13
Drainage to cowshed or dairy improved	4	2	3
Improvements to water supply	1	—	—
Lighting to cowshed or dairy improved	5	3	4
Manure accumulations removed	7	4	5
Dairy equipment provided, cleansed or repaired	3	1	7
Milking stools cleansed	—	1	4
Stall divisions provided or repaired ...	—	—	8
Other improvements to cowsheds or dairies	16	5	15
Ventilation to cowsheds or dairies ...	1	—	—
Water supply provided to cowsheds or dairies	1	—	3
Miscellaneous work done	13	8	33

SWIMMING BATHS AND POOLS.

There are two privately owned swimming pools within the District which are open to the public.

Swimming Pool, The Chase, Ingatestone. This swimming pool is owned by The Chase, Ltd.

Sanitary accommodation is provided for both sexes.

May-Phill Roadhouse, Battlesbridge. The swimming pool adjoins the Roadhouse which is situated about 250 yards from the Chelmsford—Southend Road on the bank of the River Crouch.

The size of the pool is 175ft. by 45ft. 6ins., with a depth varying from 3ft. to 8ft. 6ins. and its capacity is 312,000 gallons.

Sanitary accommodation is provided for both sexes.

The pool was not in use during the year.

HOUSING.

At the end of 1947 the District Council owned 1,103 houses. The numbers for each parish are given on page 37. The District Council estimated that a minimum of 1,043 new houses would be required during the first five years after the war, and that, circumstances permitting, 227 of these would be erected during the first year. Owing to the acute shortage of building labour and materials the number of houses scheduled to be erected during the first year was severely curtailed and in 1946 only 12 new permanent houses were completed and occupied, although various contracts were let and building construction was well in hand.

During 1947, a further 52 new houses were erected, whilst 174 houses were in the course of erection at December, 1947.

Ninety Temporary Bungalows have been allotted to the District, all of which have been completed and occupied. These Temporary Bungalows are provided by the Government and the District Council is responsible for their maintenance.

In 1946, a number of hutments on Government sites in the District were acquired, and after extensive alterations, a total of 247 huts were adapted for living accommodation and were occupied. In 1947, a further 32 huts were adapted for this purpose.

Since the commencement of the post-war housing programme in 1946, a total of 433 dwellings have been provided, details of which are shown in the table on page 38.

POST WAR HOUSING PROGRAMME

PARISH	Number of Houses	Sites acquired	Sites to be acquired	
	Five Year Programme	Acreage	Acreage	No. of Houses erected and in the course of construction at 31.12.47
Great Baddow (excluding Galleywood)	100	10.6	11.6	22
Galleywood	44	5.5	—	24
Little Baddow	14	0.5	2.0	4
Boreham	44	7.8	—	8
Broomfield	44	1.8	3.7	28
Chignall	18	3.7	—	—
Danbury	38	—	9.3	8
Good Easter	20	3.2	2.0	—
East Hanningfield	30	1.1	3.9	6
South Hanningfield	36	1.7	1.8	—
West Hanningfield	34	—	5.6	8
Ingatestone and Fryerning	56	4.0	6.6	22
Great Leighs	30	—	6.8	—
Little Leighs	10	—	1.6	—
Margaretting	18	3.0	—	—
Mashbury	6	—	1.0	—
Mountnessing	14	—	3.4	—
Pleshey	14	4.0	2.3	—
Rettendon	46	—	35.0	—
Roxwell	24	17.2	1.5	8
Runwell	78	—	10.0	12
Sandon	10	1.25	—	8
Springfield	18	—	5.0	26
Stock	48	—	9.1	—
Great Waltham	100	2.0	14.3	14
Little Waltham	33	1.5	6.4	8
Woodham Ferrers	46	7.75	—	4
Writtle (excluding Highwood)	48	6.0	—	28
Highwood	22	—	3.6	—
TOTALS	1043	82.7 79.4	144.5 147.8	238

Council Houses.

