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Contributors

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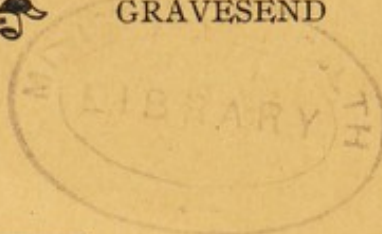
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BOROUGH OF



GRAVESEND



ANNUAL REPORT

OF THE

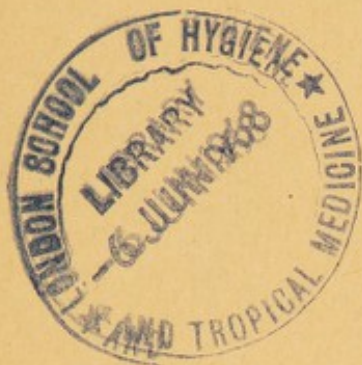
Medical Officer of Health

FOR THE YEAR 1950.

H. S. DAVIES

M.D., B.S. (LOND.) M.R.C.S., D.P.H.

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HEALTH COMMITTEE, 1950.

THE MAYOR (Councillor E. J. HOWCROFT, J.P., C.C.)

Councillor C. A. WHITE (Chairman)

Councillor H. F. MARGRETT (Vice-Chairman)

Alderman H. A. HODGE

Alderman H. ROBSON

Alderman A. G. RAMSAY

Councillor W. A. WYATT

Councillor MRS. E. M. T. MCKENZIE

Councillor MISS A. E. H. JOHNSON, B.E.M.

Councillor MRS. B. S. DONOVAN

Councillor J. W. ROBINSON

Councillor L. W. KEMPSTER

HEALTH DEPARTMENT STAFF.

HERBERT S. DAVIES, M.D., B.S.(Lond.), M.R.C.S., L.R.C.P., D.P.H.,
Medical Officer of Health.

DANIEL DESMOND, M.B., B.Ch., D.P.H.(Cork),
Deputy Medical Officer of Health.

*J. E. BAKER, M.S.I.A., C.R.S.I., Chief Sanitary Inspector.

*F. H. MILLICAN, M.S.I.A., C.R.S.I., Deputy Chief Sanitary Inspector

District Sanitary Inspectors :

*J. H. LOTT, M.S.I.A., C.R.S.I.

B. W. TAYLOR, M.S.I.A.

D. G. BANKS, M.S.I.A.

Clerical Staff :

MRS. E. MARTIN, Secretary to Medical Officer.

A. H. BAKER, Chief Clerk to Sanitary Inspector

MISS G. PUTTIFER.

MISS P. BLACKMAN.

MISS B. DAVIS (resigned April, 1950).

Mrs. P. SPENCER (appointed May, 1950).

NOTE.—*Hold Meat and Food Inspection Certificate.

HEALTH DEPARTMENT,
3, WOODVILLE TERRACE,
GRAVESEND.

September, 1951.

MR. MAYOR, MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have pleasure in submitting to you the Annual Report on the Health and Sanitary circumstances of the Borough for the year ended 31st December, 1950.

The general health of the Borough has been well maintained. Apart from Measles and Whooping Cough there has been no outbreak of serious infectious disease.

The birth rate is now 17.16 per 1,000 population and the death rate is 10.91. From statistics given on pages 5 and 6 it will be seen that the figures for Gravesend compare favourably with those for other areas.

The shortage of housing accommodation has been our major health problem and the Council have continued to give this matter priority.

I should like to express my thanks to the Council and especially to the Chairman and all the members of the Health Committee for their interest and enthusiastic support throughout the year.

I wish also to thank my staff for their loyal co-operation, which has helped so much in maintaining the standard of the health services in the Borough.

I am, Mr. Mayor, Mr. Chairman, Ladies and Gentlemen,

Your obedient Servant,

H. S. DAVIES,

Medical Officer of Health.

STATISTICS AND SOCIAL CONDITIONS OF THE BOROUGH.

SECTION "A."

Area of the Borough (acres)	...	...	...	...	...	4,619
Registrar-General's estimate of the Population	...	...	...	...	...	44,290
Number of separate inhabited houses estimated	...	...	...	...	...	11,668
Rateable Value	...	...	...	...	...	£348,309
Sum represented by a Penny Rate	...	...	...	...	...	£1,400
Rates (to 31st March, 1951)—19s. 10d. in the £.						

Employment and Unemployment.

The chief industries in the locality are—Paper making, light and marine engineering, cement, electrical equipment. A large number of men are employed in the Merchant Navy, on river craft, and in dock work.

There is a demand for men and women both in skilled and in unskilled work.

Unemployment has remained at a low level, but statistics which apply only to the Borough are not available.

Registered Live Births.

					<i>Males.</i>	<i>Females.</i>	<i>Total.</i>
Legitimate	...	...	...	...	384	352	736
Illegitimate	...	...	...	...	10	14	24
Total live births	...	...	...	...	394	366	760

Birth Rate per 1,000 population—17.16.

Still Births.

					<i>Males.</i>	<i>Females.</i>	<i>Total.</i>
Legitimate	...	...	...	...	7	6	13
Illegitimate	...	...	...	...	2	—	2
Total still births	...	...	...	...	9	6	15

Still Birth Rate—i.e., Rate per 1,000 total (live and still) births—19.35.

Still Birth Rate per 1,000 population ... 0.34.

Registered Deaths (all causes).

					<i>Males.</i>	<i>Females.</i>	<i>Total.</i>
					236	247	483
Death Rate per 1,000 population—10.91.							
(The previous year it was 10.54).							

Deaths from Puerperal Causes.

(Heading 30 of the Registrar-General's List).

	Deaths.	Rate per 1,000 total Live and Still Births.
Pregnancy, Childbirth, Abortion ...	1	1.29

Number of Infant Deaths—under 1 year of age.

			Males.	Females.	Total.
Legitimate infants	...	...	14	7	21
Illegitimate infants	...	...	—	—	—
Total	...	...	14	7	21

Death Rate of Infants under 1 year of age :—

Infant Mortality Rate, <i>i.e.</i> , All infants per 1,000 live births	...	...	27.63
Legitimate infants per 1,000 legitimate live births	...	...	28.53
Illegitimate infants per 1,000 illegitimate live births	...	...	—

Deaths from Cancer (all ages)	...	...	...	96
Deaths from Measles (all ages)	...	...	...	—
Deaths from Whooping Cough (all ages)	...	...	...	—
Deaths from Diarrhoea (under 2 years)	...	...	...	1

Comparative Birth and Death Rates.

Rates.	Gravesend.	England and Wales.	148 "Smaller Towns," Population of 25,000 to 50,000
Birth Rate ...	17.16	15.8	16.7
Death Rate ...	10.91	11.6	11.6
Infant Mortality Rate...	27.63	29.8	29.4
Still Birth Rate	0.34	0.37	0.38

**Birth Rates, Death Rates, Analysis of Mortality, Maternal Mortality and
Case Rates for certain Infectious Diseases in the Year 1950.
Provisional Figures Based on Quarterly Returns**

		148 Smaller 126 County Towns (Resi- Boroughs & dent Pop. London England Great Towns 25,000 to Admini- and (including 50,000 at strative Wales London). 1931 Census) County Gravesend					
		Rates per 1,000 Home Population					
Births							
Live Births	...	...	15.8	17.6	16.7	17.8	17.16
Still Births	...	...	0.37	0.45	0.38	0.36	0.34
Deaths							
All Causes	...	...	11.6	12.3	11.6	11.8	10.91
Typhoid and paratyphoid	...	...	0.00	0.00	0.00	0.00	0.00
Whooping Cough	...	...	0.01	0.01	0.01	0.01	0.00
Diphtheria	...	...	0.00	0.00	0.00	0.00	0.00
Tuberculosis	...	...	0.36	0.42	0.33	0.39	0.32
Influenza	...	...	0.10	0.09	0.10	0.07	0.09
Smallpox	...	...	—	—	—	—	—
Acute poliomyelitis (including polioencephalitis)	...	...	0.02	0.02	0.02	0.01	0.02
Pneumonia	...	...	0.46	0.49	0.45	0.48	0.25
Notifications (Corrected)							
Typhoid Fever	...	...	0.00	0.00	0.00	0.01	0.02
Paratyphoid Fever	...	...	0.01	0.01	0.01	0.01	0.00
Meningococcal infection	...	...	0.03	0.03	0.02	0.03	0.00
Scarlet Fever	...	...	1.50	1.56	1.61	1.23	1.42
Whooping Cough	...	...	3.60	3.97	3.15	3.21	2.01
Diphtheria	...	...	0.02	0.03	0.02	0.03	0.00
Erysipelas	...	...	0.17	0.19	0.16	0.17	0.13
Smallpox	...	...	0.00	0.00	—	—	—
Measles ...	...	...	8.39	8.76	8.36	6.57	4.38
Pneumonia	...	...	0.70	0.77	0.61	0.50	0.34
Acute poliomyelitis (including polioencephalitis)	...	...	0.13	0.12	0.11	0.08	0.18
Paralytic	...	...	0.05	0.05	0.06	0.05	0.02
Non-paralytic	...	...	0.17	0.16	0.14	0.25	0.00
Food poisoning	...	...			
		Rates per 1,000 Live Births					
Deaths							
All causes under 1 year of age			29.8(a)	33.8	29.4	26.3	27.63
Enteritis and diarrhoea under 2 years of age	...	...	1.9	2.2	1.6	1.0	0.02
		Rates per 1,000 Total (Live and Still) Births					
Notifications (Corrected)							
Puerperal fever and pyrexia			5.81	7.43	4.33	6.03	1.29
		(a)	Per 1,000 related live births.				

SECTION "B."

GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA.

Laboratory Facilities.

The County Council provide facilities for pathological examinations at their Laboratories in Maidstone, and this arrangement has proved satisfactory.

The following specimens have been examined and reported on :—

A.	(1)	Sputum—	Examinations for Tubercle Bacilli	...	...	25
	(2)	Swabs—	Examinations for Diphtheria	...	...	4
			Examinations for Streptococci	...	...	3
	(3)	Faeces—	Examinations for Pathogenic Organisms	...	...	91
	(4)	Blood—	Examinations for Typhoid	.....	.....	1
TOTAL						124
B.	(1)	Milk—	Bacteriological Examinations	...	...	76
	(2)	Water—	Public supplies Bacteriological Examinations...			98
			Swimming Pool—	..	...	45
	(3)	Ice Cream—	Bacteriological Examinations	.....	...	87
TOTAL						306

Ambulance Service—Non-Infectious Cases.

This service, for which the Kent County Council are responsible, is operated by the St. John Ambulance Brigade. Four ambulances are stationed at Commercial Place.

Ambulance Service—Infectious Cases.

The infectious disease ambulance provided by the Kent County Council is now run in conjunction with the Dartford Infectious Diseases Hospital and stationed there.

Home Nursing Service.

This service is to provide nurses, free of charge, for persons who require nursing in their own homes. Apart from cases of emergency and accidents, patients can only be attended by a nurse on the production of a certificate from their private medical practitioner. At present it is not possible to provide a night service. Application is made to the District Officer, District Office, Arthur Street.

There are four nurses employed in this area and their names and addresses are given below :—

- Nurse Jones, 56, Smarts Road, Gravesend.
- Nurse Rampling, Church Cottage, London Road, Greenhithe.
- Nurse Deeley, 5, Lynton Road South, Gravesend.
- Nurse Cake, 64, Portland Avenue, Gravesend.

Maternity and Child Welfare Clinics.

The following clinics are administered by the Kent County Council under the National Health Service Act, 1946 :—

- (1) Ante-natal Clinics.
- (2) Infant Welfare Clinics.
- (3) Gynaecological and Birth Control Clinic.
- (4) Diphtheria Immunisation Clinic.
- (5) Dental Clinic.

