

[Report 1940] / Medical Officer of Health, East Hertfordshire Combined Districts (Hertford Borough, Hoddesdon U.D.C., Bishop's Stortford U.D.C., Ware U.D.C., Sawbridgeworth U.D.C., Ware R.D.C., Braughing R.D.C., Hertford R.D.C.).

Contributors

East Hertfordshire Combined Districts.

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EAST HERTFORDSHIRE COMBINED DISTRICTS.

Hertford (M.B.)	Sawbridgeworth (U.D.)
Hoddesdon (U.D.)	Ware (R.D.)
Bishop's Stortford (U.D.)	Braughing (R.D.)
Ware (U.D.)	Hertford (R.D.)

ANNUAL REPORT

OF THE

MEDICAL OFFICER

(Alan D. Whitelaw, M.A., M.D., D.P.H.)

1940.



Sanitary Inspectors :

JOHN BARNISH* - - - (The Castle) Hertford (M.B.)

WM. NOEL DAVID* - - (Council Offices) Hoddesdon (U.D.)

JOHN LORD*	-	-	-	}	(The Council House)
NORMAN F. CRIPPS* (since 1st Sept.)					Bishop's Stortford (U.D.)

CHAS. J. LUCAS* - - - (The Priory) Ware (U.D.)

KENNETH STEEN† - (Council Offices) Sawbridgeworth (U.D.)

LAURENCE J. DALE*† - - (97, New Road) Ware (R.D.)

E. E. WATERIDGE† - - (Bridgefoot House, Buntingford)
Braughing (R.D.)

W. D. WAINE*† - - (2, The Wash) Hertford (R.D.)

*Certificated Meat Inspector (Sanitary Inspectors' Examination Board).

†Also District Council Surveyor.

Preface

The following Report on the Health of the Combined Districts has been drawn up on the lines indicated in the Circular issued by the Minister of Health.

	Resident Population.	* Birth Rate.	* Death Rate.	** Infantile Mortality.
MUNICIPAL BOROUGH.				
Hertford	14,000	12	13'4	27
URBAN DISTRICTS.				
Hoddesdon	13,110	16	11'3	32
Bishop's Stortford	12,750	11'7	13	58
Ware	8,141	14	16	26
Sawbridgeworth	3,516	10	19	0
RURAL DISTRICTS.				
Ware	10,800	12'7	14'2	50
Braughing	10,220	10'2	15'8	45
Hertford	7,815	12'4	15'1	74
England and Wales		14'6	14'3	55

*Per 1,000 population.

**Per 1,000 births.

These rates have been calculated on the Registrar-Generals' estimate of the resident population in 1940.

I am indebted to the respective Sanitary Inspectors for the information on Sanitary matters generally, Housing and Food Inspection.

ALAN D. WHITELAW,
Medical Officer of Health.

THE CASTLE,
HERTFORD.

I. General Statistics.

	Area (acres)	Number of inhabited houses (end of 1940, according to the Rate Books).	Rateable Value	Sum represented by a Penny Rate.
Hertford (M.B.) ...	3,882	3,654	105,201	419
Hoddesdon ...	4,430	3,725	88,086	336
Bishop's Stortford	3,826	3,333	93,397	377
Ware (U.D.) ...	1,358	2,040	45,761	183
Sawbridgeworth ...	2,678	987	21,194	86
Ware (R.D.) ...	29,102	2,685	61,354	260
Braughing ...	45,570	2,964	43,457	189
Hertford (R.D.) ...	32,664	2,098	37,185	150

	BIRTHS			TOTAL		DEATHS	Natural Increase or Decrease.
	Legitimate	Illegitimate		M.	F.		
		Number	Per Centage				
Hertford (M.B.) ...	157	11	6'5	80	88	187	- 19
Hoddesdon ...	200	13	6'1	104	109	148	+ 65
Bishop's Stortford	136	13	8'7	76	73	166	- 17
Ware (U.D.) ...	113	3	2'6	56	60	111	+ 5
Sawbridgeworth ...	35	1	2'8	19	17	56	- 20
Ware (R.D.) ...	131	6	4'4	74	63	163	- 26
Braughing ...	100	4	3'8	50	54	133	- 29
Hertford (R.D.) ...	95	2	2'1	59	38	106	- 9

CAUSES OF DEATH.		Hertford M.B.		Hoddes- don		Bishop's Stortford		Ware U.D.		Sgworth		Ware R.D.		Braughing		Hertford R.D.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES	...	95	92	69	79	78	88	56	55	25	31	86	77	76	57	61	45
Zymotic diseases	...	0	0	1	1	1	0	0	1	0	1	0	0	1	0	0	0
Influenza	...	1	0	1	2	4	0	1	0	0	0	0	0	4	2	2	0
Tuberculosis (all forms)	...	7	3	0	4	4	0	2	2	1	1	6	1	1	1	4	2
Syphilitic diseases	...	0	0	1	0	1	0	2	0	0	0	1	0	0	0	1	0
Cancer	...	19	19	12	11	7	11	4	5	2	1	11	11	14	5	8	5
Diabetes	...	0	0	1	1	0	2	0	0	0	1	0	1	0	1	0	1
Intracranial Vasc Lesions	...	5	11	4	14	3	11	5	3	4	4	3	5	9	11	5	5
Heart disease	...	25	25	14	19	15	18	15	22	6	13	20	22	19	12	14	12
Other circulatory diseases	...	0	3	7	3	5	6	4	1	0	2	7	3	4	4	2	1
Bronchitis	...	5	2	5	1	1	4	8	8	1	0	4	7	6	5	5	0
Pneumonia	...	0	3	6	2	11	6	3	0	2	0	8	8	2	4	1	7
Other respiratory diseases	...	4	0	0	3	0	3	0	0	2	0	1	1	0	0	1	6
Ulcer of stomach or duodenum	...	2	0	2	0	2	1	0	0	0	0	3	1	0	0	0	0
Diarrhoea (under 2 years)	...	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Appendicitis	...	0	1	0	1	3	0	0	0	0	0	1	0	1	0	0	0
Other digestive diseases	...	3	3	0	2	3	6	3	0	1	0	5	2	3	1	2	2
Nephritis	...	2	2	2	0	4	1	1	1	0	0	5	2	2	1	0	0
Childbirth	...	0	1	0	0	0	1	0	1	0	0	0	2	0	0	0	0
Congenital debility, premature birth...	...	6	1	1	3	6	2	0	1	0	1	1	3	2	1	5	2
Suicide	...	0	0	1	1	0	1	1	0	0	0	0	1	0	0	0	0
Road Traffic Accidents	...	3	0	0	0	1	2	0	0	1	0	0	0	1	0	1	0
Other violent causes	...	2	4	4	2	1	5	5	4	2	5	4	2	2	2	2	1
All other causes	...	11	13	6	10	6	8	2	6	3	2	6	5	5	7	8	7

Tuberculosis.

New Cases during 1940.

			Respiratory		Non-Respiratory		TOTAL
			M.	F.	M.	F.	
Hertford (M.B.)	...	...	7	3	2	2	14
Hoddesdon	...	...	2	3	3	4	12
Bishop's Stortford	...	...	0	2	2	1	5
Ware (U.D.)	...	...	3	1	0	1	5
Sawbridgeworth	...	...	0	0	1	1	2
Ware (R.D.)	...	...	3	2	1	1	7
Braughing	...	...	3	5	0	1	9
Hertford (R.D.)	...	...	5	3	0	2	10

Number of cases remaining on the Register at the end of the year.

