

[Report of the Medical Officer of Health for Dagenham].

Contributors

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BOROUGH OF DAGENHAM



ANNUAL REPORT

of the

Medical Officer of Health

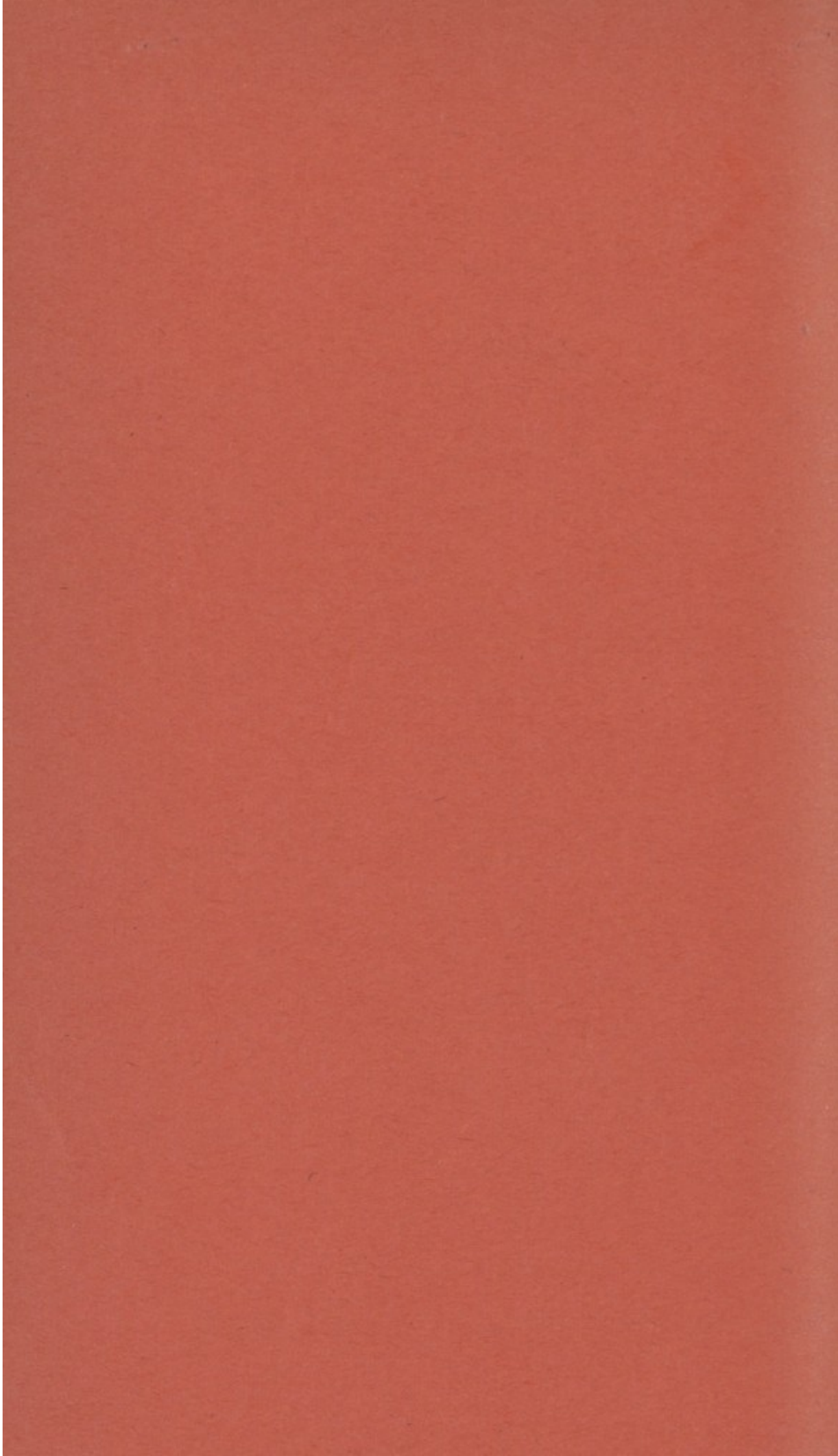
for the year

1951

CECIL HERINGTON, M.D. (Lond.), D.P.H.

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BOROUGH OF DAGENHAM



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Medical Officer of Health

for the year

1951

CECIL HERINGTON, M.D. (Lond.), D.P.H.

State Abstract and Abstracts of the Bureau of

REPORT OF THE

COMMISSIONER OF THE BUREAU OF

HEALTH AND VITAL STATISTICS

FOR THE YEAR 1911

AND

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FOR THE YEAR 1911

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To the Mayor, Aldermen and Councillors of the Borough of Dagenham.

