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CITY OF WAKEFIELD.



ANNUAL REPORT

OF THE

MEDICAL OFFICER

OF HEALTH

FOR THE YEAR 1940.



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PUBLIC HEALTH DEPARTMENT,
TOWN HALL CHAMBERS,
KING STREET,
WAKEFIELD.

9th September, 1941.

*To the Mayor, Aldermen and Councillors
of the City of Wakefield.*

MR. MAYOR, LADIES AND GENTLEMEN,

I beg to present my Report for the year 1940.

An endeavour has been made to keep the Report as brief and concise as possible while at the same time giving information on all the activities of the Public Health services.

I wish to take this opportunity of expressing my thanks to all members of my staff for their continued co-operation and hard work during a very difficult year, and also I wish to acknowledge the assistance I have received in the compilation of this Report, particularly from Dr. Eeles, Mr. W. Roberts (Chief Sanitary Inspector) and Mr. C. G. Tomlinson (Chief Clerk).

I am,

Yours faithfully,

FRANK ALLARDICE,

Medical Officer of Health.

PUBLIC HEALTH STAFF.

Medical Officer of Health, School Medical Officer, Tuberculosis Officer, Medical Superintendent of Municipal Hospitals.	Frank Allardice, M.D., Ch.B. (Edin.), D.P.H. (Edin.)
Deputy Medical Officer of Health (on Military Service)	Alan C. Stevenson, B.Sc., M.B., Ch.B. (Glasgow), L.R.C.P., L.R.C.S. (Edin.), L.R.F.P. and S.G., M.R.C.P. (London), D.P.H. (London)
Deputy Medical Officer of Health (temporary)	Lionel W. Bradshaw, L.R.C.P., L.R.C.S., L.R.F.P. and S.G.
Assistant Medical Officer of Health and Assistant Medical Officer for Maternity and Child Welfare; Resident Obstetrician, Maternity Hospital.	Jessie Eeles, M.D., Ch.B. (Edin.)
Junior Assistant Medical Officer	S. A. Hugh Lesser, M.A. (Cantab.), M.B., B.Ch. (Cantab.), M.R.C.S. (Eng.), L.R.C.P. (London). (commenced 1/2/40).
School Dental Officer	G. S. Cubitt, L.D.S., R.C.S. (Eng.)
Consultant Obstetric Surgeon (part-time)	W. Gough, F.R.C.S. (Eng.), M.R.C.S., L.R.C.P. (Lond.)
Dental Officer to the Ante-Natal Clinics (part-time)	W. Crook, L.D.S., R.C.S. (Eng.)
Consultant Orthopaedic Surgeon (part-time)	H. L. Crockatt, M.B., Ch.B. (Leeds).
Public Analyst (part-time)	F. W. Richardson, F.I.C.
Chief Sanitary Inspector and Canal Boats Inspector	William Roberts (<i>a</i> , <i>b</i>).

Deputy Senior Sanitary Inspector	John P. Whitehead (<i>b, c</i>).
District Sanitary Inspectors	Herbert H. Johnson (<i>b, c</i>). Leslie J. Carter (<i>b, c</i>). George Cayton (<i>b, c</i>). John Holmes (<i>b, c</i>).
Senior Health Visitor ; School Nurse and Tuberculosis Nurse	Sarah S. Thorp (<i>a, d, e, g, h</i>).
Health Visitors, School Nurses and Tuberculosis Nurses	Hilda Staniforth (<i>a, e, f, g, h</i>). Hilda Robertshaw (<i>f, g, h</i>). Maggie Dearden (<i>f, g, h</i>). Jennett Gardner (<i>f, g, h</i>). Hannah Bell (<i>f, g, h</i>).
Orthopaedic and Ultra-Violet Ray Clinic Nurse	Olive I. Burton, C.S.M.M.G. (<i>M., R.E. and M.E.</i>).
Matron, City Fever Hospital	A. J. Peck (<i>j</i>).
Matron, Maternity Hospital	Kate P. Perkins (<i>f, g</i>).
Municipal District Midwives	Mrs. M. Bodkin (<i>g</i>). (died 6/1/40) Elizabeth A. Halls (<i>f, g</i>). Elsie M. Marshall (<i>g</i>). Minnie Hanby (<i>f, g</i>). Ida Lessons (<i>f, g</i>). (commenced 14/3/40).
School Clinic Nurse	Louie Milner (<i>f, g</i>).
Chief Clerk and Vaccination Officer	Ronald Shaw (resigned 5/8/40) H. F. Rickett (commenced 9/9/40, resigned 14/11/40). Charles G. Tomlinson, B.A. (Admin.) (commenced 25/11/40).
Deputy Chief Clerk (Military Service 19/12/40)	Kenneth Birdsall.
Clerks	Herbert W. Tate (School Medical). Beatrice Lake.

Clerks

Thomas P. McKniff (Military Service).
 Phyllis Goldthorpe.
 Ronald Justice (Military Service).
 John W. Foster.
 Irvine I. Mosby (temporary).
 Lois Berry (temporary).
 Mary E. Reynolds (P.C.W.C.)
 *Roland Murgatroyd (Military Service).
 *Alwyne Firth (Military Service).
 *Margaret E. Richardson.
 *Marjorie Allenby (temporary).

- (a) Certificate of Royal Sanitary Institute for Inspector of Nuisances.
- (b) Certificate of Royal Sanitary Institute for Inspector of Meat and Other Foods.
- (c) Certificate of Royal Sanitary Institute for Sanitary Inspectors.
- (d) Certificate of Royal Sanitary Institute for Maternity and Child Welfare.
- (e) Certificate of Royal Sanitary Institute for Health Visitor and School Nurse.
- (f) Trained Nurse.
- (g) State Certified Midwife.
- (h) New Certificate of R.S.I. for Health Visitors.
- (i) Trained Fever Nurse.
- * Sanitary Inspector's Office.

GENERAL STATISTICS.

Area (in acres)	5,300
Population (a) Census, 1931	59,311
(b) Registrar-General's estimate, mid-year, 1940 (civilians only)	56,050

Number of inhabited houses.	
(a) Census, 1931	14,259
(b) End of 1940, according to Rate Books	16,000

Rateable Value, 1st April, 1940	£381,666
---	----------

Sum represented by a penny rate, 1940-41 .. £1,486 11s. 5d.

	Total	M.	F.
Registered Live Births : Legitimate	778	410	368
Illegitimate.. .. .	34	15	19
	<u>812</u>	<u>425</u>	<u>387</u>

Birth-rate per 1,000 estimated population	14.5 15.5
---	-------------------------

	Total	M.	F.
Still-births.. .. .	30	15	15

Still-birth rate per 1,000 (live and still) births	36
--	----

	Total	M.	F.
Deaths	759	399	360

Crude Death-rate per 1,000 population	13.5
---	------

Comparable Death-rate	14.4
-------------------------------	------

Maternal Deaths :—

Puerperal Infection	1	Rates per 1,000 total (live and still) births	1.19
Other puerperal causes	2		2.38
Total	<u>3</u>		<u>3.56</u>

Deaths of Infants under 1 year of age :—

All infants.. .. .	49	Rate per 1,000 live births	60
Legitimate infants	48	Rate per 1,000 leg. live births	62
Illegitimate infants	1	Rate per 1,000 illeg. live births	29

Deaths from Cancer (all ages)	..	..	..	..	102
Deaths from Measles (all ages)	..	..	..	..	—
Deaths from Whooping Cough (all ages)	..	..	..	..	—
Deaths from Diarrhoea (under 2 years)	..	..	..	..	5

Population.

The civilian population at the middle of 1940, as estimated by the Registrar-General, was 56,050. The natural increase in population, i.e. the excess of births over deaths for the year was 53.

Births.

