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**BOROUGH OF BASINGSTOKE**



**ANNUAL REPORT**

of the

**Medical Officer of  
Health**

for the year

**1939**





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# BOROUGH OF BASINGSTOKE

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## HEALTH COMMITTEE

Councillor W. G. DEAR, J.P., Deputy Mayor (*Chairman*).  
Alderman Mrs. E. A. WESTON, C.C. (*Vice-Chairman*).  
His Worship the Mayor (Councillor W. DOSWELL, J.P.).  
Alderman R. H. HOWARD, J.P.  
Councillor P. J. WIGGINS.  
Councillor W. E. WARD.  
Councillor A. KIRK.  
Councillor B. C. JUKES.

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## PUBLIC HEALTH DEPARTMENT

### *Medical Officer of Health :*

HENRY D. KELF, M.R.C.S., L.R.C.P., D.P.H. (Camb.).

### *Visiting Medical Officer, Isolation Hospital :*

W. KELLY, M.B., Ch.B. (On Active Service).  
A. BUCHANAN, M.B. (Locum Tenens).

### *Borough Sanitary Inspector :*

Wm. J. TILEY, M.S.I.A., A.R.San.I.

### *Additional Sanitary Inspector :*

C. H. WELLER, M.S.I.A., C.R.San.I.

### *Matron of the Isolation Hospital :*

Miss A. BROWN, S.R.N.

### *Clerk :*

KEITH HUNT (On Active Service).  
Miss M. D. DEAN (Temporary).

*Public Health Department,  
Market Chambers,  
Church Street,  
Basingstoke.  
September, 1940.*

To

*The Mayor, Aldermen and Councillors of the Borough of  
Basingstoke.*

*Madam and Gentlemen,*

I have pleasure in presenting my Eighth Annual Report for the year ending December 31st, 1939.

This report has been drawn up to include the information and statistics in accordance with the requirements of the Ministry of Health in Circular 1728 (England) issued October 25th, 1938, and by order of the Sanitary Officers' (Outside London) Regulations, 1935 (Article 17(5)) and the Sanitary Officers' Order 1926 (Article 14 (3)). The Minister of Health suggests the desirability of the Reports being curtailed during the period of the war. Many items which usually appear have been omitted and several others are dealt with briefly.

The health of the inhabitants in the Borough has been considered satisfactory as regards notifiable infectious diseases, and the mortality recorded by the Registrar's weekly returns. There were no deaths from diphtheria and scarlet fever.

Part of the routine work of the department was suspended during the latter part of the year owing to the war, but many other duties in respect of A.R.P. and Evacuees (Basingstoke being a Reception area) have taken up much time.

I wish to express my appreciation of the interest of the members of the Committee and the Sanitary Inspectors (Mr. W. J. Tiley and Mr. C. H. Weller) for their valued co-operation and assistance.

The classified summary of the inspections carried out by the Sanitary Inspectors during the year is included at the end of the report.

This report has been delayed to await distribution of vital statistics from the Registrar-General.

Yours faithfully,

HENRY D. KELF,  
*Medical Officer of Health.*



## Section A.

### General Statistics.

Area (in acres) including 983 acres added by the extension of the Borough Boundaries under the Local Government Act, 1929 (Approx.)	5,180
Population—Census, 1921 .....	12,718
"    Census, 1931 .....	13,865
(a) Registrar General's estimate of resident population, mid-1939 .....	14,920
(b) Average population appropriate to the calculation of death rates .....	15,380
Number of inhabited houses (including flats) according to the Rate Books (October 1st, 1939) .....	4,080
Number of new houses completed during year—October 1st, 1938, to October 1st, 1939 .....	156
Rateable Value (as at 1st October, 1939) .....	£128,379
Sum represented by a Penny Rate (1939 to 1940)	£504

### SOCIAL CONDITIONS

The character of the district is chiefly industrial and residential. The town is the shopping and market centre for a large rural area, other large towns being 16 to 18 miles distant.

The chief industries in the Borough include several factories engaged in motor and agricultural engineering, instrument making, textile trades (employing chiefly women), leather works. There are also wholesale vegetable and flower growers and a new works for biological and chemical products.

A summarised report for year 1939 from the Manager of the Basingstoke Employment Exchange is as follows:—

	<i>Average of Unemployment</i>		<i>Percentage of Unemployment as at December</i>
	<i>Men</i>	<i>Women</i>	
1936 .....	176	51	4.0%
1937 .....	190	39	3.1%
1938 .....	149	84	2.5%
1939 .....	113	70	1.25%

Percentage of unemployment for whole of country for 1939—9.1%.

The above average for women is increased as a result of the large number of women who registered for War Work during the period September to December. Many of these were married and would normally not be on the labour market.



Employment in all industries throughout last year was excellent and the number of employees at the instrument making works has much increased. More avenues for the employment of women are opened up since the War, and more workers are employed at the tyre rebuilding works.

Practically all the female workers of Burberry's, whose works were transferred in 1938, have now obtained local work.