Tuberculosis Clinic.

The Tuberculosis and Chest Clinic is held at the Gravesend and North Kent Hospital every Wednesday at 9 a.m. This is administered by the South East Metropolitan Regional Hospital Board.

Venereal Diseases Clinic.

Administrative arrangements are now under the control of the South East Metropolitan Regional Hospital Board.

Dr. C. D. Routh is in attendance at the Gravesend Clinic 22, Cobham Street, at the following times :—

	<i>Male.</i>	<i>Female.</i>
Tuesday	10.30 am. to 12.55 p.m.	12.55 p.m. to 2 p.m.
Saturday	9 a.m. to 10 a.m.	10 a.m. to 12 noon

Gravesend and North Kent Hospital.

The Out-patient Clinics of the Hospital are as follows :—

MONDAY

9.30 a.m.	Ear, Nose & Throat Clinic	Mr. T. Gill (New patients by appointment)
9.30 a.m.	Medical Out-Patients	Dr. J. D. Craig
10.0 a.m.	Traumatic Clinic	Surgical Registrar
11.0 a.m.	Ear, Nose & Throat Clinic	Mr. T. Gill
1.30 p.m.	Ophthalmic Clinic	Dr. M. F. McDonnell
2.0 p.m.	Fracture Clinic	Mr. V. M. Franklin (By appointment)

TUESDAY

9.0 a.m.	Dental Clinic	Mr. F. T. Wilkinson
9.30 a.m.	Ophthalmic Clinic	Mr. G. L. Simmons
11.30 a.m.	Surgical Clinic	Mr. M. Landau
2.30 p.m.	Ante-natal Clinic)	Mr. F. S. Horrocks
3.0 p.m.	Gynaecological Clinic)	Mr. A. M. Hunter

WEDNESDAY

9.0 a.m.	Chest Clinic	Dr. H. C. Calvey
9.30 a.m.	Surgical Clinic	Mr. B. E. C. Stanley
12.0 noon	Physio-therapy	Mr. V. M. Franklin (Registrar)
3.0 p.m.	Psychiatric Clinic	Dr. S. W. Hardwick (By appointment with Almoner)

THURSDAY

9.30 a.m.	Orthopaedic Clinic	Mr. V. M. Franklin (By appointment)
9.30 a.m.	Chest (Refill Clinic)	Dr. H. C. Calvey
9.30 a.m.	Ophthalmic Clinic	Mr. W. E. Heath
12.0 noon	Physio-therapy	Mr. V. M. Franklin (Registrar)
1.30 p.m.	Ophthalmic Clinic (K.E.C.)	Mr. G. L. Simmons

FRIDAY

9.30 a.m.	Dental Clinic	Mr. F. T. Wilkinson
11.15 a.m.	Fracture Clinic	Mr. V. M. Franklin (By appointment) (Registrar)
9.30 a.m.	Medical Out-Patients	Dr. J. D. Craig
2.0 p.m.	Surgical Clinic	Mr. Sol. M. Cohen (By appointment)
2.0 p.m.	Psychiatric	Dr. J. J. Pearse (By appointment with Almoner)

SATURDAY

9.0 a.m.	Medical Out-Patients	(By Appointment)
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MATERNITY AND CHILD WELFARE.

Notification of Births.

Under the National Health Service Act, 1946, notifications of births are sent direct to the County Medical Officer.

The number of live and still births occurring in Gravesend during the year was 799. After correction for those whose usual residence is elsewhere (*i.e.*, 127 transferred "Out" and 91 transferred "In") the number properly belonging to the Borough was 775 (760 live births and 15 still births) compared with 765 in the previous year.

Particulars of Births occurring in Gravesend

Total No. of live and still births occurring in Gravesend	...	799
No. of live births actually belonging to Gravesend	...	661
No. of still births	...	11
No. of live births (non-residents)	...	126
No. of still births	...	1
	—	799

No. of Births occurring in Institutions in Gravesend

	<i>Live Births</i>	<i>Still Births</i>
No. of infants born in Hospital—(residents)	248	7
" " " " " (non-residents)	99	1
No. of infants born in Nursing Home—(residents)	49	2
" " " " " (non-residents)	24	—

Health Visitors.

These officers are appointed for the purpose of giving advice as to the care of young children, persons suffering from illness and expectant and nursing mothers and as to the measures necessary to prevent the spread of infection.

The following four Health Visitors are employed in the Gravesend area and can be contacted at their respective welfare centres :—

Miss M. Thomas, S.R.N., S.C.M.	Windmill Street Welfare Centre.
Mrs. E. Curling, S.R.N., S.C.M.	Windmill Street Welfare Centre.
Miss M. Carter, S.R.N., S.C.M.	"The Nest," Denton.
Miss M. White, S.R.N., S.C.M.	Whitehill Welfare Centre.

Premature Infants.

Premature infants nursed at home are visited regularly by the Midwives and Health Visitors.

The following special equipment is available for loan at the welfare centres :—

Draught-proof cot with detachable lining, suitable warm clothing, hot water bottles, special feeding bottles, thermometer, mucus catheter, baby scales, etc.

Child Life Protection.

All arrangements are now under the control of the Kent County Council.

Day Nurseries.

The two Day Nurseries, "Daneholme" and "Glendillon," were administered by the Gravesend Borough Council and transferred to the Kent County Council on the 5th July, 1948.

These Nurseries provide accommodation for the daily care of children under five years of age. There are two groups of parents to determine whether a child is to be admitted to a Nursery, one being a priority and the other a non-priority group.

The priority group includes families where the mother is unmarried, widowed, separated, having to work because of a dependent husband, or, by reason of illness or confinement, is unable to look after her family.

The non-priority group includes families where both parents are employed but the mother is engaged upon an occupation, such as teaching, where there is a shortage of workers, or supplementing the family income because of a low wage earning capacity on the part of the father, or working to augment the family income to meet high rent or some other economic difficulty.

The non-priority group also includes children of parents who, because they live in lodgings or other unsuitable housing conditions, are unable to provide a proper environment in which to bring up children.

"Glendillon" Day Nursery was closed by the Kent County Council at the end of December, 1950.

Application for admission to "Daneholme" Nursery is made to the Matron.

Home and Domestic Help Scheme.

This service is administered by the Kent County Council and provides domestic help for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, mentally defective, aged, or a child not over compulsory school age. Householders are required to contribute towards the cost in accordance with their means.

Applications for help are made to the Domestic Help Organiser, District Office, Arthur Street.

Maternity and Child Welfare Centres.

The three Welfare Centres in the Borough are Windmill Street (Central), Whitehill (King's Farm Estate), and "The Nest" (Denton and Chalk district). The services were transferred to the Kent County Council on 5th July, 1948. The sessions are as follows:—

	<i>Windmill Street</i>	<i>Whitehill</i>	<i>"The Nest"</i>
	<i>Afternoon.</i>	<i>Morning.</i>	<i>Afternoon.</i>
MONDAY	Child Welfare ; Health Visitors Consultations; Baby weighing ; Sale of Foods, etc.	Ante-Natal Clinic.	Ante-Natal Clinic.
	<i>Afternoon</i>		
TUESDAY	Child Welfare Clinic with Medical Officer in attendance.	—	—
			<i>Afternoon</i>
WEDNESDAY	—	—	Child Welfare Clinic with Medical Officer in attendance. Sale of Foods, etc.

THURSDAY	<i>Afternoon</i> Ante-Natal Clinic	<i>Afternoon</i> Child Welfare Clinic with Medical Officer in attendance. Sale of Foods, etc.	—
FRIDAY	<i>Afternoon</i> Child Welfare Clinic with Medical Officer in attendance ; Health Visitors Consultations; Baby weighing ; Sale of Foods, etc.	—	—

Attendances at Child Welfare Centres.

The attendances at the three Welfare Centres during the year were :—

(a)	Individual children under 1 year of age	...	...	579
(b)	Individual children between 1 and 5 years	...	...	1,386
(c)	Total number of attendances of all children under 5			13,412

For the year 1949 the figures were :—

(a)	581	(b)	1,596	(c)	17,354
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Ladies' Voluntary Committee.

Since the National Health Service Act came into operation it has been realised that the need for voluntary effort is as great as ever before. In this connection reference must be made to the excellent work which has been and still is being done by the Ladies' Voluntary Committee. They are continuing to assist at the three Welfare Centres in the town which are under the control of the Kent County Council. The Ladies make a valuable contribution to the success of the centres, and their work is greatly appreciated by the staff and mothers alike.

Ante-Natal Clinics.

The Ante-Natal clinic is held every week at each of the three centres in the town, and a lady doctor is in attendance at each session.

In all 379 expectant mothers attended the clinics. The total attendances were 1,134 as against 1,246 in the previous year.

Gynaecological Clinic.

This clinic, which is conducted by Dr. Mallinson, has been functioning for a number of years. It provides advice to married women suffering from gynaecological conditions, or from any form of sickness likely to render pregnancy detrimental to health.

The clinic is held at Windmill Street on the second, third and fourth Tuesdays in each month at 10 a.m.

Dental Treatment.

The Kent County Council are responsible for all dental treatment of expectant and nursing mothers, children under five years and school children. The Dental Clinic is situated in Manor Road.

Ophthalmic Treatment.

Arrangements for ophthalmic treatment are now under the control of the Kent County Council. The Ophthalmic Clinic is held at the Gravesend and North Kent Hospital.

Orthopaedic Treatment.

Arrangements for orthopaedic treatment are now under the control of the Kent County Council.

Minor Ailment Clinics—School Children.

These clinics were taken over by the Kent County Council under the Education Act, 1944. They are held at the following times :—

Windmill Street	Monday, Wednesday, Thursday and Friday	9 a.m. to 10 a.m.
" The Nest "	Tuesday and Friday	9 a.m. to 10 a.m.
Whitehill, King's Farm	Tuesday	9 a.m. to 10 a.m.

Domiciliary Midwifery Service.

The Kent County Council are the Local Supervising Authorities under the Midwives Acts, 1902 to 1936. The following midwives are employed in the Gravesend Area :—

1. Miss L. M. Larner	31, York Road, Gravesend.
2. Miss L. M. Mills	7, Ferndale Road, Gravesend.
3. Miss M. Nash	77, Dickens Road, Gravesend.
4. Mrs. R. Peacock,	13, Joy Road, Gravesend.
5. Miss M. B. Pickering	1, Forge Lane, Chalk.
6. Mrs. K. M. Polson,	15, Taunton Vale, Gravesend.
7. Mrs. F. E. Dudley,	25, Arnold Road, Gravesend.

Abnormal Maternity Patients.

All arrangements for hospital accommodation for abnormal maternity patients are now made by the Kent County Council.

Maternal Deaths.

One death occurred from abnormalities in childbirth. The birth took place in Hospital and the death was certified as follows :—

" Shock following caesarean section for obstructed labour. Accidental death."

Registration and Supervision of Nursing Homes.

There are two nursing homes in the Borough.

1. A Maternity Home of fourteen beds. This is governed by Sections 187-195 of the Public Health Act, 1936 and is registered by the Corporation. Six inspections were made during the year.
2. Home for Medical Cases, chiefly old people—ten beds. This home which had previously been registered under the above Act is now supervised by the Kent County Council under Section 37 of the National Assistance Act, 1948.

Arrangements made for the discovery of unregistered homes.

1. The Return of Births from the local Registrar are examined to check the addresses at which the births occurred.
2. Health Visitors and the staff are asked to keep a look out for unregistered homes.

Moral Welfare—Care of Unmarried Mother and her Child.

This important work is now under the administration of the Kent County Council. Kendall House, Pelham Road, which was opened by the Rochester Diocesan Association for Moral Welfare in 1946 is under the charge of an experienced Church Army Sister who is in close touch with the needs of the district.