Excluding non-residents, the total number of live births registered in the City during 1940 was 792. The Registrar-General's total figure, including births in respect of residents confined outside the City, was 812 as compared with 799 for the previous year. The birth-rate per 1,000 of the population for 1940 was therefore ~~15.5~~ ^{14.5} as compared with 13.5 in 1939 and 16.3 in 1938.

Of the live births 34 (4.1 per cent.) were illegitimate. The net number of still-births registered was 30.

Notifications of births totalled 969, including 36 still-births.

Deaths.

During the year 1940 the total deaths registered in Wakefield numbered 1039. Of these, 311 were deaths of persons ordinarily resident outside the City. The net deaths amounted to 759, giving a death-rate of 14.4 per 1,000 of the population. The corresponding figures for 1939 and 1938 were 14.3 and 13.4 respectively.

The death-rate of 14.4 compares with 14.3 for England and Wales and 17.8 for London.

More than 48 per cent. of the deaths occurred in persons over 65 years of age. The principal causes of death were as follows :—

	<i>No. of deaths</i>	<i>Percentage of total deaths</i>
Heart Disease	210	27.7
Cancer	102	13.4
Cerebral haemorrhage, etc.	83	10.9
Pneumonia.. .. .	48	6.3

Table III. gives details of all deaths belonging to the City as they occurred in age-groups and wards.

Infant Mortality.

The number of deaths of infants under one year of age was 49 (27 males and 22 females), giving an infant mortality rate of 60 per 1,000 live births compared with 57 in 1939 and 60 in 1938. The corresponding rates during 1940 for England and Wales and for the County Boroughs and great towns were 55 and 61 respectively.

The neo-natal mortality rate (i.e. during the first four weeks of life) was 36 as compared with 38 in 1939 and 43 in 1938.

The causes of infant deaths were as follows :—

Premature birth	..	..	..	..	..	..	13
Congenital malformation, birth injury, infantile disease..							14
Pneumonia	..	..	..	..	..	..	9
Diarrhoea	..	..	..	..	..	..	5
Bronchitis	..	..	..	..	..	..	3
Influenza	..	..	..	..	..	..	1
Other causes	..	..	..	..	..	..	4
							—
							49
							==

Maternal Mortality.

Three maternal deaths belonging to Wakefield occurred in 1940, two being in the Maternity Hospital and one in a dwelling-house. In addition one non-resident died in the Maternity Hospital. The maternal mortality rate of 3.56 per 1,000 total (live and still) births compares with 2.16 for the country as a whole.

GENERAL PROVISION OF HEALTH SERVICES.

Laboratory Facilities.

These were fully described in my report for 1938 and there have been no changes. It has not been necessary to call upon the aid of the Emergency Laboratory Service of the Ministry of Health.

Ambulance Facilities.

These remain as described in my reports for 1938 and 1939.

Nursing in the Home.

There were no changes during the year under review.

Clinics and Treatment Centres.

<i>Situation.</i>	<i>Days and Hours.</i>
Principal Child Welfare Centre, 15 Margaret Street	Monday to Thursday, 2 p.m. to 4 p.m.
Manygates Child Welfare Centre, Barnsley Road	Tuesday, 2 p.m. to 4 p.m.
Snapethorpe Hall Child Welfare Centre	Wednesday, 2 p.m. to 4 p.m.
Ante-Natal Clinic, Maternity Hospital	Monday, 2 p.m. to 4 p.m. Wednesday, 10 a.m. to 12 noon Thursday, 10 a.m. to 11.30 a.m.
Ante-Natal Clinic, Principal Child Welfare Centre	Friday, 2 p.m. to 4 p.m.
Post-Natal Clinic, Maternity Hospital	Monday, 2 p.m.
Tuberculosis Dispensary, Almshouse Lane	Thursday, 2 p.m. to 4 p.m. and 6.30 p.m. to 7.30 p.m.
Venereal Diseases Clinic, Clayton Hospital	<i>Men.</i> Wednesday, 5.30 to 7.30 p.m. Friday, 10 a.m. to 12 noon. <i>Women and Children.</i> Monday, 4 to 6 p.m. Wednesday, 10 a.m. to 12 noon. Friday, 3 to 5 p.m.
Orthopaedic Clinic, Principal Child Welfare Centre.	By appointment.
Anti-Diphtheria Immunisation Clinic, Principal Child Welfare Centre	Monday afternoon, by appoint- ment.
School Clinics, Town Hall Chambers :	
Minor Ailments	Monday to Saturday, 10 a.m.
Dental	Daily by appointment.
Ophthalmic	By appointment.
Minor Ailments :	
Snapethorpe C. School	Daily, 9 a.m.
Manygates C.W. Centre	Daily, 9 a.m.

Hospitals, Public and Voluntary.

The public and voluntary hospitals in Wakefield are as follows :—

1. The Municipal Hospital for Infectious Diseases.

This hospital contains accommodation for 97 patients and includes a tuberculosis pavilion of 16 beds, a cubicle block of 12 beds and a discharge block of 4 beds. Particulars of the patients treated during 1940 are given in the section of this report dealing with infectious diseases.

2. The Municipal Maternity Hospital.

This provides accommodation for 33 patients and there are also two isolation beds. Ante-natal, post-natal and child welfare clinics are provided in the attached clinic block, where the dental treatment of expectant mothers is also carried out. Details of the year's work are given in the Maternity and Child Welfare section of this report.

3. The West Riding Mental Hospital.

This hospital contains 2,435 beds and is controlled by the West Riding Mental Hospitals Board.

4. The White Rose County Hospital.

This hospital is administered by the West Riding County Council and contains 168 beds.

5. The Clayton Hospital and General Dispensary.

This is a voluntary general hospital and contains 187 beds and 17 cots.

Maternity and Nursing Homes.

As stated in previous reports, there are two private maternity homes in the City but no nursing homes. The maternity homes are inspected periodically by the Assistant Medical Officer for Maternity and Child Welfare.

SANITARY CIRCUMSTANCES OF THE AREA.

Water Supply.

There were no alterations during 1940, but additional precautions against contamination have been taken, including further chlorination. I am indebted to the Waterworks Engineer for this information.

Sewage and Refuse Disposal.

I am informed by the City Engineer that there are no changes to report in this connection, except that articles are separated for salvage.

SANITARY INSPECTION OF THE AREA.

(By William Roberts, Chief Sanitary Inspector).

DETAILS OF INSPECTIONS MADE.

The term "inspection" refers to the primary visit made to the premises. A "reinspection" is a visit made after a notice has been given for the remedying of a defect, to ascertain the action taken to comply with the notice.

Total number of inspections made	19,156
--	--------

Total number of reinspections made	1,379
--	-------

Dwelling-houses.	<i>Primary Inspections</i>	<i>Re- inspections</i>
Ordinary	1159	46
Re Notifiable Disease.. ..	182	61
Housing Consolidated Regulations, 1925	—	11
Housing Act, 1936 (Special Surveys, Clearance, etc., Areas)	1	591
Housing Act, 1936 (Provisions as to Overcrowding, etc.)	12	114
Applications for Municipal Houses ..	592	—

Sanitary Conveniences.

Water Closets	591	79
Privies and Pail Closets	42	—
Urinals	77	—

Refuse Storage.

Ashplaces	154	33
Ashbins	261	38

Drains.

Inspections	179	27
Chemical Tests.. ..	2	—
Smoke Tests	6	—

Sewers, etc.

Sewers	50	21
Street Gullies	134	268

Factories.

Factories (with mechanical power) ..	53	3
Factories (without mechanical power)	9	13
Other premises (including restaurant kitchens and stables)	35	11
Outworkers	1	—

Food Storage, Preparation, etc.

Bakehouses (with mechanical power)	38	—
Bakehouses (without mechanical power)	18	1
Butchers' Shops, Stalls, etc... ..	123	—
Cowsheds	72	3
Dairies, Milk Shops, Milk Stores ..	316	2
Fishmongers' Shops and Stalls ..	125	—
Fruit and Vegetable Shops and Stalls (including Hawkers' Stores) ..	56	—
Fish Frying Premises	145	—
General Provisions Shops and Stores	130	—
Ice Cream Premises	32	5
Markets (Borough)	133	—
Meat and Fish Product Manufacturers	112	—
Slaughterhouses (Borough)	407	—
Slaughterhouses (Private)	119	—

Miscellaneous.

