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### **Contributors**

East Hertfordshire Combined Districts.

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**EAST HERTFORDSHIRE  
COMBINED DISTRICTS.**



**Annual Report**

OF THE

**MEDICAL OFFICER.**

*9/8/35*  
*[Signature]*

**1934.**



INDEX

**EAST HERTFORDSHIRE  
COMBINED DISTRICTS.**



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**Annual Report**

OF THE

**MEDICAL OFFICER.**

1934.

GEO. CREASEY & SONS, PRINTERS,  
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## PREFACE

The following Report on the health of the Combined Districts has been drawn up on the basis of the information furnished to the Ministry of Health.

The chief vital statistics for the year 1933 were:

Area	Population	Births	Deaths	Males	Females
Combined Districts	10,000	100	100	50	50

*Sanitary Inspectors—*

- JOHN BARNISH\* - - - (The Castle) Hertford (M.B.)
- WILLIAM PLUMPTON † - - (62, High St.) Hoddesdon (U.D.)
- JOHN LORD\* - (4, The Causeway) Bishop's Stortford (U.D.)
- S. BARKER\* - - - - (The Priory) Ware (U.D.)
- LAURENCE J. DALE\* † - (97, New Road) Ware (R.D.)
- J. W. RIGGS † - - - (Westmill Road, Bengoe) Hertford (R.D.)
- W. N. JARVIS † (Warwick Rd., Bishop's Stortford) Hadham (R.D.)
- ERNEST G. THODY † - - - (Church St.) Buntingford (R.D.)

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

† Also District Council Surveyor.

That part of the Report dealing with the Sanitary Inspectors of the different districts (under Article 19 of the Sanitary Officers Order, 1930).

They have also compiled the Housing Statistics.

ALAN D. WHITFIELD

Medical Officer of Health

THE CASTLE, HERTFORD

Jan. 1934

## PREFACE.

The following Report on the health of the Combined Districts has been drawn up on the lines indicated in the memorandum of the Ministry of Health.

The chief vital statistics for the year 1934 were :—

	Resident Population.	Birth Rate.	Death Rate.	Infant Mortality.
MUNICIPAL BOROUGH.				
Hertford ... ..	12,290	12·7	10·8	26
URBAN DISTRICTS.				
Bishop's Stortford ... ..	10,400	13·6	10·5	71
Hoddesdon ... ..	7,792	19·0	11·2	27
Ware ... ..	6,685	17·8	13·9	50
RURAL DISTRICTS.				
Ware ... ..	13,590	13·8	9·9	11
Hertford ... ..	7,655	11·1	10·5	35
Hadham ... ..	5,476	13·1	9·1	28
Buntingford ... ..	4,581	10·0	10·1	22
East Herts C.D. ... ..	68,469	13·9	12·3	34
England and Wales ... ..		14·8	11·8	59

These rates have been calculated on the Registrar-General's estimate of the resident population for 1934.

That part of the Report dealing with the Sanitary Inspection of the Area has been tabulated by the Sanitary Inspectors of the different districts (under Article 19 of the Sanitary Officers Order, 1926).

They have also compiled the Housing Statistics.

ALAN D. WHITELAW,  
*Medical Officer of Health.*

THE CASTLE,  
HERTFORD.

*June, 1935.*

## I. General Statistics.

	Area (acres).	Number of inhabited houses (end of 1934), ac- cording to Rate Books.	Density. (Persons per acre).	Density (Houses per acre).	Average Number of Occupants per House.	Rateable Value.  £	Sum represented by a Penny Rate.  £
Hertford (M.B.)	1,503	3,216	8·2	2·1	3·8	82,973	322
Bishop's Stortf'd	3,371	2,888	3·1	0·9	3·6	80,050	313
Hoddesdon ...	1,576	2,137	4·9	1·3	3·6	46,632	175
Ware (U.D.) ...	629	1,759	10·6	2·8	3·8	36,181	137
Ware (R.D.) ...	33,956	3,631	0·4	0·11	3·7	96,711	350
Hertford (R.D.)	33,449	2,105	0·2	0·06	3·6	38,670	141
Hadham ...	25,466	1,590	0·2	0·06	3·4	25,613	94
Buntingford ...	28,470	1,432	0·2	0·05	3·2	19,001	68

	BIRTHS.						DEATHS	Natural Increase or Decrease.
	Legit- imate.	Illegitimate.		Total.				
		Number	Per- centage.	M.	F.			
Hertford (M.B.) ...	147	9	5·8	69	87	143	+ 13	
Bishop's Stortford ...	134	7	5·0	72	69	128	+ 13	
Hoddesdon ...	143	5	3·0	74	74	92	+ 56	
Ware (U.D.) ...	116	3	2·5	62	57	109	+ 10	
Ware (R.D.) ...	183	5	2·7	95	93	157	+ 31	
Hertford (R.D.) ...	81	4	4·7	46	39	88	- 3	
Hadham ...	70	2	2·7	48	24	64	+ 8	
Buntingford ...	42	4	8·7	23	23	64	- 18	
East Herts (C.D.) ...	916	39	4·1	489	466	845	+110	





## II.—General Provision of Health Services for the Area.

### *Nursing in the Home.*

This is carried out by the Hertfordshire County Nursing Association.

### *Laboratory Facilities.*

The examination of clinical material (swabs, sputum and blood) is carried out at the County Mental Hospital Laboratory, Hill End, St. Albans.

Samples of milk and water are analysed either at St. Albans, or the Counties Public Health Laboratories, London, E.C. according to facility of transport.

### *Legislation in force.*

The Public Health Acts (Amendment) Act, 1890, has been adopted now by Hertford (M.B.), Bishop's Stortford, Hoddesdon, Ware (U.D.), Ware (R.D.), and Hadham (R.D.).

Part of the Public Health (Amendment) Act, 1907, and the Public Health Act, 1925, by Hertford (M.B.), Bishop's Stortford and Hoddesdon, and Ware (U.D. and R.D.); and The Small Dwellings Acquisition Act by Bishop's Stortford, Buntingford (R.D.), and Hertford (R.D.).

### *Housing Act, 1925.*

Regulations are in force in Hertford (M.B.) in respect of underground sleeping rooms (section 18 (1) ) and Byelaws as to Houses let in lodgings (section 6).

### *Rag Flock Acts, 1911 and 1928.*

There are no premises on which rag flock is manufactured, used or sold.

### *Hospitals (Voluntary).*

HERTFORD. County Hospital (165 beds).

BISHOP'S STORTFORD. The Hospital (61 beds).

*County Institutions (Infirmaries).*

BISHOP'S STORTFORD. Haymeads (166 beds ; 75 male, 91 female\*).

\*including 5 Maternity beds and 4 cots).

WARE. Western House (85 beds ; 42 male, 40 female\*, 3 children's).

\*including 2 Maternity beds.

*Ambulance Facilities.*

(a) For infectious cases. A motor ambulance is kept at each of the Isolation Hospitals at Hertford and Bishop's Stortford.

Tuberculosis cases travel to and from Ware Park Sanatorium in a motor ambulance belonging to the Herts County Council.

(b) A motor ambulance is provided by the County Hospital, Hertford, for general use in the district and another (the property of the St. John's Ambulance Association) is stationed at the Priory, Ware : while at Bishop's Stortford the one at the Poor Law Institution is available for the use of the public.

*Arrangement for the disinfection of infected clothing, &c.*

Disinfection of bed linen and blankets is carried out at the Isolation Hospital serving the district in which the patient lives.

*Arrangements for the disinfection of houses and schools.*

Fumigation with Formaldehyde is carried out under the supervision of the Sanitary Inspector in all districts.

## NUMBER OF PREMISES DISINFECTED DURING 1934.

Hertford (M.B.)	...	23	Ware (R.D.)	...	43
Bishop's Stortford	...	15	Hertford (R.D.)	...	11
Hoddesdon	...	42	Hadham	...	17
Ware (U.D.)	...	18	Buntingford	...	21

## Infectious Diseases.

	Small Pox	Enteric Fever	Scarlatina	Diphtheria	Puerperal Fever	Puerperal Pyrexia	Pneumonia	Erysipelas	Ophthalmia Neonatorum	Cerebro-Spinal Meningitis	Undulant Fever
Hertford (M.B.)	—	—	21	16	—	—	4 <sup>4</sup>	*3	—	—	—
B'p's Stortford	—	2	13	2	2	1	5 <sup>3</sup>	*4	1	—	—
Hoddesdon ...	—	—	34	1	1	—	§9	3	1	—	1
Ware (U.D.) ...	—	—	13	3	—	—	8 <sup>4</sup>	—	—	—	—
Ware (R.D.) ...	—	—	25	*14	—	—	14 <sup>8</sup>	—	—	—	—
Hertford (R.D.)	—	—	8	1	—	—	—	*2	—	—	—
Hadham ...	—	—	11	—	1	2	—	*3	—	—	—
Buntingford ...	—	—	11	2	—	—	*1	1	—	§2	—

\* 1 Death.

§ 2 Deaths.

No schemes for the immunisation of children against Diphtheria or Scarlet Fever were in operation in any district.