The Council have always been interested in this work and a representative of the Council serves on the Committee of the Moral Welfare Association. A grant of £50 was made to the Association during the year under the Sunday Entertainments Act, 1932.

Welfare of Old People.

The voluntary Old People's Welfare Committee which was formed in 1949 is continuing to do excellent work. It is affiliated to the Kent Council of Social Service and its object is to promote and assist the general good of all old people in the Borough.

Its activities throughout the year have been wide and varied. There are now two Darby and Joan Clubs in the town and membership is steadily increasing. A Meals on Wheels service has been commenced, a van being supplied by the Kent County Council. Gravesend is served on Tuesdays and Thursdays. Outings are arranged for the elderly folk and a Home Visiting Scheme is now in operation.

Housing Accommodation for Old People.

During 1950 the Corporation provided ninety-two flats for old people. The number contemplated for 1951 and 1952 are 53 and 69 respectively.

Borough Maternity Home.

The Borough Council have continued to press forward the scheme for adapting and converting the Borough Infectious Diseases Hospital for the purpose of a modern Maternity Home. The South East Metropolitan Regional Hospital Board have, however, decided not to proceed with the scheme. Finally, at a meeting at the Ministry of Health on the 30th April, 1951, representatives of the Borough Council were informed that there was no likelihood that this decision would be altered.

Kent County Council's arrangements for District Medical Officers of Health.

The Borough Council have considered the proposed arrangements of the County Council under Section IIII of the Local Government Act, 1933, for securing whether by means of a combination of districts or otherwise that every medical officer of health subsequently appointed for a county district shall be restricted by the terms of his appointment from engaging in private practice as a medical practitioner.

These arrangements provide that Gravesend should combine with Northfleet and Swanscombe Urban District Councils and the Strood Rural District Council for the purpose of appointing any future Medical Officer of Health and that such Medical Officer of Health should not carry out any duties for the County Council.

The Corporation have approved these arrangements in principle provided that the County Council would agree to set up an Area Sub-Committee of the County Health Committee for the areas of these authorities and that such Medical Officer of Health be also appointed Area Medical Officer of the County Council.

SANITARY INSPECTION, HOUSING AND FOOD.

Mr. J. E. Baker, Chief Sanitary Inspector, has supplied the statistics relating to Sanitary Inspection, Housing and Food Inspection.

SECTION "C."

SANITARY CIRCUMSTANCES OF THE AREA.

WATER SUPPLY.

Public Drinking Supplies.

Two public water companies supply water to the Borough.

The water has been satisfactory.

(a) in quantity. (b) in quality.

The water in both supplies is hard and there is no evidence of plumbo-solvent action.

Twelve dwelling houses are supplied from public mains by means of stand pipes. The remainder of the Borough is supplied direct to houses. The twelve houses in question are scheduled for demolition procedure when the housing situation permits.

Bacteriological Examination.

Ninety-eight samples of water were taken for bacteriological examination as follows :—

	<i>No. of Samples.</i>	<i>Satisfactory.</i>	<i>Unsatisfactory.</i>
Gravesend & Milton Water Co's supply ...	86	81	5
Higham & Hundred of Hoo Co's supply ...	12	12	...
	—	—	—
	98	93	...
	—	—	—

The five unsatisfactory samples obtained, before treatment, from the Downs Road Well, were due to the sinking of a new bore hole nearby. Samples taken from the same source following treatment were found to be satisfactory.

Included in the foregoing are samples from the following sources :—

(a) Gravesend and Milton Water Company's Supply :

1. 23 samples of untreated water from Downs Road Well.
(18 satisfactory, 5 unsatisfactory).
2. 21 samples of treated water from outgoing main, Istead Rise.
(all satisfactory).
3. 12 samples of treated water from Downs Road obtained from Hartley.
(all satisfactory).
4. 3 samples of untreated water from Leith Park Road Well.
(all satisfactory).
5. 3 Samples of treated water from reservoir outlet, Leith Park Road.
(all satisfactory).

Chemical Analysis.

Samples taken for chemical analysis were as follows :—

	<i>No. of samples.</i>	<i>Satisfactory.</i>	<i>Unsatisfactory.</i>
Gravesend & Milton Water Co's supply (5 treated and 3 untreated)	8	8	—

NOTE—Tabulated summaries of all water samples taken and results of examination are shown on pages 48—54

Corporation Bathing Pool.

The Open-air Bathing Pool opened in 1938, has accommodation for 800 bathers.

The main pool is 150 feet long by 75 feet wide and has two shallow areas and a diving pit. The diving apparatus includes the following diving boards :—1 metre fixed ; 1 metre spring ; 3 metre fixed ; 3 metre spring ; and a 5 metre fixed and a chute.

The 400,000 gallons of water in the pools are filtered, aerated, sterilised and heated.

Wide surrounds and large areas are provided for sun-bathing, whilst a spectator's terrace surrounds the site.

On the first floor of the building a Cafe and Spectators' Gallery is provided, affording a splendid view of the whole site.

There is also a Children's Paddling Pool, 50 feet by 50 feet, with its own surround, separated from the main pool by a terrace.

During the 1950 season the following persons used the Pools :—

Bathers and Spectators	...	...	59,796
Schools	...	...	17,191
Season Pass	...	...	8,718
Clubs	...	...	3,393
H.M. Forces	...	...	175
			<hr/> 89,273

Hygienic Arrangements.

The Medical Officer of Health has continued to keep the hygienic arrangements at the Pool under supervision. "Breakpoint Chlorination," which was put into operation at midnight on 17th August, 1948 appears generally to be working efficiently.

Bacteriological Examination of Water.

Forty-five examinations were made. See tabulated summary on pages 46 and 47.

Slipper Baths.

The Slipper Baths at the Corporation Bathing Pool were opened to the public on the 31st January, 1949.

There are separate sections for males and females and originally five baths were allocated to each. It was, however, evident that a greater number of males were taking advantage of this service and in June 1949 a partition was erected in order to increase the number of baths available for this sex. The new allocation is Males—7 baths ; Females—3 baths.

This service is working very satisfactorily and is much appreciated by the residents of the town. The attendances for the year 1950 are as follows :—

Males	.....	10,075
Females	.....	3,765
		<hr/> 13,840

ADMINISTRATION OF FACTORIES ACT, 1937.

The Council has the duty to enforce certain provisions of Parts I, IV and VIII of the Factories Act, 1937.

Administrative arrangements include the following :—

Part I—Health (General Provisions).

- (1) Registration of all factories.
- (2) Inspection of sanitary conveniences in all factories.
- (3) Inspection with regard to cleanliness, overcrowding, temperature, ventilation and drainage of floors in all factories in which mechanical power is not used.

Part IV—Basement Bakehouses.

- (1) The quinquennial examination of basement bakehouses and the renewal or cancellation of Certificates of Suitability.

Part VIII—Homework.

- (1) Examination of lists, supplied to the Council by employers of outworkers in certain specified trades.
- (2) Notification of name and place of employment of any home worker employed outside the Borough to the Council in whose district his employment is situated.
- (3) Inspection of premises in which the outworker pursues his occupation.

Two hundred and seventeen inspections of factories were made during the year 1950, and the provisions of the Act, so far as they affect Local Authorities, have been enforced. The following table shows the work carried out :—

1. Inspections for the purposes of provisions as to health :—

Premises	Number on Register	Number of		
		Inspections	Written notices	Occupiers prosecuted
(i) Factories in which Sections 1,2,3,4 and 6 are to be enforced by Local Authorities ...	62	50	5	—
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	139	167	32	—
(iii) Other Premises in which Section 7 is enforced by the Local Authority (excluding out-workers premises) ...	—	—	—	—
	201	217	37	—

2. Cases in which defects were found :—

Particulars	Number of cases in which defects were found				Number of cases in which prosecutions were instituted
	Found	Remedied	Referred to H.M. Inspector	by H.M. Inspector	
Want of cleanliness ...	16	16	—	2	—
Overcrowding ...	—	—	—	—	—
Unreasonable temperature	1	—	—	1	—
Inadequate ventilation ...	—	—	—	—	—
Ineffective drainage of floors	—	—	—	—	—
Sanitary Conveniences—					
(a) insufficient ...	1	1	—	1	—
(b) unsuitable or defective	17	14	—	10	—
(c) not separate for sexes ...	2	—	—	2	—
Other offences against the Act (not including offences relating to Outwork) ...	3	2	—	1	—
	40	33	—	17	—

1. Total number of outworkers notified to Gravesend Council 1950 (under I (c) of Sect. 110 Factories Act, 1937) ... 7
2. Total number of outworkers notified by Gravesend Council to other Councils (under 2 of Sect. 110 Factories Act, 1937) ... 1
3. Total number of outworkers notified to Gravesend by other Councils ... 5
4. Total number of outworkers employed in Gravesend ... 11
5. Total number of inspections of work places (under 111 (1) Factories Act, 1937) ... 10
6. List of scheduled occupations followed by outworkers employed in premises in Gravesend :—

Wearing apparel, making etc.	11
------------------------------	-----	-----	-----	-----	----

BASEMENT BAKEHOUSES

Part IV. of the Act.

Ten visits of inspection were made during the year. Nine notices to remedy defects or for cleansing were complied with.

Certificates of Suitability are in operation in respect of five basement bakehouses. Notice to terminate the Certificate of Suitability was served in respect of one basement bakehouse in December, 1949, as a result of which the bakehouse was closed in December, 1950.

SUMMARY OF INSPECTIONS AND REVISITS.

Dwelling houses inspected	...	...	...	...	...	...	1,374
Re-inspections	...	...	...	...	...	...	4,093
Visits to other premises :—							
Bakehouses	...	...	...	...	...	...	49
Butchers' shops	...	...	...	...	...	...	157
Confectioners	...	...	...	...	...	...	46
Cooked Meat shops	...	...	...	...	...	...	28
Cowsheds	...	...	...	...	...	...	1
Dairies and milkshops	...	...	...	...	...	...	48
Dining rooms and cafes	...	...	...	...	...	...	189
Factories (with power)	...	...	...	...	...	...	167
Factories (without power)	...	...	...	...	...	...	50
Fishmongers	...	...	...	...	...	...	124
Fish frying	...	...	...	...	...	...	38
Greengrocers	...	...	...	...	...	...	255
Ice cream premises	...	...	...	...	...	...	287
Infectious diseases	...	...	...	...	...	...	666
Markets	...	...	...	...	...	...	35
Meat Depots	...	...	...	...	...	...	83
Outworkers	...	...	...	...	...	...	10
Piggeries	...	...	...	...	...	...	15
Places of entertainment	...	...	...	...	...	...	2
Provision shops	...	...	...	...	...	...	411
Public Conveniences	...	...	...	...	...	...	37
Public House Conveniences	...	...	...	...	...	...	36
Rodent Control	...	...	...	...	...	...	3,837
Schools	...	...	...	...	...	...	9
Shops (Shops Act provisions)	...	...	...	...	...	...	133
Slaughterhouses	...	...	...	...	...	...	15
Smoke observations	...	...	...	...	...	...	1
Stables	...	...	...	...	...	...	7
Tents, vans, sheds	...	...	...	...	...	...	7
Miscellaneous	...	...	...	...	...	...	2,815
Total visits of all kinds	...	...	...	...	...	...	15,025

NOTICES SERVED AND COMPLIED WITH.

In respect of dwelling houses :—

	Served.	Complied with
Informal notices	939	942
Statutory notices	59	56
In respect of other premises :—		
Informal notices	132	124

NUISANCES AND DEFECTS REMEDIED.