Common Lodging Houses	18	—
Canal Boats	24	—
Dangerous Structures	3	—
Entertainment Houses	15	—
Houses let in lodgings	5	—
Meetings with Owners and Tradesmen	505	—
Miscellaneous (including Cesspools, Water Courses, Refuse Tips, etc.)	45	—
Offensive Trades (excluding Fish Fryers)	11	—
Piggeries	24	—
Special Notices of Slaughter	20	—
Smoke Observations	19	—
Schools	22	—
Shops (Shops Act)	30	29
Streets or Back Roads	1	—
Special Visits (not classified) ..	12,962*	—

Van Dwellings	12	—
Visits to Premises <i>re</i> Rat Infestation	134	6
Yards and Courts	272	14
Hairdressers' Premises	6	2

* In connection with the Government Evacuation Scheme, a large number of Special Visits were made throughout the City to ascertain the accommodation available for the billeting of evacuees and other persons.

Notices Served.

Informal Notices served	387
Informal Notices complied with	378
Statutory Notices served	66
Statutory Notices complied with	43
Notices outstanding at end of 1940	32
Notices served under S.125, Wakefield Corporation Act, 1924, <i>re</i> Ashbins.. .. .	130
Verbal Notices given and complied with for the remedy of Defects, etc.	241
Letters sent	630
Matters referred to the City Engineer	226
Matters referred to the Waterworks Engineer	9
Complaints received	648
Complaints confirmed.. .. .	576
Nuisances found	122

SUMMARY OF SANITARY IMPROVEMENTS EFFECTED.

Dwelling-houses.

Cleansed or limewashed	31
Vermin infested (disinfested)	35
Overcrowding abated	—
Dampness remedied	—
Roofs repaired	44
Eaves spouts or down spouts repaired	51
Rain water fall pipes disconnected.. .. .	5
External walls, chimneys repaired or repointed	10
Inside walls, ceilings, etc., repaired	57
Lighting improved	1
Ventilation improved	4
New floors laid or repaired	15
Fireplaces, ovens or set pots repaired	33
Food stores provided or improved	2
Washing accommodation provided or improved	8

Coal Stores improved..	..	..	..	..	2
Doors repaired ..	..	..	..	..	7
Water supply improved	..	..	..	..	—
Yards paved ..	..	..	..	..	—
Yards cleansed..	..	..	..	..	4
Dangerous structures removed	..	..	..	..	3

Drains.

Repaired ..	..	..	..	..	13
Reconstructed ..	..	..	..	..	2
Inspection chambers constructed	..	..	..	..	1
Drains choked ..	..	..	..	..	213
Drains cleansed by owners	..	..	..	..	213
Drains ventilated ..	..	..	..	..	1
New drains provided ..	..	..	..	..	1

Sinks.

New sinks provided ..	..	..	..	..	9
Sink waste pipes trapped	..	..	..	..	1
Sink waste pipes repaired	..	..	..	..	13
Other waste pipes repaired	..	..	..	..	1

Water Closets.

Cleansed or limewashed	..	..	..	..	19
Repaired ..	..	..	..	..	137
Reconstructed ...	..	..	..	..	1

Urinals.

Cleansed or improved..	..	..	..	..	1
Repaired ..	..	..	..	..	1

Accumulations Removed.

Manure ..	..	..	..	..	18
Other ..	..	..	..	..	14
Manure receptacles provided..	..	..	..	..	3

Animals, Poultry, etc.

Nuisances abated	4
---------------------	----	----	----	----	---

Ashbins and Ashplaces.

Moveable galvanised iron ashbins renewed (at shops, Stores, etc.)	..	..	..	..	5
Moveable galvanised iron ashbins provided in lieu of ashpits ..	..	..	..	..	124
Dry ashpits abolished..	..	..	..	..	25

Closet Accommodation.

The total closet accommodation in the City is as follows :—

Water Closets (including 225 trough water closets)	17,960
Privies	30
Pail Closets	12

REFUSE STORAGE ACCOMMODATION.

The following is a summary giving details of the operation of the provision of section 125 of the Wakefield Corporation Act, 1924 :—

Total number of ashbins operating under the maintenance scheme at the end of 1939	3,145
Number of ashbins placed on maintenance during 1940 :—	
Ashbins supplied by the Corporation	294
Ashbins supplied by owner	14
	<hr/> 308
Ashbins discontinued due to demolition of properties during 1940	17
Total number of ashbins in City on maintenance at end of 1940	<hr/> 3,436
Number of ashbins renewed at properties under maintenance scheme during 1940	98
Number of dry ashplaces abolished during 1940 ..	<hr/> 25

CANAL BOATS.

During 1940, 24 Canal Boats were inspected. The boats were occupied by 39 adult males, 4 adult females and 2 boys and 4 girls under 14.

Infringements of the Regulations were detected in 10 instances as follows :—

Registration number not painted on boat ..	2
Certificate not identifying the boat	1
Cabins require repainting	4
Broken floorboards in after cabin	1
Leaking deck	1
Defective woodwork of fore bulkhead	1

No boats were registered during the year and the number on the register remains at 6.

COMMON LODGING HOUSES.

Number on Register at end of 1940	6
For both sexes.. .. .	3
For men only	3
Number of persons for which registered	328

The houses have been regularly inspected throughout the year and it has been necessary for defects to be remedied in 3 instances.

HOUSES LET IN LODGINGS.

Number on Register at end of 1940	9
Total accommodation (adults) at the end of 1940..	239

INSPECTION OF MILK AND FOOD.

The control of food passed to a separate Ministry immediately after the outbreak of War, but Health Departments were asked to continue the sampling of foodstuffs.

While much time during the year has had to be devoted to matters in connection with the War, the control of cleanliness and quality of milk and foods has continued to receive a reasonable amount of attention. Cowsheds and dairies have been inspected at frequent intervals throughout the year, and in addition the cows have been subjected to inspection by veterinary officers of the Ministry of Agriculture and Fisheries.

It has generally been found that the several cowsheds and dairies have been maintained in a satisfactory condition. In spite of many war-time difficulties which have added to the task of producing clean milk, it is gratifying to report that the cleanliness of the milk supply has been maintained. This is strongly borne out by the results of the Bacteriological Examinations of the samples submitted to the County Laboratory.

A special endeavour has also been made in obtaining samples for chemical analysis. Results reveal that no serious adulteration of the samples of milk and other foods has been found.

MILK SUPPLY.

Registration of Cow-Keepers, etc.

Cow-keepers and milk purveyors resident in the City	16
Milk purveyors resident in the City (including 120 who are registered to sell milk from a shop in sealed bottles only)	164
Milk purveyors from districts outside the City ..	36
Milk purveyors added to the Register during the year	14
Milk purveyors who have discontinued business during the year (one from outside the City) ..	19

Bacteriological Examination of Milk.

During the year, 79 samples of the several grades of milk were submitted to the County Health Department Laboratory for bacteriological examination. The results of the examination of the samples were as follows :—

Total	Grade	Inside City		Outside City	
		Satisfactory	Unsatisfactory	Satisfactory	Unsatisfactory
7	Pasteurised ..	4	1	2	—
5	Accredited ..	3	—	1	1
65	Ordinary	14	5	24	22
—	Sterilised	—	—	—	—
2	Tuberculin Tested	—	—	1	1

All 79 samples were examined by inoculation for tuberculosis infection, and 1 sample, or 1.27% gave positive results as against 3.03% in 1939. The sample was produced inside the City. The result of this examination was sent to the Divisional Veterinary Officer of the Ministry of Agriculture and Fisheries.