			Respiratory		Non-Respiratory		TOTAL
			M.	F.	M.	F.	
Hertford (M.B.)	...	...	25	8	14	4	51
Hoddesdon	...	...	24	12	18	12	66
Bishop's Stortford	...	...	17	5	28	10	60
Ware (U.D.)	...	...	19	7	11	8	45
Sawbridgeworth	...	...	4	2	2	1	9
Ware (R.D.)	...	...	13	10	7	8	38
Braughing	...	...	14	6	8	7	35
Hertford (R.D.)	...	...	16	0	6	3	25

Borough of Hertford.

Water.

There are four separate pumping stations ; Molewood, Hartham, Port Hill and Wadesmill Road. Most of the town is supplied from the Port Hill Reservoir, which is filled from Molewood and Wadesmill Road. Bengoe, Hertingfordbury, Great Molewood and the higher parts of the town are supplied from the Bengoe Water Tower, which is filled from Hartham and Wadesmill Road. Port Hill pumping station is being kept as a stand-by.

Drainage and Sewerage.

The method of disposal of the sewerage of the town is by the presedimented activated sludge process, and the resulting effluent is ultimately discharged into the River Lee.

During the year, 12 houses in Hertingfordbury have been converted to the water carriage system and connected to the sewer.

There is a weekly collection, in covered freighters, of refuse which is disposed of by controlled tipping on Hartham.

Particulars of Sanitary Inspector's work during the year.

Inspection of District.

<i>Total number of Inspections</i>	-	-	-	-	1,149
Dwelling-houses inspected	-	-	-	-	106
(Public Health and Housing Act, 1936)					
Re-inspections and Visits	-	-	-	-	155
General Inspections	-	-	-	-	222
Interviews	-	-	-	-	105
Visits re cases of Infectious Disease	-	-	-	-	24
Miscellaneous	-	-	-	-	46

Registered and Licensed Premises, Inspections.

Factories	-	-	-	-	-	6
Bakehouses	-	-	-	-	-	14
Cowsheds	-	-	-	-	-	21
Dairies	-	-	-	-	-	29
Slaughter-houses	-	-	-	-	-	309
Shops and Food Premises	-	-	-	-	-	84
Ice-cream Premises	-	-	-	-	-	10
Common Lodging Houses	-	-	-	-	-	18
Complaints received and investigated	-	-	-	-	-	28

Notices Served.

Informal notices-	-	-	-	-	-	21
Statutory notices	-	-	-	-	-	1
Improvements carried out	-	-	-	-	-	82
Movable Dwellings removed	-	-	-	-	-	2

*Housing.**Houses 273 and 275, Hertingfordbury Road.*

These two houses scheduled for procedure under the Housing Act, 1936, were demolished voluntarily in October, 1940.

House 12, Millers Yard, Castle Street.

This house represented in 1933 as being unfit for human habitation became subject to an undertaking by the Owner under Section 19, sub-section (2) of the Housing Act, 1930. Various works of repair and renovation have been carried out and the house may now be regarded as being reasonably fit for habitation as a temporary war-time dwelling.

*Inspection and Supervision of Food.**Milk Supply.*

Number of Cowkeepers on Register	-	-	-	9
Number of Retail Purveyors of milk within the Borough	-	-	-	10
Number of Retail Purveyors of milk outside the Borough	-	-	-	7
Number of inspections of Cowsheds	-	-	-	21
Number of inspections of Dairies	-	-	-	29

During the year these registered premises have been kept under observation and a number of minor contraventions have been remedied.

Food and Drugs Act, 1938. Section 14.

Registration of premises used in connection with the manufacture or sale of ice-cream, or preserved food, etc.

Ice-cream premises. Category (a). Number on Register 8.

"For the sale of ice-cream or the storage of ice-cream intended for sale."

Ice-cream premises. Category (b). Number on Register 4.

"The sale or the manufacture for the purpose of sale, of ice-cream, or the storage of ice-cream intended for sale."

Food Premises. Number on Register 15.

"The preparation or manufacture of sausages or potted, pressed, pickled or preserved food."

During the year three applications for registration were refused on account of unsuitability of the premises. The premises were subsequently registered after improvements had been carried out.

*Meat Distribution Depot, Bell Lane, Hertford. South Eastern.
W.M.S.W. Ltd.*

With regard to these premises taken over in June, 1940, it was found necessary to require the provision of washing facilities for the staff, and the provision of additional ventilation to the food store.

Slaughterhouses and Meat Inspection.

The Livestock (Restriction on Slaughtering Order) 1940.

From January to October, 1940, the Ministry of Food established centralisation of slaughtering at two slaughterhouses within the Borough. This centralisation of slaughter of food animals involved additional duties of a very exacting character.

The use of the slaughterhouses was discontinued at the end of October on account of unsuitability of the premises.

The following is a statistical statement of procedure during the year.

Number of visits to the slaughterhouses - - - 309

Carcases inspected and condemned.

	Cattle excluding cows	Cows.	Calves.	Sheep and Lambs.	Pigs.
Number Inspected ...	263	121	276	1936	220
<i>All diseases except Tuberculosis.</i>					
Whole carcasses condemned			2	11	12
Carcases of which some part or organs was condemned	12	11	1	2	7
Percentage of the number inspected affected with disease other than T.B.	4.52	9.09	1.14	.67	8.63
<i>Amount condemned.</i>	235 lbs.	485 lbs.	80 lbs.	467 lbs.	1585 lbs.
<i>Tuberculosis only.</i>					
Whole carcasses condemned	1	10			
Carcases of which some part or organs was condemned	6	12			
Percentage of the number inspected affected with Tuberculosis.	2.66	18.1			
<i>Amount condemned.</i>	587 lbs.	7526 lbs.			
Total weight of meat condemned	-	-	-	-	8833 lbs.
Total weight of veal condemned	-	-	-	-	80 lbs.
Total weight of mutton and lamb condemned	-	-	-	-	476 lbs.
Total weight of pork condemned	-	-	-	-	1585 lbs.
<i>Other Food.</i>					
Fish	-	-	-	-	168 lbs.
Bacon and Ham	-	-	-	-	99 lbs.
Butter	-	-	-	-	56 lbs.

Notifiable Diseases, 1940.

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria*	7			4	1	1		7	0
Scarlet Fever†	17	1	3	7		4		16	0
Enteric Fever	1					1		1	0
Puerperal Pyrexia	0								
Pneumonia	3		1				2	1	3
Ophthalmia Neonatorum	0								
Erysipelas	7			2	1	2	1	6	0
Dysentery	0								
Cerebro-spinal Meningitis	1		1					1	0
Acute Polio-myelitis	0								
Measles	5	1		3		1		1	0
Whooping Cough	3	1	1	1				0	0

*Kingsmead School. Isolation Hospital 2.

†County Hospital 1. Isolation Hospital 2. Bengo (G). 4.

Diphtheria Immunisation.

Altogether 171 children were immunised during the year.

(58 under 5 years and 113 over 5 years).

	January	February	March	April	May	June	July	August	September	October	November	December
Diphtheria ...	2		1			1			2			1
Scarlet Fever ...	2	1		3	2	3	1	2	2	1		
Enteric Fever ...										1		
Pneumonia ...		1							1			1
Measles ...	3*											2
Whooping Cough ...											3	

*Kingsmead School.

Hoddesdon Urban District.