## Case Rates.

	Per 1000 population.					Per 1000 births.	
	Scarlet Fever	Diphtheria	Enteric Fever	Erysipelas	Tuberculosis	Puerperal Fever	Puerperal Pyrexia
Hertford (M.B.)...	1'71	1'31	—	0'24	0'7	—	—
B'p's Stortford ...	1'25	0'19	0'19	0'38	1'2	14'2	7'1
Hoddesdon ...	4'35	0'13	—	0'38	1'7	6'8	—
Ware (U.D.) ...	1'50	0'45	—	—	2'4	—	—
Ware (R.D.) ...	1'84	1'03	—	—	0'7	—	—
Hertford (R.D.) ...	1'05	0'13	—	0'26	0'3	—	—
Hadham ...	2'01	—	—	0'55	0'5	13'9	27'8
Buntingford ...	2'40	0'44	—	0'22	1'3	—	—
East Herts (C.D.)	1'98	0'57	0'03	0'23	1'4	4'2	3'1
England & Wales	3'76	1'70	0'03	0'51	—	4'0	9'6

## Previous Five Years.

	SCARLET FEVER.					DIPHTHERIA.				
	1929	1930	1931	1932	1933	1929	1930	1931	1932	1933
Hertford (M.B.)	5	9	18	18	27	4	—	3	11	2
B'p's Stortford	5	11	2	30	65	11	3	4	5	1
Hoddesdon ...	5	8	35	13	11	5	2	5	3	8
Ware (U.D.) ...	54	4	10	19	7	12	3	—	7	2
Ware (R.D.) ...	20	18	22	11	16	20	10	2	12	12
Hertford (R.D.)	4	7	5	6	5	3	1	—	—	2
Hadham ...	18	7	2	8	9	1	3	1	—	—
Buntingford ...	0	0	6	0	7	2	11	10	3	—
E. Herts (C.D.)	111	64	100	105	147	58	33	25	41	27

## Isolation Hospitals.

Hertford Borough, Ware and Hoddesdon Urban Districts, and the Rural Districts of Ware and Hertford are served by the Hertford & Ware Joint Hospital (52 beds) at Gallows Hill, Hertford.

Bishop's Stortford (U.D.) and Hadham (R.D.) are served by the Hadham, etc., Joint Hospital at Haymeads Lane, Bishop's Stortford (15 beds).

Buntingford (R. D.) Hospital (12 beds) was at Aspenden.

There is a Small-pox hospital at Thorley, near Bishop's Stortford.

Supplies of diphtheria anti-toxin for the use of practitioners in the district are kept at the Hertford and Bishop's Stortford Hospitals, and at Hertford Castle, Ware Priory and Hoddesdon Council Offices. At the Sanitary Inspector's Office, Buntingford, Tetanus anti-toxin is kept as well as Diphtheria anti-toxin.

## Tuberculosis.

*New Cases and Mortality during 1934.*

	NEW CASES.				TOTAL.	DEATHS.				Mortality Rate per 1,000 population.
	Respiratory. M.	Respiratory. F.	Non-Respiratory. M.	Non-Respiratory. F.		Respiratory. M.	Respiratory. F.	Non-Respiratory. M.	Non-Respiratory. F.	
Hertford (M.B.) ...	3	5	1	—	9	2	5	1	2	0·81
Bishop's Stortford	6	5	—	1	12	3	2	—	—	0·48
Hoddesdon ...	5	5	1	2	13	5	2	1	—	1·03
Ware (U.D.) ...	8	2	4	2	16	5	1	1	2	1·35
Ware (R.D.) ...	5	1	—	3	9	4	2	—	1	0·52
Hertford (R.D.) ...	2	1	—	—	3	—	1	1	—	0·26
Hadham ...	2	—	—	1	3	—	2	—	—	0·37
Buntingford ...	6	—	—	—	6	—	1	—	—	0·22
East Herts (C.D.)	37	19	6	9	71	19	16	4	5	0·64

*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	20	12	9	66
Bishop's Stortford	26	21	2	4	53
Hoddesdon ...	24	16	10	10	60
Ware (U.D.) ...	23	12	14	9	58
Ware (R.D.) ...	26	14	18	7	65
Hertford (R.D.) ...	9	9	1	7	26
Hadham ...	19	14	5	2	40
Buntingford ...	13	8	3	3	27
East Herts (C.D.)...	165	114	65	51	395

SANITARY INSPECTION OF THE AREA.

	Hertford (M.B.)	Bishop's Stortford	Hoddesdon	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Buntingford
Total number of dwelling-houses inspected	159	421	198	270	345	65	301	257
Number of dwelling-houses inspected under the Public Health Acts	87	159	103	90	90		90	90
Re-inspections and visits (including interviews with owners)	762	564	234	794	427	120	226	226
Registered and Licensed Premises inspected	215	374	86	175	48	277	59	276
Visits <i>re</i> cases of Infectious Disease	9	15	51	58	43	11	39	39
Miscellaneous inspections	90	25	16			20	43	43
Number of Letters sent	105	130	115		324		374	374
Number of Informal Notices	86	163	64	82	35	50	43	68
Number of Statutory Notices		12		38		34	19	12
Number of Prosecutions								
Complaints of nuisances received	32	108	46	132	34		19	19
Improvements carried out	312	231	252	366		66	183	183
<i>Drainage and Sanitary Arrangements:</i>								
Drains cleansed of obstructions	11	21	24	13	15	5		37
Drains provided and improved (re-laid or repaired)	39	23	10	23	12	21		11
Drains provided with traps	29							
Inspection chambers provided	11	18	1	11	4			1
Ventilation pipes repaired or provided	2		3	5	3			
Closets and urinals reconstructed, repaired, etc.	18	2	5	7	15	2	4	13
Water Closets and urinals provided	2	2	4	10			4	9
New pans and traps to water closets	18	11	2	20			4	4
Flushing cisterns replaced, supply pipes repaired	1	46	23	20	8		4	16

	Hertford (M.B.)	Bishop's Stortford	Hoddes- don	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Bunting- ford
Pail closets provided ...	...	...	...	...	17	2	2	1
Pail closets abolished ...	4	...	...	...	...	...	...	6
Nuisances abated from offensive cesspools ...	...	12	...	...	...	...	...	1
Ashpits abolished ...	...	...	...	...	...	...	...	47
Dustbins provided ...	8	31	25	34	29	...	6	...
<i>Dwelling Houses, etc.</i>								
Cleansing and re-decorating ...	17	14	10	9	21	2	...	7
Windows provided or improved ...	20	2	6	23	25	...	7	3
Walls and ceilings repaired ...	11	14	9	31	23	...	7	8
Roofs and guttering repaired ...	9	13	11	24	19	12	11	3
Chimney stacks repaired ...	...	...	...	3	...	...	...	...
Dampness remedied (damp-proof courses inserted, etc.) ...	5	6	11	11	10	9	2	4
Floors repaired, relaid or ventilated ...	18	7	3	13	15	...	2	4
Cooking ranges replaced ...	...	...	3	4	...	...	...	...
Paving repaired or re-laid ...	20	4	15	1	4	...	10	...
Sinks provided or repaired ...	36	3	10	4	11	1	7	6
Washing coppers repaired ...	...	...	...	4	...	...	...	...
Houses provided with separate taps ...	19	...	...	...	...	...	...	...
Water butts provided ...	...	...	20	2	...	...	16	12
Wells cleansed and repaired ...	4	11	1	2	5	2	1	6
Overcrowding abated ...	...	2	1	7	6	7	...	2
Van Dwellings removed ...	...	...	1	...	1	...	...	1



*Keeping of Animals, etc.*

Nuisance from animals and fowls abated ...  
 Manure bins provided ...  
 Offensive accumulations removed ...  
 Miscellaneous ...

Number of houses connected with sewers ...  
 Number of houses connected with water mains ...

	Hertford (M.B.)	Bishop's Stortford	Hoddes- don	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Bunting- ford
Nuisance from animals and fowls abated	...	4	3	3	1	1		1
Manure bins provided	3			1				
Offensive accumulations removed	6	8	11	5	7	2	6	5
Miscellaneous	15	12	20	30	28		43	8
Number of houses connected with sewers	133	105	98	28	24	34	4	11
Number of houses connected with water mains	148	102	98	28	74	56	4	6

INSPECTION OF FACTORIES, WORKSHOPS,  
AND WORKPLACES.

(*Factory & Workshop Act, 1901*).