PARISH	HOUSES ERECTED UNDER						Total
	The Housing Act, 1890	The State-aided Scheme charges being a General Rate limited to 1d. Rate	The Housing Financial Provisions) Act, 1924	The Housing Act, 1925	The Housing Act, 1930	The Housing Act, 1936 /46	
	1	2	3	4	5	6	
Baddow, Great (s.p.a.)	—	51	57	—	—	109	217
Baddow, Great (o.s.p.a.)	—	12	16	—	—	13	57
Baddow, Little ...	6	—	8	—	—	12	26
Boreham ...	—	—	46	—	6	18	70
Broomfield ...	—	—	40	—	6	9	55
Chignal ...	—	—	8	—	—	—	8
Danbury ...	6	25	4	—	—	—	35
Good Easter ...	—	6	—	—	—	6	12
Hanningfield, East	—	—	12	—	—	8	20
Hanningfield, South	6	—	—	—	—	—	6
Hanningfield, West	—	—	4	—	—	4	8
Ingatestone and Fryerning ...	2†	30	32	—	2	44	110
Leighs, Great ...	—	—	10	—	—	—	10
Leighs, Little ...	—	—	6	—	—	—	6
Margaretting ...	—	6	—	—	—	12	18
Mashbury ...	—	—	—	—	—	—	—
Mountnessing ...	—	8	—	—	—	28	36
Pleshey ...	—	—	4	—	—	—	4
Rettendon... ..	—	—	12	—	—	—	12
Roxwell ...	—	—	12	—	—	14	26
Runwell ...	—	—	14	—	—	—	14
Sandon ...	4	4	6	—	—	10	24
Springfield ...	—	—	—	—	—	12	12
Stock ...	—	—	10	4	—	—	14
Waltham, Great Village area) ...	—	—	20	—	—	2	22
Waltham, Great (Ford End) ...	—	—	12	—	—	4	16
Waltham, Little ...	—	—	6	—	—	—	6
Woodham Ferrers...	—	4	24	—	—	20	48
Writtle (s.p.a.) ...	—	16	103	31‡	11	28	189
Writtle (o.s.p.a.) ...	—	—	12	—	—	10	22
TOTALS ...	24	162	478	51	25	363‡	1103

† Ingatestone Waterworks Cottages.

‡ Including 12 Cottages the cost of which was borne by the Housing Estates Repairs Fund.

* Includes 6 cottages purchased by the Council:—

1 in Great Baddow (s.p.a.).

3 in Galleywood.

2 in Ford End; and

10 Agricultural Cottages:—

West Hanningfield 4.

Writtle 4.

Ford End 2.

TABLE SHOWING THE NUMBER OF HOUSES ERECTED, IN THE COURSE OF ERECTION AND HUTS ACQUIRED FOR LIVING ACCOMMODATION BY THE RURAL DISTRICT COUNCIL DURING 1946 AND 1947

PARISH	Permanent Council Houses				Temporary Bungalows Completed and Occupied		Government Huts Acquired and Adapted		Private Houses	
	Completed and Occupied during		In the Course of Erection at		1946	1947	1946	1947	1946	1947
	1946	1947	Dec. 1946	Dec. 1947						
Great Baddow (S.P.A.)	4	14	14	4	30	—	—	—	46	8
Great Baddow (S.P.A.)	—	8	20	16	—	—	—	—	5	4
Little Baddow	—	4	4	—	—	—	—	—	1	3
Boreham	—	—	—	8	—	—	80	—	1	1
Broomfield	—	4	14	24	—	20	—	—	—	—
Chignal	—	—	—	—	—	—	3	—	—	1
Danbury	—	—	—	8	—	—	1	—	2	1
Good Easter	—	—	—	—	—	—	—	—	—	—
East Hanningfield	—	2	—	4	—	—	—	—	—	—
South Hanningfield	—	—	—	8	—	—	—	—	10	6
West Hanningfield	—	—	—	—	—	—	—	—	1	—
Ingatstone & Fryerning	—	12	12	10	20	—	106	—	3	1
Great Leighs	—	—	—	—	—	—	—	—	—	—
Little Leighs	—	—	—	—	—	—	—	—	—	—
Margaretting	—	—	—	—	—	—	—	—	12	4
Mashbury	—	—	—	—	—	—	—	—	—	—
Mountnassing	—	—	—	—	—	—	—	—	1	—
Pleshey	—	—	—	—	—	—	—	—	1	—
Rettendon	—	—	—	—	—	—	—	—	3	3
Roxwell	—	—	—	8	—	—	11	32	—	—
Runwell	—	—	—	12	—	—	—	—	7	6
Sandon	—	—	—	8	—	—	—	—	6	4
Springfield	—	—	—	26	—	—	—	—	—	—
Stock	—	—	—	—	—	—	—	—	3	2
Great Waltham	—	2	—	12	—	—	—	—	1	—
Little Waltham	—	—	—	8	—	—	46	—	1	—
Woodham Ferrers	—	2	—	2	—	—	—	—	1	—
Writtle (S.P.A.)	8	4	4	16	20	—	—	—	4	4
Writtle (O.S.P.A.)	—	—	—	—	—	—	—	—	9	—
TOTALS	12	52	68	174	70	20	247	32	117	48