(Particulars supplied by the Council's Surveyor & Engineer, Mr. Plumptre)

Water Supply.

It was ascertained, by a continuous pumping test which lasted for 14 days and nights, that the new well completed at the Middlefield Road Waterworks, would yield an average hourly supply of 30,000 gallons of water, equivalent to approximately three quarter of a million gallons for 24 hours. It is estimated that this yield would be sufficient for the needs of a population of 27,000, based on the daily consumption per person of 25 gallons. The previous supply of water from these works was about 300,000 gallons per 24 hours.

In the original scheme to improve Hoddesdon's Water supply it had been considered that a 24 inch borehole, reaching to a depth of 450 ft., would yield a sufficient supply for the whole District. The yield was not as satisfactory as anticipated, however, and the boring operations revealed that at 450 ft. the supply did not exceed that of 150 ft. It was, therefore, decided to sink a well, 8 ft. in diameter, to a depth of 150 ft. and to drive adits at various depths where water-bearing strata had been discovered; the deepest adit, at 135 ft., to be connected to the previous borehole and existing well. This scheme has been carried out, with the satisfactory results as shown above, and will provide water for the whole of the District with the exception of the area under the control of the Metropolitan Water Board, which extends approximately from the Cemetery northwards.

During the underground disturbance, due to boring operations, it was necessary to maintain the Town's supply and the water had, therefore, to be filtered and chlorinated.

Upon commencing the borehole it was necessary to lay a line of 12 inch cast-iron pipes from the Waterworks to the Wollens Brook in Essex Road, a distance of 700 yards, in order to convey the waste water from the test pumping.

1,325 tons of chalk, etc., have been removed from the site, which displacement gives a storage capacity of 114,550 gallons of water. The standing water level is 28 ft.

The number of gallons pumped to waste during operations is calculated to be 10,578,500. This does not include the millions of gallons pumped to waste while dewatering the shaft in order to drive the adits.

A reinforced concrete Reservoir of some 200,000 gallons capacity has been constructed at Hertford Road, near the site of the existing reservoir, at which position a boosting plant is installed to pump the supply to an elevated reinforced concrete water tower having a capacity of 50,000 gallons on high ground at Goose Green.

An independent rising main discharges the water pumped from Middlefield Road to the reservoir and the line of pipes from the reservoir extends through Hoddesdon High Street to the pumping station at Cozens Lane, Broxbourne, where a further boosting plant has been installed to pump the water to the existing reservoir, 100,000 gallons capacity, at Coldhall to supply the higher reaches in the Broxbourne and Wormley area.

The water storage above ground in the reservoirs and water tower is half a million gallons.

Hoddesdon Waterworks.

Hourly yield 36,000/hour dropping to 30,000 at end of 15 hours which is maintained at this figure, and thus gives a daily yield of 780,000.

The Chlorine Panel is controlled by a Solenoid which is Synchronised with gallons per hour output. Normal dosage is .25 parts/million and can be stopped up to 1 parts/million. Cylinders changed every 12 weeks.

Booster Stations.

Hoddesdon. 6,500 gallons/hour boosting to Tower and higher levels. Water drawn from Reservoirs.

Broxbourne. 5,000 gallons/hour boosting to Broxbourne Reservoir and supply high levels. Water drawn from supply main from Hoddesdon.

Thirteen houses were connected to the Main Supply during the year.

Drainage and Sewerage.

12 more houses have been connected to the Ware Road sewer and their cesspools abolished. The remainder of the district (except for houses in undeveloped and low-lying parts of the area) is sewered. Sewage disposal works consisting of detritus, settling tanks, contact beds, and percolating filters serve the old urban area. Sewage from Broxbourne and Wormley is disposed of by broad irrigation at the sewage farm.

Refuse Collection and Disposal.

Weekly collection from practically the whole of the district by low-loading—dustless type—S.D. freighter. Refuse is disposed of in the refuse destructor and by controlled tipping.

Particulars of The Sanitary Inspector's Work during the Year.

Dwelling-houses inspected under the Public Health and Housing Acts	163
Housing, re-inspections, works in progress and Interviews with Owners and Builders...	496
Visits in connection with Infectious Diseases	62
Inspections—Cowsheds	37
Inspections—Dairies and Milkshops	51
Visits to slaughterhouses in connection with meat inspection ...	22
Butchers Shops	34
Inspections of Bakehouses	16
Visits to other premises where food is prepared and or exposed for sale	32
Market Inspections	28
Visits to School premises	4
Refuse Tip Inspections	6
Investigation of complaints other than Housing	26
Factories	21
Camping Grounds and Caravans... ..	4
Miscellaneous Inspections	91
TOTAL INSPECTIONS	1,093
Complaints received	79
Number of letters sent	228
Number of Informal Notices served	64
Number of Statutory Notices served	0

The following defects were remedied :—

Drainage and Sanitary Arrangements.

Drain tests carried out	41
Drains provided, improved, relaid or repaired	22
Drains cleared	24
Improvements to Soil Pipes, Vent Shafts, Inspection Chambers, etc	32
New W.C.'s provided	12
Urinals provided	1
W.C.'s repaired	13

Housing.

Housing and Public Health Acts.

No Statutory action, under the above Acts, was taken during the year.

Boxwood Cottage, Woollens Brook.

Extensive improvements were effected to this dwelling-house. The building had been left untenanted for some time owing to dampness and other insanitary conditions.

The external walls were underpinned and damp-proof courses inserted; defective walls and ceilings were repaired. W.C. accommodation was provided in lieu of pail closet and the drainage reconstructed.

Number of Sanitary Defects remedied and improvements effected during the year 240

Housing Act 1936—Overcrowding.

Owing to the influx of persons into the district and the frequent changes of address no reliable data on the evidence of overcrowding in the district is available.

Close liaison is kept with the Council's Billeting Officer in an endeavour to prevent premises becoming overcrowded.

Eradication of Bed Bugs.

Three houses were found to be infested. Disinfestation was carried out in a similar manner to that outlined in previous reports.

Inspection and Supervision of food.

Milk Supply.

Number of registered producers	...	...	...	...	8
Number of retail purveyors of milk	...	...	...	...	18
Number of retail purveyors of milk by rounds from premises outside the district	...	...	...	...	7

Five of the cowkeepers in this district are licensed Accredited producers.

The cowsheds and dairies have been frequently inspected, a total of 88 visits having been made.

One cowshed which had been out of use for a good many years was modernised. Ventilation and lighting were improved. New

concrete Standings, channels, and adequate drainage provided. An adjoining building converted into a dairy and washing room, and an electric sterilizing cabinet was installed.

Milk (Special Designation) Order, 1936 and 1938.

Retailers' licences in respect of Tuberculin Tested Milk	...	5
Supplementary retailers' licences in respect of Accredited Milk		1
Supplementary retailers' licences in respect of Pasteurised Milk		1

Thirteen samples of milk were submitted for Bacteriological examination during the year, made up as follows:—

Tuberculin Tested Milk		2
Pasteurised		3
Undesignated		8

One of the Tuberculin Tested samples failed to pass the Methylene Blue Test, the other was satisfactory, both samples were from producers outside the district. Six of the ungraded milk samples satisfied the Methylene Blue Test and two failed to do so. In seven of the samples Bacilli Coli was reported as being present. Four of these samples were produced outside the district.