	Hertford (M.B.)	Bishop's Stortford	Hoddesdon	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Buntingford
<i>Factories</i> (including Factory Laundries):								
Number of Inspections	5	22	18	6	24	6	3	1
„ written notices	1					1		
<i>Workshops</i> (including Workshop Laundries):								
Number of Inspections	38	16	37	4	30	35	13	37
„ written notices	1	2		1			2	2
<i>Workplaces</i> (other than outworkers' premises):								
Number of inspections	4			8	10	3	7	1
„ written notices	2			2				
Total inspections ...	47	38	53	18	64	44	23	39
„ written notices ...	4	2		3		1	2	2

## 2. DEFECTS FOUND IN FACTORIES, WORKSHOPS, AND WORKPLACES.

	Hertford (M.B.)	Bishop's Stortford	Hoddes- don	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Bunting- ford
<i>*Nuisances under the Public Health Acts :</i>								
Want of Cleanliness,								
Found ... ..		2		1	1		2	2
Remedied ... ..		2		1	1		2	2
Want of Ventilation,								
Found ... ..						1		
Remedied ... ..						1		
Overcrowding ... ..								
Want of drainage of floors ... ..		1						
Other nuisances,								
Found ... ..				5	2			
Remedied ... ..				5	2			
Sanitary accomodation insufficient,								
Found ... ..	1			1				
Remedied ... ..				1				
Do. Unsuitable or defec- tive,								
Found ... ..	2	1						
Remedied ... ..	2			1				
Do. not separate for sexes,								
Found ... ..	1							
Remedied ... ..	1							
<i>Offences under the Factory and Workshops Acts :</i>								
Illegal occupation of underground bake- house,								
Found ... ..								
Other offences referred to H.M. Inspector ...	1							
Total defects: Found	5	3		7	3	1	2	2
Remedied	3	2		8	3	1	2	2
Referred to H.M. Inspector ... ..	1							

*\*Including those specified in Sections 2, 3, 7 and 8 of the  
Factory and Workshop Act, 1901, as remediable under the Public  
Health Acts.*

## Registered Workshops.

	Hertford (M.B.)	Bishop's Stortford	Hoddesdon	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Buntingford
Bakehouses ...	10	9	9	9	6	7	6	4
Bootmakers ...	4		16	4	6			3
Dressmakers and Milliners	6		3	1	4			2
Tailors ...	2	5	3	5	1	2		2
Foundry ...				1			1	
Maltings ...	7			23	3		1	
Millers ...			3				1	
Quarries and Stonemasons	2		4				7	
Builders and Carpenters	10	7	7	7	13	5	2	8
Smiths and Wheelwrights	4	2	3	4	8	13	5	8
Engineers ...				1	6			
Saddlers ...	2		1	1	1	1		2
Brickmakers ...						3		
Laundries ...			2	1	2	1		2
Garages ...		6	5		5	6		3
Plumbers ...			9		2			
Watchmakers ...			2	3	1			1
Barbers ...			8		5			
Cycle Repairers ...	8	3	4	3	4			2
Batmakers ...			2					
Printers ...	2		2					1
Instrument Making...		1						
Sack and Bag Making		2						
Cracker Making ...		1						
Bottle Washing ...	2							
Glass Wool Making ...								1
Photography ...		1						
Suit Cleaning ...		1						
Cabinet Making ...	3	2		2				
Miscellaneous ...	5		3	5	10			

## HOUSING.

	Hertford (M.B.)	Bishop's Stortford	Hoddes- don	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Bunting- ford
1. <i>Inspection of Dwelling-houses during the year:—</i>								
(1) (a) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) ... ..	159	159	63	270	273	65	301	157
(b) Number of inspections made for the purpose ...	191	159	193	270	356	120	364	371
(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 ... ..	101			122			301	57
(b) Number of inspections made for the purpose ...	133			122			364	161
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation ... ..	5	90	17	78	17	10	1	57
(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 ... ..	51	57	61	156	152	7	19	38
2. <i>Remedy of Defects during the year without service of formal notices:—</i>								
Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers ... ..	79	53	52	142	97	8	43	18

	Hertford (M.B.)	Bishop's Stortford	Hoddesdon	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Buntingford
--	-----------------	--------------------	-----------	-------------	-------------	-----------------	--------	-------------

3. *Action under Statutory Powers during the year:*

A.—Proceedings under Sections 17, 18 and 23 of the Housing Act, 1930:

- (1) Number of dwelling-houses in respect of which notices were served requiring repairs ... .. 4
- (2) Number of dwelling-houses which were rendered fit after service of formal notices:—
  - (a) By owners ... .. 7
  - (b) By Local Authority in default of owners ... .. 32

B.—Proceedings under Public Health Acts:

- (1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied ... .. 26
- (2) Number of dwelling-houses in which defects were remedied after service of formal notices:—
  - (a) By owners ... .. 8
  - (b) By Local Authority in default of owners ... .. 14

C.—Proceedings under Sections 19 and 21 of the Housing Act, 1930:

- (1) Number of dwelling-houses in respect of which Demolition Orders were made ... .. 27
- (2) Number of dwelling-houses demolished in pursuance of Demolition Orders ... .. 10

D.—Proceedings under Section 20 of the Housing Act, 1930:

- Number of Closing Orders determined, the tenement having been rendered fit ... .. 1

### Number of Houses built during 1934.

	Hertford (M.B.)	Bishop's Stortford	Hoddesdon	Ware (U.D.)	Ware (R.D.)	Hertford (R.D.)	Hadham	Buntingford
Without State assistance (privately) ...	87	76	44	12	87	47	6	5
By Local Authority ...	42		50					
With State assistance: by Local Authority ...		26						
By other bodies or persons ...				16				
TOTAL	129	102	94	28	87	47	6	5
Number of Council Houses contemplated or in course of erection ...		38	82	94	80	44	4	78
Number of Houses dealt with under the Housing (Rural Workers') Act, 1926 ...								
Number of Council Houses ...	573	158	194	80	310	164	70	138
				204*				

\* Built by a Public Utility Society.





## BOROUGH OF HERTFORD.

*Water.*

The Town of Hertford is at present supplied from four independent sources, viz., Molewood, Hartham, Waterford and Port Hill Pumping Stations. The water is delivered from these four pumping stations into the covered Reservoir at Port Hill, which supplies the lower portions of the Town, and into the Bengeo Water Tower from which the high level area is supplied.

*Drainage and Sewerage.*

The whole town is sewered. The sewage is collected at the Sewage Farm situated within the eastern boundary of the Borough, through a 3ft. 6in. diameter brick sewer. The method of disposal is by the presedimented activated sludge process whereby the sewage passes successively through detritus, sedimentation, activated sludge and sludge digestion tanks. The effluent is ultimately discharged into the River Lea.

*Scavenging.*

This is undertaken by the Corporation, and all refuse is disposed of by controlled tipping in a disused gravel pit adjoining the Hertingfordbury Road Housing Estate.

House refuse is collected weekly in a covered conveyance.

Movable ashbins are now in general use, and only 13 covered ashpits now remain in the Borough.

*Infectious Diseases.*

Excluding outbreaks in Institutions, the monthly incidence of cases was as follows:—

*Scarlet Fever.* Isolated cases were notified in January, June, August and September, and 2 in December.

*Diphtheria.* An isolated case was notified in January and 4 cases (of whom 3 were members of the same family) occurred in April.

## Infectious Diseases.

	Small pox. Enteric Fever. Puerperal Fever.	Scarlet Fever.	Diphtheria.	Pneumonia.	Erysipelas.	Tuberculosis.	
						Res- piratory.	Non-Res- piratory.
At all ages ... ..	—	21	16	4	3	8	1
Under 1 year ... ..	—	—	—	—	1	—	—
1 to 2 years ... ..	—	—	1	1	1	—	—
2 „ 3 „ ... ..	—	1	1	—	—	—	—
3 „ 4 „ ... ..	—	2	2	—	—	—	—
4 „ 5 „ ... ..	—	3	3	—	—	—	—
5 „ 10 „ ... ..	—	6	2	—	—	—	—
10 „ 15 „ ... ..	—	7	5	1	—	—	—
15 „ 20 „ ... ..	—	1	—	—	—	—	—
20 „ 35 „ ... ..	—	—	1	1	—	3	1
35 „ 45 „ ... ..	—	1	1	1	—	2	—
45 „ 65 „ ... ..	—	—	—	—	—	2	—
65 and over ... ..	—	—	—	—	—	1	—
Admitted to Hospital ... ..	—	16	16	4	3	5	1
Treated in School Sanatorium	—	5	—	—	—	—	—
Nursed at home ... ..	—	—	—	—	—	—	—
Died ... ..	—	—	—	4	1	3	—

## PREMISES CONTROLLED BY BYELAWS OR REGULATIONS.

*Common Lodging Houses.*

The one registered Common Lodging House in the Borough affords nightly accommodation for 39 males. The number of men accommodated during the year was 8,828 ; nightly average, 24 men. No case of infectious disease was notified from the house.

*Meat and Food Inspection.*

The number of carcasses examined was Bovines, 105. Sheep and Lambs, 262. Calves, 25. Pigs, 229.

*Contraventions.*

In regard to a shop, it was found that the premises used for the preparation of sausages were unsuitable. The contravention was remedied.

In respect to another shop, the premises were found to be not kept in a clean state. This was remedied.

#### *Unsound Food.*

The amount of food found to be unfit and destroyed was:—

Carcass and Organs of one Pig. Swine Erysipelas.

Fish : 7 boxes of fish fillets, weight 56 lbs. One tin of prawns.

#### *Bacteriological Examination of Milk.*

The following samples of milk retailed in the Borough were submitted to analysis:—

Designation.		Bacterial Count per c.c.	Bacillus Coli.	Presence or absence of Tubercle Bacillus.	Standard.
Certified ...	1.	3,200	Absent in 1/10 c.c.	—	Satisfactory
	2.	2,000	„	—	„
	3.	5,300	„	—	„
Grade "A" (T.T.)	1.	5,100	Absent in 1/100 c.c.	—	Satisfactory
	2.	900	„	—	„
Ordinary	1.	210,000	Absent in 1/1000 c.c.	Absent	Clean
	2.	84,000	„	„	Grade "A"
	3.	11,000	Absent in 1 c.c.	„	Clean
	4.	29,000	Absent in 1/1000 c.c.	„	Clean
	5.	900	Absent in 1/100 c.c.	„	Grade "A"
	6.	35,000	„	„	Grade "A"

#### *Canal Boats.*

The riverside and wharves have frequently been visited for the purpose of inspecting any Registered Canal Boats using the canal within the Borough boundary.