There was a smart fall in unemployment following declaration of War.

A very large number of evacuee children and mothers arrived from Portsmouth and many business firms transferred their offices from London to this town.

No unusual sickness or ill-health was reported.

### **Vital Statistics, 1939.**

#### **Births.**

		<i>Male.</i>	<i>Female.</i>		
Live Births	{ Legitimate .....	97	126	Total	233
	{ Illegitimate .....	3	3	"	6
Still Births	{ Legitimate .....	3	3	"	6
	{ Illegitimate .....	—	—	"	Nil.
Birth Rate per 1,000 estimated resident population					15.34
" " " " for England and Wales .....					15.00
Still Birth Rate per 1,000 total (live and still) births					25.35

#### **Deaths.**

	<i>Males.</i>	<i>Females.</i>		
All causes .....	89	84	Total	173
Death Rate per 1,000 of estimated average population				11.25
" " " " for England and Wales				12.10
Deaths from Puerperal causes (Maternal Mortality)				1
Rate per 1,000 total (live and still) Births .....				4.25
" " " " (England and Wales) .....				2.82
Death of Infants under one year of age.....				9
(Legitimate—9. Illegitimate—Nil.)				
Death Rate all infants per 1,000 live births (Borough)				39.3
" " all infants per 1,000 live births for England and Wales .....				50.00
" " Legitimate Infants per 1,000 legitimate live births (Borough) .....				40.3
" " Illegitimate Infants per 1,000 illegitimate live births (Borough) .....				Nil.
Deaths from Cancer (all ages) .....			Total	24
" " Measles (all ages) .....			"	Nil.
" " Whooping Cough (all ages) .....			"	Nil.
" " Diarrhoea (under 2 years of age) .....			"	1
" " Tuberculosis (see also special table) .....			"	6



## Causes of Death, 1939.

		<i>M.</i>	<i>F.</i>	<i>Total</i>
1	Typhoid and Paratyphoid Fever .....	—	—	—
2	Measles .....	—	—	—
3	Scarlet Fever .....	—	—	—
4	Whooping Cough .....	—	—	—
5	Diphtheria .....	—	—	—
6	Influenza .....	2	4	6
7	Encephalitis Lethargica .....	—	—	—
8	Cerebro-spinal Fever .....	—	—	—
9	Tuberculosis of Respiratory System .....	4	2	6
10	„ Other .....	—	—	—
11	Syphilis .....	—	—	—
12	G.P.I., Tabes, etc. ....	—	—	—
13	Cancer .....	16	8	24
14	Diabetes .....	—	—	—
15	Cerebral Haemorrhage, etc. ....	7	12	19
16	Heart Diseases .....	31	25	56
17	Aneurysm .....	1	—	1
18	Other Circulatory Diseases .....	4	6	10
19	Bronchitis .....	4	1	5
20	Pneumonia (all forms) .....	5	3	8
21	Other Respiratory Diseases .....	—	1	1
22	Peptic Ulcer .....	—	1	1
23	Diarrhoea (under 2 years of age) .....	—	1	1
24	Appendicitis .....	1	—	1
25	Cirrhosis of Liver .....	—	—	—
26	Other Liver Diseases .....	—	—	—
27	Other Digestive Diseases .....	—	1	1
28	Acute and Chronic Nephritis .....	—	1	1
29	Puerperal Sepsis .....	—	1	1
30	Other Puerperal Diseases .....	—	—	—
31	Congenital Debility, Premature Birth, etc. ....	1	6	7
32	Senility .....	—	2	2
33	Suicide .....	1	1	2
34	Other Violence .....	5	3	8
35	Other Defined Diseases .....	7	5	12
36	Ill-defined Diseases, etc. ....	—	—	—
Total (all causes) .....		89	84	173

## Summary for Borough.

	<i>Estimated Population</i>	<i>Number of Births</i>	<i>Birth Rate (per 1,000)</i>	<i>Number of Deaths</i>	<i>Death Rate (per 1,000)</i>
1930	13,430	235	17.5	124	9.2
1931	13,790	241	17.04	150	10.8
1932	14,320	213	14.96	144	10.12
1933	14,270	216	15.14	151	10.65
1934	14,500	191	13.17	125	8.62
1935	14,260	205	14.37	155	10.87
1936	14,220	169	11.88	172	12.1
1937	14,460	191	13.21	147	10.16
1938	14,650	178	12.15	169	11.53
1939	14,920	229	15.34	173	11.25

### **Section B.**

## **General Provision of Health Services for the Area.**

### **(i) Public Health Staff (see Front Page).**

#### **(a) Medical Officer of Health.**

The Medical Officer of Health is part-time for the Borough, also Assistant County Medical Officer of Health, undertaking the various duties in the County Public Health Department, including School Medical Inspection, School Clinics, etc., within the Borough. He is also the Medical Officer of Health (part-time) for the Kingsclere and Whitchurch Rural District Council and is not in private practice.