TABLE SHEWING POPULATION AND NUMBER OF HOUSES AT CENSUS 1931, ESTIMATED POPULATION 1947 AND THE NUMBER OF HOUSES AT THE END OF DECEMBER, 1947

PARISH	Area in statute acres (land and inland water)	Census, 1931		Estimated Population at end of 1947	Number of Houses at end of 1947
		Population	Houses		
Baddow, Great	3805	3652	962	6446	*1893
Baddow, Little	2755	751	198	992	292
Boreham	3802	1078	269	1404	413
Broomfield	1851	1310	433	1723	507
Chignal	2303	350	104	431	127
Danbury	3495	1807	475	2407	708
Good Easter	1988	403	103	397	117
Hanningfield, East	2519	500	117	411	121
Hanningfield, South	4946	1071	72	1451	427
Hanningfield, West	3105	521	135	632	186
Ingatestone & Fryerning	4133	2352	620	2495	734
Leighs, Great	3197	728	194	1125	331
Leighs, Little	1079	158	52	221	65
Margaretting	2284	638	162	686	202
Mashbury	898	143	41	142	42
Mountnessing	2793	749	438	904	266
Pleshey	732	272	75	275	81
Rettendon	3652	794	200	873	257
Roxwell	4782	774	194	955	281
Runwell	2070	678	190	1397	411
Sandon	2377	618	150	816	240
Springfield	1827	388	116	421	124
Stock	3474	976	185	1173	345
Waltham, Great	7010	1941	542	1887	555
Waltham, Little	2586	720	190	1064	313
Woodham Ferrers	4753	1353	391	2203	648
Writtle	8374	3111	831	3427	†1008
TOTALS	86590	27836	7439	37358	10694

* In Great Baddow s.p.a. 1503. † In Writtle s.p.a. 780.

Hutments taken over by the R.D.C. and included in the above total are :—

Boreham (Boreham Aerodrome)	80
Chignal (Bedells Cross)	3
Great Leighs (Boreham Aerodrome)	106
Roxwell (Boyton Cross Military Camp)	25
(Roxwell Labour Camp)	11
Little Waltham (Boreham Aerodrome)	50
TOTAL	275

The following tabular statement gives details of the housing work carried out during the year.

1. *Inspection of Dwelling Houses during the year :—*

(1) (a) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	209
(b) Number of Inspections made for the purpose	744
(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925	39
(b) Number of Inspections made for the purpose	52
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	8
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reasonably fit for human habitation	200

2. *Remedy of Defects during the year without Service of Formal Notices :—*

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers	63
--	----

3. *Action under Statutory Powers during the year :—*
Proceedings under Public Health Acts.

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	25
(2) Number of dwelling-houses in which defects were remedied after service of formal notices :—	
By Owners	41
—Proceedings under Sections 11 and 13 of the Housing Act, 1936.	
(1) Number of dwelling-houses in respect of which Demolition Orders were made	13
(2) Number of dwelling-houses demolished in pursuance of Demolition Orders :—	
By Owners	1

Clearance area No. 9: 1-3 Sowman's Cottages, Galleywood. These three cottages were demolished during the year.

INSPECTION AND SUPERVISION OF FOOD

Milk Supply.