Mr. Mayor, Ladies and Gentlemen,

In presenting my report on the health of Dagenham for the year 1951, I would again invite your attention to the fact that much of the report deals with the services which are administered by the Local Health Authority through the Health Area Sub-Committee. With a view to making the report informative the services affecting the health of the Borough are discussed without discriminating between the Authorities ultimately responsible for them.

The birth and death rates approximate very closely to those of the previous year, there being 44 fewer births in the current year and an increase of 41 deaths of residents. This is to be expected as the population becomes stabilised and the average age thereby increases.

The death rate however is still below that of the country as a whole. The crude death rate for Dagenham was 7.42 but in order to compare this with the rate for England and Wales, the comparability factor of 1.64 must be applied which gives the figure of 12.16. The comparable rate for the 126 County Boroughs and Great Towns (including London) is 13.4.

The uncorrected birth rate was 15.25, the corrected rate 14.48, this is less than that for the Great Towns which was 17.3.

The infant mortality rate was 30.08, that for the Great Towns was 33.9 and for England and Wales 29.6.

MATERNAL DEATHS. I regret to have to report that one maternal death occurred. The patient was apparently a healthy woman and had been regularly examined at the ante-natal clinic and the usual laboratory tests were applied and revealed no abnormality. Furthermore, the patient co-operated intelligently throughout the pregnancy and during the labour. The services of the obstetric emergency unit were invoked and were in operation within a matter of minutes of being called.

As there was no clear indication of the cause of death the Coroner was informed and an autopsy performed by a Pathologist. The findings showed that there was early rheumatic involvement of the mitral valve of the heart and gross oedema and congestion of both lungs with scanty sub-pleural hæmorrhages.

One of my colleagues and I searched the literature and as a result were of the opinion that death was probably due to pulmonary

embolism by amniotic fluid. This is a rare condition which is stated to have occurred in one in 8,000 obstetric cases over a period of nine years at the Chicago Lying-in Hospital. As far as is known this obstetric emergency is unpredictable and therefore when it does supervene death will be inevitable.

**INFANT
WELFARE
CENTRES.**

The Regional Hospital Board have decided to adapt the Out-Patient Department of King George Hospital for use as a Chest Clinic to serve Dagenham. This has necessitated the removal of the clinic formerly held at this hospital to other premises and for the time being will occasion some inconvenience to mothers living in that vicinity. Provision, however, is made by holding additional sessions at other clinics and negotiations have been taking place to establish an Infant Welfare Centre in close proximity to Five Elms.

The clinic held at the London City Mission Hall, Dagenham Road, has been fully attended and an additional session has been arranged in order to meet the needs.

CARAVANS.

Further applications for land in the Northern part of the Borough to be used as sites for caravans were received. All were refused in view of the inability to provide satisfactory sanitary facilities. One appeal against the Council's decision was dismissed by the Magistrates' Court.

In co-operation with the Town Planning Authority, a general policy has been adopted whereby applications in respect of individual vans will only be granted in the unsewered Northern area where the applicant submits plans for a permanent dwelling to be erected (when a building licence is obtained) on the site.

MORTUARY.

It was mentioned in my report for last year that an adjoining Borough was extending and modernising its mortuary. This work has now been completed and when the notice to the Borough, with whom Dagenham has now entered into arrangements, expires, the facilities offered by the first-mentioned local authority will be accepted.

**RAG FLOCK AND
OTHER FILLING
MATERIALS ACT.**

This Act came into operation on the 1st November, 1951, and two premises where filling materials are used have been registered. One licence was issued to a manufacturer of rag flock and one for the storage of this material.

A sample of rag flock, manufactured from new materials only, consisting of coloured and bleached offcuts from a clothing factory,

contained 34 parts per 100,000 of chlorine (the Act prescribes a maximum of 30 parts per 100,000). It was considered that the condition was due to the presence of certain dyes in the coloured material and arrangements were made for all new material to be washed.

A subsequent sample of rag flock manufactured from washed new material was found to contain 51 parts per 100,000 of chlorine. Softened water (the apparatus was re-generated with salt) was used at a laundry where the rag flock was washed and this was considered the probable source of the trouble.

PUBLIC

CONVENIENCES.

All charges for the use of public conveniences in the Borough have now been abolished, with the exception of facilities for persons who desire to use the private wash-room which includes the use of brush, comb and towels for which a charge of 2d. is made. This is a matter of some importance and should contribute to the public health of the district. Formerly, all persons using the water-closet were exhorted to wash their hands immediately after doing so which might have been embarrassing financially for some people. I wish to record this advance made in public health practice by this Borough and express the hope that less enlightened sanitary authorities will emulate Dagenham.