Accumulations removed	...	...	...	...	...	...	16
Dustbins provided	...	...	...	...	...	...	491
Cesspools—new constructed	...	...	...	...	...	...	1
covers provided	...	...	...	...	...	...	1
disused and filled in	...	...	...	...	...	...	4
Chimney stacks—repaired	...	...	...	...	...	...	9
new pots provided	...	...	...	...	...	...	2
Coppers—New provided	...	...	...	...	...	...	1
Repaired	...	...	...	...	...	...	4
Dampness—damp-proof courses provided	...	...	...	...	...	...	2
damp wallplaster removed and re-instated	...	...	...	...	...	...	135
external walls repaired	...	...	...	...	...	...	44
external walls repointed	...	...	...	...	...	...	42
external walls rendered	...	...	...	...	...	...	51
guttering repaired or renewed	...	...	...	...	...	...	86
hopper heads provided	...	...	...	...	...	...	6
roofs repaired	...	...	...	...	...	...	179
rainwater pipes renewed or repaired	...	...	...	...	...	...	65
sub-floor ventilation provided	...	...	...	...	...	...	13
Doors and door sills repaired or renewed	...	...	...	...	...	...	52
Dirty houses cleansed by tenants	...	...	...	...	...	...	5
Disinfestation of premises—							
For vermin	...	...	...	...	...	...	43
For other insect pests	...	...	...	...	...	...	1
Drainage—drains repaired	...	...	...	...	...	...	5
drains wholly relaid	...	...	...	...	...	...	6
Drains partly relaid	...	...	...	...	...	...	10
drains unstopped	...	...	...	...	...	...	52
inspection chambers provided or repaired	...	...	...	...	...	...	6
inspection chamber covers provided	...	...	...	...	...	...	7
soil and ventilation pipes, new provided	...	...	...	...	...	...	2
soil and ventilation pipes, repaired	...	...	...	...	...	...	4
soil and ventilation pipes, removed...	...	...	...	...	...	...	4
gullies and/or grids provided	...	...	...	...	...	...	11
gully curbs or channels repaired or provided	...	...	...	...	...	...	22
Fireplaces renewed or repaired	...	...	...	...	...	...	50
Floors repaired or relaid	...	...	...	...	...	...	66
Hearths repaired	...	...	...	...	...	...	1
Lavatory basins repaired or renewed	...	...	...	...	...	...	3
Light and ventilation provided or improved	...	...	...	...	...	...	4
Paving relaid or repaired	...	...	...	...	...	...	27
Rooms, passages and staircases—							
—ceilings repaired and/or cleansed and whitened	...	...	...	...	...	...	256
—walls repaired and/or papered or distempered	...	...	...	...	...	...	517
Sinks—new provided	...	...	...	...	...	...	8
Sink or bath waste pipes renewed or repaired...	...	...	...	...	...	...	35
Soakaways cleared	...	...	...	...	...	...	18
,, provided...	...	...	...	...	...	...	1
Stoves renewed or repaired	...	...	...	...	...	...	30

Staircases repaired ... ..	...	...	...	...	87
Steps and thresholds repaired or renewed	...	...	...	...	8
Water supply—internal supply provided	...	...	...	...	1
water pipes, etc., repaired	...	...	...	...	35
Water closets—new constructed	...	...	...	...	4
repaired and/or cleansed	...	...	...	...	33
new pans provided	...	...	...	...	22
pans cleansed	...	...	...	...	7
unstopped	...	...	...	...	10
flushing cisterns provided	...	...	...	...	2
flushing cisterns repaired	...	...	...	...	48
seats renewed or repaired	...	...	...	...	29
Windows—renewed or repaired	...	...	...	...	209
sashcords provided	...	...	...	...	266
sills renewed or repaired	...	...	...	...	46
sash weights provided or adjusted	...	...	...	...	15
Other matters	...	...	...	...	35

LEGAL PROCEEDINGS.

Public Health Act, 1936, Section 93.

Proceedings were instituted under the above Act as following :—

1. For failing to comply with an Abatement Notice served under Section 93. A Court Order was made for the work to be completed within 42 days with costs, £4/4/0 and 8/- Court fees.
2. For failing to comply with an Abatement Notice served under Section 93. A Court Order was made for the work to be completed within 42 days with costs, £2/2/0 and 8/6 Court fees.
3. For failing to comply with the Court Order referred to under (2). Defendant was fined £2/0/0 with £2/2/0 costs and ordered to carry out the work within one month.
4. For again failing to comply with the Court Order referred to under (2). Defendant was fined £10/0/0 with £2/2/0 costs.

Food and Drugs Act, 1938, Sec. 3.

For selling a loaf of bread containing tobacco, defendant was fined £10/0/0 with £3/3/0 costs.

ERADICATION OF VERMIN.

The work of disinfection of Council houses is carried out by the Local Authority, infested rooms being sprayed with an insecticide.

Premises belonging to private owners are also disinfested on request, and the cost of the work is charged to the owners concerned.

Particulars of action taken during 1950 :—

		<i>Council houses.</i>	<i>Other houses.</i>	<i>Total.</i>
Number of houses found to be infested	...	24	33	57
Number of houses disinfested	...	24	33	57

SHOPS ACTS, 1912-1934.

Shops have been kept under observation during the year. One hundred and thirty-three inspections were made.

DRAIN TESTING.

Drains at 15 premises were tested during the year, with the following results :—

					<i>No. of tests made</i>	<i>Found to be sound.</i>	<i>Found to be defective.</i>
New drains	...	...	...	...	21	17	4
Old drains	...	...	...	...	—	—	—
					—	—	—
					21	17	4
					—	—	—

All drains found to be defective were relaid.

CESSPOOL AND PAIL SYSTEM.

There are still approximately 650 premises in the Eastern and Southern parts of the Borough where the drainage discharges into cesspools.

The Health Department is responsible for this work but the actual emptying of cesspools is carried out on behalf of the Department by the Borough Engineer's Department, a combined road gully and cesspool emptying machine being used for the purpose.

During the year 9,088 tons of sewage were removed, requiring 785 emptyings, compared with 8,118 tons requiring 721 emptyings the previous year.

Approximately 20 pails are in use in the Borough, of these, 7 are emptied twice weekly by the Public Health Department and the remainder are dealt with by the owners or occupiers.

HOUSE AND TRADE REFUSE REMOVAL AND DISPOSAL.

(a) Collection.

Eight Shelvoke & Drewry freighters including one spare machine are used for this service.

One of these vehicles with driver and one loader is also employed on the collection of trade refuse from large establishments, collections being made more frequently than in the case of ordinary domestic refuse, which is collected weekly.

Refuse collected during the year amounted to 11,504 tons, compared with 11,376 tons the previous year, these amounts being ascertained by test weighing.

The amount of refuse collected is steadily increasing year by year, as will be seen by the following figures for the past five years :—

1946	.....	8,946 tons
1947	.....	10,088 „
1948	.....	10,798 „
1949	.....	11,376 „
1950	—	11,504 „

(b) Disposal.

All refuse is disposed of by means of controlled tipping on land at Denton marshes. This land, approximately 44 acres in extent, has been used for tipping since January, 1944, and it is estimated that it will be possible to tip on the site for a further eight years.

SALVAGE.

Two Shelvoke & Drewry freighters are employed in the collection of salvage, primarily for waste paper and food waste.

Salvaged materials collected and sold during the year were as follows :—

<i>Materials.</i>	<i>Weight.</i>			<i>Value.</i>		
	Tons.	cwt.	lbs.	£	s.	d.
Waste Paper	393	19	56	2,401	6	3
Food Waste	281	6	56	803	5	6
Metals	11	5	105	25	0	5
Textiles	3	7	0	56	19	8
	689	18	105	£3,286	11	10

Since 1940, 7,951 tons of salvaged materials valued £29,913 have been sold.

DISINFECTION OF PREMISES.

Disinfection of rooms and bedding was carried out at 137 premises.

PUBLIC CONVENIENCES.

The Health Department is responsible for the staffing and cleansing of public conveniences in the Borough and the collection of receipts therefrom.

One underground convenience, with male and female sections, is situated in Parrock Street and includes washing facilities. Male and female attendants are employed at this convenience.

One convenience for females, provided with attendants and washing facilities, is situated on the Gordon Promenade, but is open only during the summer months.

One convenience for males and one for females are situated in Fort Gardens. An attendant is employed at the females' convenience during entertainments in the summer.

Other small public conveniences are situated in various parts of the Borough. These are without washing facilities or attendants.

Conveniences at 14 licensed premises are also cleansed by Health Department employees in consideration of the fact that they are available for the use of the general public at all times.

Conveniences attached to other licensed premises are also kept under supervision.

RODENT CONTROL

The Prevention of Damage by Pests Act, 1949, came into force on 31st March, 1950.

Under this Act it is the duty of the Local Authority to take such steps as may be necessary to secure as far as practicable that their district is kept free from rats and mice, and in particular—

- (a) from time to time to carry out such inspections as may be necessary for the purpose aforesaid.
- (b) to destroy rats and mice on land of which they are the occupier and otherwise to keep such land so far as practicable free from rats and mice.
- (c) to enforce the duties of owners and occupiers of land under the following provisions of this part of this Act, and to carry out such operations as are authorised by those provisions.

All infested premises notified to the Health Department or discovered during the course of inspection during the year were dealt with. The cost of disinfection at business premises by the Council's Rodent Officer is charged to the occupiers, but the work at dwelling houses is carried out free.

The following report summarises the work carried out during the year 1950 :—

Number of infested premises brought forward from 1949	...	...	28
Reported as infested during 1950	...	...	344
Premises cleared	...	...	361
Premises still under observation at end of year	...	...	11
Total number of visits	...	...	3,837
Estimated number of rats killed	...	...	2,016

In addition to the above, two maintenance treatments of the sewers for the destruction of rats were carried out, one during the period 15th May to 10 June and the other during the period 8th November to 9th December. A test treatment was also carried out during the period 8th to 13th May of ten per cent of the sewer manholes in the area previously found to be uninfested.

Rats killed during these treatments are not included in the figures recorded above as the Ministry of Agriculture and Fisheries do not consider it necessary to record poison takes in sewer maintenance treatments.

SECTION "D."

HOUSING.

Housing continues to be a major problem. There is a large amount of over-crowding in the town, but statistics are lacking because we have not been able to make a survey. Callers give the Medical Officer distressing accounts of their difficulties. The most urgent cases are being dealt with and accommodation is allocated by the Housing Selection Sub-Committee after careful thought. I am particularly grateful for the way in which they considered the families I have put before them, and more especially for those patients suffering from tuberculosis who have been re-housed during 1950.

The Borough Engineer has kindly supplied the following information :—

Houses completed during 1950—				
By Corporation	.....	.....	.....	115
By Private Enterprise	.....	.....	.....	45
				<hr/> 160
Contemplated, 1951	.....	.....	.....	147
Contemplated, 1952	.....	.....	.....	131
				<hr/> 438*
Flats completed for Old People during 1950			...	92
Contemplated 1951	...	...	...	53
Contemplated, 1952	...	...	...	69
				<hr/> 214
Houses Built by Private Enterprise during 1950—				
Houses	.....	.....	.....	45
Bungalows	.....	.....	.....	8
Rebuilds	.....	.....	.....	0
				<hr/> 53

Inspection of dwelling-houses during the year :—

(1)	(a)	Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	.....	1374
	(b)	Number of inspections made for the purpose	.....	5467
(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	.....	Nil
	(b)	Number of inspections made for the purpose	.....	Nil
(3)		Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	.....	9
(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	.....	828

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			744

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 repairs		Nil
(2)	Number of dwelling-houses which were rendered fit after service of formal notices :—		
(a)	By owners		Nil
(b)	By Local Authority in default of owners		Nil
(b) Proceedings under Public Health Acts :—			
(1)	Number of dwelling-houses in respect of which notices were served requiring defects to be remedied		61
(2)	Number of dwelling-houses in which defects were remedied after service of formal notices :—		
(a)	By owners		54
(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		Nil
(2)	Number of dwelling-houses demolished in pursuance of Demolition Orders		Nil
(3)	Number of dwelling houses demolished without formal procedure		5
(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

Housing Accommodation.