The three samples of pasteurised milk taken at short intervals whilst conforming to the required standard were reported to have Bacillus Coli present. This milk is bottled by a very large concern with a model plant, situated in the area of another authority who were informed of these reports. After investigation it was found that Bacillus Coli was established as resulting from post-pasteurisation processes. The trouble was eventually eliminated.

All unsatisfactory reports are followed up with inspections of the premises and every effort is made to locate the cause and eliminate it.

Inspection of Meat and other Foods.

Slaughterhouses.

No. of Slaughterhouses		4
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After January 15th, 1940, in accordance with the Livestock (Restriction on Slaughtering Order, 1940) the slaughterhouses in this district ceased to be used, all animals being dealt with at Ware and Waltham Abbey. 22 Visits were made during the year.

Nine beasts and thirty four pigs were examined, and the following diseased conditions found :—

1 Pig's Carcase and Offal,	80 lbs.,	Acute Fever.
2 Pig's Mesenteries,	4 lbs.,	Tuberculosis.

These were surrendered and destroyed.

The following unsound food was condemned on retailer's premises and destroyed :—

1 Pig's Carcase and Offal	90lbs.	Generalised Tuberculosis.
2 Hindquarters Beef (Imported)	140lbs.	Bone Taint.
1 Side Streaky Bacon	10lbs. 6ozs.	Unwholesome.
1 Tinned Gammon	14lbs. 5ozs.	"Blown" Decomposition.
1 Box Codfish	98lbs.	Was found to be decomposed when received by rail and was surrendered and destroyed

Inspection of Factories.

21 visits and inspections were made.

As a result of informal action, antiquated sanitary arrangements at one factory were replaced by modern conveniences and a sewage disposal plant installed.

Notifiable Diseases, 1940.

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	43		4	32	3	4		43	0
Scarlet Fever	23		6	11	4	2		22	0
Enteric Fever	0								
Puerperal Pyrexia	0								
Pneumonia	17			2	1	11	3	2	8
Ophthalmia Neonatorum	0								
Erysipelas	1					1			0
Dysentery	0								
Cerebro-spinal Meningitis	1	1						1	1
Acute Polio-myelitis	0								
Measles	16		7	7	1				0
Whooping Cough	7	2	4	1					0

Incidence of Diphtheria.

	January	February	March	April	May	June	July	August	September	October	November	December
Broxbourne -					1							
Hoddesdon -	4								2	2	3	3
Rye Park -		1							2	7	13	2
Wormley -	1					1						

Diphtheria Immunisation.

Under 5 years 48 children, 5—15 years 204 children.

Bishop's Stortford.

Water.

There is a piped supply for most of the Urban District from the pumping station near the western boundary.

Drainage and Sewerage.

There is a public sewerage system for the town. The sewage gravitates to tanks at the sewage farm in the parish of Hallingbury (Dunmow Rural District), where it is screened and then pumped on to the high level. After chlorination it is treated by broad irrigation, with final treatment through longitudinal gravel filters before the effluent passes into the River Stort.

Public Cleansing.

Household and trade refuse is collected by motor lorry and in horse-drawn covered dust carts, and disposed of by tipping on land adjoining the Castle grounds.

Swimming Bath.

The public open-air swimming bath adjoins the Council House. Purification is effected by filtration (8-hourly turnover) and the administration of chlorine and ammonia to the water.

Particulars of the Sanitary Inspector's work during the year.

Investigations into cases of infectious disease necessitated many visits during the year and unfortunately due to the abnormal influx of persons into the district I am unable to issue any reliable figures upon the state of overcrowding in dwelling houses.

Inspection of District.

Total number of Inspections	-	-	-	-	1,669
Dwelling houses inspected for Housing Defects (under Public Health and Housing Acts)	-	-	-	-	119
Houses and premises re-inspected including works in progress	-	-	-	-	226
Special and miscellaneous visits	-	-	-	-	164
Interviews with owners, etc.	-	-	-	-	62
Visits to premises where infectious disease occurred	-	-	-	-	100
„ „ slaughterhouses	-	-	-	-	405
„ „ dairies, cowsheds and milkshops	-	-	-	-	65
„ „ bakehouses	-	-	-	-	16

Visits to other premises where food is prepared and exposed for sale	-	-	-	-	-	131
„ „ markets	-	-	-	-	-	33
„ „ schools	-	-	-	-	-	12
„ „ power factories	-	-	-	-	-	21
„ „ non-power factories	-	-	-	-	-	5
„ under Shops Acts	-	-	-	-	-	18
„ „ Petroleum Acts	-	-	-	-	-	27
„ „ Building Byelaws	-	-	-	-	-	184
„ to Rat infested premises	-	-	-	-	-	81
Complaints received	-	-	-	-	-	83
Complaints investigated	-	-	-	-	-	69
Complaints where no action necessary	-	-	-	-	-	14
Matters referred to others Departments or Authorities	-	-	-	-	-	23
Milk samples submitted for examination	-	-	-	-	-	10
Water samples submitted for examination	-	-	-	-	-	3
Sections of new drains tested	-	-	-	-	-	42
Premises disinfected following infectious disease	-	-	-	-	-	94
Dwelling houses demolished as a result of informal action (Barge Dock House, Southmill Road)	-	-	-	-	-	1

Notices Served.

Informal notices (a) dwelling houses	-	-	-	-	-	76
(b) special premises	-	-	-	-	-	27
Statutory notices under Section 93 of the Public Health Act, 1936	-	-	-	-	-	1
Statutory notices under Section 9 of the Housing Act, 1936	-	-	-	-	-	1
						105

Results of Notices Served.

Informal notices complied with (a) dwelling houses	-	-	-	-	-	69
(b) special premises	-	-	-	-	-	25
Statutory notices complied with by owners following informal notices	-	-	-	-	-	2
Informal notices outstanding at 31st December, 1940:						
(a) dwelling houses	-	-	-	-	-	5
(b) special premises	-	-	-	-	-	2

Summary of Sanitary Improvements Effected.

Drainage systems repaired, reconstructed, etc.	-	-	27
Water closets repaired, etc.	-	-	24
Sinks provided and waste pipes repaired or renewed	-	-	8
Dustbins provided	-	-	9
Dampness remedied (roofs, gutters, etc.)	-	-	22
Miscellaneous repairs	-	-	33

Shops and Offices.

Suitable heating arrangements were provided at four shop premises during the year.

Eradication of Bed Bugs.

Disinfestation of three houses was accomplished by the tenants concerned with Zaldecide issued by the Department.

*Inspection and Supervision of Food.**Milk Supply.*

There are now seventeen persons on the register as follows :—

Producer/Retailers of Milk	-	-	6
Retail Purveyors of Milk residing in the District	-	-	3
Retail Purveyors of Milk residing outside the District	-	-	8

All the Dairies, Cowsheds and Milkshops were visited at irregular periods during the year, minor improvements were carried out at two farms and advice given in two instances to new unskilled labour at producers premises following the receipt of unsatisfactory report on the bacteriological examination of the milk supply.

Three samples of accredited milk and seven samples of ungraded milk was submitted for examination and all were satisfactory with the exception of the two ungraded samples before referred to.

One sample of milk was submitted to the biological test for Tuberculosis and a negative result obtained.

Meat and other Foods.

Frequent visits were made to the shops, restaurants, etc., where food is prepared or exposed for sale and improvements were carried out to seventeen premises as a result of informal action.