The results of samples submitted for bacteriological examination show that of the 79 samples, 49 or 62.03% were reported to be satisfactory, all of which came within the standard of that required for "Accredited" milk.

Milk (Special Designations) Orders, 1936, 1938.

Number of licences in operation during 1940 .. 20

Licences issued under the following conditions :—

- 5 licences to retail Tuberculin Tested (Certified) Milk
(1 is a supplementary licence).
- 3 licences are to produce Accredited Milk.
- 3 licences are to produce and bottle Accredited Milk.
- 1 licence is to bottle and sell Accredited Milk.
- 4 licences are to retail Accredited Milk (3 are supplementary licences).
- 1 licence is to pasteurise milk.
- 3 licences are to retail pasteurised milk (2 are supplementary licences).

1 dealer's licence to retail Accredited Milk was not renewed.

FOOD AND DRUGS ACT, 1938.**ANALYSIS OF FOOD AND DRUGS.**

During the year, 243 samples (168 formal, 75 informal) of food and drugs were submitted to the City Analyst (Mr. F. W. Richardson, F.I.C.) at the laboratory situated in Bradford, for analysis under the above Act.

This number represents 4.3 samples for each thousand of the population of the City (i.e. 56,000) being more than the proportion suggested by the Minister of Health, which is 3 per thousand.

Appended below is a comparative table giving details of adulterated samples for the past 5 years.

TOTAL SAMPLES				MILK SAMPLES		
Year	Number Examined	Number Adulterated	Percentage adulterated	Number Examined	Number adulterated	Percentage Adulterated
1936	222	24	10.81	128	16	12.5
1937	230	19	8.26	144	17	11.81
1938	267	23	8.61	163	21	12.88
1939	231	29	12.55	137	23	16.8
1940	243	28	11.52	168	25	15.00

SLAUGHTERHOUSES.

The Food and Drugs Act, 1938, came into force on the 31st October, 1939, and amended the law as to the licensing of slaughterhouses. Previous to the operation of the Act, the following slaughterhouses were occupied in the City :—

Registered Slaughterhouses	..	..	..	6
Licensed Slaughterhouses	..	..	..	14
				—
Total	..	..	..	20
				==

Section 57 of the Act requires registered slaughterhouses or slaughterhouses registered without time limit, to be licensed with the local authority.

The occupiers of the 20 slaughterhouses made application for licences, and after consideration, 12 licences were granted in 1940. 3 licences were refused, and in the case of the remaining 5 slaughterhouses, the occupiers were allowed to carry out improvements prior to the issue of licences. At the end of the year, in no instance had the work referred to been completed.

A total of 20 special notices to slaughter animals outside general slaughtering hours was received during the year.

Slaughter of Animals Act, 1933.

A total of 68 licences were issued during the year, 60 by way of renewal, and in 8 cases new licences were granted.

Meat and Food Inspection.

By the Licensing (Restriction of Slaughter) Order, 1940, the control of slaughtering passed into the hands of the Ministry of Food in January, 1940. Where centralised slaughtering takes place within the area of the Local Authority, the duty of maintaining an efficient Meat Inspectorate rests with that authority.

Since the operation of this Order, Wakefield Public Slaughterhouse has been used as a Central Slaughterhouse by the Ministry of Food for the City of Wakefield and a number of surrounding districts.

It will be observed from the table that a total number of 34,991 animals have been slaughtered since the operation of the Order. This work has taken up a large amount of time and has necessitated the attendance of a Meat Inspector at the abattoir, on an average, three days per week.

Bad and unsound meat, and other foodstuffs, are now salvaged instead of being burned.

Number of Animals Slaughtered in the City during 1940.

Animals	Private Slaughternouses	Borough Slaughterhouse	Ministry of Food Borough Slaughterhouse from 15.1.40	Total
	up to 14.1.40			
Cows	78	157	1748	1983
Heifers	—	—	804	804
Bulls	2	4	41	47
Bullocks	42	79	2301	2422
Calves	4	6	419	429
Pigs	190	166	4726	5082
Sheep	279	589	24952	25820
Total	595	1001	34991	36587

From the above table it will be seen that a total of 36,587 animals were slaughtered in 1940, as against 29,231 in the previous year, being an increase of 7,356.

The number of cows slaughtered has dropped from 3,531 in 1939 to 1,983 during 1940, a reduction of 1,548, but the number of heifers has increased from 166 to 804, and bullocks from 1,843 to 2,422. Sheep show an increase of 8,831 over the previous year. The pigs killed numbered 1,190 less.

Condemnation of Unsound Food.

	<i>No. of Condemnations</i>	<i>Weight (stones)</i>
Meat	2234	4928 $\frac{3}{4}$
Mussels	1	2
Cauliflowers	1	16
Onions	1	126
Bacon	6	80
Tinned goods	9	163 $\frac{1}{2}$
Fish	2	7 $\frac{1}{2}$
Fruit	1	1
Mushrooms	1	1 $\frac{1}{2}$
Boiled ham	1	1
Pigs' intestines.. .. .	1	12
Haricot Beans	1	1
Rabbits	1	2
Sauces and pickles	2	$\frac{1}{2}$
Pigeons	1	$\frac{1}{2}$
Pigs' feet	1	20 $\frac{1}{2}$
Jelly	1	$\frac{1}{2}$
	<hr/> 2265 <hr/>	<hr/> 5364 $\frac{1}{4}$ <hr/>

Where Condemnations Made.

Shops	16
Railway Goods Yard	5
Warehouses	17

Depot	1
Private Slaughterhouses	24
Borough Slaughterhouse	446

Carcases Inspected and Condemned.

	Cattle, exclud- ing Cows	Cows	Calves	Sheep & Lambs	Pigs
Number Killed	3273	1983	429	25820	5082
All Diseases except Tuberculosis—					
Whole carcases condemned	—	6	8	23	7
Carcases of which some part or organ was condemned	223	295	2	147	63
Percentage of the number inspected affected with disease other than tuber- culosis	6.81	15.11	2.36	0.69	1.33
Tuberculosis Only—					
Whole carcases condemned	8	58	—	—	30
Carcases of which some part or organ was condemned	210	818	—	—	336
Percentage of the number inspected affected with Tuberculosis	6.66	44.11	—	—	7.20

Tuberculosis Order, 1938.

During the year, a total of 76 animals was sent into the borough slaughterhouse by the Superintendent Inspector of the Ministry of Agriculture and Fisheries under the Tuberculosis Order, 1938.

A total of 35 whole carcases and 41 part carcases, together with edible offal, were subject to condemnation. The total weight of these condemnations was 9 tons, 19 cwts.

OFFENSIVE TRADES.**Offensive Trades on the Register at the end of 1940.**

Trade.	Number.
Tripe Boiling	3
Gut Scraping	2
Rag and Bone Dealing	3
Fish Frying	62
Total	70

By the terms of Section 107 (6), Public Health Act, 1936, the business of fish fryer has now ceased to be an offensive trade.

Up to the 30th September, 1940, 62 premises were occupied to carry on the business of fish fryer. The premises were conducted in a satisfactory manner.

FACTORIES ACT, 1937.

During the year 62 inspections have been made at factories (53 with and 9 without mechanical power).

HOUSING.

Statistics.

Number of New Houses erected during 1940.

Size of house according to number of habitable rooms.	Total.	Built by Corporation.	Built by Private enterprise.
3 roomed	12	—	12
4 „	29	—	29
5 „	19	—	19
6 „	5	—	5
7 roomed and over ..	2	—	2
Total	67	—	67

All the houses are provided with baths in bathrooms.

Demolitions.

A total of 91 houses in clearance areas were demolished during the year.

The houses were principally those in a dangerous and decrepit condition.

The demolition of these houses rendered it necessary for 45 persons to be displaced. These persons found their own alternative accommodation.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS AND OTHER DISEASES.