All conveniences are now open day and night and are provided with running hot and cold water.

At the three attended conveniences electric hand-driers have been installed and gas incinerators have been installed in the women's section.

I record once more my grateful thanks to the officers and members of the staff for their continued efficiency and loyalty.

In conclusion, I express my deep appreciation to the Chairman, Vice-Chairmen and Members of the Committees chiefly concerned for their support and interest in the promotion of preventive medicine in Dagenham.

I am,

Mr. Mayor, Ladies and Gentlemen,

Your obedient Servant,

CECIL HERINGTON,

Medical Officer of Health.

Public Health Department,

Civic Centre,

Dagenham.

MEMBERS OF THE COUNCIL

(31st December, 1951)

Mayor :

Councillor J. P. HOLLIDGE, J.P., E.C.C.

Deputy Mayor :

Alderman (Mrs.) A. E. PRENDERGAST.

Aldermen :

W. E. BELLAMY

F. BROWN, J.P.

J. W. BURRIDGE

R. J. D. CLACK

L. F. EVANS (Mrs.), M.B.E.,

J.P., E.C.C.

F. GRINDROD, J.P.

F. G. THOMAS

Councillors :

S. F. BANKS

A. BASS

R. BLACKBURN

J. BOWLES

I. M. BROCKELBANK (Mrs.)

G. A. BROOKER

E. A. BROWNE

F. COOMBS

G. H. A. CROUCH

E. W. DEEKS

A. S. HADDOCK

Wm. C. IRELAND

L. R. JONES, B.Sc.

A. KEMPSON

E. M. MILLARD (Mrs.)

J. F. MOULTRIE, F.A.I.

D. O'DWYER

C. PRENDERGAST

B. M. ROADKNIGHT (Mrs.)

L. A. SAYER

L. S. SNELLING (Mrs.)

D. THOMAS

S. J. C. WARR

PUBLIC HEALTH COMMITTEE

Alderman (Mrs.) A. E. PRENDERGAST, *Chairman*

Councillor G. A. BROOKER, *Vice-Chairman*

His Worship the Mayor (Councillor
J. P. HOLLIDGE, J.P., E.C.C.)

Alderman J. W. BURRIDGE

Councillor A. BASS

Councillor I. M. BROCKELBANK
(Mrs.)

Councillor D. O'DWYER

Councillor B. M. ROADKNIGHT
(Mrs.)

DAGENHAM HEALTH AREA SUB-COMMITTEE

Alderman (Mrs.) A. E. PRENDERGAST, J.P., *Chairman*

Alderman (Mrs.) L. F. EVANS, M.B.E., J.P., E.C.C., *Vice-Chairman*

Members:—

Borough Council The Mayor: Councillor J. P. HOLLIDGE, J.P., E.C.C.
 Alderman J. W. BURRIDGE
 Councillor A. BASS
 Councillor R. BLACKBURN
 Councillor (Mrs.) I. M. BROCKELBANK
 Councillor G. A. BROOKER
 Councillor F. COOMBS
 Councillor E. W. DEEKS
 Councillor A. KEMPSON
 Councillor D. O'DWYER
 Councillor C. PRENDERGAST
 Councillor (Mrs.) B. M. ROADKNIGHT
 Councillor L. A. SAYER
 Councillor S. J. C. WARR

County Council Alderman K. GLENNY
 Councillor (Mrs.) M. BREDO
 Councillor W. HERRIDGE
 Councillor P. PORTER
 Councillor (Mrs.) E. SAYWOOD
 Councillor K. STONEBANK
 Councillor (Mrs.) A. F. WARR

Hospital Management Committee Alderman (Mrs.) L. F. EVANS, M.B.E., J.P., E.C.C.

Executive Council for Essex Mr. E. E. FARRANT

Local Medical Committee for Essex Dr. P. GROARKE

Voluntary Organisations Mr. H. BAILEY, Miss N. L. ODELL and Miss I. WHEELER

OFFICERS OF THE PUBLIC HEALTH SERVICES

(at time of going to press)

Officers employed by the Essex County Council
are indicated thus "(C)"

Full-Time Staff :

Medical Officer of Health :

CECIL HERINGTON, M.D., B.S.(Lond.), D.P.H., M.R.C.S., L.R.C.P.

Deputy Medical Officer of Health :

H. D. H. ROBINSON, M.R.C.S., L.R.C.P., D.P.H. (C)

Assistant Medical Officers :

CATHERINE FITZPATRICK, M.B., B.Ch. (C)

FANNIE HIRST, M.B., Ch.B., D.P.H. (C)

JEANNE LISTER, M.B., B.S. (Lond.)