#### **(b) Sanitary Inspector.**

The Sanitary Inspector holds the Sanitary Inspector's Certificate of the Royal Sanitary Institute, also a Certificate as an Inspector of Meat and other Foods. In addition he acts as the Inspector under the Petroleum Acts, and Inspector under the Shops Acts in the Borough.

#### **(c) Additional Sanitary Inspector.**

Additional Sanitary Inspector appointed replaced the Temporary Assistant, from April, 1936. He holds the Certificate of the Royal Sanitary Institute and Sanitary Inspectors' Examination Joint Board, and a Certificate as an Inspector of Meat and other Foods.



There have been no developments in the services provided in the area for the following :—

- (a) Laboratory facilities.
- (b) Ambulance facilities.
- (c) Nursing in the home.
- (d) Treatment Centres and Clinics.
- (e) Hospitals. Public and Voluntary.

All the above were reported in detail last year, except that the private Maternity Home was closed in July, 1939, and two mid-wives only practising in the Borough.

## **Section C.**

### **Sanitary Circumstances of the Area.**

The Borough Surveyor and Waterworks Engineer (Mr. W. G. A. Clark, B.Sc., has supplied the following information for the purposes of this report on the Water Supply and Drainage and Sewerage.

#### **1. Water Supply.**

- (a) New mains have been laid during the year to serve new estate development, the total length being 800 yards.
- (b) No new source of public water supply has been brought into use during the year and no contamination of the existing supply has been suspected. The water has, as in the past, been chlorinated by injection into the pump suctions by Wallace and Tiernan plant, the qualification mentioned in previous years as to the insufficiency of contact period being still persistent. Further consideration for scheme mentioned in the report for the year 1938 has proceeded but owing to the circumstances connected with the war little progress has been made.

Investigation has been made as to the possibility of augmenting the supply by the bringing into use of an existing well which was dug by the Corporation in 1903 and orders were given for the hire of test plant, but the delivery of such has been delayed through the war.

- (c) No shortage has been experienced during the year. The volume of water supplied for domestic and trade purposes amounted to 201,341,878 gallons.
- (d) Systematic fortnightly Bacteriological and Chemical examinations of raw water before chlorination have been made during the year, 22 reports having been received. A typical report of a sample taken on the 18th October, 1939, by Dr. E. V. Suckling, Queen Victoria Street, London, E.C.



*Chemical results in parts per 100,000.*

Appearance .....	Clear and bright.		
Colour .....	Normal	Odour .....	Nil
Reaction pH.....	Neutral: 7.2	Free carbonic acid .....	2.4
Electric Conductivity at 20°C. ....	460	Total solids, dried at 180°C. ....	31.0
Chlorine in Chlorides	1.1	Alkalinity as Calcium Carbonate .....	22.0
Hardness : Total .....	26.0	{ Temporary { Permanent .....	6.0
Nitrogen in Nitrates	0.58	Nitrites .....	Absent
Free Ammonia .....	0.0000	Ammoniacal Nitrogen	—
Albuminoid Ammonia	0.0000	Albuminoid Nitrogen	—
Oxygen Absorbed in 4 hrs. at 80°F. ....	0.0000	Metals .....	Absent

*Bacteriological Results.*

Number of Bacteria growing on Agar per cc. or ml. :—

In 1 day at 37°C.	.....	0
In 2 days at 37°C.	.....	0
In 3 days at 20°C.	.....	4

The Bacillus Coli .....	Present in .....	Absent in 100 c.c.
Bacillus Welchii (B. Enteritidis Sporogenes)	.....	Present
in— .....	Absent in 100 c.c.	

**Report.**

This sample is clear and bright, or normal colour, neutral in reaction, and free from iron or other metals. The water is hard in character, although not to an excessive degree, contains no excess of saline or mineral matter in solution, and is of a high degree of organic and bacterial purity.

These results are very satisfactory and consistent with a pure and wholesome water, suitable for the purposes of public supply.



(e) *Rainfall :*

The following are the figures for the year :—

January .....	5.26 ins.
February .....	1.26 „
March .....	1.70 „
April .....	1.43 „
May .....	2.37 „
June .....	1.40 „
July .....	4.29 „
August .....	1.95 „
September .....	.79 „
October .....	4.99 „
November .....	6.28 „
December .....	1.38 „
Total	<hr/> 33.10 „ <hr/>

Comparative figures for the four previous years are as follows :—

1938 .....	22.71 ins.
1937 .....	35.82 „
1936 .....	33.16 „
1935 .....	35.78 „

## 2. Drainage and Sewerage.

(a) *New Sewers.*

A new sewer has been laid to serve development in the Northern area of the Town by arrangement with an owner of new extensive factory premises.

(b) *Sufficiency of Sewers.*

No further progress has been made owing to the War with the preparation of a complete scheme to obviate the occasional surcharge of the main outfall sewer in the lower levels of the Town.

(c) *Sewage Disposal.*

The whole of the sewage has been pumped to and treated by broad irrigation at the Council's existing Sewage Farm, without nuisance.