Early in January, the slaughtering of animals for human consumption by private persons was discontinued and the Ministry of Food became the responsible body for the supply and distribution of meat taking over one of the four licensed premises in the district. Supplying the needs of this district together with those of Braughing and Sawbridgeworth this slaughterhouse was found in its existing condition to be very unsatisfactory for the inspection of carcasses and the hygienic production of food and it was only after considerable pressure had been placed on the responsible authorities that some of the many necessary improvements were carried out.

Practically all animals were inspected after slaughter and to facilitate the distribution of the meat a considerable amount of time was spent at the slaughterhouse outside normal hours, particularly during the latter four months of the year when daily slaughtering was in progress and the throughput of the premises much increased.

From the following tables it will be seen that the percentage of the condemnations was considerably higher than in previous years. This rise was due to the fact that old and worn out animals formerly transported to more populous districts were being slaughtered for local consumption, also a number of cows were brought to the slaughterhouse under the provisions of the Tuberculosis Order, 1938. The quality of meat generally distributed in the district was however of a fairly high standard.

Carcases Inspected and Condemned.

	Cattle excluding Cows.	Cows	Calves	Sheep and Lambs	Pigs
Number Inspected	830	216	333	4042	1570
<i>All diseases except Tuberculosis.</i>					
Whole carcasses condemned ...	—	2	3	11	13
Carcases of which some part or organ was condemned ...	83	30	2	29	35
Percentage of the number inspect- ed affected with disease other than Tuberculosis ...	10.0	14.8	1.5	0.98	3.1
<i>Tuberculosis only.</i>					
Whole carcasses condemned ...	1	21	—	—	5
Carcases of which some part or organ was condemned ...	77	55	1	—	83
Percentage of the number inspect- ed affected with Tuberculosis	9.4	35.1	0.3	—	5.6

**Details of Diseased Conditions found in Affected Animals
and Action Taken.**

Disease or Defect.	No.		Whole carcasses diseased	Part carcasses diseased	No.	Whole carcasses diseased	Part Carcasses diseased	No.	Whole carcasses diseased	Part carcasses diseased	No.	Whole carcasses diseased	Part carcasses diseased
	Cattle excluding Cows	Cows only			Calves			Sheep & Lambs			Pigs		
Abscess	14	3	—	17	—	—	—	—	—	—	1	—	1
Actinomy- cosis	1	1	—	2	—	—	—	—	—	—	—	—	—
Anginoma	—	9	—	9	—	—	—	—	—	—	—	—	—
Asphyxia	—	—	—	—	—	—	—	1	1	—	1	1	—
Cirrhosis	3	1	—	4	—	—	—	—	—	—	12	—	12
Cyst	—	6	—	6	—	—	—	11	—	11	—	—	—
Distomatosis	57	6	—	63	—	—	—	11	—	11	—	—	—
Enemy Action	1	—	—	1	1	—	1	—	—	—	—	—	—
Emaciation	—	—	—	—	—	—	—	3	3	—	—	—	—
Fevered	—	1	1	—	1	1	—	2	2	—	5	5	—
Injury	7	3	—	10	1	—	1	2	—	3	5	1	4
Immaturity	—	—	—	—	1	1	—	—	—	—	—	—	—
Joint Ill	—	—	—	—	1	1	—	—	—	—	—	—	—
Nephritis	—	—	—	—	—	—	—	—	—	—	3	—	3
Pleurisy	—	1	—	1	—	—	—	4	—	4	13	—	13
Pneumonia	—	—	—	—	—	—	—	—	—	—	4	2	2
Pyæmia	—	—	—	—	—	—	—	1	1	—	—	—	—
Septicaemia	—	1	1	—	—	—	—	4	4	—	—	—	—
Swine Erysipelas	—	—	—	—	—	—	—	—	—	—	4	4	—
Tuberculosis	78	76	22	132	1	—	1	—	—	—	88	5	83
TOTALS	161	108	24	245	6	3	3	40	11	29	136	18	118

**Number of Organs found Affected with Tuberculosis
and Other Conditions in Different Classes of Animals.**

ORGANS.	Cattle		Calves		Sheep		Pigs		TOTALS.
	Tuberculosis	Other conditions	Tuberculosis	Other conditions	Tuberculosis	Other conditions	Tuberculosis	Other conditions	
Heads	71	7	—	4	—	12	45	14	153
Lungs	117	20	1	4	—	23	39	31	235
Hearts	59	6	—	3	—	23	34	31	156
Kidneys	60	6	—	6	—	23	12	30	137
Livers	73	103	—	4	—	32	30	25	267
Spleens	31	8	—	3	—	11	7	13	73
Stomachs	30	3	—	3	—	11	7	13	67
Intestines	48	3	—	3	—	11	45	15	125
TOTALS	489	156	1	30	—	146	219	172	1213

Weight of Diseased Meat.

Description.	Tons.	Cwts.	Qrs.	lbs.
Beef	6	4	2	23
*Beef Offals	2	19	2	26
Mutton		3	1	15
*Mutton Offals		2	0	9
Pork		14	1	13
*Pork Offals		6	2	19
Veal		1	0	15
*Veal Offals			1	9
Total Weight	10	12	1	17

*Weight of stomachs and intestines not included.

In addition to the meat found unfit at the slaughterhouse and removed by the Ministry of Food the following foodstuffs, found unfit for human consumption were surrendered by the owners and subsequently destroyed or used for other purposes :—

Butter	127½ lbs.	Tinned hams	18½ lbs.
Kosher meat	33 „	Tinned tongue	6 „
Bacon	17 „	Corned beef	14 „

Notifiable Diseases, 1940.

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	4			2		2		4	1
Scarlet Fever	144		16	86	18	24		128	1
Enteric Fever	1			1				1	0
Puerperal Pyrexia	19				3	16		17	0
Pneumonia	24		3		2	6	12	11	14
Ophthalmia Neonatorum	0								
Erysipelas	10				1	8		4	0
Dysentery									
Cerebro-spinal Meningitis	2		1			1		2	0
Acute Polio-myelitis	0								
Measles	12	1	7	2		2		5	0
Whooping Cough	2		1		1			0	0

Scarlet Fever.

Haymeads 33.	B. S. Hospital 4.	Northgate 22.
St. Michaels 21.	College 3.	Hockerill 3.
Evacuees 19.	Thorley 2.	St. Joseph's 1.
Preschool children 16.		
Adults 20.		

Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
7	2	5	21	10	13	25	19	21	10	5	6

Protection against Diphtheria.

Treatment is carried out for permanent residents by the family doctor and for temporary residents by a doctor resident at Haymeads.

Number of Children Immunised.

	Residents.	Evacuees.
Age under 5 years	51	25
Age 5 years and over	181	122
TOTALS	232	147

Ware Urban District.

Water.

The supply, which is publicly owned, has always been satisfactory in quality and quantity. There are two deep wells sunk in the chalk:—

1. Upper Waterworks (136 ft.) at Musley.
2. Lower Waterworks (101 ft.) at Musley Lane.

Drainage and Sewerage.

Practically the whole district is sewered. The sewage gravitates to the pumping station at Stanstead Abbots, in the Ware Rural District.

From here it is lifted to the Sewage Farm near Rye House (131 acres) and distributed by broad irrigation.

Public Cleansing.

Refuse is collected weekly in two covered mechanical conveyances and is disposed of by controlled tipping.

Particulars of the Sanitary Inspector's work during the year.

Only six complaints were received concerning housing defects. Forty-one complaints received concerned drainage and sanitary accommodation.

Public Health Act, 1936—Sewers and Drains.

The following complaints concerning drainage were received and investigated with the results shown.