WILHELMINA C. MAGUIRE, L.R.C.P., L.R.C.S.I. (C)

MADELINE WEIZMANN, M.R.C.S., L.R.C.P. (C)

Chief Sanitary Inspector :

L. E. PRIOR (1, 2)

Sanitary Inspectors :

J. W. ALLAM (1, 2)

A. HUTCHINGS (1, 2)

F. W. S. FOX (1, 2, 3, 4)

A. J. JAMES (1)

Superintendent Health Visitor : (C)

V. A. EVERITT (5, 6, 7)

Health Visitors : (C)

M. E. ALLAM (5, 7)

E. RICHARDS (5, 6, 7)

I. A. BARROW (5, 6, 13)

L. SALTER (5, 6, 7)

G. M. CLUGSTON (5, 6, 7)

D. B. STEWART (5, 6, 7)

A. K. GIBSON (5, 6, 7)

J. E. THOMAS (5, 6, 7, 10, 14)

D. GORDON (5, 6, 7, 9, 10, 14)

R. E. WALKER (5, 6, 7, 12, 13)

D. HICKEY (5, 6, 7)

L. WARR (5, 13)

(One vacancy)

Senior Midwife: (C)

E. M. BEDFORD (5, 6)

Midwives: (C)

M. GOODBUN (5, 6)

M. M. ROBSON (6, 10)

M. HALL (6)

M. ROCK (6)

H. MITSON (5, 6)

M. J. STOREY (6)

K. MOYNIHAN (5, 6)

M. TEATHER (5, 6)

M. M. RICHARDS (6)

*Clerical Staff:**Chief Clerk: (C)*

F. W. KNIGHT (1, 2)

Clerk to Sanitary Inspectors:

G. DOVEY

Clerks:

E. ADAMS (C)

S. B. LEADER (C)

I. M. BISHOP (C)

F. H. MARTIN (C)

N. BRIAND (C)

L. A. MOORE (C)

N. E. CLOKE (C)

E. NEALE (C)

S. DOWDING (C)

J. POWELL

M. GOODCHILD (C)

D. TYLER (C)

H. GOODCHILD (C)

M. A. WATTS (C)

G. K. HARRIS

J. WHATLING (C)

*Day Nurseries: (C)*Goresbrook Nursery,
Dagenham Avenue,
Dagenham.

MATRON: E. MADDISON (12)

DEPUTY: K. GRAHAM (8)

Chadwell Heath Nursery,
Ashton Gardens,
Chadwell Heath.

MATRON: I. MUSGRAVE (8)

DEPUTY: P. BOND (15)

Kingsley Hall Nursery,
Parsloes Avenue,
Dagenham.

WARDEN: D. HOWES

Domestic Help Organiser: (C)

G. HICKINBOTHAM

Chiropodists: (C)

N. FREEMAN

M. KELLY (11).

Foot Clinic Receptionist:

K. RICHARDS (C)

Dental Attendant: (C)

M. E. SEALEY

Certificate of Royal Sanitary Institute	1
Meat Inspector's Certificate	2
Sanitary Science as applied to Building and Public Works Certificate	3
Smoke Inspector's Certificate	4
General Trained Nurse	5
State Certified Midwife	6
New Health Visitor's Certificate	7
State Enrolled Assistant Nurse	8
State Certified Mental Certificate	9
Registered Mental Nurse	10
Member of Society of Chiropodists	11
State Registered Fever Nurse	12
Tuberculosis Certificate	13
Certificate of Royal Medico-Psychological Association	14
Certificate of National Nursery Examination Board	15

Part-Time Staff :

Dentist :

F. C. RITCHIE, L.D.S., R.C.S. (Eng.)

Public Analyst :

J. HUBERT HAMENCE, Ph.D., M.Sc., F.R.I.C.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA

Area (in acres)	6,556
Registrar-General's estimate of resident population, 1951	113,400
Number of inhabited houses (end of 1951) according to Rate Books	28,496
Rateable value (December 31st, 1951)	£666,278
Sum represented by a penny rate (approximate 1951-52)	£2,715

Extracts from Vital Statistics for the Year.

Live Births :—

	Total	Male	Female	
Legitimate	1,681	812	869	} Birth rate per 1,000 of the estimated resident population, 15.25.
Illegitimate	48	28	20	

Stillbirths :—

Legitimate	24	15	9	} Rate per 1,000 total (live and still) births, 14.81.
Illegitimate	2	2	—	

Deaths	841	497	344	} Death rate per 1,000 of the estimated resident population, 7.42.