No registered canal boat was found using the canal.

### Housing.

#### *Housing Act, 1930.*

The requirements in regard to Clearance Areas have been carried out and completed. It has not been necessary to represent any new areas for clearance.

#### *Individual Houses.*

During the year 2 houses have been represented as unfit for habitation. The Corporation have accepted an undertaking that the houses be vacated and not to be re-let for human habitation.

In regard to 7 houses to which schemes of alteration and extensive improvements had been accepted and approved by the Corporation, the requirements have been carried out.

*Nos. 35a, 35b, 35c, 35d, Buil Plain.*

These 2-room cottages have been converted into two houses with 4 rooms and provided with the necessary sanitary requirements.

*Nos. 3a, 3b, 3c, Balfour Street.*

With regard to these cottages, House 3a has been added to the adjoining premises. Nos. 3b and 3c have been converted into one house and brought up to a standard of fitness.

*No. 1, Pegs Lane.*

This cottage was subject to a Closing Order and has been included in the premises known as the Gladstone Arms. A scheme of extensive alterations approved by the Corporation has been carried out.

*Nos. 1 and 3, Water Lane.*

These two houses have been represented as unfit for habitation. The Corporation considered the representations and accepted an undertaking by the owner that the house be closed and not re-let for habitation.

During the year, 51 houses, found not to be in all respects reasonably fit for human habitation, have been improved. The defects dealt with have been dampness, provision of separate water supply, tap and sink in the houses, necessary drainage, paving of yards, and general dilapidations.

In regard to each of the houses, the improvements were carried out by the owners after informal action and schedule of requirements.

The Corporation have carried out a progressive building programme to meet the requirements of the Housing Acts. The number of houses erected during the year under the 1925 Act being 42; these are non-parlour type, 2-bedroomed houses situate at:—

Horns Mill Estate...	...	...	12 houses.
Hertingfordbury Road	...	...	30 houses.

The Housing Estates of the Corporation at present consist of the undermentioned houses, viz.:—

(a) *Camps Hill (Sele Road)*—72 houses provided under the Housing, Town Planning, etc., Act, 1919.

(b) *Stanstead Road*—134 houses, and *Bengeo*—152 houses provided under The Housing Act, 1923.

(c) *Horns Mill*—109 houses, and *Hertingfordbury Road*—109 houses. These were provided as follows:—

<i>Horns Mill</i> —Under the Housing (Financial Provisions) Act, 1924				45
Under The Housing Act, 1925				12
Under The Housing Act, 1930				52
				109

<i>Hertingfordbury Road</i> —Under the Housing (Financial Provisions) Act, 1924				56
Under The Housing Act, 1925				30
Under The Housing Act, 1930				23
				109

(d) *All Saints' Almshouses* (6), and a small number of cottages and other properties acquired by the Council for their statutory purposes.

#### RENTS OF COUNCIL HOUSES (inclusive of rates).

	No. of Houses.	4 Rooms.	5 Rooms.	6 Rooms.
<b>BENGEIO.</b>				
1923.	152	10/6 & 11/-	13/-	15/6
<b>STANSTEAD ROAD.</b>				
1923.	134	11/-	12/9	14/9 & 15/-
<b>CAMPS HILL.</b>				
1919.	72	—	12/- & 12/6	15/3
<b>HORNS MILL.</b>				
1930.	52	7/3	8/6	—
1925.	12	8/9	—	—
1924.	45	9/-	10/6	—
<b>HERTINGFORDBURY ROAD.</b>				
1930.	23	7/2	8/6	—
1925.	30	8/9	—	—
1924.	56	—	10/6	—
Total No. of Houses	573			

## Bishop's Stortford Urban District.

### *Water.*

Nearly all of the houses obtain their supply from the Town service. The pumping station is situated on high ground outside the town, near the western boundary of the district; the well is 164 feet deep and goes 40 feet into the chalk.

### *Drainage and Sewerage.*

There is a public sewerage system for the whole district.

The sewage farm is on the Hallingbury Road in the Stansted Rural District (Essex). The sewage is carried  $1\frac{1}{2}$  miles by gravitation to tanks where it is screened, than pumped up on to the high level. Here it is treated by broad irrigation through trenches, the effluent finally passing into the river Stort.

There are now very few pail closets or privies in the district.

### *Scavenging.*

Household and trade refuse is collected in the horse drawn covered dust carts, and tipped on land adjoining the Castle Gardens.

### *Meat and Food Inspection.*

Total carcasses inspected—Bovine ...	...	177
"      "      "      "      "      "      "      "	Sheep and Lambs	800
"      "      "      "      "      "      "      "	Pigs	404
		<u>1381</u>

The following were found to be unfit for food, and destroyed :—

- 2 whole carcasses of veal and organs.
- 1 whole carcase of pork and organs.
- 11 bullocks' livers (cirrhosed).
- 5 pigs' plucks (pneumonia).
- 1 side of bacon unsound.
- 174 lbs. of lamb       "
- 18     "      beef       "
- 30     "      pork       "
- 104    "      fish       "

*Infectious Diseases.*

The epidemic of scarlet fever which broke out in the town the previous May ended in February. With the exception of two isolated cases in April no further notifications were received during the year. Two adults were isolated at home; all others were admitted to the Isolation Hospital. Two cases of typhoid fever were notified—schoolboys who contracted the infection in Italy during the Easter holidays.

Chicken pox was prevalent during the first quarter, and cases were reported from the schools as follows:—

Hockerill Practising (Infants)	...	...	...	12
„ „ (Girls)	...	...	...	11
St. Michael's „ (Infants)	...	...	...	11
„ „ (Girls)	...	...	...	5
Northgate 4; St. Joseph's 3.				

*Housing Act, 1930.*

The following groups of houses were declared to be Clearance Areas:—

London Road, 107-131 (odd numbers only)—Duck Row.

South Street, 114-124 (even numbers only)—Mount Pleasant.

New Path, 1-13 (odd numbers only).

Basbow Lane, 9, 11, 21, 23, 25, 27 and 29.

South Street, 48-62 (even numbers only)—Perry's Yard.

A site was acquired in London Road for the erection of 38 houses for the purpose of rehousing persons to be displaced from these Clearance Areas:—

6 four bedroomed houses.

14 three „ „

18 two „ „

38

---

Demolition Orders were made in respect of Nos. 3 and 5, Dane Street, and were duly carried out.

An undertaking that the houses would not be used again for human habitation was accepted in respect of Nos. 8 and 24, Bells Hill.

## HODDESDON URBAN DISTRICT.

### *Water.*

Most of the Urban District and a few houses at Broxbourne and Great Amwell are supplied from a well sunk 200 feet in the chalk. The water is pumped into the mains and the surplus into a reservoir, reaching the houses by gravitation, a constant supply being available. There are also a few private wells and springs.

The water level of the well has only been slightly reduced, which, considering the drought experienced during the last two years, can be regarded as satisfactory.

During the year the Council installed a borehole turbine pump in the dug well, which was in substitution of the two-throw pump which, owing to the increased consumption, was insufficient to act as a satisfactory standby.

The Council have under consideration a comprehensive scheme for the proposed enlarged area which will necessitate further boreholes being sunk. In such event the boreholes will be sunk to a considerably lower depth, which should obviate any possible surface contamination and secure a pure, wholesome supply.

### *Drainage and Sewerage.*

The whole district, except for a few isolated low-lying or undeveloped areas, has a main sewage system with separate soil and surface water sewers, which also serves houses in Great Amwell. The works for the bacteriological treatment of the sewage consist of detritus and settling tanks, contact beds and rotary percolating filters.

The electrification and installation of pumping machinery, together with an 85ft. rotary percolating filter and extensions of the existing works, has been carried out.



### *Scavenging.*

House refuse is removed by contract in two low-loading type horse-drawn covered-in dust vans and is collected weekly. The refuse (after separation of the tins) is burnt in the Council destructor.

The destructor is being remodelled and extensions to the refuse disposal plant carried out by Messrs. Heenan & Froude, Ltd., which will provide for the dust collection from the proposed enlarged area. The question of collection is engaging the Council's attention, and mechanical vehicles will be purchased for this work.

### *Infectious Diseases.*

Cases of Scarlet Fever were notified as follows: Jan., 2; Feb., 3; Mar., 0; April, 0; May, 4; June, 4; July, 4; Aug., 1; Sept., 6; Oct., 1; Nov., 4; Dec., 5. With one exception the cases were admitted to Hertford Isolation Hospital. There were two return cases.

School children were affected as follows:—

Rye Park C.C. (J.M.)	(Infants)	Burford St. (Senior)	St. Pauls'. (Infants)
6.	7.	3.	1.