Visits have been made to all premises reported as being overcrowded or as being otherwise unsuitable for the health of the occupants. The following is a summary of the action taken and subsequent results since 1945 :—

	1945 to 1949	1950	Total
I. Reported to Housing Department as—			
(a) Overcrowded	122	24	146
(b) Not overcrowded but otherwise unsuitable	92	18	110

	1945 to 1949	1950	Total
2. Reported to other authorities as—			
(a) Overcrowded	1	1	2
(b) Not overcrowded but otherwise unsuitable	2	3	5
(c) Not overcrowded or otherwise unsuitable	2	—	2
3. Inspected but no action considered necessary	110	7	117
4. Conditions found on re-inspection to have been abated at—			
(a) Overcrowded premises	88	13	101
(b) Premises where conditions were otherwise unsuitable	71	14	85

Included in No. 4 were thirty-three cases where members of the families concerned were suffering from tuberculosis and six from other illness.

INSPECTION AND SUPERVISION OF FOOD

Food Premises.

Bye-laws made by the Council under Section 15 of the Food and Drugs Act, 1938 came into operation on the 10th October, 1950.

These bye-laws were made for securing the observance of sanitary and cleanly conditions and practices in connection with the handling, wrapping and delivering of food sold or intended for sale for human consumption, and in connection with the sale or exposure for sale in the open air of food intended for human consumption.

Inspection of food premises is being maintained to ensure compliance with these bye-laws and the provisions of Section 13 of the Food and Drugs Act, 1938, and the following is a summary of the visits made and results of inspections :—

	<i>Number of visits</i>	<i>Number of notices Served. Complied with.</i>	
Bakehouses	49	13	11
Butchers	157	17	16
Bakers and Confectioners	46	2	3
Cooked Meat Shops	28	3	3
Dairies and Milkshops	48	1	1
Dining Rooms and Cafes	189	24	22
Fish Frying Establishments	38	3	4
Fishmongers	124	3	3
Greengrocers	255	8	8
Ice Cream Premises	287	3	3
Meat Depots	83	—	—
Provision Dealers	411	11	13
	<hr/> 1715	<hr/> 88	<hr/> 87

Thirty-nine premises are registered under Section 14 of the Food and Drugs Act, 1938, for the preparation or manufacture of sausages or potted, pressed, pickled or preserved food intended for sale, and 18 for the preparation and sale of fried fish.

Milk Supply.

There is one dairy farm in the Borough. Under the Milk and Dairies Regulations, dairy farms and dairy farmers are registered by the Ministry of Agriculture and Fisheries and under their control.

Other dairies and milk distributors are registered by local authorities and there are now on the register 34 dairies and 39 distributors.

Bacteriological Examination of Milk.

Two hundred and thirty-seven samples of milk were taken and submitted for bacteriological examination and the following is an analysis of the results obtained :—

<i>Designation.</i>	<i>No. of Samples.</i>	<i>Methylene Blue Test.</i>		<i>Phosphatase Test.</i>	
		<i>Satisfactory.</i>	<i>Un- satisfactory.</i>	<i>Satisfactory.</i>	<i>Un- satisfactory.</i>
Pasteurised	127	70	—	68	2
Tuberculin Tested (pasteurised)	49	25	—	25	—
Tuberculin Tested	2	2	—	—	—

		No. of Samples	Turbidity Test	
			Satisfactory.	Unsatisfactory.
Sterilised	...	39	39	—
			Coliform Bacilli.	
	No. of Samples	Plate Count.	Un- Satisfactory.	Un- satisfactory.
Ungraded	20	17	3	5

Six of the above recorded samples (1 pasteurised and 5 ungraded) were also examined for the presence of tubercle bacilli, and all gave negative results.

Milk (Special Designation) (Raw Milk) Regulations, 1949.

Milk (Special Designation) (Pasteurised and Sterilised Milk) Regulations, 1949.

These Regulations came into operation on 1st October, 1949, and the special designations authorised by them which may be used in relation to milk are, in respect of the first named, "Tuberculin Tested" and "Accredited," and in respect of the last named "Pasteurised" and "Sterilised."

Licences issued under these Regulations were as follows:—

"Tuberculin Tested"	Dealer's Licences	.....	3
	Dealer's Supplementary Licences	.....	2
"Tuberculin Tested" (Pasteurised)	Dealer's Licences	.....	3
	Pasteuriser's Licences	.....	3
"Pasteurised"	Dealer's Licences	.....	7
	Dealer's Supplementary Licences	.....	3
	Dealer's Licences	.....	22
	Dealer's Supplementary Licences	.....	3
"Sterilised"	Dealer's Licences	.....	22
	Dealer's Supplementary Licences	.....	3

Ice Cream.

Ninety premises are registered under Section 14 of the Food and Drugs Act, 1938, for the sale of ice cream, and 3 for the manufacture and sale of ice cream, 2 under Heat Treatment and 1 by the "Cold Mix" process. Two hundred and eighty seven inspections were made in 1950.

Eighty-seven samples of ice cream were taken and submitted for bacteriological examination with the following results:—

		<i>Number of Samples.</i>		<i>Total.</i>
		<i>Manufactured by Producers in the Borough.</i>	<i>Manufactured by Producers outside the Borough.</i>	
Grade 1	.....	19	30	49
" 2	.....	8	12	20
" 3	.....	6	8	14
" 4	.....	1	3	4
		—	—	—
		34	53	87
		—	—	—

Slaughterhouses.

There is now only one licensed slaughterhouse in the Borough and this is only used for the slaughter of animals by private keepers under licence from the Ministry of Food. Visits of inspection made during the year numbered 15.

The provisions of the slaughter of Animals Act, 1933, relating to humane slaughtering of animals have been complied with. The number of slaughtermen holding licences at the end of the year was 16.

Public Health (Meat) Regulations, 1924.

Meat Inspection—Carcases Inspected and Condemned

	<i>Cattle excluding Cows</i>	<i>Cows</i>	<i>Calves</i>	<i>Sheep and Lambs</i>	<i>Pigs</i>
Number killed	—	—	—	—	16
Number inspected	—	—	—	—	16
All diseases except Tuberculosis. Whole carcases condemned	—	—	—	—	—
Carcases of which some part or organ was condemned	—	—	—	—	—
Percentage of the number inspected affected with disease other than Tuberculosis	—	—	—	—	—
Tuberculosis only. Whole carcasses condemned	—	—	—	—	1
Carcases of which some part or organ was condemned	—	—	—	—	1
Percentage of the number inspected affected with Tuberculosis	—	—	—	—	12.5

Unsound Food

The following food was condemned as unfit for human consumption :—

(a) Carcase meat and offal :—

	lbs.		lbs.
Beef (unsound or bruised)	1,416	Bovine Livers (abscess) ...	38½
Beef (calloused) ...	177	Bovine Brains (unsound)	25
Beef (contaminated) ...	24	Bovine Udders (unsound)	345
Beef (putrefaction) ...	45	Mutton (unsound or bruised)	4
Beef (Tubercular) ...	62	Mutton (mould) ...	3,087½
Bovine Livers (unsound) ...	32	Sheeps Plucks (abscess) ...	5
Bovine Livers (flukes) ...	51	Pork (Tubercular) ...	263
			<hr/>
			5,575

(b) Fish (unsound) :—

	lbs.		lbs.
Bream	48	Kippers	28
Cod	196	Plaice	28
Dog Fish	49	Roes	56
Haddock	84		<hr/>
			489

(c) Canned foods (unsound)

<i>Fish</i>				lbs.					lbs.
Anchovies	...	...	...	8	Pilchards	...	...	...	9
Brislings	...	...	...	47	Rockfish	...	...	...	1
Cod	...	...	...	2	Roes	...	...	...	25
Crab	...	...	...	4	Salmon	...	...	...	47
Crawfish	...	...	...	8	Sardines	...	...	...	1
Hake	...	...	...	7	Silds	...	...	...	2
Herrings	...	...	...	9	Tunny fish	...	...	...	1
									<hr/>
									171
									<hr/>

Fruit :—

				lbs.					lbs.
Apricots	...	...	...	40	Loganberries	...	...	...	1
Apples	...	...	...	40	Macedoines	...	...	...	13
Blackberries	...	...	...	3	Peaches	...	...	...	70
Cherries	...	...	...	39	Pears	...	...	...	73
Damsons	...	...	...	28	Pineapple	...	...	...	6
Fruit Juices	...	...	...	17	Pineapple Jelly	...	...	...	5
Gooseberries	...	...	...	13	Plums	...	...	...	184
Grapes	...	...	...	36	Rhubarb	...	...	...	14
Grapefruit	...	...	...	20	Tomatoes	...	...	...	178
Greengages	...	...	...	1					<hr/>
									781
									<hr/>

Meat :—

				lbs.					lbs.
Bacon	...	...	...	2	Mutton	...	...	...	90
Beef	...	...	...	849	Pork	...	...	...	56
Brawn	...	...	...	55	Rabbit	...	...	...	84
Ham	...	...	...	13	Sausages	...	...	...	105
Luncheon Meat	...	...	...	481	Steak	...	...	...	30
					Veal	...	...	...	42
									<hr/>
									1807
									<hr/>

Vegetables :—

				lbs.					lbs.
Beans	...	...	...	228	Peas	...	...	...	305
Beetroot	...	...	...	150	Potatoes	...	...	...	5
Carrots	...	...	...	60	Spinach	...	...	...	17
Mixed & Strained Vegetables	...	...	...	15					<hr/>
									780
									<hr/>

Miscellaneous :—

	lbs.		lbs.
Dried Eggs ...	1	Pate-de-Foix ...	1
Fish Cakes ...	94	Puddings ...	6
Jam ...	137	Spaghetti ...	35
Marmalade ...	60	Soup ...	25
Milk ...	942	Syrup ...	6
Mincemeat ...	16		
			<hr/> 1323 <hr/>

(d) Miscellaneous (Unsound or damaged) :

	lbs.		lbs.
Butter (Peanut) ...	8	Pastry Mixture ...	25
Baby Food ...	1	Meat and Fish Paste ...	2
Cereals ...	6	Pears ...	140
Cheese ...	1	Pickles ...	5
Chicken ...	119	Pudding Mixture ...	63
Eggs ...	59	Rabbit ...	64
Figs ...	25	Rice ...	30
Geese ...	146	Sago ...	7
Gelatine ...	2	Salad Dressing ...	4
Lentils ...	2	Sandwich Spread ...	11
Mayonnaise ...	1	Suet ...	1
Meat Pies ...	7	Sweets ...	25
Mincemeat ...	4	Tea ...	3
Mint Sauce ...	11	Walnuts ...	4
Onions ...	4		
			<hr/> 780 <hr/>

Total approximate weights

	Tons	Cwts.	Qrs.	lbs.
(a) Carcase meat ...	2	9	3	3
(b) Fish ...		4	1	13
(c) Canned foods ...	2	3	1	18
(d) Miscellaneous ...		6	3	24
	<hr/> 5	<hr/> 4	<hr/> 2	<hr/> 2

Food and Drugs Act, 1938.