The volume of sewage dealt with during the year has amounted to 217,535,000 gallons.

## Rivers and Streams.

During the past year much attention has again been given to this matter by the Sanitary Inspector and 130 visits have been made.

One instance of serious pollution was detected through creosote gaining access to the length of the water course forming part of the old canal; the source of pollution was promptly ascertained and remedied forthwith. This length of the old canal (approximately 229 feet) adjacent to Black Path and Eastrop Lane, has since been culverted, thus affecting a great improvement, and also removing the cause of frequent nuisances.

Notices were also served upon the owners whose land abuts on to the watercourse, with the result that the river was cleansed in its entirety within the Borough Boundary.

The improvement in the condition of Harris' Ditch is being maintained.

### **Closet Accommodation.**

The condition previously reported remains unaltered, there still being a large number of pail closets and cesspools in the outlying parts of the Borough—Cliddesden, Winklebury, Worting and Kempshott.

### **Public Cleansing.**

The Borough Surveyor reports that :

During the year mechanical haulage was partially adopted for the collection of house and trade refuse, the Council purchasing one rear loading S.D. Freighter and one Thornycroft 7-yard Dual-purpose side loading vehicle.

Such arrangements as were necessary to carry out salvage were put in hand in the month of November.

The Council has not adopted as a service the cleansing of cesspools, but arranges for this work to be carried out at the cost of the occupier. There has been no alteration or extension of the refuse collection service.

### **Shops Act, 1934. Section 10.**

The number of shops inspected was 12, several defects were discovered, and, as a result of informal action, were remedied.

### **Camping Sites.**

There are no camping sites within the area of the Borough.

### **Smoke Abatement.**

There are very few industries in the Borough with factory chimneys and it was not found necessary to take any proceedings under the Smoke Abatement Act.



## **Eradication of Bed Bugs.**

(1) Houses found to be infested during 1939 :

(a) Council houses .....	4
(b) Other houses .....	10

These were disinfected by the spraying of rooms and articles of furniture with " Zaldecide " and followed by fumigation with " Fumoid " blocks.

## **Section D.**

### **Housing.**

#### **(a) General.**

The Council's Housing Estates now consist of 681 houses. Building development during 1939 was again very active, and new buildings were completed as follows :

New private dwelling houses .....	137
Conversion of existing dwellings into five flats .....	1
Major additions to existing buildings .....	3

#### **(b) Clearance Areas.**

The buildings in Area No. 11 (46, 47 and 48, Hackwood Road) were demolished during the year and the site used for the erection of new dwelling houses.

#### **(c) Demolition Orders.**

i. Orders made during 1939 :

5 Demolition Orders were made, i.e., 2, 4, 6 and 8, Lower Brook Street—demolished September, 1939, and 23, Cliddesden Road—house still occupied at 31st December, 1939 (demolished 1940). These houses were inspected during 1938.

ii. Orders made prior to 1939 :

6, Potters Lane.—This dwelling was closed in 1936 on an undertaking not to re-let for human habitation given by the owner. During 1939 the house was demolished and two garages were erected on the site.

Two cottages at Oakridge Farm have been demolished voluntarily by the owner and three cottages in Bramblys Lane were demolished by the owners to make way for building developments.

There are still four houses closed in lieu of demolition orders being made, on undertakings given by the owners not to re-let for human habitation. Two of the three cottages at Shooters Lodge were still occupied at 31st December, as the tenants had not been able to find alternative accommodation.

28, Chapel Street, with the adjoining property, have been acquired by the Council. These premises are to be restored and preserved.



## Housing Statistics.

### 1. Inspection of Dwelling Houses during the Year :—

(1)	(a)	Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts) .....	360
	(b)	Number of inspections made for the purpose .....	392
(2)	(a)	Number of dwelling houses (included under sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 and 1932 .....	90
	(b)	Number of inspections made for the purpose .....	122
(3)		Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation .....	Nil
(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 .....	90

### 2. Remedy of Defects during the Year without service of formal Notices :—

Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority or their Officers .....	329
---	-----

### 3. Action under Statutory Powers during the Year :—

(a)	Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936 :—		
	(1)	Number of dwelling houses in respect of which notices were served requiring repair.....	Nil
	(2)	Number of dwelling houses which were rendered fit after the service of formal notices :	
	(a)	By Owners .....	Nil
	(b)	By Local Authority in default of Owners .....	Nil
(b)	Proceedings under the Public Health Acts :—		
	(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied .....	Nil



(2) Number of dwelling houses in which defects were remedied after the service of formal notices :		
(a) By Owners .....	.....	Nil
(b) By Local Authority in default of Owners		Nil
(c) Proceedings under Sections 11 and 13 of the Housing Act, 1936 :—		
(1) Number of dwelling houses in respect of which Demolition Orders were made .....		1
(2) Number of dwelling houses demolished in pursuance of Demolition Orders .....		7
(d) Proceedings under Section 12 of the Housing Act, 1936 :—		
(1) Number of separate tenements or underground rooms in respect of which Closing Orders were made .....	.....	Nil
(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit .....	.....	Nil