The total number of notifications received during the year in respect of infectious diseases other than tuberculosis, and excluding cases where the diagnosis was revised, was 1,669. This includes 1,322 cases of measles. A statistical summary of the cases notified is set out in Table IV. and the work of the Municipal Hospital is summarised in Table V.

Scarlet Fever.

91 cases were notified during 1940 as compared with 244 in the previous year. The average for the previous five years was 199. The number of cases removed to hospital was 73 and there was one death.

Diphtheria.

73 cases were notified during the year, all of which were removed to hospital. The total of 73 compares with 113 for the year 1939 and an average of 124 for the quinquennium 1935-1939. There were 6 deaths.

Enteric Fever.

Two cases were notified during 1940, one of which was removed to the Municipal Hospital. The other occurred in the West Riding Mental Hospital and was treated there. There were no deaths.

Measles.

The full effect of the Measles and Whooping Cough Regulations, which came into operation in October, 1939, was felt in 1940 when 1,322 notifications were received. No deaths were recorded from this disease.

Cerebro-Spinal Fever.

Twelve cases of this disease were reported during the year, eleven of which were removed to hospital. There were four deaths.

Immunisation against Diphtheria.

The special immunisation clinic continues to grow in popularity. The total number of attendances for 1940 was 1,306 as against 1,239 in 1939 and 993 in 1938, while the total number of persons attending increased to 455 in 1940 from 366 in 1939 and 325 in 1938. The work of the clinic is shown in detail in Table VI.

Vaccination.

The vaccination statistics for the years 1939 and 1940 are as follows:—

Number of Births.	Year 1939.					Year 1940.	
	Successfully Vaccinated.	Vaccination postponed, or certified as insusceptible of Vaccination.	Died unvaccinated.	Removed to other districts or places unknown, &c.	Number of declarations of "Conscientious Objection."	Certificates of successful primary vaccination of children under 14 received during the year	Declarations of "Conscientious Objection" received during the year.
959	281	14	49	59	556	383	534

Excluding deaths, removals and postponements, 33.6 per cent. of the children born in 1939 were vaccinated, as compared with 31.1 per cent. in the previous year. Statutory declarations of conscientious objection to vaccination were made in over 66 per cent. of cases.

Dr. W. W. Ballardie was appointed Public Vaccinator for No. 1 District of the City, comprising the whole of Wakefield with the exception of Belle Vue and Sandal Wards, and commenced duty in February, 1940.

Cancer.

Deaths of Wakefield residents due to cancer numbered 102 during the year. The revised classification of causes of death which was adopted as from the beginning of 1940 separates the deaths from cancer under five headings, instead of collecting them under a single heading as before. Particulars will be found in Table III.

As from 1st April, 1940, the City Council resolved to accept financial responsibility for the radium treatment of Wakefield cancer sufferers at the Leeds General Infirmary. Both in-patient and out-patient treatment are available. When a patient is a member of a hospital contributory scheme part of the cost is borne by the fund in question and the Corporation does not attempt to recover any portion of the balance from the patient. In the case of patients who are non-contributors the question of recovery is considered by the Health Committee who assess each case on its merits.

Only four cases were accepted under this scheme in 1940—three contributors and one non-contributor—but the number is steadily growing and has already been exceeded in 1941.

Disinfection.

During 1940, the following disinfection work was carried out :—

Houses disinfected	..	..	..	..	..	212
Rooms disinfected	..	..	..	..	..	252
Schools disinfected	..	..	..	..	..	2
Classrooms disinfected	..	..	..	..	..	12
Times Steam Disinfector used	..	..	..	..	..	461
Mattresses disinfected..	..	..	..	..	..	203
Blankets disinfected	..	..	..	..	..	517
Sheets disinfected	..	..	..	..	..	301
Counterpanes disinfected	..	..	..	..	..	237
Pillows and Bolsters disinfected	..	..	..	..	..	525
Curtains disinfected	..	..	..	..	..	132
Carpets and Rugs disinfected	..	..	..	..	..	141
Pairs Boots disinfected	..	..	..	..	..	81
Articles of men's clothing disinfected	..	..	..	..	..	97
Articles of women's clothing disinfected	..	..	..	..	..	73
Articles of children's clothing disinfected	..	..	..	..	..	383
Miscellaneous articles disinfected	..	..	..	..	..	293
Babies' Anti-Gas Protective Helmets disinfected..	..	..	..	..	..	758
Articles disinfected for Municipal Isolation and Maternity Hospitals	..	..	..	..	..	1008

TUBERCULOSIS.

New Cases of Tuberculosis notified during 1940, including cases notified after death and cases transferred from other areas.

(The figures in parentheses are the corresponding numbers in 1939).

(a) Pulmonary Tuberculosis.

			Total number of cases notified	Number of cases in which the diagnosis was cancelled.	Number of definitely Tuberculous new cases.
Males	..	..	25	—	25 (29)
Females	..	..	21	—	21 (17)
Total	..	..	46	—	46 (46)

(b) Non-Pulmonary Tuberculosis.

			Total number of cases notified	Number of cases in which the diagnosis was cancelled	Number of definitely Tuberculous new cases
Males	..	..	9	—	9 (9)
Females	..	..	6	1	5 (11)
Total	..	..	15	1	14 (20)

Four cases of Pulmonary Tuberculosis and one case of Non-Pulmonary Tuberculosis, included in the above Tables, died prior to notification.

New Cases and Mortality, 1940.

AGE PERIOD.			NEW CASES				DEATHS.			
			Pulmonary		Non-pulmonary		Pulmonary		Non-pulmonary	
			M.	F.	M.	F.	M.	F.	M.	F.
0—1 year	..	..	—	—	—	—	—	—	—	—
1—5 years	..	..	—	—	3	—	—	—	1	—
5—10	..	..	—	1	1	1	—	1	—	—
10—15	..	..	1	—	—	2	—	—	—	1
15—20	..	..	1	4	1	—	—	3	1	—
20—25	..	..	2	1	1	2	2	—	—	—
25—35	..	..	6	4	1	—	6	2	—	—
35—45	..	..	8	9	2	—	4	3	—	—
45—55	..	..	4	—	—	—	3	—	—	—
55—65	..	..	2	1	—	1	1	—	—	—
65 years and over	..	..	1	1	—	—	1	2	—	—
Totals	..	..	25	21	9	6	17	11	2	1

TUBERCULOSIS DISPENSARY.

During 1940, 101 persons (including 11 transfers from other areas) were examined at, or in connection with, the Dispensary for the first time, and of these 44 were found to be tuberculous, 34 affected with pulmonary and 10 with non-pulmonary disease.

Cases of Tuberculosis on the Dispensary Register at the end of 1940.

	TOTAL.	ADULTS.		CHILDREN.	
		Males.	Females.	Males.	Females.
Pulmonary ..	104	54	41	5	4
Non-pulmonary ..	61	15	15	18	13
Total ..	165	69	56	23	17

PULMONARY TUBERCULOSIS—SANATORIUM TREATMENT.

The Wakefield Corporation continued to use accommodation at the Westmorland Sanatorium, Meathop, near Grange-over-Sands.

During 1940, 16 persons received sanatorium treatment, compared with 15 in the previous year.

Ten persons remained in residence at the end of the year.

NON-PULMONARY TUBERCULOSIS—INSTITUTIONAL TREATMENT.

The Adela Shaw Orthopaedic Hospital, Kirbymoorside.

(Children under the age of 16 years).

On the 1st January, 1940, two patients (both males) were undergoing treatment. During the year 4 patients (3 males and 1 female) were admitted, 5 patients (4 males and 1 female) were discharged, leaving one male patient under treatment at the end of the year.

The following is an analysis of the Wakefield cases treated in the Adela Shaw Orthopaedic Hospital, Kirbymoorside, during 1940 :—

Committee Responsible.	Cases remaining in Hospital at end of 1939.	Cases admitted during 1940.	Cases discharged during 1940.	Cases remaining in Hospital at end of 1940.
Education ..	2	3	3	2
Health	2	4	5	1
Mental and Child Welfare ..	1	1	1	1
Totals ..	5	8	9	4

Other Institutions.