Deaths from pregnancy, childbirth, abortion :—

Deaths.	Rate per 1,000 total (live and still) births.
1	0.57

Death rate of infants under one year of age :—

All infants per 1,000 live births	30.08
Legitimate infants per 1,000 legitimate live births	28.55
Illegitimate infants per 1,000 illegitimate live births.....	83.33

Deaths from Cancer (all ages)	.....	.....	.....	.....	175
„ „ Measles (all ages)	.....	.....	.....	.....	1
„ „ Whooping Cough (all ages)	.....	.....	.....	.....	Nil
„ „ Gastritis, Enteritis and Diarrhoea	.....	.....	.....	.....	4

Births.

1,729 live births were registered during the year, there being 840 males and 889 females. There is a decrease of total births from 1,773 in 1950 to 1,729. The birth rate per thousand population was 15.25 compared with 15.5 for England and Wales and 17.3 for the 126 large towns, including London. The rate compares with that of 24.2, 26.5, 30.6, 23.8, 23.6, 20.4, 18.6, 19.6, 18.59, 18.47, 18.7, 18.06, 17.61, 18.77, 19.08, 20.37, 19.83, 22.26, 19.54, 22.34, 23.71, 19.15, 17.14, and 15.36 for the years 1927 to 1950 inclusive.

The illegitimate birth rate continues to be very low, being only 2.78 per cent. of total births. The rate of illegitimate stillbirths is 7.69 per cent. of total stillbirths.

Death Rate.

Total deaths in district	.....	.....	.....	.....	622
Outward transfers	.....	.....	.....	.....	156
Inward transfers	.....	.....	.....	.....	374
Deaths of residents	.....	.....	.....	.....	840

Of the 156 deaths of non-residents occurring in the district, two took place at the Dagenham Hospital and 144 at Rush Green Hospital.

Of the 374 deaths of local residents taking place outside this area, most occurred in institutions. Of these, 173 occurred at Oldchurch Hospital ; 31 at 117, Suttons Lane, Hornchurch ; 20 at the London Hospital ; 18 at King George Hospital ; 14 at Severalls Hospital ; 12 at Ilford Isolation Hospital ; 10 at St. Joseph's Hospice ; eight at Harold Wood Hospital ; five at Warley Hospital ; four at Whipps Cross Hospital, and four at Barking Hospital.

The death rate of 7.42 compares with 12.5 for England and Wales. For the years from 1927 to 1950 inclusive, the local rates were 7.0, 7.3, 8.3, 6.6, 7.2, 6.5, 6.5, 6.6, 5.63, 6.43, 6.24, 6.19, 5.96, 8.90, 8.51, 6.85, 7.98, 7.81, 6.97, 6.63, 6.63, 6.15, 6.64 and 6.92.

A table giving the causes of death, and the age periods at which they occurred, is given at the end of the report.

Table showing Birth-rate, Death-rate and Analysis of Mortality during the year 1951.

Provisional Figures.—The mortality rates for England and Wales refer to the whole population, but for London and the towns to civilians only.

	Rate per 1,000 total Population		Annual Death-rate per 1,000 Population								Rate per 1,000 Live Births	
	Live Births	Still Births	All Causes	Typhoid and Paratyphoid Fevers	Smallpox	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Diarrhoea and Enteritis (under two years)	Total Deaths (under one year)
England and Wales	15.5	0.36	12.5	0.00	0.00	—	—	0.01	0.00	0.38	1.4	29.6
126 County Boroughs and Great Towns including London	17.3	0.45	13.4	0.00	0.00	—	—	0.01	0.00	0.36	1.6	33.9
148 smaller towns (1931) resident population 25,000-50,000	16.7	0.38	12.5	0.00	0.00	—	—	0.01	0.00	0.38	1.0	27.6
London	17.8	0.37	13.1	—	—	—	—	0.01	0.00	0.23	0.7	26.4
Dagenham	15.25	0.23	7.42	—	—	0.01	—	0.00	0.00	0.13	1.74	30.08

GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA

Infant Welfare Centres

CENTRE	Sessions Held	Times Sessions Held	Average Attendances	Average New Cases
The Clinic, Ashton Gardens, Chadwell Heath.	Weekly	Thursday, a.m.	38	1
	Weekly	Thursday, p.m.	48	2
Becontree Clinic, Becontree Avenue, Dagenham.	Weekly	Monday, p.m.	53	3
	Weekly	Tuesday, a.m.	29	1
	Weekly	Tuesday, p.m.	45	2
The Leys Clinic, Ballards Road, Dagenham.	Weekly	Thursday, a.m.	30	1
	Weekly	Thursday, p.m.	41	2
Out-Patient Department, King George Hospital, Five Elms, Dagenham.	Weekly	Wednesday, a.m.	35	1
	Weekly	Wednesday, p.m.	50	3
	Weekly	Friday, a.m.	32	1
Rush Green Clinic, 179, Dagenham Road, Rush Green.	(2nd, 4th & 5th in month)	Friday, a.m.	13	1
		Friday, p.m.	22	1
The Clinic, Ford Road, Dagenham.	Weekly	Tuesday, a.m.	53	3
	Weekly	Tuesday, p.m.	67	4
The Clinic, Manford Way, Hainault.	Weekly	Monday, p.m.	35	3
London City Mission Hall, Dagenham Road, Dagenham.	Weekly (commenced 3.2.51)	Thursday, p.m.	53	3