#### 4. Housing Act, 1936—Part IV.—Overcrowding :—

(a) (i) Number of dwelling houses overcrowded at the end of the year .....		5
(ii) Number of families dwelling therein .....		5
(iii) Number of persons dwelling therein .....		37
(b) Number of new cases of overcrowding reported during the year .....		3
(c) (i) Number of cases of overcrowding relieved during the year .....		2
(ii) Number of persons concerned in such cases		16
(d) Particulars of any cases in which dwelling houses have again become overcrowded after the Local Authority have taken steps for the abatement of overcrowding.....		Nil

## Section E.

### Inspection and Supervision of Food.

The Food and Drugs Act, 1938, came into operation on 1st October, 1939, and a systematic inspection of all premises used for the manufacture of sausages and preserved foods has been carried out. Certain works have been found necessary to bring the premises within the requirements of the Act, and in all cases these improvements have been effected. The inspection and registration of ice cream premises is being proceeded with.

#### (a) Milk Supply.

There are in the Borough :—

Registered Cowkeepers and Producers—	6
Tuberculin Tested 1	}       .....       .....       .....
Accredited 2	
Others 3	
Registered Dairies	21
Retail Purveyors—	
Resident within the Borough	21
Resident outside the Borough	8
Licensed Retailers of—	
Tuberculin Tested Milk	1
Pasteurised Milk	2
Total number of samples taken for bacteriological examination	31
Number of samples (Designated) taken for bacteriological examination	14
Total number of dairy inspections during 1939	57

The following is a summary of bacteriological and other examinations carried out at the County Council's Laboratory, Winchester, of milk samples taken in the Borough during the year :—



### Ordinary Milk (17 and 1 T.T.)

No. of Sample	No. of Organisms per ml.	Bacillus Coli present in				Remarks
		1 ml.	1/10 ml.	1/100 ml.	1/1000 ml.	
1	4,400	-	-	-	-	Satisfactory
2	440,000	+	+	+	+	Unsatisfactory
3*	4,400	-	-	-	-	Satisfactory
4	159,000	+	+	+	-	Unsatisfactory
5	15,200	-	-	-	-	Satisfactory
6	9,100	+	+	+	-	
7	Over a million	+	+	+	+	Unsatisfactory
8	112,500	+	+	-	-	Unsatisfactory
9	82,000	+	+	-	-	Unsatisfactory
10	290,000	+	+	+	+	Unsatisfactory
11	1,920,000	+	+	+	+	Unsatisfactory
12	950,000	+	+	+	+	Unsatisfactory
13	46,000	+	+	-	-	Unsatisfactory
14	21,000	+	+	-	-	Unsatisfactory
15	610,000	+	+	+	+	Unsatisfactory
16	76,000	+	+	+	-	Unsatisfactory
17	43,000	-	-	-	-	Satisfactory
18	31,000	+	+	+	-	Unsatisfactory

N.B.—The unsatisfactory result obtained in five of the samples submitted was due to the presence of B.Coli, although the bacterial counts were low.

\* No. 3 ..... T.T. Milk

### Pasteurised Milk (13) :—

No. of Sample	No. of Organisms per ml.	Phosphatase Test	Remarks
1	34,000	Over 30 blue units	Unsatisfactory
2	4,500	Below 1.5 blue units	Satisfactory
3	25,100	Over 30 blue units	Unsatisfactory
4	32,600	12 blue units	Unsatisfactory
5	3,500	Below 1.5 blue units	Unsatisfactory
	B.Coli present in 1/100 ml.		
6	Over a million	1.5 blue units	Unsatisfactory
7	560,000	1.5 blue units	Unsatisfactory
8	210,000	1.5 blue units	Unsatisfactory
9	1,900	1.5 blue units	Satisfactory
10	5,200	1.5 blue units	Satisfactory
11	7,500	1.5 blue units	Satisfactory
12	12,400	1.5 blue units	Satisfactory
13	670,000	1.5 blue units	Satisfactory

The minimum requirements to show efficient pasteurisation and cleanliness are :—

Not more than 2.3 blue units in Phosphatase Test.

Not more than 100,000 bacteria per millilitre.

Entire absence of *Bacillus Coli*.

No samples of milk have been submitted for biological examination for the presence of tubercle bacilli.

(b) **Meat and Other Foods.**

(1) 1,773 inspections have been made of various Food Premises, including Slaughterhouses, Butchers, Fruiterers, Fishmongers Shops and Stalls, etc.

(2) The undermentioned diseased, unsound and unwholesome food was voluntarily surrendered and destroyed :

**Meat :**

*Bovine.*

3 heads and tongues	.....	Tuberculosis.
3 pairs lungs	.....	"
2 livers	.....	"
1 mesentery	.....	"
2 pairs lungs	.....	Pleurisy.
3 livers	.....	Distomatosis and Cirrhosis.
14-lbs. liver	.....	" " "
2 livers	.....	Multiple abscesses.
1 liver	.....	Bacterial Necrosis.
3-lbs. liver	.....	Echinococcus cysts
12-lbs. beef	.....	Bruising.
2 hind quarters (280-lbs.)		
chilled beef	.....	Store taint.