There are 223 registered cowsheds and dairies in the District in which milk is produced for sale, a large proportion of which are licensed for the production of Designated Milks by the Essex County Council. In addition, there are 21 dairies used by persons who retail milk purchased from other producers, and 20 persons who are registered to retail milk within the district, with premises outside the district. These premises have been regularly inspected and details of works which have been carried out as a result of requests from your Chief Sanitary Inspector's Department in order to improve such premises are shown in the tables on pages 31 and 34.

27 licences were granted under the Milk (Special Designations) Regulations 1936/46.

Meat and Other Foods.

All animals are at present slaughtered in slaughterhouses outside the District. Meat exposed for sale or deposited for manufacture in premises within the district is regularly inspected.

The following were condemned as unfit for human consumption :—

15 tins of Apple Jelly, 3 tins of Apricots, 1 tin of Bacon, 75 lbs. Bacon, 36 tins of Baked Beans, 1 packet of Barley Pudding Mixture, 1 tin of Beetroot, 2 tins of Beef Loaf, 9½ lbs. of Butter, 2 tins of Carrots, 7¾ lbs. of Cheese, 11 tins of Cod Liver Roe Paste, 3 tins of Condensed Milk, 149 6 lb. tins of Corned Beef, 1 tin of Crawfish, 1 tin of Damsons, 1 tin of Dried Egg, 449 tins of Evaporated Milk, 3 tins of Fish Spread, 2 tins of Fruit Salad, 2 tins of Grapefruit, 1 tin of Household Milk, 1 tin of Irish Stew, 40 tins of Jam, 7 jars of Jam, 9 jars of Lemon Curd, 1 tin of Mackerel, 1 lb. of Macaroni, 1 tin of Macedoine, 4 tins of Marmalade, 3 jars of Marmalade, 1,259 lbs. of Meat, 3 tins of Meat and Vegetables, 3 tins of Meat Lunch, 4 tins of Meat Roll, 5 tins of Minced Beef Loaf, 2 tins of Party Loaf, 26 tins of Peas, 8 tins of Pilchards, 56 tins of Plums, 1 tin of Pork Luncheon Meat, 1 tin of Pork Sausage Meat, 12 tins of Pork Sausages, 1 tin of Pork Brawn, 1 tin of Potted Meat, 5 lbs. Prunes, 1 tin of Rhubarb, 56 lbs. of Raisins, 4 tins of Rock Cod, 11 tins of Salmon, 3 tins of Sardines, 1 packet of Semolina Pudding, 7 tins of Silver Hake, 7 tins of Soup, 11 tins of Spaghetti, 5 tins of Steak and Kidney, 23 tins of Stewed Steak, 1 jar of Sweets, 1 tin of Tomatoes, 2 tins of Ulster Broth, 1 tin of Veal Meat.

TOWN PLANNING

By agreement, several Local Authorities in the Mid-Essex area, including Chelmsford Rural District Council, delegated their powers in connection with the preparation of Town Planning Schemes to the Mid-Essex Regional Planning Committee, and the agreement came into force on 1st April, 1933.

PREVALENCE AND CONTROL OVER INFECTIOUS DISEASES

Infectious Diseases Generally

There were 222 cases of infectious diseases (exclusive of Tuberculosis) notified during the year as compared with 297 for the previous year.

There was no major outbreak of notifiable infectious diseases during the year.

Apart from cases of measles and whooping cough, there were 42 cases of infectious diseases notified compared with 71 in the previous year. Further details of the incidence of notifiable infectious diseases classified according to age and locality is given in the tables on pages 43 and 45.

During the year, a number of cases of suspected Infantile Paralysis came under observation, three of these being diagnosed as suffering from the disease. No deaths were reported from the disease.

A number of persons who may have been in contact with smallpox or cholera came into the District but fortunately no case occurred.

TABLE SHOWING LOCAL DISTRIBUTION OF CASES
NOTIFIED DURING THE YEAR.