Ante-Natal Clinics

CENTRE	Sessions Held	Times Sessions Held	Average Attendances	Average New Cases
The Clinic, Ashton Gardens, Chadwell Heath.	Weekly	Wednesday, p.m.	18	2
The Clinic, Becontree Avenue, Dagenham.	Weekly	Tuesday, p.m.	17	3
	Weekly	Wednesday, a.m.	14	2
	Weekly	Friday, a.m.	14	2
	Weekly	Friday, p.m.	13	2
The Leys Clinic, Ballards Road, Dagenham.	Weekly	Tuesday, a.m.	14	2
	Weekly	Wednesday, a.m.	14	2
Rush Green Clinic, 179, Dagenham Road, Rush Green.	(1st & 3rd in month)	Friday, a.m.	8	2
York House, Frizlands Lane, Dagenham.	Weekly	Tuesday, a.m.	25	3
	Weekly	Wednesday, p.m.	20	3
	Weekly	Thursday, a.m.	16	2
	Weekly	Thursday, p.m.	17	3
The Clinic, Ford Road, Dagenham.	Weekly	Monday, a.m.	19	3
	Weekly	Monday, p.m.	24	3
The Clinic, Manford Way, Hainault.	Weekly	Monday, a.m.	7	1

Sanitary Inspection of the District

Report of the Sanitary Inspectors.

(a) Nature and number of visits :—

Overcrowding and Housing Conditions	870
---	-----

Nuisances under Public Health Acts—

Dwelling-houses	5,414
Other Premises	702
Bakehouses	92
Milkshops and dairies	134
Foodshops, stalls and itinerant vendors	2,096
Cafés and canteens	770
Infectious disease enquiries	962
Visits to foster-mothers' premises	308
Number of complaints investigated	1,043
Outworkers' premises	206
Workplaces and offices	11
Tents, vans and sheds	230
Stables	19
Hairdressers' and barbers' premises	84
Shops Acts	78
Ice Cream premises and vehicles	275
Houses fumigated	30
Other Visits	239

(b) Notices served :—

Complied with :—

Statutory	166		154
Informal	643		632

Legal proceedings were instituted in respect of 12 properties to enforce compliance with statutory notices.

PREVENTION OF DAMAGE BY PESTS ACT, 1949

	TYPE OF PROPERTY				Total
	Local Authority	Dwelling Houses	Agri-cultural	All other (including Business and Industrial)	
Total number of properties	50	28,496	10	1,396	29,952
*Number of properties inspected as a result					
(a) of notification, or	(a) 7	224	1	96	328
(b) otherwise	(b) 2	29	—	25	56
Number of properties found to be infested by rats	Maj. 1	—	—	—	1
	Min. 4	49	—	13	66
Number of properties found to be seriously infested by mice	1	20	—	34	55
Number of infested properties treated by the Local Authority	6	69	—	47	122
Number of notices served under Section 4 :—					
(1) Treatment	—	—	—	—	—
(2) Structural Works (i.e., Proofing).	—	—	—	—	—
Number of cases in which default action was taken by Local Authority following issue of notice under Section 4	—	—	—	—	—
Legal Proceedings	—	—	—	—	—

Number of "Block control" schemes carried out.

* These figures do not include the regular routine inspection of food premises and factories, etc., by the Sanitary Inspectors.

Water

The water supply is satisfactory in quality and quantity. Since November, 1938, eight local authorities in the South Essex Waterworks Company's area of supply have carried out a co-ordinated system of sampling. During the year two chemical and two bacteriological samples were taken from the Company's mains in this Borough and all were satisfactory.

The water is not liable to have plumbo-solvent properties, and no action was called for in respect of any form of contamination. Approximately .059 per cent. of the inhabited houses and .032 per cent. of the population of the Borough take their water from standpipes.

During the year the mains laid in the Borough were as follows :—

Location	Diameter	Length
Woodlands Estate	4"	447 yards
Cranmer Road	4"	119 "
Whalebone Lane South	4"	48 "
	Total	614 "

471 supplies were afforded to houses during the year.