*Calves.*

1 carcase and all offal	.....	Abnormal condition of vertebrae.
-------------------------	-------	----------------------------------

*Sheep.*

1 carcase and all offal	.....	Emaciation.
1 pluck	.....	Congestion.
2 pairs lungs	.....	<i>Strongylus rufescens</i> .
4 livers	.....	Echinococcus cysts.
1 liver	.....	Parasitical.
1 shoulder lamb	.....	Putrefaction.

*Swine.*

100 heads	.....	Tuberculosis.
2 plucks	.....	"
1 liver	.....	"
1 mesentery	.....	"
1½ heads	.....	Pyogenic abscesses.
½ head	.....	Fractured jaw and haemorrhage.



1 pluck and all internal organs	Pleurisy and inflammation.
3 pairs lungs	Congestion.
35 livers	Cirrhosis.
9 livers	Echinococcus Cysts.
4 livers	Parasitical.
1 liver	Fatty infiltration.
1 mesentery	Inflammation.

*Fish.*

254-lbs. sprats	Decomposition.
25-lbs. prawns	"
56-lbs. herrings	"
154-lbs. smoked haddocks	"
49-lbs. cod fillets	"
14-lbs. kippers	"
7-lbs. smoked fillets	"

*Other Foods.*

14½-lbs. cooked ham	Decomposition.
3 tins turkey and tongue roll	"

(3) **Carcases Inspected and Condemned.**

	<i>Cattle (exclud- ing Cows)</i>	<i>Cows</i>	<i>Calves</i>	<i>Sheep and Lambs</i>	<i>Pigs</i>	<i>Total</i>
Number killed	348	—	285	1418	2546	4597
Number inspected	348	—	285	1418	2546	4597
<i>All diseases except Tuberculosis—</i> Whole Carcases con- demned	—	—	1	1	—	2
Carcases of which some part or organ was con- demned	12	—	—	7	56	75
Percentage of number inspected affected with disease other than Tuberculosis	3.45 %	—	.35 %	.56 %	2.2 %	1.67 %
<i>Tuberculosis only—</i> Whole carcasses con- demned	—	—	—	—	—	—
Carcases of which some part or organ was condemned	4	—	—	—	137	141
Percentage of number inspected affected with Tuberculosis	1.15 %	—	—	—	5.38 %	3.07 %

(4) **Slaughterhouses.**

Registered Slaughterhouses	.....	.....	.....	3
Licensed Slaughterhouses	.....	.....	.....	4

The registration of slaughterhouses ceased to have effect at the end of the year and in 1940 all slaughterhouses, whether previously licensed or registered, will be licensed annually under the provisions of the Food and Drugs Act, 1938.

**Section F.**

**Prevalence and Control over Infectious and other Diseases.**

**Prevalence of Notifiable Infectious Diseases :**

There was a decrease in the number of cases notified during the year, 32 cases having been notified as against 35 in the previous year.

	<b>Scarlet Fever.</b>		<b>Diphtheria.</b>	
	<i>England and Wales</i>	<i>Borough of Basingstoke</i>	<i>England and Wales</i>	<i>Borough of Basingstoke</i>
1932	84,982	36	43,357	3
1933	129,520	62	47,454	17
1934	152,063	51	68,763	23
1935	120,462	37	65,099	12
1936	104,855	22	57,791	5
1937	95,731	10	61,339	3
1938	99,273	19	65,047	6
1939	77,912	10	47,451	13

There were no deaths from diphtheria and not one of the notified cases had received immunisation. Twelve of the cases were admitted from a Home for Mentally Defective children in the Borough but boarded-out from other districts.

Measles and Whooping Cough were made notifiable under the Measles and Whooping Cough Regulations, 1939, which came into force in October. Medical practitioners were informed of the provisions of these Regulations and were provided with books of notification forms. No notifications had been received up to 31st December.



## Analysis of Age Groups of Notified Cases of Infectious Diseases.

(Other than Tuberculosis).  
1939.

DISEASE	Under 1 year	1-2	2-3	3-4	4-5	5-10	10-15	15-20	20-35	35-45	45-65	65 and over	Total	Ad- mitted to Isol'n Hosp.	Total Deaths
Scarlet Fever .....	-	-	-	-	1	3	2	-	3	1	-	-	10	7	-
Diphtheria .....	-	-	-	1	1	4	5	1	1	-	-	-	13	13	-
Pneumonia .....	-	1	2	-	-	1	-	1	1	-	-	1	7	-	1
Erysipelas .....	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
Acute Anterior. Poliomyelitis .....	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-

**NOTES.**—The notifications of Pneumonia do not agree with the Registrar-General's return of deaths from this disease. Of eight deaths one only had been notified.  
Scarlet Fever.—One evacuee child (aged 5).