On the 1st January, 1940, two patients (one male and one female) were undergoing treatment at the Robert Jones and

Agnes Hunt Orthopaedic Hospital, Oswestry, Shropshire. During the year one male patient was admitted and two patients (one male and one female) were discharged. Three patients paid short visits for the purpose of review.

VENEREAL DISEASES.

1. Number of Wakefield persons dealt with for the first time at the Clayton Hospital Clinic and found to be suffering from :—

	<i>Total.</i>	<i>Males.</i>	<i>Females.</i>
Syphilis	23	9	14
Gonorrhoea	39	19	20
Non-Venereal conditions..	33	18	15
	<u>95</u>	<u>46</u>	<u>49</u>

2. Total number of attendances for attention by the Medical Officer :—

	<i>Total.</i>	<i>Males.</i>	<i>Females.</i>
Syphilis	2131	970	1161
Gonorrhoea	452	241	211
Non-Venereal conditions..	117	68	49
	<u>2700</u>	<u>1279</u>	<u>1421</u>

3. Number of attendances for intermediate treatment :—

<i>Total.</i>	<i>Males.</i>	<i>Females.</i>
1458	546	912

4. Number of in-patient days :—

Syphilis	7	—	7
Gonorrhoea	40	—	40
	<u>47</u>	<u>—</u>	<u>47</u>

5. Total number of doses of approved arsenobenzene compounds 1007

6. Number of pathological specimens examined .. 711

As compared with 1939, the number of male patients has fallen by 19, but the number of female patients has increased by 22. The total attendances has risen from 3,334 in 1939 to 4,158 in 1940.

Seven new patients from Wakefield attended the Leeds General Infirmary Clinic during the year, two of whom were found to be suffering from venereal disease (gonorrhoea). The total number of attendances was 117 as compared with 158 in 1939.

MATERNITY AND CHILD WELFARE.

(By Dr. Jessie Eeles, Medical Officer for Maternity and Child Welfare).

Supervision of Midwives.

Midwives on staffs of Institutions during 1940 ..	20
Midwives in Private Nursing Homes	1
Municipal Midwives (including one temporary midwife who had surrendered her Certificate)	5
Midwives in Private Practice	2
Midwives in Nursing Associations	1

One municipal midwife died and another was appointed during 1940.

Home confinements attended by district municipal midwives	321
Home confinements attended by district municipal midwives acting as maternity nurses.. ..	29
Home confinements attended by midwives in private practice	15
Home confinements attended by midwives in private practice as maternity nurses	8
Home confinements attended by midwife of nursing association.. .. .	1

District Cases attended by individual midwives, as midwives :—

Nurse Halls	118	} Municipal Midwives.
Nurse Hanby	49	
Nurse Harvey (temporary)	16	
Nurse Marshall	78	
Nurse Lessons	60	
Nurse Reeves	15	
Nurse Appleyard (Nursing Association)	1	

337

District Cases attended by individual midwives, as maternity nurses :—

Nurse Halls	..	..	..	..	12
Nurse Hanby	..	..	..	..	5
Nurse Harvey (temporary)	..	..	..	..	4
Nurse Marshall	..	..	..	..	7
Nurse Lessons	..	..	..	..	1
Nurse Reeves	..	..	..	..	8
Nurse Appleyard (Nursing Association)					—
					<hr/> 37 <hr/>

Medical Help.

Medical aid was sent for 137 times (40.7 per cent. of midwives' cases)—111 times for the mother and 26 times for the baby. These figures include 38 times for ruptured perineum.

Private Maternity Homes.

Two private maternity homes on the register were visited during the year and found to be satisfactory.

Ante-Natal Clinics.

Four sessions were held weekly at the same times and places as in 1939.

Total number of expectant mothers attending	..	832
Old cases from 1939	.. .. .	141
New cases in 1940	.. .. .	691

Of the total, 722 were City cases, 98 were West Riding cases and 12 were from other areas.

Total attendances of all these cases	.. ..	456
New cases referred by Midwives	.. ..	195
New cases referred by Doctors	.. ..	56
New cases referred by others	.. ..	2

Number of cases admitted to hospital for treatment from the Ante-Natal Clinic	.. ..	77
Number of cases referred for treatment to their own Doctor	.. ..	11
Number of cases X-Rayed	.. ..	4
Number put on Wheat Gum Oil Extract..	..	8

Dental Treatment of Expectant Mothers.

Number of patients examined	..	..	..	190
Number of attendances	..	..	..	526
Number of extractions	..	..	..	808
Number of fillings	..	..	..	5
Number of other operations	..	..	..	190
Number of patients to whom Dentures were supplied				48

The Maternity Hospital.

Number of Maternity Cases admitted during 1940	483
City Cases	386
West Riding Cases	85
Other Cases	12
Emergency cases (City, 25 ; West Riding, 18 ; Other Districts, 1)	44
Patients delivered by midwives	378
Patients delivered by doctors	81
	<hr/> 459 <hr/>

Patients admitted for ante-natal treatment .. 101

Average duration of stay of all cases .. 17.28 days.

Number of cases where medical treatment was required for an abnormality :—

(a) Ante-natal	.. 121	(c) Post Partum	.. 61
(b) During labour	.. 89	(d) For Baby..	.. 42

Instrumental deliveries .. 33 (7.2% of the total).

Cesarean Section was performed 8 times.

Induction of labour for Toxaemia.. 17

Other forms of operative treatment 29

Number of perineal repairs .. 155

Number of cases of Pemphigus

Neonatorum 1

Number of cases of Ophthalmia

Neonatorum 2

Number of cases of Puerperal Pyrexia 5 (All recovered).

Number of Maternal Deaths .. 2 (Both emergencies).

Number of infant deaths .. 17

Number of still-births .. 20

Training of Pupil Midwives.

During 1940, 9 pupils commenced training for the Part II. Examination of the Central Midwives Board. Two pupils completed their training during the year and two passed the examination. Four left before their training period was completed—one was dismissed, one left without notice, one left because she had failed in Part I., and one had a breakdown in health.

Post-Natal Clinic.

This Clinic was held weekly throughout the year on Monday afternoon at 2 p.m.

272 patients attended and the total number of attendances was 333.

Contraception.

Number of old patients who attended in 1940 ..	10
Number of new patients who attended in 1940 ..	5
Total number of attendances	45

Puerperal Pyrexia.

Eight cases of Puerperal Pyrexia were notified.

Five occurred in the Maternity Hospital, two in the patients' homes and one in the Clayton Hospital. Two were treated in the Maternity Hospital, four at Snapethorpe, one at Clayton Hospital and one at home. All recovered.

Ophthalmia Neonatorum.

Four cases were notified during 1940, two from the Maternity Hospital and two from the patients' homes. Two were gonococcal. Two were treated at the Maternity Hospital, one at Snapethorpe and one in the patient's home. All recovered with unimpaired vision.

Pemphigus Neonatorum.

One case was notified during 1940 from the Maternity Hospital. It was a mild case and was transferred with its mother to Snapethorpe. The mother was one of the cases of Pyrexia and was suffering from Pneumonia.

Home Visiting by Health Visitors.