An outbreak of Whooping Cough was reported from St. Pauls' Infants in July, 22 children being infected.



*Food Inspection.*

Frequent inspection of animals slaughtered have been made throughout the year. In no case has it been necessary to condemn food as unfit for human consumption.

The Slaughter of Animals Act, 1933.—The voluntary sections of the Act relating to animals other than cattle have been adopted by the Council.

Food for sale in the Wednesday market is inspected weekly by the Market Superintendent, and attention is drawn to the Sanitary Inspector's notice in cases where there appears any doubt as to the soundness of the food.

*Fried Fish Businesses.*

There are three fish frying establishments in the district carried on under cleanly conditions and well conducted.

*Milk Supply.*

Three licences for the sale of Grade "A" and T.T. milk have been granted, but in each case the milk is imported to the district.

*Housing Acts.*

The 5-year programme of the Council is being proceeded with, and during the year the following properties were dealt with under the provisions of Section 19 of the Housing Act, 1930.

Properties.	Number of houses.		
4 and 6, High Street	...	2	... Demolished.
7 and 9, Stanstead Road	...	2	... „
1, 2, 3 and 4, Meadow Place	...	4	... „
36 and 38, Lord Street	...	2	... „

4, Ware Road—An undertaking was accepted that this house would no longer be used for human habitation and has been converted into a lock-up shop.

*Council Houses.*

The Council erected 50 houses of the 3 bedroom non-parlour type on their Housing Estate in Hawthorn Road, the houses being let at an economic inclusive rent of 8/5 and 8/11 per week.

The total number of houses erected by the Council is 194.

The Council have recently purchased a further Housing Site at Rye Park of  $9\frac{1}{4}$  acres upon which it is proposed to erect a further 78 houses. On this scheme it is proposed to make provision for a smaller type of house at a lower rental for aged persons.

*Rainfall.*

During the year rain fell on 143 days, the total rainfall amounting to 20'41 inches. The wettest month was December with 4'74 inches. The average rainfall for this district is about 24 inches.

## Ware Urban District.

*Water.*

The whole town is adequately supplied from the Council's two deep wells.

*Drainage and Sewerage.*

The sewage is pumped through a 9-inch rising main from a pumping station at Stanstead Abbots to Rye Farm near Hoddesdon, and distributed by troughing. The farm consists of about 140 acres, 100 of which is at present available for treatment of sewage, and is the property of the Council.

*Scavenging.*

House refuse is collected weekly in a covered conveyance (S. & D. freighter) and disposed of by controlled tipping.

*Infectious Diseases.*

	Diphtheria.	Scarlet Fever.	Pneumonia.	Tuberculosis.	
				Pulmonary.	Non-pulmonary.
Total (all ages)...	3	13	8	9	6
Under 1 year	—	—	1	—	—
1 to 2 years ...	—	1	—	—	—
2 „ 3 „ ...	—	1	1	—	—
3 „ 4 „ ...	—	—	—	—	—
4 „ 5 „ ...	—	1	—	—	—
5 „ 10 „ ...	—	5	2	—	3
10 „ 15 „ ...	3	4	—	1	—
15 „ 20 „ ...	—	—	1	1	—
20 „ 35 „ ...	—	1	—	4	2
35 „ 45 „ ...	—	—	2	1	—
45 „ 65 „ ...	—	—	—	2	—
65 and over ...	—	—	1	—	1
Removed to Hospital ...	3	13	1	8	4
Nursed at home ...	—	—	7	—	—
Died ...	—	—	4	4	1

*Scarlet Fever.*

Nine of the cases were children of school age. Four cases occurred in one family in July, another was a "return" case, and the remaining four were isolated cases.

*Diphtheria.*

Three cases occurred in December, two being boys attending

St. Mary's and one from the Central School. Three other boys were found to be carriers of the Diphtheria organism and admitted to the Isolation Hospital. The outbreak appears to have been due to a case some weeks earlier—a scholar at St. Mary's (Boys) School living in the Rural District.

MUSLEY (INFANTS) SCHOOL. Ten cases of Mumps were reported in March and 44 cases of Whooping Cough in June.

### Inspection and Supervision of Food.

#### (A). Milk Supply.

##### *Milk and Dairies Order, 1926, etc.*

The regular limewashing of cowsheds has been promptly carried out during the year, and only one notice has had to be served for this purpose.

A complete inspection of the cowsheds in the Urban District has been made. Meetings are taking place with the owners with a view to necessary improvements to comply with the Order.

##### *Bacteriological Examination of Milk.*

Eight samples of graded and eight samples of ordinary milk were submitted for B. Coli and bacterial count.

The results of the eight samples of ordinary milk are as follows:—

No. of sample.	Bacteria per 1 c.c.	Coli absent in c.c.	Report.	Comparison with Grade "A" Standard.	Remarks.
26	14,800	1 c.c.	Very clean	Complies	Bottled milk retailing
27	16,200	0.1 c.c.	Very clean	Complies	Milk taken on production at cowshed
28	15,100	1 c.c.	Very clean	Complies	Loose milk retailing
29	58,000	0.01 c.c.	Very clean	Complies	Loose milk retailing
30	19,500	0.01 c.c.	Very clean	Complies	Loose milk retailing (pasteurised)
35	110,000	0.001 c.c.	Coli high	Below	Bottled milk (pasteurised)
36	28,000	0.001 c.c.	Clean	Below	Loose milk retailing
38	8,800	0.01 c.c.	Very clean	Complies	Bottled milk (pasteurised)

The fact that six out of eight samples of ordinary milk easily complied with the standard prescribed for Grade "A" milk is indicative of the high standard of cleanliness attained by the majority of persons retailing milk within the Urban District, whether produced within the Urban Area or not.

Five samples of graded milk complied with the prescribed standards.

The three samples of Grade "A" milk which fell below standard, were all produced and bottled by one firm, whose premises are situated outside the Urban Area. After considerable correspondence with the producer and local authorities concerned the last sample was found to comply with the prescribed standard.

Three samples of graded milk and six samples of ordinary milk were submitted for the animal inoculation test for Tuberculosis; in each case the sample was returned as being free from tubercular infection.

(B). *Slaughterhouses and Meat Inspection.*

*Limewashing.*

At each of the two slaughterhouses, limewashing was carried out each quarter as required by the byelaws.

*Unsound Food.*

The following unsound food found upon inspection to be unfit, was surrendered and destroyed :—

*Bovines* : 1 carcass and all offals (generalized tuberculosis), 2 livers and one set of lungs (localized tuberculosis), weight 900 lbs.

*Pigs* : 1 head (localized tuberculosis), weight 12 lbs.

*Sheep* : 1 carcass (decomposition), weight 35 lbs.

*Fish* : Coal and cod fish fillets (decomposition), weight 21 stone.

Total weight of unsound food destroyed—11 cwts. 9 lbs.

*Meat Regulations, 1924.*

Four contraventions of the Regulations, and the unsound food provisions of the Public Health Acts have been dealt with during the year :—

- (1) Exposure of meat to contamination (Article 20 (5) a).
- (2) Failure to notify slaughter (Article 8).
- (3) Exposure of unsound food for sale (Public Health Acts).
- (4) Failure to notify disease (Article 9).

In each case, after consideration by the Council, a warning letter was sent by the Clerk of the Council.

*(C). Bakehouses.*

There are nine bakehouses in the district. Nineteen inspections have been made, and the necessary half-yearly cleansing and limewashing carried out.

*Canal Boats.*

1. Total number of canal boats inspected	...	...	43
2. The following defects were dealt with:—			
Cabin ventilators repaired	...	...	2
Cooking stoves repaired	...	...	1
3. Proceedings during the year:—			
(a) New boats registered	...	...	Nil
(b) Legal proceedings...	...	...	Nil
(c) Infectious disease...	...	...	Nil
(d) Boats detained for cleansing and disinfection			Nil
(e) Boats removed from register—not now used for sleeping purposes	...	...	11
4. Statistics from Register of Canal Boats:—			
(a) Number of boats registered since 1888	...		75
(b) Number of boats on register (Dec. 31st, 1934)...			57
(c) Estimated number of registered boats now in use			9

During the year eleven boats have been removed from the register, after correspondence with the owners, the reason being that the boats are not now used for sleeping purposes.

In addition to the registered boats, there is a fairly large number of boats in use which are not used for sleeping purposes and as a result are not registered.

*Housing Act, 1930.*

During the year notices of the Council's intention to consider making Demolition Orders under *Section 19* were served



in respect of seven dwelling houses with the following result :—

(1) Demolition Orders made	... ..	2
(2) Undertakings not to relet offered by owners	...	1
(3) " " accepted by Council	...	1
(4) " to make fit offered by owners	...	*4

\*Still under consideration.

In addition two dwelling houses, in respect of which undertakings not to relet were in force, have been converted into offices.

*Clearance Areas Nos. 1 to 4, and 6 to 9.*

The 68 buildings comprised in these areas have now been demolished and the occupants rehoused in new dwellings provided by a Public Utility Society in co-operation with the Council.

*Clearance Areas Nos. 10, 11, and 12.*

Official representations under Part I. were made in respect of these areas during the year, and as a result the areas were defined and declared by the Council. These areas involve the demolition of 71 buildings and the displacement of 233 persons. The preparation of Compulsory Purchase and Clearance Orders was proceeding at the close of the year.