### Isolation Hospital.

The number of cases admitted during the year is analysed into districts and age-groups in the following table :—

AGE PERIODS	Borough		<i>Basingstoke Rural District</i>		<i>Kingsclere &amp; Whitchurch Rural District</i>		TOTAL	
	S.F.	Diph.	S.F.	Diph.	S.F.	Diph.	S.F.	Diph.
Under 1 year								
1—2								
2—3								
3—4		1						1
4—5	1	1			1		2	1
5—10	1	4	6	2	8		15	6
10—15	1	3	2		2		5	3
15—20		2			2		2	2
20—35	1	3					1	3
34—45	1						1	
							26 +	16
TOTALS	5	14	8	2	13		42	

Seven cases of infectious disease were admitted and treated at other Isolation Hospitals as follows :—

Scarlet Fever.—1 to Aldershot ; 1 to Winchester ; and 1 to Weyhill (Andover).

Diphtheria.—3 to Abingdon.

Anterior Poliomyelitis.—1 to Alton.

The question of extension of the Isolation Hospital by the erection of cubicle wards has been given every attention by both the Health, and Finance and General Purposes Committees, and fully discussed. Plans were prepared by the Borough Surveyor and submitted to the Ministry of Health, but owing to the outbreak of war the scheme has had to be postponed.

### Artificial Immunisation Against Diphtheria.

The present scheme was commenced by the Medical Officer of Health in 1934, and has been continued up to the present time ; treatment being given to pre-school children of one year and upwards and to school children to the age of 14 years.



T.A.F. (Burroughs Wellcome & Co.)  
(Three injections of 1 c.c. each).

Age Groups	Number of Injections given						Total No. of Children	Total No. of Injections
	Male			Female				
	1	2	3	1	2	3		
Under 2 years	1	1	7	1	2	6	18	47
2—5 years	3	1	11	6	2	5	28	63
6—14 years	8	9	46	6	4	42	115	304
TOTALS	12	11	64	13	8	53	161	414

A.P.T. (Burroughs Wellcome & Co.)  
(Two injections of 0.2 and 0.4 c.c.).

Age Groups	Number of Injections given				Total Number of Children	Total Number of Injec- tions
	Male		Female			
	1	2	1	2		
Under 2 years.....	—	21	1	23	45	89
2—5 years .....	1	20	3	32	56	108
6—14 years .....	—	5	1	9	15	29
TOTALS.....	1	46	5	64	116	226

Total number of children who have completed the full course of injections since 1934 ..... 1026

Total number of injections given to children by the M.O.H. since 1934 ..... 3163

A number of children did not complete the full course of injections on account of leaving the town and for other reasons.

It is very satisfactory to note that during the past five years no child in the Borough who has the full course of prophylactic, has been notified as suffering from diphtheria. When, on an average there are 60,000 cases notified every year in England and Wales, with an average of 3,000 deaths of children under 15 years, there is definite proof that diphtheria is a preventable disease.

## TUBERCULOSIS.

New Cases and Mortality during 1939.

AGE	NEW CASES (12)				DEATHS (6)			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	Male	Fem'le	Male	Fem'le	Male	Fem'le	Male	Fem'le
0 years								
1 year				1				
5 years								
15 years	1		1					
25 years	3	1			1	2		
35 years		1			1			
45 years								
55 years	1	1			1			
65 years and over	1		1		1			
TOTALS	6	3	2	1	4	2		

Four of the deaths occurred in Institutions outside the district, including one admitted from the Common Lodging House.

The register shows that the number of persons ordinarily resident in the Borough on 31st December, 1939, suffering from Tuberculosis was :—

		Males.	Females.	Total.
Respiratory	.....	26	15	41
Non-respiratory	.....	5	7	12

### Annual Report of the Borough Sanitary Inspector.

*Mr. Mayor, Aldermen and Councillors.*

I have pleasure in presenting my Annual Report respecting Public Health Work carried out in the Borough during the year 1939.

Having regard to the international situation, and with a view to economy, it is my intention to deal briefly with the matter, thereby giving statistics only.

This is the fourth Annual Report it has been my privilege to submit.



## Notices.

395 notices, written and verbal, were served during the year.

No statutory notices have been served during the period.

## Complaints.

During the year 174 complaints have been received.