PARISH	Cerebro-Spinal Meningitis	Erysipelas	Infective Hepatitis	M asles	Pneumonia	Anterior Polio-myelitis	Polio- Encephalitis	Scarlet Fever	Whooping Cough	Pulmonary Tuberculosis	Other Forms of Tuberculosis	Totals
Great Baddow	1	2	1	17	1	1	1	2	3	5	2	32
Little Baddow	1	1	1	9	1	1	1	1	7	2	1	9
Boreham	1	1	1	41	1	1	1	3	1	3	1	54
Broomfield	1	1	1	2	1	1	1	1	1	1	1	9
Chignal	1	1	2	16	1	1	1	1	1	1	1	17
Danbury	1	1	1	24	1	1	1	1	1	1	1	29
Good Easter	1	1	1	1	1	1	1	1	1	1	1	11
East Hanningfield	1	1	1	9	1	1	1	1	1	1	1	15
South Hanningfield	1	1	1	11	1	1	1	1	1	1	1	1
West Hanningfield	1	1	1	3	1	1	1	1	1	1	1	3
Ingatstone & Fryerning	1	1	1	2	1	1	1	1	1	1	1	3
Great Leighs	1	1	1	1	1	1	1	1	1	1	1	1
Little Leighs	1	1	1	1	1	1	1	1	1	1	1	1
Margaretting	1	1	1	3	1	1	1	1	1	1	1	1
Mashbury	1	1	1	2	1	1	1	1	1	1	1	1
Mountnessing	1	1	1	1	1	1	1	1	1	1	1	1
Pleshey	1	1	1	1	1	1	1	1	1	1	1	1
Rettendon	1	1	1	1	1	1	1	1	1	1	1	1
Roxwell	1	1	1	1	1	1	1	1	1	1	1	1
Runwell	1	1	1	1	1	1	1	1	1	1	1	1
Sandon	1	1	1	1	1	1	1	1	1	1	1	1
Springfield	1	1	1	1	1	1	1	1	1	1	1	1
Stock	1	1	1	1	1	1	1	1	1	1	1	1
Great Waltham	1	1	1	1	1	1	1	1	1	1	1	1
Little Waltham	1	1	1	1	1	1	1	1	1	1	1	1
Woodham Ferrers	1	1	2	8	1	1	1	1	1	1	1	16
Writtle	1	1	1	8	1	1	1	6	2	2	1	17
TOTALS	2	3	7	157	5	3	1	21	23	20	10	252

The immunisation of children against diphtheria was continued during the year. The prophylactic used throughout was A.P.T.

The percentage of children immunised at the end of 1947 based on the estimated population of the Registrar-General was :

Aged 1 to 14	...	...	...	...	65%
Aged under 5	...	...	...	...	38%
Aged 5 to 14	...	...	...	...	83%

In addition 2,108 who are now over 15 years of age had been immunised but are excluded from the percentage calculations.

The immunisation is continuing and it is hoped that parents will take more advantage of the facilities provided for protecting their children against such a serious disease as Diphtheria.

It is satisfactory to note that no case of Diphtheria occurred among children under 15 years of age.

Much assistance in connection with diphtheria immunisation was given by the Health Visitors and Teachers, but even with this co-operation it is unfortunate that the number of parents availing themselves of the service had declined slightly. Detailed particulars of the position at the end of 1947 is shown in the tables on pages 46 and 47.

Scabies. During the year cases were treated at St. John's Hospital in addition to those treated at home.

TUBERCULOSIS.

The following table gives particulars of new cases of Tuberculosis and deaths during the year.

Age Periods	*New Cases				Deaths			
	Respiratory		Non-Respiratory		Respiratory		Non-Respiratory	
	M.	F.	M.	F.	M.	F.	M.	F.
Under 1 ...	—	—	—	—	—	—	—	—
1—5 ...	—	—	—	1	—	—	—	1
5—10 ...	—	—	1	1	—	—	—	—
10—15 ...	—	1	—	—	—	—	—	—
15—20 ...	—	2	—	1	—	—	—	—
20—25 ...	2	1	—	3	2	1	—	—
25—35 ...	7	3	2	—	—	1	—	—
35—45 ...	2	—	—	—	—	1	—	—
45—55 ...	1	—	—	1	—	1	—	1
55—65 ...	1	—	—	—	1	—	—	—
65 & over ...	—	—	—	—	1	—	—	—
TOTALS ...	13	7	3	7	4	4	—	2

*Not including cases of tuberculosis removed into the district during the year, which had been previously notified elsewhere.

NOTIFIABLE DISEASES DURING THE YEAR.