Sewers.

(1)	Unjointed pipes, joints made in cement and sand	1
(2)	Obstructions removed	10
(3)	Smoke tested, found defective	1
(4)	Smoke tested, no defect found	1

Drains.

(1)	W.C. Flushing cisterns repaired	5
(2)	W.C. pans renewed	2
(3)	Pipes relaid (part of drains)	1
(4)	New manholes provided	2
(5)	Sinks provided	2
(6)	Obstructions removed	13
(7)	Smoke tested, found defective	1

Complaints received—No nuisance 2

Other Nuisances.

(1)	Keeping of animals	No nuisance	...	6
(2)	" " "	Nuisance abated		1
(3)	Dampness	No nuisance	...	1
(4)	Dampness (Walls rendered)	Remedied	...	1
(5)	Roof repaired	...	...	1
(6)	Walls and ceiling cleansed	...	...	1
(7)	Ceiling plaster repaired	...	...	1
(8)	New kitchener provided	...	...	1
(9)	Chimney stack and parging renewed	...	...	1

Filthy or Verminous Premises and Articles.

No. of houses inspected	...	...	...	20
" " fumigated for bug eradication	...	...	...	3
" " (no vermin found)	...	...	...	16
" " bedding steam disinfected	...	...	...	
	for bug eradication			1
" " bedding and clothing steam	...	...	...	
	disinfected for scabies (evacuee)			1
" " bedding and clothing steam	...	...	...	
	disinfected for impetigo (evacuee)			1
" " military billets disinfected and	...	...	...	
	cleansed.			1
" " cleansed (following departure of	...	...	...	
	billeted persons).			1
" " bedding destroyed (following...	...	...	...	
	departure of billeted persons)			1
" " bedding steam disinfected (soiled)	...	...	...	1
No. of consignments of fur lined goggles steam	...	...	...	
disinfected for impetigo (Out worker's home).				1

Smoke Abatement.

Some difficulty was experienced with two Cochrane Boilers. Very dusty sea borne coal was largely responsible for the difficulties experienced.

Housing Act, 1936.

No statutory notices were served during the year and no house to house inspections were made.

Permission was given to evacuees to occupy houses for limited periods where undertakings not to relet the premises were operative. This action was taken in accordance with Circular 2156 from the Ministry of Health. Particulars of each are given below.

32, *Crib Street*.—Licence to occupy for a period of 3 months granted 30/10/40.

4, *The Bourne*.—Licence to occupy for a period of 6 months granted 27/11/40.

8, *Crib Street*.—Licence to occupy for a period of 6 months granted 27/11/40.

*Factories Act, 1937.**Inspection of Factories.*

	<i>Inspections.</i>	<i>Written Notices.</i>
Factories with mechanical power	... 5	1
Factories without mechanical power	... Nil.	Nil.

Defects Found.

	<i>Found.</i>	<i>Remedied.</i>
Sanitary conveniences. Unsuitable	1	1

Written notice was sent to the Factory Inspector as required by Section 128 (4) informing him that no abstract of the Act was exhibited on the factory premises at 17a, High Street, 46, High Street and 16-18, Crib Street, Ware.

Inspector and Supervisor of Food.

The supervision of food supplies has received full attention and details of this activity is given herein. Meat inspection has entailed regular early morning or evening duty.

Number of visits to Cowsheds	...	...	...	30
„ „ Dairies	...	...	...	33
„ „ Bakehouses	...	...	...	14
„ „ Fried Fish Shops	...	...	...	4
„ „ Wet Fish Shops	...	...	...	8

Milk and Dairies.

Both producers and retailers of milk with premises in the urban district are alive to their responsibilities for safe guarding the milk supply from contamination. The cows are always well groomed and the cowsheds, dairies and utensils are kept clean.

A statutory notice was served upon the occupier of one cowshed drawing his attention to Article 25 of the Milk and Dairies Order, 1925, with reference to the construction of floors and the drainage of cowsheds.

Milk Samples.

	Plate Count.	Coliform.	Methylene Blue.
(1) 24.6.40.	Pasteurised Less than 5,000	40.01 c.c.	+4½ hrs.
(2) „	„ „	„	„
(3) „	„ „	„	„
(4) 3.7.40.	„ 108,000	+ 0.01 c.c.	+4½ hrs. ^{Ex.} Churn
(5) 3.7.40.	„ 110,000	+ 0.01 c.c.	+4½ hrs. „
(6) 3.0.40.	„ 140,000	+ 0.01 c.c.	+4½ hrs. „
(7) 22.7.40.	„ 18,000	-0.001 c.c.	- „
(8) 22.7.40.	„ 45,000	+0.001 c.c.	- „
(9) 22.7.40.	„ 25,000	-0.001 c.c.	- „
(10) 24.7.40.	„ 8,000	- 0.1 c.c.	- „
(11) „	„ 7,300	- 0.1 c.c.	- „
(12) „	„ 5,500	- 0.1 c.c.	- „
(13) 15.1.40. Raw	„ -	-	-4½ hrs. „
(14) „ Accredited	„ -	-0.01 c.c.	-4½ hrs. „

The two samples of raw milk, above mentioned, were subjected to the animal inoculation test for the presence of tubercle bacillus with negative results. With regard to the pasteurised milk, the samples were taken at the pasteuriser's premises and are satisfactory with the exception of No's. 4, 5, and 6. No facilities for carrying out the phosphatase test are available at the Emergency Public Health Laboratory at Haileybury College.

Fish Shops.

The following consignments of fish were found to be unfit for human consumption :—

35 cases of kippers each 14 lbs. Net weight.

2 cases of smoked haddocks each 14 lbs. Net weight.

Food and Drugs Act, 1938—Sections 13 and 14.

The following premises have been registered in accordance with the requirements of Section 14 which governs premises used for the preparation or manufacture of sausages or potted, pressed, pickled or preserved food intended for sale. Registration implies full compliance with the statutory requirements of Section 13.

- | | | |
|-----|---|--|
| (1) | 26, Watton Road, Ware
(Skinner, Butchers' Shop). | Used for manufacture of sausages
and pickled meats. |
| (2) | 2b, East Street, Ware.
(Peerless, Butchers' Shop). | " " " " |
| (3) | 9, Amwell End, Ware.
(Halling, Butchers' Shop). | " " " " |
| (4) | High Street, Ware.
(London Central Meat Co.,). | " " " " |
| (5) | High Street, Ware.
(Enfield Highway Co-op. Soc.,). | " " " " |

Following the expression of the Committee's dissatisfaction with the conditions obtaining at the Wholesale Meat Distribution Depot in Church Street, Ware, the Ministry of Food found more suitable premises for the purpose at Hertford.

Slaughter of Animals Act, 1933.

Seven applications were received from persons who formerly slaughtered animals outside the urban area. The applicants were all fit and proper persons to hold a slaughterman's licence and the licences were granted. All the animals killed at the Central Slaughterhouse are instantaneously slaughtered, or by stunning are instantaneously rendered insensible to pain until death supervenes, and such slaughtering or stunning is effected by means of a mechanically-operated instrument.

Méat Inspection.

The number of visits made during the year were as follows :—

Central Slaughterhouse	...	...	...	319
Butchers' Shops	...	...	...	20

The amount of meat found to be unfit for human food at the Central Slaughterhouse was 13 tons, 17 cwts., 1 qr., 3 lbs., of which 10 tons., 1 cwt., 18 lbs., was cow meat and offals; *i.e.*, 72.54%. The amount of unfit meat found at butchers' shops was 28 lbs. and in addition 2,154 lbs. of beef were damaged by fire at the old slaughterhouse. Details of the unfit meat are given in Tables I and II.