One hundred and eighteen samples were taken under the Food and Drugs Act, 1938 and submitted to the Public Analyst. Particulars of the samples and a summary of the results are shown in the following table :—

Samples	Number of		Result of Analyses	
	Formal.	Informal.	Genuine	Adulterated
Baking powder ...	—	1	1	—
Boracic Ointment ...	—	1	1	—
Butter ...	2	—	2	—
Black Pudding ...	1	—	1	—
Cake flour ...	1	—	1	—
Camphorated oil ...	—	1	1	—

<i>Samples.</i>	<i>Number of</i>		<i>Result of Analyses</i>	
	<i>Formal.</i>	<i>Informal.</i>	<i>Genuine.</i>	<i>Adulterated.</i>
Castor oil	—	I	I	—
Cheese	I	—	I	—
Citrus Peel	I	—	I	—
Cocoa	I	—	I	—
Cod liver oil	—	I	I	—
Cooking fat	2	—	2	—
Coffee	I	—	I	—
Desiccated coconut	I	—	I	—
Fish paste	—	2	2	—
Flour	—	I	I	—
Glycerine	—	I	I	—
Ground almonds	I	—	I	—
Halibut liver oil	—	I	I	—
Honey	I	—	I	—
Ice cream	—	13	13	—
Jam	I	—	I	—
Margarine	2	—	2	—
Mayonnaise	—	I	I	—
Meat Paste	—	I	I	—
Meat pie	I	I	2	—
Milk	51	6	55	2
Mustard	—	I	I	—
Pepper	—	I	I	—
Pepper flavoured compound	—	I	I	—
Pork luncheon meat	I	—	I	—
Salad cream	—	I	I	—
Sauce	—	I	I	—
Sausages	3	—	3	—
Semolina	2	—	2	—
Soup powder	—	I	I	—
Spice	—	I	I	—
Sponge mixture	—	I	I	—
Suet	I	—	I	—
Tincture of Iodine	—	I	I	—
Vinegar	—	I	I	—
Zinc ointment	—	I	I	—
	75	43	116	2

Particulars of adulterated samples and action taken :—

Milk Samples Nos. 769 and 780—Deficient in fat to the extent of 7 per cent and 3 per cent respectively. No action was taken as the deficiency was due to failure by the Farmer to bulk the milk produced from morning and afternoon milkings.

SECTION "F."

PREVALENCE AND CONTROL OVER INFECTIOUS AND "OTHER DISEASES."

Infectious Diseases.

The following notifiable infectious diseases were recorded :—

Measles	.....	194
Whooping Cough	.....	89
Tuberculosis—Respiratory	.....	65
Non Respiratory	.....	9
Scarlet Fever	.....	63
Pneumonia	.....	15
Erysipelas	.....	6
Acute Poliomyelitis—Paralytic	.....	8
Non-Paralytic	.....	1
Dysentery	.....	2
Puerperal Pyrexia	.....	1
Ophthalmia Neonatorum	.....	1
Typhoid Fever	.....	1
Total	.....	<hr/>455 <hr/>

A table showing other particulars is given on page 43.

There were no cases of Smallpox, Diphtheria or Food Poisoning.

Institutional Accommodation for Infectious Diseases.

Patients needing institutional accommodation, either for treatment or isolation were sent to Bow Arrow Hospital, Dartford, or Joyce Green Hospital, Dartford.

The other arrangements include the following :—

- (a) Ophthalmia Neonatorum—Kent Ophthalmic Hospital, Maidstone.
- (b) Smallpox—The River Hospitals (Long Reach) Dartford.
- (c) Tuberculosis—Arrangements made by the Chest Physician to the South East Metropolitan Regional Hospital Board.

Diphtheria Immunisation.

This work is now under the control of the Kent County Council and the following arrangements are in operation :—

1. Immunisations are carried out at the Doctor's sessions at each Welfare Centre and School Clinic.
2. Immunisations on behalf of the Local Health Authority are carried out by General Practitioners at their surgeries.
3. Notices are sent to every infant at the age of 8 months.
4. The Health Visitors follow up all cases in which there is no record of the injections having been given.

The diphtheria immunisation statistics for the year are as follows :—

During the year 473 children under fifteen years of age were immunised for the first time—459 children under five years and 14 over five years of age.

Fifteen children under five years and 134 children over five years of age were given re-inforcing injections.

The total number of diphtheria immunisations up to the end of the year is as follows :—

		<i>Under 5 years.</i>	<i>5 and under 15 years.</i>	<i>Total.</i>
Number immunised	— —	2,201	5,647	7,848
Percentage Immunised	— —	52.7	87.4	73.8

Vaccination.

When the National Health Service Act, 1946, came into operation the Vaccination Acts were repealed and infant vaccination ceased to be compulsory.

Vaccinations carried out during the year were as follows :—

	<i>Under 1 year.</i>	<i>1-4 years.</i>	<i>5-14 years</i>	<i>15 years and over.</i>	<i>Total.</i>
Primary Vaccinations	253	187	35	25	500
Re-Vaccinations	—	5	42	119	166

(Figures for Vaccination carried out at the Sea School are not available)

Smallpox Prevention.

There were a number of people in the town who had been in direct or indirect contact with the case of Smallpox which occurred on the S.S. "Strathnaver" in June, 1950. Vaccinations were carried out and all contacts were kept under careful surveillance. Fortunately no smallpox occurred in Gravesend.

Tuberculosis—Diagnosis.

The Tuberculosis Clinic is provided at the Gravesend and North Kent Hospital where patients are seen every Wednesday at 9 a.m.

The Mass Radiography Unit visited Gravesend in January and December, 1950, and carried out a survey of certain industrial workers and schoolchildren.

The following number of volunteers took part in the survey :—

	<i>Male</i>	<i>Female</i>	<i>Total</i>
Industrial Workers ...	247	67	314
Schoolchildren ...	517	601	1,118

Tuberculosis—Statistics.

Public Health (Tuberculosis) Regulations, 1930.

Notification of New Cases.

In 1950, 74 cases were notified. The following table gives comparative particulars over the last ten years :—

Year.	<i>Estimated Population of Registrar General.</i>	<i>Pulmonary.</i>	<i>Non- Pulmonary.</i>	<i>Total.</i>
	<i>General.</i>			
1941	34,100	48	8	56
1942	35,460	43	12	55
1943	35,260	48	10	58
1944	35,080	34	8	42
1945	36,090	32	4	36
1946	40,340	45	9	54
1947	41,630	75	8	83
1948	42,890	48	7	55
1949	43,250	82	10	92
1950	44,290	65	9	74

The sources from which the notifications of tuberculosis were received :—

Chest Physician	...	...	...	...	54
Private Medical Practitioners	...	...	...	...	13
General Hospitals and Institutions	...	...	...	...	7

Age and Sex Distribution.

The following table shows the age and sex distribution of our 74 new cases :—

<i>Age Periods.</i>	<i>Pulmonary</i>		<i>Non-Pulmonary.</i>	
	<i>Male.</i>	<i>Female.</i>	<i>Male</i>	<i>Female.</i>
0-1	—	—	1	—
1-5	3	1	1	1
5-10	2	3	2	—
10-15	3	1	1	1
15-20	2	4	—	1
20-25	4	5	—	1
25-35	12	7	—	—
35-45	3	2	—	—
45-55	4	1	—	—
55-65	6	2	—	—
65 and upwards	—	—	—	—
	39	26	5	4

Occupational Analysis.

						<i>Male</i>	<i>Female</i>
Baker's Roundsman	...	...	...	...	...	I	—
Barman ...	...	...	...	...	...	I	—
Bus Conductor	...	...	...	...	...	I	—
Bus Conductress	...	...	...	...	...	—	I
Canteen Assistant	...	...	...	...	...	—	I
Cement Worker	...	...	...	...	...	I	—
Charge Hand	...	...	...	...	...	I	—
Chemist's Assistant	...	...	...	...	...	—	I
Cinema Operator	...	...	...	...	...	I	—
Clerk ...	...	...	...	...	...	2	2
Compositor	...	...	...	...	...	2	—
Customs and Excise Officer	...	...	...	...	...	I	—
Draughtsman	...	...	...	...	...	I	—
Driver's Mate	...	...	...	...	...	I	—
Finisher ...	...	...	...	...	...	I	—
Housewife	...	...	...	...	...	—	10
Industrial Chemist	...	...	...	...	...	I	—
Kiln Burner	...	...	...	...	...	I	—
Lighterman	...	...	...	...	...	I	—
Manager ...	...	...	...	...	...	I	—
Machinist	...	...	...	...	...	I	—
Mariner ...	...	...	...	...	...	I	—
Merchant Seaman	...	...	...	...	...	2	—
Nursery Assistant	...	...	...	...	...	—	I
Paper Maker	...	...	...	...	...	I	—
Paper Sorter	...	...	...	...	...	—	I
Postman ...	...	...	...	...	...	I	—
Seaman ...	...	...	...	...	...	I	—
Secretary	...	...	...	...	...	I	—
Scholar ...	...	...	...	...	...	8	5
Shop Assistant	...	...	...	...	...	—	3
Steel Erector	...	...	...	...	...	I	—
Student Nurse	...	...	...	...	...	—	2
Tailoress ...	...	...	...	...	...	—	I
Wharf Superintendent	...	...	...	...	...	I	—
Children under five years	...	...	...	...	...	5	2
No occupation	...	...	...	...	...	3	—
						—	—
						44	30
						—	—

Deaths and Death Rate.

There were 14 deaths registered from Pulmonary Tuberculosis. This gives a death rate of .32 per 1,000 population for all forms of Tuberculosis.

The following table compares the figures for 1950 with those of the previous years :—

Year.	Pulmonary		Non-Pulmonary		Total
	Number.	Rate per 1,000 Pop.	Number.	Rate per 1,000 Pop.	Rate per 1,000 Pop.
1941	15	.43	2	.05	.48
1942	18	.5	6	.16	.66
1943	21	.59	6	.17	.76
1944	15	.42	2	.05	.47
1945	19	.52	4	.11	.63
1946	16	.37	2	.05	.42
1947	24	.57	2	.04	.62
1948	23	.54	2	.05	.58
1949	24	.55	2	.05	.60
1950	14	.32	—	—	.32

Tuberculosis Register.

The names of 36 persons were removed from the Register for the following reasons :—

Deaths ...	...	...	...	...	12
Left the District	...	...	...	...	15
Recovered	...	...	...	...	9
					<hr/> 36 <hr/>

Four hundred and eighty-six persons remained on the Register at the 31st December, 1950. They consist of the following :—

			Males.	Females.	Total.
Pulmonary	...	...	253	162	415
Non-Pulmonary	...	...	30	41	71
			<hr/> 283 <hr/>	<hr/> 203 <hr/>	<hr/> 486 <hr/>

Sanatorium and Hospital Treatment.

Twenty-one patients suffering from Pulmonary Tuberculosis were admitted to Sanatorium. Seven Non-Pulmonary cases received treatment in Hospital.

Legal Proceedings.

No action was necessary during the year under the Public Health (Prevention of Tuberculosis) Regulations, 1925, or under Section 172 of the Public Health Act, 1936.

Venereal Diseases.

Administrative arrangements are now under the control of the South East Metropolitan Regional Hospital Board.

The Surgeon in charge of the Gravesend Clinic, has kindly supplied the following statistics :—

<i>New Patients—Gravesend.</i>				<i>Male.</i>	<i>Female.</i>	<i>Total.</i>
Syphilis	...	...	...	1	6	7
Gonorrhoea	...	...	...	12	2	14
Non-Venereal	...	...	...	25	20	45
				<hr/> 38	<hr/> 28	<hr/> 66
Total No. of Patients (new) from all areas				...	...	221
No. of attendances of Gravesend Patients				...	...	954
Total No. of attendances—all areas				...	...	1,958

Discharges (all districts).

<i>Discharged cured :—</i>				<i>Male.</i>	<i>Female.</i>	<i>Total.</i>
Syphilis	...	...	...	11	14	25
Gonorrhoea	...	...	...	25	5	30
Non-Venereal	...	...	...	101	29	130
				<hr/> 137	<hr/> 48	<hr/> 185

Defaulted before Completion of Treatment :—

				<i>Male.</i>	<i>Female.</i>	<i>Total.</i>
Syphilis	...	...	...	2	4	6
Gonorrhoea	...	...	...	2	—	2
				<hr/> 4	<hr/> 4	<hr/> 8

Cleanliness, Good Health and Elimination of Verminous Conditions.