Notifiable Disease	Total Cases Notified	Under 1	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	65 and over	Cases admitted to Hospital	Total Deaths
Cerebro-Spinal Meningitis...	2	—	—	1	—	—	—	—	—	1	—	—	—	2	—
Erysipelas	3	—	—	—	—	—	—	—	—	1	—	2	—	1	—
Infective Hepatitis...	7	—	—	—	—	—	1	—	—	4	1	1	—	—	—
Measles	157	9	11	11	16	15	72	10	6	3	4	—	—	12	—
Pneumonia	5	—	—	—	—	—	—	—	1	1	2	1	—	—	—
Polio-myelitis (Anterior) ...	3	—	—	1	—	—	—	1	1	—	—	—	—	3	—
Polio-Encephalitis	1	—	—	—	—	1	—	—	—	—	—	—	—	1	—
Scarlet Fever	21	—	1	—	1	3	6	5	3	2	—	—	—	10	—
Whooping Cough	23	3	3	—	3	1	11	1	—	—	1	—	—	1	—
TOTALS	222	12	15	13	20	20	90	17	11	12	8	4	—	30	—

Diphtheria immunisation in relation to child population.

	Number of children who had completed a full course of immunisation at any time up to 31st Dec., 1947.						
	Under 1 1947	1 1946	2 1945	3 1944	4 1943	5 to 9 1938-1942	10-14 1933-1937
Age at 31.12.47 i.e. Born in year ...							Total Under 15
Number immunised ...	18	253	295	314	311	1,868	5,078
Number of births during year ...		693	586	670	584	2,578	
Estimated mid-year popu- lation, 1947 ...							
Percentage of children immunised ...			3,082			4,651	65%
			38%			83%	

DIPHTHERIA NOTIFICATIONS AND DEATHS IN RELATION TO IMMUNISATION

NOTIFICATIONS			DEATHS		
Age at date of Notification	Number of Cases Notified	Number of cases included in preceding column in which the child had completed a full course of immunisation	Age at date Death	Number of Deaths	Number of cases included in preceding column in which the child had completed a full course of immunisation
Under 1	—	—	Under 1	—	—
1	—	—	1	—	—
2	—	—	2	—	—
3	—	—	3	—	—
4	—	—	4	—	—
5 to 9	—	—	5 to 9	—	—
10 to 14	—	—	10 to 14	—	—
Totals	Nil	Nil	Totals	Nil	Nil

ADMINISTRATION OF THE FACTORIES ACT, 1937.

1.—INSPECTIONS for the purpose of provisions as to health.
Including inspections made by Sanitary Inspectors.

Premises	Number on Register	Number of		
		Inspection	Written Notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	66	2	—	—
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority ...	138	9	1	—
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding outworkers' premises) ...	1	1	—	—
TOTAL ...	205	12	1	—

2.—CASES IN WHICH DEFECTS WERE FOUND.

Particulars	Number in which defects were found				Number of Cases in which Prosecutions were Instituted
	Found	Remedied	Referred to H.M. Inspector	by H.M. Inspector	
Want of Cleanliness (S.1.)	—	1	—	—	—
Overcrowding (S.2.) ...	—	—	—	—	—
Unreasonable Temperature (S.3) ...	—	—	—	—	—
Inadequate Ventilation (S.4.) ...	—	—	—	—	—
Ineffective Drainage of Floors (S.6.) ...	—	—	—	—	—
Sanitary Conveniences (S.7.) { Insufficient ...	2	—	—	2	—
{ Unsuitable or	—	—	—	—	—
{ Defective ...	—	—	—	—	—
{ Not separate for sexes ...	2	—	—	1	—
Other Offences against the Act (not including offences relating to outwork) ...	—	—	—	—	—
TOTAL ...	4	1	—	3	—