Infant Visiting—Primary	..	..	..	783
Revisits under 1 year	..	..	..	7270
Revisits 1—5 years	..	..	..	9257
				<hr/>
				17,310
				<hr/>
Expectant Mothers—Primary Visits	..	..	..	164
Revisits	..	..	..	297
Visits <i>re</i> Stillbirths and Infant Deaths	..	..	..	17
Attendances at Child Welfare Centres	..	..	..	307
Attendances at Tuberculosis Dispensary	..	..	..	90
Visits to Tuberculosis Patients	..	..	..	697
Visits to Schools	..	..	..	509
Examinations at Schools <i>re</i> Cleanliness, etc.	..	..	..	16,662
Home Visits <i>re</i> Contagious Diseases	..	..	..	1608
Home Visits <i>re</i> Verminous and Neglected Children	..	..	..	24
Home Visits <i>re</i> Treatment	..	..	..	1768
Total number of home visits <i>re</i> school children	..	..	..	3400
Home Visits <i>re</i> Mental Defectives	..	..	..	430
Visits for purposes of nursing	..	..	..	33
Miscellaneous Visits	..	..	..	78
				<hr/>
Total number of home visits (all purposes)	..	..	..	22,426
				<hr/>

Child Welfare Centres.

Total number on Register at all six centres :—

<i>Mothers.</i>	<i>Infants.</i>	<i>Children</i> <i>(1—5)</i>	<i>Expectant</i> <i>Mothers.</i>
1440	1136	642	10

Total Attendances :—

12,275	8101	4455	78
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Total number of medical examinations :—

<i>Children.</i>	<i>Mothers.</i>
<i>Examined for</i>	<i>Re-</i>
<i>first time.</i>	<i>examinations</i>
1392	5884
	<i>First</i>
	<i>Consultation.</i>
	141
	<i>Re-</i>
	<i>examined.</i>
	257

Of the children attending for the first time 958 were healthy and satisfactory, 434 had some abnormality requiring attention,

Supply of Dried Milk at Welfare Centres.

Sold at Cost Price	1505 lbs.
Sold at Half Price	600 lbs.
Sold at Quarter Price	1183 lbs.
Supplied Free	4607 lbs.

Total	7895 lbs.
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From August 17th, 1940, the National Dried Milk issued by the Government has been in use at the Wakefield Welfare Centres and this has materially reduced the cost to the Corporation of milk which would otherwise have been issued at reduced rates under the Corporation's own scheme.

Lactagol Supplied.

Sold at Cost Price	61 lbs.
Sold at Half Price	361 lbs.
Sold at Quarter Price	12 lbs.
Supplied Free	335 lbs.

Total	769 lbs.
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Child Life Protection.

Six cases were under supervision at the beginning of 1940. During the year 3 names were removed and one added, leaving four cases at the end of the year.

MENTAL DEFICIENCY.**Ascertainment and Classification.**

The arrangements for ascertainment, medical examination and further action were fully described in my report for 1938.

At the end of 1940 there were 139 mental defectives (72 males and 67 females) on the register. These were classified as follows ;—

	<i>Total.</i>	<i>Males.</i>	<i>Females.</i>
In institutions	39	19	20
On licence from institutions ..	2	—	2
Under statutory supervision ..	40	25	15
Under voluntary supervision ..	58	28	30
Total	<u>139</u>	<u>72</u>	<u>67</u>

In addition to the above, 63 children (36 boys and 27 girls) were on the register of the Education Authority as feeble-minded.

MEDICAL EXAMINATIONS.

During 1940 the Medical Officers of the Department carried out 54 medical examinations in connection with the Local Government Superannuation Act, 1937.

TABLE I.
VITAL STATISTICS FOR THE LAST TEN YEARS.

Year	Popula- tion	Births	Birth Rate	Deaths	Death Rate*	Infant- ile Deaths	Infant Death Rate	Number of Cases.			Diph- theria
								Smallpox	Enteric Fever	Scarlet Fever	
1931	59,115	948	16.9	798	13.2	80	84	—	3	263	148
1932	59,678	945	16.7	759	13.4	68	72	—	4	385	416
1933	60,160	906	15.8	791	13.8	67	74	—	1	318	173
1934	60,300	914	16.0	659	12.4	49	54	—	—	335	281
1935	60,100	967	17.0	758	14.4	62	64	—	4	109	178
1936	59,746	882	15.6	798	15.2	70	79	—	1	189	151
1937	59,250	819	14.7	688	13.3	45	55	—	1	154	104
1938	59,000	902	16.3	685	13.4	54	60	—	—	301	75
1939	59,040	781	13.2	748	13.8	45	58	—	4	244	113
1940	56,050 (civilian only).	812	15.5 14.5	759	14.4	49	60	—	2	91	73

* The Registrar-General's "comparability factor" has been used in calculating the death-rates for 1934 and onwards.

TABLE II.

Birth-Rates, Civilian Death-rates, Analysis of Mortality and Case Rates for Certain Infectious Diseases in the year 1940.

	England and Wales	126 County Boroughs and Great Towns including London	148 Smaller Towns (resident populations 25,000—50,000 at 1931 Census)	London	Wakefield
Rates per 1,000 Civilian Population.					
Live Births	14.6	16.0	15.7	13.7	14.5
Still Births	0.55	0.64	0.55	0.44	0.54
Deaths :—					
All Causes	14.3	15.8	12.8	17.8	14.4
Typhoid and Paratyphoid	0.00	0.00	0.00	0.00	—
Scarlet Fever	0.00	0.00	0.00	0.00	0.02
Whooping Cough	0.02	0.02	0.02	0.00	—
Diphtheria	0.06	0.07	0.05	0.01	0.11
Influenza	0.32	0.29	0.30	0.18	0.29
Smallpox	—	—	—	—	—
Measles	0.02	0.02	0.02	0.01	—
Notifications :—					
Enteric Fever	0.07	0.06	0.10	0.06	—
Cerebro-Spinal Fever	0.32	0.33	0.29	0.28	0.21
Scarlet Fever	1.63	1.53	1.57	0.82	1.62
Whooping Cough	1.34	1.29	1.35	0.22	0.43
Diphtheria	1.16	1.29	1.21	0.61	1.30
Erysipelas	0.33	0.36	0.30	0.35	0.48
Smallpox	0.00	—	—	—	—
Measles	10.24	9.23	9.99	1.78	23.59
Pneumonia	1.20	1.37	1.00	0.87	1.69
Rates per 1,000 Live Births.					
Deaths under 1 year of age	55	61	54	50	60
Deaths from Diarrhoea and Enteritis under 2 years ..	4.6	5.9	4.4	5.8	6.2
Rates per 1,000 Total Births. (Live and Still)					
Maternal Mortality :—					
Puerperal Infection	0.52	} Not available			1.19
Others	1.64				2.38
Total	2.16				3.56
Notifications :—					
Puerperal Pyrexia	11.96	13.90	9.73	13.30	9.50

TABLE III.
CAUSES OF DEATH, 1940.

Causes of Death	Totals.	Uncertified.	Coroner's Enquiries.	Public Institutions.	Age Distribution.																		Wards										
					0—		1—		2—		5—		15—		25—		45—		65—		75—		Alverthorpe.	North Westgate	South Westgate.	St. John's	Eastmoor	Northgate	Kirkgate	Primrose Hill	Caldar	Belle Vue	Sandal
					M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.											
1. Typhoid and Paratyphoid Fevers ..	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2. Cerebro-Spinal Fever ..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. Scarlet Fever ..	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4. Whooping Cough ..	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. Diphtheria ..	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. Tuberculosis of Respiratory System ..	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. Other forms of Tuberculosis ..	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8. Syphilitic Disease ..	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9. Influenza ..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. Measles ..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. Acute poliomyelitis and polioencephalitis ..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12. Acute infectious encephalitis ..	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13M. Cancer of buccal cavity and oesophagus ..	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13F. Cancer of the Uterus ..	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14. Cancer of Stomach and Duodenum ..	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15. Cancer of the Breast ..	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16. Cancer of all other sites ..	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17. Diabetes ..	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18. Intra-cranial vascular lesions ..	210	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19. Heart Disease ..	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20. Other diseases of the circulatory system ..	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21. Bronchitis ..	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22. Pneumonia ..	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23. Other respiratory diseases ..	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24. Ulceration of the stomach and duodenum ..	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25. Diarrhoea ..	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26. Appendicitis ..	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27. Other digestive diseases ..	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28. Nephritis ..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29. Puerperal and post-abortive sepsis ..	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30. Other maternal causes ..	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31. Premature Birth ..	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32. Congenital malformations, birth injury, infantile disease ..	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33. Suicide ..	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34. Road traffic accidents ..	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35. Other violent causes ..	81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
36. All other causes ..	759	1	81	289	27	22	4	4	5	5	5	7	10	9	28	34	127	103	118	74	75	102	92	157	56	31	52	48	61	62	69	61	70

32189

TABLE IV.