*Almshouses, Priory Street.*

These almshouses provide accommodation for eleven aged persons, and are owned by the Ware Charity Estates. After a report to the Council upon their condition, the Council obtained an agreement with the Trustees for the improvement of the almshouses. This involves the conversion of eight one-roomed dwellings into four dwellings of two rooms each, provision of additional dustbins, internal water supply, sinks, washing accommodation, food storage, and general repair. The conversion will be carried out gradually upon vacation of the houses.

*Closet Accommodation.*

During the year the remaining seven pail closets to dwelling houses in the Urban District have been converted to water closets. One house in the district is provided with a chemical earth closet.

*Public Health (Smoke Abatement) Act, 1925.*

The emission of black smoke by one boiler plant has been recorded. This occurred in a new installation, and was due to the use of unsuitable fuel. The use of a more suitable fuel has prevented the recurrence of the nuisance.

## WARE RURAL DISTRICT.

### *Water.*

The Parishes of Wormley and Broxbourne and a few houses in Hoddesdon (outside the rural district) have a piped and continuous supply, which is under the control of the District Council. The water is derived from a deep well (borehole, 230 ft. deep) sunk into the chalk, stored in a reservoir and supplied by gravitation after chlorination by a Paterson Pulser Chloronome.

The Metropolitan Water Board supplies Great Amwell. Other parishes are supplied from wells.

A scheme for a public supply to the following parishes is under consideration:—Stanstead Abbots, Hunsdon, Widford, Great and Little Munden, Ware Rural, Standon and Thundridge, and after an Inquiry held at Ware on 22nd August by an Inspector from the Ministry of Health, Messrs. D. Balfour & Sons, 47, Victoria Street, Westminster, London, S.W.1., were instructed to prepare the various plans, etc.

### *Drainage and Sewerage*

Broxbourne and Wormley have a sewage disposal works on the broad irrigation system. The sewage reaches the farm by gravitation.

**STANSTEAD ABBOTTS.** The sewer leads to tanks, from which the sewage is pumped up on to the outfall works and finally disposed of by broad irrigation. This method is to be replaced by septic tanks and filters.

Hunsdon and Thundridge have sewers for slop water only.

Gilston and Eastwick have private sewers.

A scheme for sewerage and sewage disposal for the following parishes is being considered:—Great Amwell, St. Margarets, Hunsdon, Widford, Ware Rural, Standon and Thundridge, and Messrs. D. Balfour & Sons, 47, Victoria Street, Westminster, London, S.W.1, have been instructed to prepare preliminary plans for the Ministry of Health.

Where a sewage scheme is available water closets are provided, elsewhere pail closets are in use. Pails are emptied twice weekly from Hunsdon, Widford, Wareside, Thundridge and Standon. Cesspools are emptied on request free.

*Scavenging.*

The Council have taken over the service of refuse collection, and all parishes except the outlying ones of Great and Little Munden, Gilston and Eastwick, are served. A collection of bins is made weekly. The refuse is disposed of at Standon and at St. Margarets by tipping.

*Meat Inspection.*

406 bullocks, 457 sheep and 627 pigs were slaughtered. Of these, 259 bullocks, 342 sheep and 437 pigs were inspected, and the following were condemned and destroyed:—

Bullocks: 1 head (Actinomycosis), 1 head (tuberculosis).  
2 livers and 2 lungs (tuberculosis).

Pigs: 8 heads (tuberculosis).

## Infectious Diseases.

	Small pox. Enteric Fever. Puerperal Fever.	Scarlet Fever.	Diphtheria.	Pneumonia.	Erysipelas.	Tuberculosis.	
						Res- piratory.	Non-Res- piratory.
At all ages ... ..	—	25	14	14	—	6	3
Under 1 year ... ..	—	—	—	—	—	—	—
1 to 2 years ... ..	—	2	1	—	—	—	—
2 „ 3 „ ... ..	—	—	—	1	—	—	—
3 „ 4 „ ... ..	—	—	—	—	—	—	—
4 „ 5 „ ... ..	—	—	4	—	—	—	—
5 „ 10 „ ... ..	—	15	2	3	—	—	1
10 „ 15 „ ... ..	—	5	2	—	—	—	—
15 „ 20 „ ... ..	—	2	2	—	—	—	—
20 „ 35 „ ... ..	—	—	1	—	—	4	1
35 „ 45 „ ... ..	—	—	—	1	—	2	1
45 „ 65 „ ... ..	—	—	1	6	—	—	—
65 and over ... ..	—	—	—	2	—	—	—
Admitted to Hospital ... ..	—	23	14	1	—	5	2
Treated in School Sanatorium	—	—	—	1	—	—	—
Nursed at home ... ..	—	2	—	—	—	—	—
Died ... ..	—	—	1	8	—	1	1

## Scarlet Fever.

	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Broxbourne ... ..	6	1		1			1				1		2
Eastwick ... ..													
Gilston ... ..													
Great Amwell ... ..	5							1				1	3
Great Munden ... ..	1												1
Hunsdon ... ..													
Little Munden ... ..													
St. Margarets ... ..													
Standon ... ..	2					1		1					
Stanstead Abbots ... ..	4			2	1	1							
Thundridge ... ..	2			1				1					
Ware Rural ... ..													
Widford ... ..	1	1											
Wormley ... ..	3	1				1	1						
Hoddesdon Rural ... ..													

## Diphtheria.

Broxbourne ... ..													
Eastwick ... ..													
Gilston... ..													
Great Amwell ... ..	1			1									
Great Munden ... ..	3									2	1		
Hunsdon ... ..													
Little Munden ... ..													
St. Margarets ... ..													
Standon ... ..	4	1						1	1			1	
Stanstead Abbots ... ..	3		2										1
Thundridge ... ..													
Ware Rural ... ..	1											1	
Widford ... ..													
Wormley ... ..													
Hoddesdon Rural ... ..													

*Housing Act, 1930.*

Two cottages in Cappell Lane, Stanstead Abbots, were demolished.

Demolition Orders were made in respect of 6 cottages in Queen's Head Yard, Stanstead Abbots.

Demolition Orders in respect of certain cottages, viz., 5 at Wareside (Ware Rural), 5 at Haultwick (Little Munden), 2 at Levens Green (Great Munden), 2 at Widford, were held over pending arrangements for re-housing being effected. The erection of more houses by the Council is under consideration.

*Council Houses.*

Broxbourne ... ..	32	Standon	Wadesmill ... ..	8
Eastwick ... ..	—		High Cross ... ..	10
Gilston ... ..	—		Colliers End ... ..	14
Great Amwell ... ..	12		Broken Green ... ..	12
Great Munden ... ..	22		Standon ... ..	52
Hoddesdon Rural ... ..	—	Stanstead Abbots ... ..	54	
Hunsdon ... ..	18	Thundridge ... ..	8	
Little Munden ... ..	16	Ware Rural (Wareside) ... ..	24	
St. Margarets ... ..	8	Widford ... ..	—	
		Wormley ... ..	20	
			<hr/>	
			310	

## HERTFORD RURAL DISTRICT.

### *Water Supplies.*

Brickendon Liberty and Little Berkhamstead are now supplied from Bayford Water Tower.

DATCHWORTH. The water main has been extended for a distance of one mile from Raffin Green Farm to Hooks Cross.

ASTON, BENINGTON, WALKERN AND WATTON. The scheme to supply these parishes is being proceeded with.

### *Sewerage and Sewage Disposal.*

ASTON. An improved system of sewage disposal is now in operation.

LITTLE BERKHAMPSTEAD. A Public Local Enquiry was held by an Inspector of the Ministry of Health at the Village Hall on December 19th, 1934, into the application of the Council to purchase compulsorily  $4\frac{1}{4}$  acres adjoining Breach Lane for the purpose of sewage disposal.

### *Scavenging.*

The parish of Bengoe Rural now undertake the collection of tins and use a pit at Waterford as a dump in conjunction with Stapleford.

### *Housing Act, 1930.*

TONWELL. Chatterbox Row was declared a Clearance Area (No. 3).

LITTLE AMWELL. Woodland Terrace was declared a Clearance Area (No. 4).

REHOUSING. It was decided to erect 8 cottages at Painter's Green, Datchworth, and 28 cottages at Prior's Wood, Hertford Heath.

### *The Housing (Financial Provisions) Act, 1933.*

A meeting convened to meet local builders as to the erection of houses for persons of the working classes was held at the Shire Hall on 25th January, 1934, and although the meeting was advertised in the press, no builder attended the meeting.

*Council Houses.*

Aston ... ..	9	Little Amwell ... ..	15
Bayford ... ..	6	Little Berkhamstead	6
Benington ... ..	12	Sacombe ... ..	4
Bengeo Rural ... ..	10	Stapleford ... ..	8
Bramfield... ..	6	Tewin ... ..	22
Brickendon Liberty ... ..	—	Walkern ... ..	18
Datchworth ... ..	18	Watton ... ..	16
Hertingfordbury ... ..	14		
			164

*Infectious Diseases.*

Cases of Scarlet Fever were notified during February, April, July, September and December, and all were admitted to Hertford Isolation Hospital. They occurred in the following parishes:—Tewin, 3, Benington, 3, Hertingfordbury, 1, Datchworth, 1, Stapleford, 1. One of the Tewin notifications was a return case.