PETROLEUM LICENCES IN FORCE DURING 1947

Name of Licensee	Parish	Storage in Gallons
Carters (Great Baddow) Ltd. ...	Great Baddow	500
E.C.C. (Surveyor's Dept.) ...	" "	500
Jackson, W.A. ...	" "	1,800
Marven, D. & Co. ...	" "	300
Rand Bros., Ltd. ...	" "	1,000
Shipp, J. H. ...	" "	1,000
Taylor, W. L. ...	" "	500
Thomas & Evans Ltd. ...	" "	500
Waskett, W. A. ...	" "	1,000
English Timber Supply Co. (Essex) Ltd. ...	Little Baddow	500
Co-Partnership Farms Ltd. ...	Boreham	500
Graham, J. ...	"	2,000
Mouser, J. J. ...	"	500
Seabrook & Sons Ltd. ...	"	300
Day, J. ...	Broomfield	3,000
Harris, W. ...	"	300
Stubbings, C. ...	"	500
Stubbings, W. J. ...	"	300
Ashdown, F. H. ...	Danbury	1,000
Baxter, G. L. Ltd. ...	"	500
Christmas, W. T. ...	"	500
Clark, A. ...	"	250
Doe, P. ...	"	500
Hollowell, W. G. ...	"	500
Morse, M. R. ...	"	1,000
Tuker, G.E. ...	"	500
Upton, E. S. ...	"	250
Vale, G. ...	"	1,000
Wakefield, H. ...	"	300
Marriage, L. ...	Good Easter	500
Matthews, J. A. ...	"	250
Milbank, E. G. ...	"	500
Ruckert, J. E. ...	"	200
Gordon, S. ...	East Hanningfield	100
Pudney, J. B. ...	" "	500
Quatermass, R. F. ...	South Hanningfield	1,000
Watts, E. E. ...	" "	1,000
Warder, G. W. C. ...	" "	500
Gaymer, R. C. ...	Ingatestone	500
Green, T. ...	"	500
Hasler & Co. Ltd. ...	"	1,000
Hawkes, J. W. ...	"	2,200
Pudney, W. & A. ...	"	500
Westle, J. E. ...	"	1,500
Lagden, H. ...	Great Leighs	300
Sidgwick, J. E. ...	" "	400
Whitworth, J. ...	" "	400
Wright, J. S. ...	" "	250
Seabrook, W. & Sons ...	Little Leighs	300
Farrow, C. A. R. ...	Margaretting	500
Leech, N. H. ...	" "	500
Magness, J. R. & Sons, Ltd. ...	" "	500

Carried forward 35,200

Name of Licensee	Parish	Storage in Gallons
	Brought forward ...	35,200
Matthews, R. & Son	Mashbury	250
Cotton, A. J.	Mountnessing	500
Eneffer, F. C.	"	2,800
Kean, G.	"	500
King, A. & Son	"	1,500
Bevan, G. W.	Rettendon	500
Bright, W. A.	"	1,000
Broadway, F. W. G.	"	1,000
Cooper, W.	"	1,500
Smith, G. W.	"	500
Day, S.	Roxwell	1,000
Doe, Bros.	"	500
Torrance, M.	"	500
Runwell Hospital	Runwell	500
Warren, A.	"	1,000
Barr, J.	Sandon	2,500
Sandon Egg Farms Ltd.	"	500
Magness, J. R.	Springfield	300
Lyster, L. C.	"	250
Sargant, W. H.	Stock	1,500
Bartrupt, C. & Son	Great Waltham	500
Bartrupt, L.	" "	500
Cass, J.	" "	250
Readhead, H.	" "	1,300
Rogers, F. & Sons	" "	500
Rowe, J. O.	" "	200
Seabrook, E.	" "	500
Sterling Poultry Products	" "	300
Amos, E. W.	Little Waltham	400
Day, A.	" "	1,000
Smith, S. C....	" "	2,500
Eaton, S. J.	" "	2,500
Poulton, W. W.	" "	500
Cribbs, G.	Woodham Ferrers	1,500
Rush, W. A.	" "	2,000
Slater, R. H.	" "	1,500
Swan, M. G.	" "	250
Adams, W. H.	Writtle	1,000
Hodge, J.	"	500
Lowe Bros.	"	500
Preston, H. S. H.	"	2,500
Richardson, J. H.	"	1,000
Grand Total ...		71,000

Total number of Licences in force in 1944	...	54
" " " " " " " 1945	...	87
" " " " " " " 1946	...	85
" " " " " " " 1947	...	98
Total Storage for 1944	...	40,000
" " " 1945	...	59,500
" " " 1946	...	65,250
" " " 1947	...	71,000