The Chief Engineer of the South Essex Waterworks Company has furnished me with the following report :—

"Bacteriological and chemical examinations are made of the raw river water, of the water in its various stages of treatment and of the water going into supply and of both raw and chlorinated water from the Company's wells.

Analyses are also made of samples obtained from consumers' taps in the various parts of the Company's district and all proved to be satisfactory.

Over 3,500 chemical, bacteriological and biological examinations have been made during the year.

All water going into supply was wholesome."

FACTORIES ACTS, 1937 & 1948

Inspections.

Premises	Number on Register	Number of		
		Inspections	Written Notices	Occupiers Prosecuted
Factories without mechanical power	22	27	—	—
Factories with mechanical power	117	240	6	—
Other premises under the Act (including works of building and engineering construction but not including outworkers' premises)	17	31	3	—
TOTAL	156	298	9	—

Defects Found.

	No. of defects				No. of prosecutions instituted
	Found	Remedied	To H.M. Inspector	By H.M. Inspector	
Want of cleanliness	1	1	—	—	—
Overcrowding	—	—	—	—	—
Unreasonable temperature	—	—	—	—	—
Inadequate ventilation	—	—	—	—	—
Ineffective drainage of floors	—	—	—	—	—
Sanitary Conveniences :—					
Insufficient	2	1	—	—	—
Unsuitable or defective	14	12	—	1	—
Not separate for sexes	1	1	—	—	—
Other offences	2	2	—	—	—
TOTAL	20	17	—	1	—

Outwork

No. of out-workers in August list 43

Nature of work Making, etc., wearing apparel.

Smoke Abatement

Observations were taken throughout the year ; no serious cases of pollution were recorded.

Bacteriological Sampling of Milk

During the year 84 samples of milk were submitted for examination and two were found to be unsatisfactory.

When The Milk (Special Designations) (Specified Areas) Order, 1951 came into force on the 1st October, the use of special designations for retail sales of milk in the Borough became compulsory. This meant that all milk sold by retail must be Pasteurised, Accredited, Tuberculin-Tested or Sterilised.

Three small retailers had certain adjustments to make to comply with the Order.

Ice Cream

Bacteriological Sampling. During the year 44 samples of ice cream were submitted for analysis and three were found to be unsatisfactory.

Registration of Premises. During the year seven applications for the storage and sale of ice cream were granted. In all cases the provision on the premises of running hot water is required. Where conditions are not considered altogether satisfactory for the sale of loose ice cream registration has been restricted to the storage and sale of ice cream "contained in containers of such materials and so closed as to exclude all risk of contamination."

An itinerant vendor was summoned and convicted for selling ice cream with a fat content of only 3.7% (the minimum was 5%).

FOOD AND DRUGS ACT, 1938

Analyses

Article	Number Examined		Number Adulterated, etc.	
	Formal	Informal	Formal	Informal
Almonds, Ground	1	—	—	—
Blanc Mange Powder	1	1	—	—
Bread	—	7	—	7
Bread Roll	—	1	—	1
Cake	1	3	—	3
Cake Mixture	4	2	—	—
Cayenne, Powdered	—	1	—	—
Cherries, Glace	1	—	—	—
Cocktails	3	—	—	—
Cocoa and Malt Preparation	—	1	—	—
Coconut, Dessicated and Sweetened	1	1	—	—
Coffee	1	1	—	—
Coffee and Chicory Essence	1	1	—	—
Condiment, non-brewed	1	1	—	1
Cream, Synthetic	—	1	—	—
Culinary Oil	—	1	—	—
Custard Powder	3	1	—	—
Dessert Powder	—	1	—	—
Egg Roll	—	1	—	1
Flour Mixture	—	1	—	—
Frying Oil	2	—	—	—
Gelatine	1	3	—	—
Ginger	—	2	—	—
Herbs, Dried	—	3	—	—
Ice Cream	1	16	1	1
Jellies	4	9	—	—
Lemon Juice	—	1	—	—
Lemonade Crystals and Powder	—	3	—	—
Lime Juice Cordial	1	—	—	—
Medicinal Samples	9	4	—	—
Milk	40	—	2	—
Milk Whipping Compound	—	1	—	—
Mint	1	—	—	—
Nutmeg, Ground	—	1	—	—
Olive Oil	1	4	—	—
Onion Powder, Dehydrated	—	1	—	—
Orangeade Crystals	—	1	—	—

Analyses—continued.