On the 23rd, April, 1940, the old central slaughterhouse was practically destroyed by fire. These premises were registered on the 5th October, 1852, for slaughter of animals for human consumption. The new slaughterhouse is 40ft. long x 20ft. wide and is very well lighted and ventilated, and has impervious rendering to the walls to a height of 9ft. At the present time still further improvements are being carried out and include the addition of a large cooling room. These improvements add considerably to the hygienic conditions governing the dressing, and storing of the carcasses and offals, and also improve working conditions.

Table I.

No. slaughtered ...	787	433	320	4967	344
A. Graded at Collection Centres	767	368	317	4921	224
B. Refects	1	25	1	—	—
C. Emergency Slaughter	16	39	2	46	120
D. War Casualties	3	1	—	—	—
Total Number Inspected	787	433	320	4967	344
<i>All Diseases except Tuberculosis.</i>					
Whole carcasses condemned	2	12	3	21	2
Carcasses of which some part or organ was condemned	74	83	4	31	10
% of the number inspected affected with disease other than tuberculosis	9.65	21.94	2.19	1.04	3.48
<i>Tuberculosis only.</i>					
Whole carcasses condemned	1	16	—	—	4
Carcasses of which some part or organ was condemned	40	109	—	—	1
% of the number inspected affect with tuberculosis	5.21	28.86	—	—	1.45

TABLE II.
Particulars of Carcases and Offals Condemedned.

	Graded at Collection Centre.		Rejects.		Emergency Slaughter.		War Casualties.	
	Tuberculosis No.	Other Diseases Wt.	Tuberculosis No.	Other Diseases Wt.	Tuberculosis No.	Other Diseases Wt.	Tuberculosis No.	Other Diseases Wt.
BOVINES	22	1093	47	521				
Steers	A							
	B							
Heifers	A	12	754	20	224			
	B	1	713					
COWS	A	97	3718	69	1014			
	B	10	5971	3	2199			
Bulls	A	5	211	2	34			
	B							
Calves	A							
	B							
OVINES	A							
Ewes	A							
	B							
Sheep	A							
	B							
PORCINES	A	1	4	1	17			
Pigs	B							
TOTALS		12464	5110	2118	1181	2505	7111	566

NOTES. A—Edible offals and parts of carcasses, and the number refers to the number of animals found effected with disease.

B—Complete carcasses and edible offals, and the number refers to the number of animals found effected with disease.

OTHER CONDITIONS.

Sow pork (Abscesses).	Slaughtered in Essex	...	...	42lbs.
Beef damaged in fire from six carcasses	...	...	...	2154lbs.
Beef, frozen, bone taint	...	...	...	40lbs.

Notifiable Diseases, 1940.

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	1							1	0
Scarlet Fever	11		6			2		11	0
Enteric Fever	0								
Puerperal Pyrexia	0								
Pneumonia	2					2		2	2
Ophthalmia Neonatorum	0								
Erysipelas	0								
Dysentery	0								
Cerebro-spinal Meningitis	1	1						1	1
Acute Polio-myelitis	0								
Measles	3			2	1				0
Whooping Cough	10	1	3	6					

Diphtheria Immunisation.

22 children under 5 were treated.

206 children between 5 and 15 were treated.

Sawbridgeworth Urban District.

Water.

The town is adequately supplied by the Herts and Essex Waterworks situated in Redrick Lane. The hamlet of Spellbrook depends on a spring; the water is hand pumped from a collecting chamber in Spellbrook Lane.

Drainage and Sewerage.

The district is well sewered with the exception of Spellbrook. The sewage gravitates to works situated in the south-east. After screening, it passes through a settling tank and a dosing chamber on its way to the contact beds. The effluent enters a small stream which discharges into the River Stort.

Public Cleansing.

House refuse is collected weekly in a horse-drawn covered dust cart, and disposed of by controlled tipping near the sewage disposal works.

Diphtheria Immunisation.

A scheme for the voluntary immunisation of all children, between 5 and 14 is in operation (treatment is carried out by the family doctor): 209 children were immunised during the year.

Notifiable Diseases, 1940.

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	0								
Scarlet Fever	8		3	1	1	3		1	0
Enteric Fever	0								
Puerperal Pyrexia	1				1				0
Pneumonia	1					1			1
Ophthalmia Neonatorum	0								
Erysipelas	0								
Dysentery	0								
Cerebro-spinal Meningitis	1					1		1	1
Acute Polio-myelitis	0								
Measles	75		25	41	2	1		1	0
Whooping Cough	0								

Ware Rural District.

Water.

Most of the District has a piped water supply. The water is obtained from two boreholes, 450 feet in the chalk, at the Puckeridge Pumping Station, and distributed from a water tower at Old Hall Green. The pumps are electrically driven and all water is chlorinated before delivery.

Drainage and Sewerage.

Great Amwell and St. Magarets drain to the pumping station near the Gas Works in the former parish, which pumps the sewage through cast iron mains to the Ware U.D.C. station at Stanstead Abbots from which it is lifted to the Ware Urban District Council's sewage farm at Rye Meads for disposal.

High Cross and Wadesmill are drained to the pumping station in the latter village, from which the sewage is raised into the head of a gravitating sewer which has been laid from the Sow and Pigs Inn, Thundridge, to join the Ware U.D. sewer at the north end of Ware.

Standon and Puckeridge are drained to the pumping station in Paper Mill Lane, Standon, from which the sewage is raised to the disposal works which have been constructed south of the village. At the disposal works the sewage is treated in sedimentation tanks followed by percolating filters, and the effluent disposed of on an area of land set apart for the purpose.

Part of the village of Hertford Heath is in Great Amwell parish and is sewered to disposal works in Hertford Rural District. This small drainage scheme is controlled by the Great and Little Amwell Sewage Farm Committee.

Public Cleansing.

Cesspools are emptied free on request. Pails are emptied twice weekly from cottages not connected to a sewer. House refuse is collected weekly in a covered conveyance and disposed of by tipping at Standon and St. Margarets.

Diphtheria Immunisation.

14 children under 5 were treated during the year, and 111 children over 5 were treated during the year.

Prevalence and Control of Infectious Diseases.

*Scarlet Fever.**Measles.*

	January	February	March	April	May	June	July	August	September	October	November	December
Great Munden -								1				1
Little Munden -								1		2		
Standon -	1							1	3	1	2	1
Widford -											1	
Ware Rural -								1				1
Great Amwell -											1	13
St. Margaret's -												1
Thundridge -							1					1
Gilston -									1	1		
Stanstead Abbots									2		3	

Figures in Italic refer to Measles.

Notifiable Diseases, 1940.

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	1			1				1	0
Scarlet Fever	12		3	7	2			11	0
Enteric Fever	0								
Puerperal Pyrexia	0								
Pneumonia	4	1	1				2		4
Ophthalmia Neonatorum	0								
Erysipelas	1					1			0
Dysentery	2				2				0
Cerebro-spinal Meningitis	0								
Acute Polio-myelitis	0								
Measles	24	1	8	12	1				0
Whooping Cough	1					1		1	0

Braughing Rural District.

Water.