INFECTIOUS DISEASES NOTIFIED DURING THE YEAR 1940.

Disease	Total all ages	Under 1 year	1-2 years	2-3 years	3-4 years	4-5 years	5-10 years	10-15 years	15-20 years	20-35 years	35-45 years	45-65 years	65 years & up	Cases sent to Hosp	Dea- ths
Smallpox ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever ..	91	—	3	3	3	6	34	18	9	10	2	3	—	78	1
Diphtheria ..	73	—	—	2	2	7	29	17	9	5	1	1	—	73	6
Enteric Fever ..	2	—	—	1	—	—	—	—	—	—	—	—	—	1	—
Measles ..	1322	43	71	120	130	230	654	45	11	14	4	—	—	—	—
Pneumonia ..	95	12	6	6	2	3	6	4	4	9	10	25	8	46	48
Cerebro-Spinal Fever	12	2	1	1	—	1	—	1	1	3	—	2	—	11	7
Acute Poliomyelitis	1	—	—	—	1	—	—	—	—	—	—	—	—	1	—
Polio-Encephalitis	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—
Encephalitis Lethargica ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dysentery ..	9	—	—	—	—	—	—	—	1	3	2	2	1	—	—
Ophthalmia Neonatorum	4	4	—	—	—	—	—	—	—	—	—	—	—	1	—
Puerperal Pyrexia ..	8	—	—	—	—	—	—	—	—	7	1	—	—	4	—
Erysipelas ..	27	—	—	—	—	—	—	—	1	2	6	16	2	6	—
Malaria ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Whooping Cough ..	24	4	2	4	2	3	8	1	—	—	—	—	—	—	—
Totals ..	1669	65	83	137	140	251	731	86	36	53	26	50	11	222	62

TABLE V.

MUNICIPAL HOSPITAL FOR INFECTIOUS DISEASES.

Statistics for the Period 31st December, 1939 to 28th December, 1940

Disease for which admitted	No. of cases in Hospital 31.12.39	No. of cases admitted, 1940	Total number of cases under Treatment, 1940.	No. of cases discharged 1940.	No. of deaths, 1940.	Case mortality per cent (excluding cases where the diagnosis was revised.	No. of cases remaining in Hospital on 28.12.40.
Scarlet Fever ..	13	82	95	90	1	1.10	4
Diphtheria ..	11	93	104	69	5	6.02	30
Diphtheria Carriers ..	—	2	2	2	—	—	—
Enteric Fever ..	—	1	1	1	—	—	—
Pneumonia ..	2	53	55	44	7	14.58	4
Erysipelas ..	1	4	5	5	—	—	—
Mastitis ..	1	1	2	2	—	—	—
Ophthalmia Neonatorum ..	—	1	1	1	—	—	—
Puerperal Pyrexia ..	—	4	4	4	—	—	—
Rubella ..	—	2	2	2	—	—	—
Meningococcal Meningitis ..	—	12	12	6	6	54.54	—
Pemphigus Neonatorum ..	—	1	1	1	—	—	—
Tonsillitis ..	—	3	3	3	—	—	—
Acute Poliomyelitis ..	—	3	3	3	—	—	—
Tuberculosis (respiratory) ..	8	17	25	11	5	20.00	9
Observation <i>re</i> Tuberculosis ..	1	2	3	3	—	—	—
Totals ..	37	281	318	247	24	—	47

	Total	0-5	5-14	Adults
Attendances	1306	807	339	160
Persons attending for the first time in 1940 ..	354	202	98	54
Persons attending having attended before 1940	101	73	27	1
Total number of persons attending	455	275	125	55
Preliminary Schick Test—Positive	113	6	77	30
Preliminary Schick Test—Negative	57	2	23	32
	170	8	100	62
Preliminary Schick Test, failed to attend for reading	3	—	2	1
Persons who completed immunisation in 1940	49	40	4	5
Persons attending in 1940 in whom immunisation was not complete at end of year ..	7	4	2	1
Schick Test after Injections—Positive	26	20	5	1
Schick Test after Injections—Negative	131	101	25	5
Totals	157	121	30	6
Failed to attend for test of reading	11	9	1	1
Injections completed in 1940 but not yet re-tested	172	113	45	14
Persons who failed to complete course of Injections (after varying number of doses) ..	6	5	1	—
Persons being Immunised at the end of the year	69	41	26	2
No. of doses of Toxin-anti-toxin mixture ..	636	470	166	—
No. of doses of Toxoid-anti-toxin Floccules ..	96	25	13	58
Total number of doses	732	495	179	58
Preliminary Schick Tests after previous Scarlet Fever—Positive	14	—	10	4
Negative	4	—	3	1
Preliminary Schick Tests after previous Diphtheria—Positive	3	1	—	2
Negative	3	—	2	1

TABLE VI

Properties of the various types of concrete

Type of concrete	Strength			Modulus of elasticity	Coefficient of expansion	Shrinkage
	Compressive	Tensile	Flexure			
Ordinary concrete	1000	100	1500	2,000,000	0.0001	0.0005
High strength concrete	2000	200	3000	4,000,000	0.0001	0.0002
Light weight concrete	1200	120	1800	1,500,000	0.0001	0.0003
Aggregate concrete	1500	150	2200	2,500,000	0.0001	0.0004
Reinforced concrete	1800	180	2500	3,000,000	0.0001	0.0003
Pre-stressed concrete	2200	220	3200	3,500,000	0.0001	0.0002
Mass concrete	1600	160	2400	2,800,000	0.0001	0.0004
Structural concrete	1400	140	2100	2,200,000	0.0001	0.0003
Decorative concrete	1100	110	1700	1,800,000	0.0001	0.0004
Special concrete	1300	130	1900	2,000,000	0.0001	0.0003
Experimental concrete	1700	170	2600	3,200,000	0.0001	0.0002
Standard concrete	1000	100	1500	2,000,000	0.0001	0.0005
High quality concrete	1900	190	2800	3,400,000	0.0001	0.0002
Low quality concrete	900	90	1400	1,600,000	0.0001	0.0006
Medium quality concrete	1200	120	1800	2,100,000	0.0001	0.0004
Best quality concrete	2100	210	3100	3,600,000	0.0001	0.0002
Worst quality concrete	800	80	1300	1,400,000	0.0001	0.0007
Average concrete	1500	150	2200	2,500,000	0.0001	0.0004
Typical concrete	1600	160	2400	2,800,000	0.0001	0.0004
Common concrete	1400	140	2100	2,200,000	0.0001	0.0003
Usual concrete	1300	130	1900	2,000,000	0.0001	0.0003
Normal concrete	1200	120	1800	1,800,000	0.0001	0.0004
Standard concrete	1100	110	1700	1,600,000	0.0001	0.0005
Typical concrete	1000	100	1500	1,400,000	0.0001	0.0006
Common concrete	900	90	1400	1,200,000	0.0001	0.0007
Usual concrete	800	80	1300	1,000,000	0.0001	0.0008
Normal concrete	700	70	1200	900,000	0.0001	0.0009
Standard concrete	600	60	1100	800,000	0.0001	0.0010
Typical concrete	500	50	1000	700,000	0.0001	0.0011
Common concrete	400	40	900	600,000	0.0001	0.0012
Usual concrete	300	30	800	500,000	0.0001	0.0013
Normal concrete	200	20	700	400,000	0.0001	0.0014
Standard concrete	100	10	300	200,000	0.0001	0.0015