The Health Visitors and Sanitary Inspectors have been active in their educative work in regard to cleanliness and freedom from vermin. Seven verminous persons were cleansed—five schoolchildren and two adults

Scabies.

During the year 47 persons suffering from scabies were met with. This includes 17 school children. The total figure for the previous year was 59.

All cases were treated at the Corporation Cleansing Centre which was opened in 1945. A female cleanliness officer and a male attendant are provided; 76 treatments were given. The facilities are satisfactory and the service is much appreciated.

Corporation Mortuary.

Sixty-six bodies were received and 65 post-mortems performed.

Coroner's Inquests.

H. M. Coroner has kindly supplied the following information:—

Total number of inquests	...	...	...	...	...	29
Number of inquests without post-mortems	...	...	...	...	...	1
Number of post-mortems without inquests	...	...	...	...	...	49
Verdicts	...	...	...	...	...	29
Accidental deaths	...	...	...	...	...	26
Suicides	...	...	...	...	...	1
Found drowned	...	...	...	...	...	—
Other verdicts	...	...	...	...	...	2

Causes of Death in Gravesend for 1950, as provided by the Registrar General.

			Male	Female	Total
1.	Tuberculosis, Respiratory	...	8	6	14
2.	Tuberculosis, Other forms	...	—	—	—
3.	Syphilitic disease	...	2	1	3
4.	Diphtheria	...	—	—	—
5.	Whooping cough	...	—	—	—
6.	Meningococcal infections	...	—	—	—
7.	Acute poliomyelitis	...	1	—	1
8.	Measles	...	—	—	—
9.	Other infective and parasitic diseases	...	—	—	—
10.	Malignant neoplasm, stomach	...	10	6	16
11.	Malignant neoplasm, lung, bronchus	...	9	3	12
12.	Malignant neoplasm, breast	...	—	13	13
13.	Malignant neoplasm, uterus	...	—	4	4
14.	Other malignant and lymphatic neoplasms	...	23	28	51
15.	Leukaemia, aleukaemia	...	2	4	6
16.	Diabetes	...	1	2	3
17.	Vascular lesions of nervous system	...	41	44	85
18.	Coronary disease, angina	...	27	18	45
19.	Hypertension with heart disease	...	7	9	16
20.	Other heart diseases	...	37	37	74
21.	Other circulatory diseases	...	11	10	21
22.	Influenza	...	1	3	4
23.	Pneumonia	...	5	6	11
24.	Bronchitis	...	14	11	25
25.	Other diseases of respiratory system	...	1	1	2
26.	Ulcer of stomach and duodenum	...	1	—	1
27.	Gastritis, enteritis and diarrhoea	...	1	3	4
28.	Nephritis and nephrosis	...	1	4	5
29.	Hyperplasia of prostate	...	—	—	—
30.	Pregnancy, childbirth, abortion	...	—	1	1
31.	Congenital malformations	...	1	1	2
32.	Other defined and ill-defined diseases	...	22	27	49
33.	Motor vehicle accidents	...	2	—	2
34.	All other accidents	...	8	5	13
35.	Suicide	...	—	—	—
36.	Homicide and operations of war	...	—	—	—
Total—All causes			236	247	483

Deaths of Infants under 1 year of age.

					<i>Male.</i>	<i>Female.</i>	<i>Total.</i>
Legitimate	...	...	...	...	14	7	21
Illegitimate	...	...	...	...	—	—	—
					—	—	—
			Total	...	14	7	21
					—	—	—

					<i>Male</i>	<i>Female</i>	<i>Total</i>
Death of Infants under 4 weeks of age.							
Legitimate	...	...	...	...	9	4	13
Illegitimate	...	...	...	...	—	—	—
					—	—	—
			Total	...	9	4	13
					—	—	—

Births—for Infant Mortality Rate, etc.

LIVE BIRTHS :					<i>Male.</i>	<i>Female.</i>	<i>Total.</i>
Legitimate	...	...	...	...	384	352	736
Illegitimate	...	...	...	...	10	14	24
					—	—	—
			Total	...	394	366	760
					—	—	—

STILL BIRTHS :					<i>Male</i>	<i>Female</i>	<i>Total</i>
Legitimate	...	...	...	...	7	6	13
Illegitimate	...	...	...	...	2	—	2
					—	—	—
			Total	...	9	6	15
					—	—	—

INFECTIOUS DISEASES NOTIFIED DURING 1950.

DISEASE.	Under one year	One year and under 3 yrs.	3 and under 5 yrs.	5 and under 10 yrs.	10 and under 15 yrs.	15 and under 25 yrs.	25 and under 45 yrs.	45 and under 65 yrs.	Total	Number removed to Hospital
Scarlet Fever	—	6	14	37	3	1	2	—	63	16
Whooping Cough	5	18	23	38	1	1	3	—	89	—
Measles	5	36	46	102	3	1	1	—	194	—
Erysipelas	—	—	—	—	—	—	—	1	6	—
Puerperal Pyrexia	—	—	—	—	—	—	1	—	1	—
Acute Poliomyelitis—Paralytic	—	3	—	—	2	—	3	—	8	8
Non-paralytic	—	—	—	—	—	1	—	—	1	1
Pneumonia	1	—	1	2	—	—	2	3	15	1
Ophthalmia Neonatorum	1	—	—	—	—	—	—	—	1	—
Typhoid Fever	—	—	—	—	—	—	—	—	1	1
Dysentery	1	—	—	—	—	—	1	—	2	2
Respiratory Tuberculosis	—	2	2	5	4	15	24	13	65	21
Non-Respiratory Tuberculosis	1	2	—	2	2	2	—	—	9	7
Total	14	67	86	186	15	21	37	25	455	57

BIRTHS AND DEATHS.

BIRTH AND DEATH RATES FOR LAST TEN YEARS.

YEAR		1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Number of births	536	730	725	761	1025	1029	830	751	760
Birth rate (per 1,000 population)	16.51	20.58	20.7	20.6	21.0	25.4	24.7	19.35	17.16
Number of deaths	470	447	434	435	430	437	438	456	483
Death rate (per 1,000 population)	13.7	12.6	12.3	12.4	11.9	10.83	10.52	10.75	10.54
										10.91	10.91

CAUSES OF DEATH OF INFANTS UNDER ONE YEAR OF AGE.

	Total		Under 1 week		Under 1 month		1 and under 3 months		3 and under 6 months		6 and under 9 months		9 and under 12 months	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Prematurity and Congenital Debility	...	3	1	3	1	—	—	—	—	—	—	—	—	—
Pneumonia	...	3	4	—	—	2	—	—	2	—	—	1	1	1
Congenital Malformation	...	1	1	1	1	—	—	—	—	—	—	—	—	—
Diarrhoea and Enteritis	...	—	1	—	—	—	—	—	—	—	—	1	—	—
Other causes	...	7	—	5	—	—	—	1	—	1	—	—	—	—
Totals	...	14	7	9	2	—	2	1	—	3	—	—	2	1
		21		11		2		1		3		2		2

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Date taken	Where taken	No. of organisms per c.c. capable of growth on Agar		B. Coli (presumptive)	Remarks
		37°C	22°C		
10/5/50	Shallow end	0	2	Absent in 100 ccs.	Good water
"	Deep end	0	0	do.	do.
"	Paddling Pool	0	0	do.	do.
17/5/50	Shallow end	1	2	do.	do.
"	Deep end	0	0	do.	do.
"	Paddling Pool	12	15	do.	Satisfactory
29/5/50	Shallow end	0	0	do.	Good water
"	Deep end	0	0	do.	do.
"	Paddling Pool	0	0	do.	do.
4/6/50	Shallow end	0	0	do.	do.
"	Deep end	6	8	do.	do.
"	Paddling Pool	126	824	Present in 90 ccs. Absent in 80 ccs.	Satisfactory Typical B. Coli in 90 ccs. Recent faecal contamination. Count high for treated water.
8/6/50	Shallow end	0	0	Present in 90 ccs. Absent in 80 ccs.	Not typical B. coli. No evidence of recent faecal contamination.
"	Deep end	0	0	Absent in 100 ccs.	Good water
"	Paddling Pool	0	7	do.	do.
18/6/50	Shallow end	0	0	do.	do.
"	Deep end	0	0	do.	do.
"	Paddling Pool	0	0	do.	do.
27/6/50	Shallow end	0	0	do.	do.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER.

Date taken.	Where taken.	No. of organisms per c.c. capable of growth on Agar		B. Coli presumptive.	Remarks.
		37°C.	22°C.		
27/6/50	Deep end	0	0	Absent in 100 ccs.	Good water
"	Paddling Pool	0	0	do.	do.
4/7/50	Shallow end	0	0	do.	do.
"	Deep end	0	0	do.	do.
"	Paddling Pool	0	0	do.	do.
9/7/50	Shallow end	0	0	do.	do.
"	Deep end	0	7	do.	do.
"	Paddling Pool	0	0	do.	do.
20/7/50	Shallow end	0	2	do.	do.
"	Deep end	0	4	do.	do.
"	Paddling Pool	0	0	do.	do.
30/7/50	Shallow end	0	0	do.	do.
"	Deep end	0	0	do.	do.
"	Paddling Pool	0	0	do.	do.
7/8/50	Shallow end	3	5	do.	do.
"	Deep end	15	26	Present in 100 ccs.	Not typical B. coli. No evidence of recent faecal contamination.
"	Paddling Pool	0	12	Absent in 90 ccs.	Good water
18/8/50	Shallow end	0	6	Absent in 100 ccs.	Not typical B. coli. No evidence of recent faecal contamination.
"	Deep end	24	25	Present in 100 ccs.	No evidence of recent faecal contamination.
"	Paddling Pool	3	4	Absent in 100 ccs.	Good water.
30/8/50	Shallow end	0	0	Absent in 100 ccs.	Good water, efficiently treated
"	Deep end	0	0	do.	do.
"	Paddling Pool	0	0	do.	do.
10/9/50	Shallow end	0	0	do.	Good water
"	Deep end	17	18	do.	No evidence of recent faecal contamination.
"	Paddling Pool	0	3	do.	Good water

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER.