The northern part of the district is now supplied from 2 deep bore-holes at Chipping, from which water is pumped to a water tower at Throcking and to a reservoir at Buntingford; while the southern part of the district is supplied from Much Hadham, augmented by a supply from the Ware Rural District which is pumped to a water tower at Albury to serve the parishes of Braughing, Albury and the higher parts of Little and Much Hadham.

Drainage and Sewerage.

Buntingford sewers drain by gravitation through a 15in. outfall to sewage disposal works situated at the south end of the parish near Aspenden Bridge, where the sewage is dealt with by broad irrigation.

Cottered: The sewage flows by gravitation to sedimentation tanks and disposed of by broad irrigation at a site a little to the north of the village.

Much Hadham town is drained by a 12in. outfall sewer to disposal works situated alongside the river at the south end of the parish, and dealt with by broad irrigation.

High Wych village has sewers which drain to a small but adequate disposal works consisting of a sprinkler and bacteria beds with final treatment on land.

Braughing village has a short length of sewer running from the Axe and Compass Inn to Hill Green, where there is a small broad irrigation area for the disposal of slop water.

Buckland parish has no proper system of sewerage or sewage disposal, though a few houses in the village of Chipping are drained to a small tank on the west side of the road.

Diphtheria Immunisation.

49 children under 5 years and 278 children over 5 years were immunised during the year.

Notifiable Diseases, 1940

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	2			1	1				
Scarlet Fever	17		1	11	2	3			
Enteric Fever	0								
Puerperal Pyrexia	4					1			
Pneumonia	8			2		5	1		
Ophthalmia Neonatorum	0								
Erysipelas	3					3			
Dysentery	0								
Cerebro-spinal Meningitis	1					1			
Acute Polio-myelitis	0								
Measles	26								
Whooping Cough	11								

Hertford Rural District.

Water.

The Aston Pumping Station serves the parishes of Aston, Benington, Walkern, Watton, Stapleford, Sacombe, and part of Bengoe Rural. The water is distributed from water towers at Benington and Aston.

The new 310 feet deep boreholes at Little Berkhamstead supply the parishes of Bayford, Brickendon, Hertingfordbury and Little Berkhamstead.

The parishes of Tewin, Datchworth and Bramfield are supplied from the Welwyn R.D.C. reservoir at Burnham Green, the water being obtained in bulk from Welwyn Garden City Waterworks.

Waterford village (in Stapleford Parish) is supplied from a shallow brick well (11 feet) situated between two courses of the River Beane, and the water is pumped by a wheel actuated by the river.

The Metropolitan Water Board serves Hertford Heath (Little Amwell).

Drainage and Sewerage.

ASTON. The northern portion of the village is drained by a 9in. outfall, gravitating to sewage disposal works situated in the valley east of Aston Dene. The south-western portion of the village is drained to a pumping station near Stringer's Lane, from which the sewage is raised through a cast iron pumping main into the head of the gravitating outfall. At the disposal works the sewage is passed through sedimentation tanks, the effluent from which is irrigated on land.

STAPLEFORD. The village of Waterford is sewered to a small pumping station, from which the sewage is raised and disposed of on an area of land. TONWELL (Bengoe Rural) drains to a small irrigation area to the south of the village.

BENINGTON. A portion of the village is drained by gravitation to a small irrigation area west of Garrat's Farm.

HERTINGFORDBURY. There is a sewage disposal plant at Birch Green consisting of septic and humus tanks and filter, the effluent discharging into the stream.

LITTLE AMWELL. There is a joint scheme in conjunction with the Ware R.D.C. for Hertford Heath, which is sewered to disposal works (open tanks, filters and broad irrigation) south-west of the village.

LITTLE BERKHAMPSTEAD is drained by an outfall sewer running from the school northwards up the road and down Breach Lane to the disposal works at the north end of the lane. The sewerage passes through screening tanks into two sedimentation tanks with a total capacity of 7,500 gallons. The tank effluent is distributed to a percolating filter with a capacity of 230 cubic yards and finally distributed over land.

TEWIN. A portion of the village is sewered to an irrigation area south of the Rectory.

WALKERN. There is no proper system of sewers in the village, most of the houses having cesspools or pail closets. At the southern end of the village slop water is discharged to an old drain running southwards down the road to near Walkern Mill, and thence through the fields to the existing sewage disposal works south-west of Walkern Croft. At the disposal works the sewage passes through a small catch pit and thereafter is dealt with on the land by broad irrigation.

WATTON. The sewage from that portion of the village north of the Bull Inn is drained by gravitation to the site south of the Corn Mill, where it is dealt with on land by broad irrigation. The southern portion of the village gravitates southwards down the main road to a cesspool near the War Memorial, the overflow discharging on to land on the east side of the road.

The parishes of BAYFORD, BRAMFIELD, BRICKENDON LIBERTY, SACOMBE and the hamlet of STAPLEFORD have no systems of sewerage and sewage disposal and in each case the houses are too scattered to need it.

DATCHWORTH is another parish at present without any sewerage system.

Public Cleansing.

Cesspools are emptied on request free twice a year.

Sanitary Improvements.

W.C.'s. were substituted for pail closets at 2 houses, Datchworth, where there is insufficient land for disposal of pail contents ; also at 5 houses at Walkern and 7 at Tewin.

Housing.

8 houses were improved considerably under the Housing (Rural Workers') Act. The accommodation available was increased, dampness prevented, window areas increased ; internal water supply was provided and w.c's. were substituted for pail closets: 2 other houses were thoroughly reconditioned without grant.

Inspection and Supervision of Food.

Cowsheds, Dairies, etc.

New dairy provided at one farm ; another reconstructed ; three cowsheds reconstructed.

New borehole provided at dairy, in place of polluted well, because trouble was experienced with Designated milks. Trouble has not recurred.

Routine samples of Designated Milks in respect of which Council is Licensing Authority taken.

Food and Drugs Act, 1938.

Three premises registered for manufacture or preparation of sausages, etc. and five for sale of ice cream.

Premises on which deer are slaughtered licensed as slaughterhouse.

150 lbs. beef surrendered because of bone taint and destroyed ; also one sheep (51 lbs.) surrendered because it was unsound—sent to salvage plant.

Notifiable Diseases, 1940

	At all ages	Under 1 year	1-5 years	5-14 years	14-21 years	21-65 years	over 65 years	Admitted to Hospital	Deaths
Small-pox	0								
Diphtheria	0								
Scarlet Fever	7		3	3		1		6	0
Enteric Fever	0								
Puerperal Pyrexia	0								
Pneumonia	4	1	1			1	1		2
Ophthalmia Neonatorum	0								
Erysipelas	1		1						0
Dysentery	1			1					
Cerebro-spinal Meningitis									
Acute Polio-myelitis									
Measles	18	1	3	9		1		3	0
Whooping Cough	6		4	2					0

Cases of Scarlet Fever occurred in the following parishes:—

Datchworth 1, Walkern 1, Hertingfordbury 1, Stapleford 1,
Tewin 1, Bengoe Rural 2.

Diphtheria Immunisation.

*Children known to have been Immunised by the end of
December, 1940.*

Parish	Ordinary Resident in R.D.	Evacuees
Aston	26	
Bayford	16	
Benington	35	
Bengoe Rural	4	
Bramfield	11	
Brickendon Liberty	20	19
Datchworth	38	7
Hertingfordbury	33	
Little Amwell	2	23
Little Berkhamstead	25	
Sacombe		
Stapleford	34	18
Tewin	86	4
Walkern	35	7
Watton-at-Stone	80	
TOTALS	445	78