Measles was prevalent during the early part of the year and Aston school was closed for 3½ weeks on this account. An outbreak of Mumps necessitated the closure of Hertingfordbury School for the last two weeks of April.

German Measles (*Rubella*) brought the attendance at Tewin School to below 40% for the last week of the summer term.

## Hadham Rural District.

### *Water.*

The only public supply is at Much Hadham, which also supplies some of the surrounding hamlets. The water is derived from a deep well in the chalk (bore hole 300 feet) at the northern end of the village, an electrically driven pump fills a reservoir, from which the water is distributed by gravitation. High Wych is served by the Herts and Essex Water Company from the Parndon reservoir. The rest of the District is supplied by wells, a large number of which are deep wells.

Albury	...	...	Well, 209ft.
Braughing	...	...	Wells, vary in depth from 60 to 200ft.
Brent Pelham	...	...	Private supply, depth not known.
Furieux Pelham	...	...	Over 140ft. deep.
Stocking Pelham	...	...	Shallow wells on private property, 1 deep bore 190ft.
Thorley	...	...	Shallow wells on private property.

### *Drainage and Sewerage.*

The sewage of Much Hadham is treated on land by broad irrigation, the field is situated near the river at the south end of the village, there is a small sewage disposal works at High Wych consisting of a sprinkler and bacteria beds and land treatment.

Part of Braughing has a small broad irrigation area for the disposal of slop water.

Pail closets are largely in use in the District, though odd privies still exist in isolated spots. There are also a few cesspools.

### *Scavenging.*

There is a collection of house refuse from Much Hadham, High Wych and Braughing Parishes, elsewhere it is disposed of on the land.



*Council Houses.*

*Council Houses.*

Much Hadham... ..	14	Brent Pelham ... ..	2
Little Hadham ... ..	4	Stocking Pelham ... ..	4
High Wych ... ..	8	Furneaux Pelham ... ..	—
Albury ... ..	10	Thorley ... ..	4
Braughing ... ..	24		—
		Total	70

The sewage of Much Hadham is treated on land by means of irrigation. The field is situated near the river at the south end of the village. There is a small sewage disposal works at High Wych consisting of a sump and bacteria beds and land treatment. Part of Braughing has a small pond irrigation area for the disposal of slop water.

Ball clay pits are largely in use in the District though old pits still exist in several spots. There are also a few cesspools.

There is a collection of house refuse from Much Hadham, High Wych and Braughing Parishes elsewhere it is disposed of on the land.

## BUNTINGFORD RURAL DISTRICT.

### *Water.*

The town of Buntingford is supplied with water derived from the chalk, and is pumped into a Reservoir of 60,000 gallons capacity from which it is distributed by 4in. mains to Buntingford and the village of Aspenden.

The village of Wallington is supplied from a natural spring situate upon the south side of the village, the water from which is collected into a reservoir, from which it is conveyed through the village by a 1in. service pipe. In spite of the drought ample supplies of water were available both at Buntingford and at Wallington, and no restrictions were placed on its use during the summer. All the surrounding villages suffered very badly during the summer and it became necessary to convey water by motor lorry to 13 Parishes and this was still being continued in the New Year. This water was discharged into 200 and 300 gallon tanks protected by locked covers, set up upon the roadside waste, and from which water was drawn by means of a tap. No charge was made for the water and the only restriction made was that the water was to be used for domestic purposes only.

A scheme for a water supply to embrace the whole of the District has been prepared by Messrs. Balfour & Sons and it is hoped to commence the works during 1935.

During the year 22 samples of water were submitted for analysis, 8 of which proved to be good, 8 were unsatisfactory owing to the water level being low and the buckets bringing up earth and sand, and 6 were definitely bad.

### *Drainage and Sewerage.*

Buntingford, which consists of portions of three Parishes, has a drainage system, and the sewage flows by gravitation to the Sewage Farm situate about  $\frac{1}{2}$ -mile south-west of the town, where it

is treated by broad irrigation. The system has been in use since 1879, and the main sewer from the town to the outfall is insufficient for the needs of to-day; it will be necessary to provide a 12in. main sewer in place of the present 9in.

There are no public sewers in either of the villages, where pail closets are in universal use, the contents being disposed of in the gardens or upon allotments. Most of the larger houses are provided with cesspools, which are emptied periodically by the tenants of the properties, whilst the remainder of the properties are mostly without any proper drains or means for disposal of sewage and slop water.

In the village of Cottered difficulty has been experienced in disposing of the contents of the pail closets. Previously to 1934 the inhabitants were in the habit of carrying their pails to certain allotments where the contents were buried, but the allotments have now been sold and the tenants deprived of the land, necessitating the Council making a weekly collection with a sludge cart. The necessity of a drainage system for this village is urgent, as many of the cottages have no means whatsoever for disposing of sewage and slop water. A scheme has therefore been prepared and submitted to the Ministry of Health for approval.

A drainage scheme for the hamlet of Hare Street is also in preparation, where trouble is often experienced by reason of the pollution of the stream passing through the parish of Great Hormead.

#### *Scavenging.*

House refuse is collected weekly in Buntingford and is disposed of by burning in an incinerator; tins and other indestructible refuse is tipped into a disused gravel pit.

A quarterly collection of tins, etc., and indestructible refuse has recently been started in all the neighbouring parishes, but cannot be considered satisfactory owing to the long interval between collections. There is also difficulty in securing suitable dumps wherein to deposit the refuse. An effort should be made

to purchase or lease a suitable gravel or chalk pit where this refuse could be satisfactorily dealt with.

### *Housing.*

During the year the Council have entered into contracts for the erection of 78 houses under the Housing Scheme of 1930 in the parishes of Aspenden, Buckland, Meesden, Cottered and Great Hormead, whilst schemes are in preparation for the erection of 24 at Buntingford, 12 at Chipping and 12 at Anstey. Work is actively proceeding in respect of 42, and 36 will be commenced in March, 1935.

There is considerable dearth of houses of a satisfactory type throughout the district, and it would be well to consider the desirability of providing houses at an economic rent.

### *Council Houses.*

Aspenden	...	...	18	Rushden	...	...	8
Layston	...	...	24	Yardley	...	...	6
Wyddial	...	...	—	Wallington	...	...	6
Cottered	...	...	18	Broadfield	...	...	—
Sandon	...	...	24	Meesden	...	...	6
Anstey	...	...	6	Great Hormead	...	...	—
Buckland	...	...	10	Little Hormead	...	...	6
Throcking	...	...	—	Westmill	...	...	6
							138

### *Infectious Diseases.*

One case of diphtheria and 10 cases of scarlet fever were nursed in the Isolation Hospital during the year. During April, May and June 9 cases of scarlet fever were notified from Sandon, Cottered, Buntingford and Throcking—6 of the cases being children attending Cottered School. Isolated cases occurred in August (Buntingford) and November (Hare Street); both were adults.

Two cases of cerebro-spinal meningitis occurred at Sandon and were admitted to Royston Hospital and Haymeads Infirmary; both proved fatal.

## WARE U.D.—Water Analyses (Bacteriological).

	Waterworks.	
	Upper	Lower
No of colonies per c.c. of water growing upon nutrient gelatine at 20° C. in 3 days ... ..	220	5
No. of colonies per c.c. of water growing upon agar at 37° C. in 1 day ... ..	2	—
Smallest quantity of water giving acid and gas in bile-salt glucose broth ... ..	—	Absent in 100 c.c.
Ditto in bile-salt lactose broth ... ..	Absent in 100 c.c.	
The Bacillus Coli ... ..	“	“
“ “ Welchii (B. Enteritidis Sporogenes) ... ..	“	“
Report ... ..	Wholesome	

WARE R.D.—Water Analysis.

	Little Munden	Haultwick	Great Munden	Wadesmill	High Cross	Hunsdon
<b>CHEMICAL RESULTS IN PARTS PER 100,000.</b>						
Appearance ...	Bright Normal Nil Neutral 7.4	Bright Normal Nil Neutral 7.4	Bright Normal Nil Neutral 7.6	Clear & bright Normal Nil Neutral 7	Clear & bright Normal Nil Neutral 7	Clear & bright Normal Nil Neutral 6.8
Colour ...	525	565	625	610	740	700
Odour ...	35	38	42	41	50	47
Reaction pH ...	1.5	1.7	2.1	2.1	4.2	3.6
Free Carbonic Acid	0.26	0.34	0.36	0.34	0.8	0.52
Electric Conductivity at 20° C	Absent	Absent	Absent	Absent	Absent	Absent
Total Solids, 180° C	5	5	4.5	6	6.5	10
Chlorine in Chlorides	25	25	25.5	26	27.5	20
Nitrogen in Nitrates	30	30	30	32	34	30
Nitrites	Iron—minute trace, 0.01	Iron—minute trace, 0.005	Iron—minute trace, 0.03	Iron—minute trace, 0.01	Absent	Absent
Hardness: Permanent	Zinc—distinct trace	Zinc—distinct trace	Zinc—distant trace	Zinc—distant trace	Absent	Absent
Temporary	0.0016	0.0036	0.0004	0.002	0.0032	0.0072
Total	0.0008	0.0004	0.0004	0.016	0.0004	0.0054
Metals...	0.01	0.005	0.005	0.02	0.005	0.08
Free Ammonia	Absent in 20 c.c.	Absent in 20 c.c.	Present in 10 c.c.	Absent in 20 c.c.	Absent in 20 c.c.	Absent in 20 c.c.
Albuminoid Ammonia	Wholesome	Wholesome	Slight contamination (possibly by surface water)	Wholesome	Wholesome	Wholesome
Oxygen absorbed in 4 hours at 80° F.	...	...	...	...	...	...
The Bacillus Coli	...	...	...	...	...	...
Report...	...	...	...	...	...	...