Date taken.	Source.	No. of organisms per c.c. capable of growth on Agar		B. Coli. (presumptive).	Remarks.
		37°C.	22°C.		
(1) Gravesend & Milton Water Co's Supply.					
(a) Down's Road	18/5/50	2	6	Absent in 100 ccs.	Good Water.
Pumping Station	7/6/50	2	12	Present in 70 ccs. Absent in 60 ccs.	Typical B. coli in 100 ccs. Evidence of recent faecal contamination
	7/6/50	0	0	Absent in 100 ccs.	Good water
	22/6/50	48	210	Present in 90 ccs. Absent in 80 ccs.	Not typical B. coli. No recent faecal contamination.
	22/6/50	0	0	Absent in 100 ccs.	Good water
	21/9/50	320	680	Present in 10 ccs. Absent in 1 cc.	Not typical B. Coli. No evidence of recent faecal contamination, but unsatisfactory.
	21/9/50	1	4	Absent in 100 ccs.	Good water
	25/9/50	16	56	Present in 10 ccs. Absent in 1 cc.	Not typical B. coli. No evidence of recent faecal contamination but cannot be regarded as satisfactory drinking water.
	25/9/50	2	3	Absent in 100 ccs.	Good water
	26/9/50	6	12	do.	Satisfactory
	27/9/50	45	78	do.	No evidence of recent faecal contamination
	27/9/50	0	2	do.	Good water
	29/9/50	10	18	Absent in 100 ccs.	Satisfactory
	29/9/50	0	0	do.	Good water

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

No. of organisms
per c.c. capable of
growth on Agar at

Remarks

B. Coli
(presumptive)

Date taken Source

I. Gravesend & Milton Water Co's Supply

(a) Down's Road Pumping Station	3/10/50	Well	3	25	Present in 80 ccs. Absent in 70 ccs. Absent in 100 ccs. do.	Not typical B. coli. No evidence of recent faecal contamination. Good water
	3/10/50	Outgoing main	0	0		
	5/10/50	Hartley supply	0	0		
	5/10/50	Well	2	20	Present in 50 ccs. Absent in 40 ccs. Absent in 100 ccs.	Not typical B. coli. No evidence of recent faecal contamination. Good water
	5/10/50	Outgoing main	0	0		
	9/10/50	Well	0	3	Present in 80 ccs. Absent in 70 ccs.	Not typical B. coli. No evidence of recent faecal contamination.
	9/10/50	Outgoing main	444	0	Present in 100 ccs. Absent in 90 ccs.	Not typical B. coli. No evidence of recent faecal contaminations. Count high for treated water.
	11/10/50	Well	8	27	Present in 80 ccs. Absent in 70 ccs. Absent in 100 ccs. do.	Not typical B. coli. No evidence of recent faecal contamination. Good water
	11/10/50	Outgoing main	0	0		
	11/10/50	Hartley supply	0	0		
	13/10/50	Well	9	49	Present in 40 ccs. Absent in 30 ccs. Absent in 100 ccs. do.	Not typical B. coli. No evidence of recent faecal contamination. Good water
	13/10/50	Outgoing main	0	0		
	13/10/50	Hartley Supply	0	3		
	17/10/50	Well	254	507	Present in 40 ccs. Absent in 30 ccs. Absent in 100 ccs. do.	Not typical B. coli. No evidence of recent faecal contamination.
	17/10/50	Outgoing main	0	0		
	17/10/50	Hartley supply	0	0		

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

		No. of organisms per c.c. capable of growth on Agar at		B. Coli (presumptive)		Remarks
Date taken	Source	37°C	22°C			
I. Gravesend & Milton Water Co's Supply						
(a) Down's Road Pumping Station						
19/10/50	Well	9	17	Present in 1 cc.	Not typical B. coli. No evidence of recent faecal contamination.	
19/10/50	Outgoing main	0	0	Absent in 100 ccs.	Good water	
19/10/50	Hartley supply	12	44	Absent in 100 ccs.	No evidence of recent faecal con- tamination.	
23/10/50	Well	9	11	Present in 80 ccs.	Not typical B. coli. No evidence of recent faecal contamination.	
23/10/50	Outgoing main	0	0	Absent in 70 ccs.	Good water	
23/10/50	Hartley supply	0	0	Absent in 100 ccs.	do.	
25/10/50	Well	2	11	Present in 30 ccs.	Not typical B. coli. No evidence of recent faecal contamination.	
				Absent in 20 ccs.	No evidence of recent faecal con- tamination	
25/10/50	Outgoing main	3	40	Absent in 100 ccs.	Good water.	
25/10/50	Hartley supply	2	0	Absent in 100 ccs.	No evidence of recent faecal con- tamination.	
30/10/50	Well	0	12	Present in 80 ccs.	Good water	
30/10/50	Outgoing main	0	2	Absent in 70 ccs.	do.	
30/10/50	Hartley supply	0	0	Absent in 100 ccs.	Not typical B. coli. No evidence of recent faecal contamination.	
9/11/50	Well	0	12	Present in 100 ccs.	Good water	
				Absent in 90 ccs.	do.	
9/11/50	Outgoing main	0	0	Absent in 100 ccs.	Good water	
16/11/50	Well	4	7	do.	do.	
16/11/50	Outgoing main	0	0	Absent in 100 ccs.	Good water	
16/11/50	Hartley supply	0	0	do.	do.	
23/11/50	Well	2	25	Present in 50 ccs.	Not typical B. coli. No evidence of recent faecal contamination.	
				Absent in 40 ccs.		

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

Date taken	Source	No. of organisms per c.c. capable of growth on Agar at		<i>B. Coli</i> (presumptive)	Remarks
		37°C	22°C		
23/11/50	Outgoing main	0	0	Absent in 100 ccs.	Good water
23/11/50	Hartley supply	0	0	do.	do.
29/11/50	Well	2	7	Present in 80 ccs.	Typical <i>B. coli</i> in 80 ccs. Evidence of recent faecal contamination.
29/11/50	Outgoing main	0	0	Absent in 70 ccs.	Good water
29/11/50	Hartley supply	4	0	Absent in 100 ccs.	Satisfactory
11/12/50	Well	2	3	Probable No. of <i>B. coli</i> 3 per 100 ccs.	This water shows evidence of slight faecal contamination.
11/12/50	Outgoing main	0	0	Absent in 100 ccs.	Good water
11/12/50	Hartley supply	0	0	do.	do.
16/3/50	Well	0	6	Absent in 100 ccs.	Good water
16/3/50	Reservoir	8	5	do.	Satisfactory
7/6/50	Well	1	2	do.	Good water
7/6/50	Reservoir	0	0	do.	do.
3/10/50	Well	0	3	do.	do.
3/10/50	Reservoir	2	5	do.	do.
20/1/50	High Street	0	0	do.	do.
16/2/50	Russell Place	0	0	do.	do.
24/3/50	West Street	0	0	do.	do.
27/4/50	Albion Terrace	0	0	do.	do.
18/5/50	Shrubbery Road	0	17	do.	do.
25/5/50	Shrubbery Road	0	0	do.	do.
22/6/50	Parrock Street	0	0	do.	do.
20/7/50	High Street	0	0	do.	do.
24/8/50	Ash Road	0	0	do.	do.
21/9/50	Woodville Terrace	0	0	do.	do.
9/10/50	Kitchener Avenue	21	0	do.	No evidence of recent faecal contamination.

(b) Leith Park Road

Pumping Station

(c) Domestic supplies

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER.

	<i>Date taken.</i>	<i>Where taken.</i>	<i>No. of organisms per c.c. capable of growth on Agar at</i>		<i>B. Coli. (presumptive).</i>	<i>Remarks.</i>
			<i>37°C.</i>	<i>22°C.</i>		
					<i>Absent in 100 ccs.</i>	<i>Good water</i>
	11/10/50	Cedar Avenue	0	0	do.	do.
	13/10/50	Ash Road	0	0	do.	do.
	17/10/50	Gloucester Road	0	0	do.	do.
	19/10/50	Arnold Road	0	0	do.	do.
	23/10/50	Palmer Avenue	0	0	do.	do.
	25/10/50	Cedar Avenue	2	4	do.	do.
	26/10/50	Empress Road	0	0	do.	do.
	30/10/50	King's Drive	8	0	do.	Satisfactory
	9/11/50	Jellicoe Avenue	0	0	do.	Good water
	16/11/50	Kitchener Avenue	0	0	do.	do.
	23/11/50	Woodville Terrace	0	0	do.	do.
	29/11/50	Jellicoe Avenue	2	0	do.	do.
	14/12/50	Arnold Road	40	52	do.	No evidence of recent faecal contamination.
2. Higham & Hundred of Hoo Co's Supply						
(a) Domestic Supplies						
	20/1/50	Lower Higham Road	0	0	do.	Good water
	16/2/50	Rochester Road	0	0	do.	do.
	24/3/50	Singlewell	0	10	do.	do.
	27/4/50	Lower Higham Road	0	0	do.	do.
	25/5/50	Marling Cross	0	8	do.	do.
	22/6/50	Singlewell	0	13	do.	do.
	20/7/50	Lower Higham Road	0	6	do.	do.
	24/8/50	Rochester Road	0	0	do.	do.
	21/9/50	Singlewell	0	14	do.	do.
	26/10/50	Singlewell	0	0	do.	do.
	23/11/50	Singlewell	0	29	do.	do.
	14/12/50	Rochester Road	5	13	do.	No evidence of recent faecal contamination.

CHEMICAL ANALYSES OF DRINKING WATER

(UNTREATED)

		<i>Leith Park Rd. P.S.</i>	<i>Downs Rd. P.S.</i>	<i>Downs Rd. P.S.</i>
		(<i>well</i>)	(<i>well</i>)	(<i>well</i>)
<i>Date taken</i>		16.3.50	18.5.50	21.9.50
Appearance ...	...	Clear	Cloudy	Opalescent
Smell ...	...	Normal	Normal	Normal
Chlorine in Chlorides	...	1.61	1.12	1.12
Phosphoric acid in phosphates	...	None	None	None
Nitrogen in Nitrates	...	0.65	0.48	0.28
Nitrogen in Nitrites	...	None	None	None
Ammonia	...	Trace only	None	0.0008
Albuminoid Ammonia	...	0.0017	0.0017	0.0014
Oxygen absorbed in 15 mins.	...	Trace only	Trace only	Trace only
Oxygen absorbed in 4 hrs.	...	0.008	0.006	0.022
Hardness before boiling				
(total) ...	...	21.4	19.6	19.5
Hardness after boiling				
(permanent) ...	...	4.1	2.6	3.0
Total solid matter	...	29.26	25.76	22.96
Microscopical examination of deposit	...	Slight and unimportant	Fine chalk with a little Silica	Clay very fine and depositing slowly
Metallic impregnation (copper, lead, zinc)	...	None	None	None
Free Chlorine	...	—	None	—
<i>Remarks</i> ...	...		The deposit settles very slowly and the chalk is in an unusually fine condition.	Apart from the opalescent appearance due to clay in very fine suspension, there are no adverse remarks to make.

Each of the samples give figures indicating the supply to be pure organically and free from sewage percolation.

All numerical results are expressed in grains per gallon.

CHEMICAL ANALYSIS OF DRINKING WATER (TREATED)

	<i>Date Taken</i>	<i>Leith Park Rd. P.S. (reservoir)</i>	<i>Shrubbery Rd. (factory)</i>	<i>Palmer Ave. (domestic)</i>	<i>Palmer Ave. (domestic)</i>	<i>Downs Rd. P.S. (out going main)</i>
		16/3/50	18/5/50	17/7/50	17/7/50	21/9/50
Appearance	...	Clear	Clear	Clear	Opalescent	
Smell	...	Normal	Normal	Normal	Normal	Normal
Chlorine in Chlorides	...	1.61	1.12	1.12	1.12	1.12
Phosphoric Acid in Phosphates	...	None	None	None	None	None
Nitrogen in Nitrates	...	0.67	0.48	0.36	0.36	0.32
Nitrogen in Nitrites	...	None	None	None	None	None
Ammonia	...	None	None	None	0.0014	Trace only
Albuminoid Ammonia	...	0.0014	0.0011	0.0008	0.0011	0.0011
Oxygen absorbed in 15 minutes	...	Trace only	Trace only	Trace only	Trace only	Trace only
Oxygen absorbed in 4 hours	...	0.008	0.006	0.008	0.008	0.022
Hardness before boiling (total)	...	21.5	20.0	18.5	18.3	19.5
Hardness after boiling (permanent)	...	4.1	2.9	2.5	2.5	3.0
Total solid matter	...	29.54	26.04	25.76	25.06	22.68
Microscopical examination of deposit	...	Slight and unimportant	Slight and unimportant	Slight and unimportant	Slight and unimportant	Clay very fine and depositing slowly.
Metallic impregnation (copper lead,, zinc)	...	None	None	None	None	None
Free Chlorine	0.3 parts per ml.	...	...	...

Remarks

The amount of residual chlorine indicated a great excess of chlorine used in treatment.

Apart from the opalescent appearance, due to clay in very fine suspension, there are no adverse remarks to make.

Each of the samples give figures indicating the supply to be pure organically and free from sewage percolation. All numerical results are expressed in grains per gallon.