**Table I. Sanitary Inspection of the Area.**

### Classified Statement of number of Premises Inspected :

Housing and Public Health Acts	.....	.....	392
Number of re-inspections	.....	.....	615
Work in progress	.....	.....	782
Infectious diseases	.....	.....	29
Slaughterhouses and food premises	.....	.....	1773
Dairies and cowsheds	.....	.....	57
Common lodging house	.....	.....	4
Public conveniences	.....	.....	60
Offensive trades	.....	.....	3
Stable premises	.....	.....	3
Tents, vans and sheds	.....	.....	3
Factories	.....	.....	84
Shops Acts	.....	.....	306
Petroleum Acts	.....	.....	41
Watercourses	.....	.....	135
Overcrowding	.....	.....	6
Miscellaneous visits and interviews	.....	.....	942
Knackers yards	.....	.....	3
Schools (elementary)	.....	.....	6
Rats and Mice Destruction Act	.....	.....	22
			<hr/>
			5266

### Drainage—

Water test applied	.....	.....	32
Smoke test applied	.....	.....	6

### Infected Rooms and Articles—

Rooms disinfected	.....	.....	49
Lots of bedding disinfected	.....	.....	24
Lots of bedding destroyed	.....	.....	3
Lots of clothing disinfected	.....	.....	1
Books disinfected	.....	.....	45

**Table II. Defective Conditions Remedied.**

### Water Supply—

Fittings repaired	.....	.....	9
Taps on main	.....	.....	18

**Water Closets—**

Reconstructed or new provided .....	8
New pans fixed .....	121
Defective flush pipes repaired .....	113
Cisterns repaired or renewed .....	32
Apartments lighted, ventilated, etc. ....	37
Walls, floors, roofs, etc., repaired .....	80

**Soil Pipes—**

New provided .....	2
Repaired or renewed .....	4

**Drains—**

Reconstructed .....	18
Cleansed .....	28
Repaired .....	145
New gullies provided .....	55
Intercepted from sewer .....	1
Rainwater pipes disconnected .....	1
Cesspools cleansed or repaired .....	1

**Manholes—**

New provided .....	17
Repaired and covers renewed .....	7

**Ventilation Shafts—**

New provided .....	1
Repaired .....	1
Fresh air inlets .....	11

**Sinks and Waste Pipes—**

New sinks provided .....	53
Waste pipes renewed .....	55
Waste pipes trapped .....	55
New dustbins provided .....	73

**Yard Paving—**

Repaired .....	61
Newly paved .....	25
Drained .....	46

**Dampness—**

Roofs repaired .....	38
Gutters and rainwater pipes repaired .....	51
External walls pointed and repaired .....	100
Window and door reveals repaired .....	52



## General—

Walls and ceilings repaired	226
Rooms cleansed	306
Verminous rooms cleansed	41
Verminous bedding cleansed or destroyed	7
Stairs repaired	29
Windows and doors repaired, etc.	170
Windows made to open	14
Floors repaired	121
Stoves repaired	45
Defective and smoky chimneys	11
Coppers repaired	9
Food stores provided	49
Food stores repaired, cleansed, etc.	10
Coal stores repaired, etc.	11
Accumulations removed	6
Rat nuisance abated	4
Rooms ventilated	32

## Stables—

Premises cleansed	1
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## Urinals—

Repaired or cleansed	4
New provided	1

## Other Matters—

Cowsheds cleansed, etc.	4
Dairies cleansed, &c.	3
Slaughterhouses cleansed, etc.	5
Shop premises cleansed, etc.	2
Animals improperly kept	1
Yards cleansed	1
Watercourses cleansed	78
Unclassified	4

**Table III. Inspections of Factories.**

(1) Inspections for the purposes of provisions as to health :—  
During the year 84 visits were made.

### (2) Defective Conditions Remedied.

Cleansed or limewashed	29
Ventilation	1
Unsuitable or defective W.C.	2

**Table IV. Showing number of Homeworkers on Register.**

Tailoresses	.....	.....	.....	.....	.....	8
Tailors	.....	.....	.....	.....	.....	3
Glovemaking	.....	.....	.....	.....	.....	1

**Rats and Mice (Destruction) Act, 1919—**

During the year 12 complaints were received and 22 visits were made to rat infested premises.

**Slaughter of Animals Act, 1933.**

During the year 21 licences were granted to slaughtermen in the Borough.

**Shops Acts, 1912—1936.**

In all, 306 visits were made to shops on week-days and Sundays.

**Petroleum (Consolidation) Act, 1928.**

The total number of premises in respect of which licences were issued during the year, for permission to keep Petroleum Spirit, Petroleum Mixtures and Carbide of Calcium was 72.

Total Fees received for the above licences was £50 15s. 0d

WM. J. TILEY,  
M.S.I.A., A.R.San.I.  
*Borough Sanitary Inspector.*



Table 1. Summary of the results of the analysis of variance for the different factors studied. The values in parentheses indicate the degrees of freedom for each factor.

The analysis of variance was performed using the method of least squares. The results are presented in Table 1. The values in parentheses indicate the degrees of freedom for each factor.

The results show that the different factors studied have a significant effect on the response variable. The most significant factors are the temperature and the concentration of the solution.

The temperature has a significant effect on the response variable (F = 10.5, p < 0.05). The concentration of the solution also has a significant effect (F = 8.2, p < 0.05).

The interaction between the temperature and the concentration of the solution is also significant (F = 5.8, p < 0.05).

The other factors studied (pH, time, etc.) do not have a significant effect on the response variable.





EASTLEIGH LIGHTING WKS. HIGH ST. EASTLEIGH, HANTS.