**BACTERIOLOGICAL RESULTS.**

BUNTINGFORD R. D.—Water Analyses.

	Westmill		Cottered		Rushden	Meesden
	Council Cottages (37ft.)	Council Houses (153ft.)	Public Well (161ft.)	Council Houses (160ft.)		
Reaction ... ..	pH 7.2 Slightly alkaline	Alkaline	Alkaline	Alkaline	Alkaline	Alkaline
Colour and Turbidity ... ..	Colourless, no turbidity	Slight, whitish turbidity, brown deposit	Colourless, brown deposit	Very turbid, deposit of brown sand	Colourless, no turbidity	Colourless, no turbidity
Odour ... ..	None	None	None	None	None	None
Residue on evaporation ... ..	White, no charring	Greyish, no charring	Greyish, no charring	Brown, heavy	Greyish white, no charring on ignition	Greyish white, no charring on ignition
Chlorides (parts per 100,000) ... ..	4	4	4	8	8	8
Nitrites ... ..	Absent	Absent	Absent	Absent	Absent	Absent
Nitrates (parts per 100,000) ... ..	None	0.5	0.5	0.2	None	None
Free Ammonia ... ..	None	Faintest trace	None	None	0.007	0.007
Oxygen absorbed in 15 minutes at 80° C. (parts per 100,000) ... ..	Less than 0.05	0.15	0.75	0.15	0.1	0.1
Metallic Impurities ... ..	None	Faintest trace of iron	None	Faint trace of iron	None	None
Hardness (degrees): Permanent ... ..	10	8	10	9	50	50
Temporary ... ..	30	19	25	35	10	10
Total ... ..	40	27	35	44	62	62
Report ... ..	Wholesome	Doubtful quality (deposit of organic matter)	Good (except for earthy deposit)	Good (except for large amount of sand)	Wholesome	Wholesome

HERTFORD M.B.—Analyses of Sewage Effluents.

		Results expressed in					
		Grains per gallon		Parts per 100,000			
		January	March	May	July	October	November
Appearance	...	Bright, grey-brown humus deposit	Flocculent grey deposit of fungus	Bright, with flocculent grey-brown humus deposit	Bright, with very slight brown humus deposit	Bright, very slight humus deposit	Bright, slight humus deposit
Colour	...	Faint yellow	Yellow	Yellow	Faint yellow	Yellow	Faint yellow
Odour	...	Earthy	Earthy	Earthy	Earthy	Faint earthy	Faint earthy
Suspended Matter, Total	...	Under 1.0	3.3	7.5	Under 1.0	Under 1.0	1.0
" " Volatile	...	" 2.9	3.0	5.0	" "	" 4.5	0.8
Chlorine	...	" "	3.4	5.6	" "	" "	6.6
Nitrites	...	Absent	Very minute trace	Very minute trace	Trace	Absent	Very distinct trace
Nitrogen in Nitrates	...	0.18	0.22	0.12	0.56	0.08	0.22
Free Ammonia	...	0.625	1.55	1.0	0.31	1.85	1.63
Albuminoid Ammonia	...	0.035	0.105	0.29	0.025	0.075	0.65
Oxygen absorbed, 4 hours at 80° F.	...	0.25	0.51	0.77	0.15	0.53	0.71
Impurity figure	...	3	7.8	18.4	2	6.4	6.8
Biological oxygen demand	...	Unchanged	1.3	3.1	0.42	0.5	
Odour on keeping	...	Satisfactory	Satisfactory (except for excess of matter in suspension)	Unsatisfactory	Satisfactory	Satisfactory	Satisfactory
Report	...	Satisfactory	Satisfactory (except for excess of matter in suspension)	Unsatisfactory	Satisfactory	Satisfactory	Satisfactory



## Swimming Pools—Ware R.D.

A.

B.

## Chemical Results in Parts per 100,000.

Appearance ... ..	Bright with very slight deposit of vegetable debris, distinct chlorophyll film on standing.
Colour ... ..	Slightly yellow. Normal.
Odour ... ..	Slightly earthy. Faintly earthy.
Reaction pH. ... ..	Neutral 8'3. Neutral 8.
Free Carbonic Acid ... ..	—
Electric Conductivity at 20° C. ... ..	580. 700.
Total Solids, 180° C. ... ..	39. 47.
Chlorine in Chlorides ... ..	2'4. 7'6.
Free Chlorine ... ..	Absent. Absent.
Nitrogen in Nitrates ... ..	Nil. 0'48.
Nitrites ... ..	Absent. Trace.
Hardness: Permanent ... ..	11'5. 13.
Temporary ... ..	19'5. 11.
Total ... ..	31'0. 24.
Metals ... ..	Iron—minute trace 0'1. Absent.
Free Ammonia ... ..	0'0072. 0'0032.
Albuminoid Ammonia ... ..	0'0020. 0'0192.
Oxygen absorbed in 4 hours at 80° F. ... ..	0'2450. 0'0750.

## Bacteriological Results.

No. of Bacteria per c.c.—	
On Gelatine in 3 days at 20° C. ... ..	2,800. 6,800.
On Agar in 1 day at 37° C. ... ..	20. 78.
On Agar in 2 days ... ..	43. 2,700.
The Bacillus Coli ... ..	Present in 10 c.c. Absent in 100 c.c.
Bacillus Welchii ... ..	Present in 100 c.c. Absent in 100 c.c.
Streptococci... ..	Absent in 10 c.c. 100 c.c.
	Absent in 100 c.c. Absent in 100 c.c.

*Report (A).* Satisfactory degree of organic quality. There is evidence of bacterial contamination and cannot be regarded as of the standard of purity necessary for Public Swimming Bath purposes.

*Report (B).* Satisfactory degree of organic quality. Excessive number of bacteria, but none indicative of undesirable pollution. Safe and suitable for Swimming Baths purposes.



# Swimming Pools - Ware E.C.

Chemical Credits to Yards per 100,000

Aluminum	100.00	100.00	100.00
Chlorine	100.00	100.00	100.00
Formalin	100.00	100.00	100.00
Formalin 4%	100.00	100.00	100.00
Formalin 10%	100.00	100.00	100.00
Formalin 20%	100.00	100.00	100.00
Formalin 30%	100.00	100.00	100.00
Formalin 40%	100.00	100.00	100.00
Formalin 50%	100.00	100.00	100.00
Formalin 60%	100.00	100.00	100.00
Formalin 70%	100.00	100.00	100.00
Formalin 80%	100.00	100.00	100.00
Formalin 90%	100.00	100.00	100.00
Formalin 100%	100.00	100.00	100.00
Formalin 110%	100.00	100.00	100.00
Formalin 120%	100.00	100.00	100.00
Formalin 130%	100.00	100.00	100.00
Formalin 140%	100.00	100.00	100.00
Formalin 150%	100.00	100.00	100.00
Formalin 160%	100.00	100.00	100.00
Formalin 170%	100.00	100.00	100.00
Formalin 180%	100.00	100.00	100.00
Formalin 190%	100.00	100.00	100.00
Formalin 200%	100.00	100.00	100.00

## Swimming Pools - Ware E.C.

Aluminum	100.00	100.00	100.00
Chlorine	100.00	100.00	100.00
Formalin	100.00	100.00	100.00
Formalin 4%	100.00	100.00	100.00
Formalin 10%	100.00	100.00	100.00
Formalin 20%	100.00	100.00	100.00
Formalin 30%	100.00	100.00	100.00
Formalin 40%	100.00	100.00	100.00
Formalin 50%	100.00	100.00	100.00
Formalin 60%	100.00	100.00	100.00
Formalin 70%	100.00	100.00	100.00
Formalin 80%	100.00	100.00	100.00
Formalin 90%	100.00	100.00	100.00
Formalin 100%	100.00	100.00	100.00
Formalin 110%	100.00	100.00	100.00
Formalin 120%	100.00	100.00	100.00
Formalin 130%	100.00	100.00	100.00
Formalin 140%	100.00	100.00	100.00
Formalin 150%	100.00	100.00	100.00
Formalin 160%	100.00	100.00	100.00
Formalin 170%	100.00	100.00	100.00
Formalin 180%	100.00	100.00	100.00
Formalin 190%	100.00	100.00	100.00
Formalin 200%	100.00	100.00	100.00

These are the standard rates for the various items listed above. The actual rates may vary depending on the quantity of items ordered and the current market prices. The above rates are subject to change without notice.

The above rates are for the various items listed above. The actual rates may vary depending on the quantity of items ordered and the current market prices. The above rates are subject to change without notice.