Article	Number Examined		Number Adulterated, etc.	
	Formal	Informal	Formal	Informal
Parsley	—	1	—	—
Paste	—	2	—	—
Peanut Butter	—	1	—	—
Pepper	3	—	—	—
Pepper Compound	2	1	—	—
Pineapple Crush	1	—	—	—
Pork and Beef Loaf	—	1	—	—
Pork Pie	—	1	—	—
Potato Crisps	1	—	—	—
Pudding Mixture	—	2	—	—
Rissole Mix	1	—	—	—
Roll, Buttered with Cheese	—	1	—	1
Sage	1	3	—	—
Sage and Onion Stuffing	1	—	—	—
Salad Cream	2	1	—	—
Salad Oil	—	1	—	—
Sauces	2	5	—	—
Sausages	33	—	2	—
Sausage Meat	6	—	—	—
Sausage Rolls	1	—	—	—
Semolina	—	1	—	—
Shortbread Mixture	—	2	—	—
Sild	—	1	—	—
Soda Water	—	1	—	1
Soup	1	1	—	—
Spice, Mixed	1	1	—	—
Suet	—	1	—	—
Spread	1	2	—	—
Tapioca Dessert	1	1	—	—
Tea	3	—	—	—
Tea Seed Oil	1	—	—	—
Thyme	1	2	1	1
Tonic Wine	1	—	—	—
Tumeric, Powdered	—	1	—	—
Vinegar	4	—	—	—
Whisky	17	—	—	—

Adulterated Samples, etc.

Serial No.	Article	Formal or Informal	Nature of Adulteration or Irregularity	Observations
945A	Christmas Cake	Informal	Had an objectionable smell due to albumen constituent of the icing.	Vendor warned.
946A	Portion of Cheese and buttered Roll	Informal	Contained fragment of wood.	Vendor warned.
960A	Soda Water	Informal	Had a strong smell of sulphuretted hydrogen. Unfit for human consumption.	Manufacturers warned.
961A	Bread	Informal	Contained a foreign body found to consist of charred bread.	Referred to Authority in which bakery is situate.
962A	Swiss Roll	Informal	Contained mice excreta.	Manufacturer warned.
963A	Bread Roll	Informal	Contained dark markings in centre of roll due to presence of charred bread.	Referred to Authority in which bakery is situate.
964A	Bread	Informal	Contained two blackish foreign bodies found to be discoloured dough.	Referred to Authority in which bakery is situate.
965A	Bread	Informal	Contained two beetles.	No action. Insufficient evidence.
992A	Ice Cream	Informal	34% deficient in fat.	Formal sample obtained.
993A	Bread	Informal	Contained discoloured areas due to presence of coal dust.	Vendor warned
995A	Thyme	Informal	Contained 3.9% of sand.	Formal sample obtained.
1002A	Condiment, non-brewed	Informal	10% deficient in acetic acid.	Vendor warned.

Adulterated Samples, etc.—continued.

Serial No.	Article	Formal or Informal	Nature of Adulteration or Irregularity	Observations
1013A	Egg Roll	Informal	Showed small areas of surface discolouration probably due to the knife used to cut the roll.	Vendor warned.
1014A	Fairy Cake	Informal	Contained a small foreign body found to consist of coal dust.	Manufacturer warned.
1035A	Bread	Informal	Contained a number of small greyish-black nodules.	No action. Insufficient evidence.
1052A	Bread	Informal	Contained discoloured areas due to the presence of partly charred bread mixed with dough.	Manufacturer warned.
1053A	Bread	Informal	Contained a mass of foreign matter embedded in the bottom of the loaf consisting of insect web, a dead beetle, parts of insect pupæ and eggs.	Manufacturer warned.
1739	Pork Sausages	Formal	5% deficient in meat.	Manufacturer warned.
1745	Sausages (containing Bacon)	Formal	7½% deficient in meat.	Manufacturer warned.
1756 1766	Milk Milk	Formal Formal	9% deficient in fat } 6% deficient in fat {	"Appeal to Cow" samples taken.
1774	Thyme	Formal	Contained 3.8% of sand.	Vendor warned. Remainder of stock withdrawn.
1830	Ice Cream	Formal	26% deficient in fat.	Vendor prosecuted.

Unsound Food

The department continues to receive articles of food containing a variety of foreign substances.

In two cases legal proceedings were instituted. Warning letters were sent in other cases.

Clean Food Campaign

The film "Another Case of Poisoning" was exhibited (two showings) at the Civic Centre and all food handlers working in the Borough invited to attend. This film was also shown at nine canteens in the Borough and the employees at adjacent factory canteens were invited.

Lectures have been given to members of some local organisations.

Legal proceedings were instituted under Food & Drugs Act, 1938, Section 13, against a firm of local bakers in respect of dirty apparatus and utensils. A fine of £5 was imposed, plus £2 2s. 0d. costs.

Food Poisoning Outbreaks

During the year 26 cases of food poisoning were notified; these covered two small outbreaks and 21 single cases. In four cases the causative organisms were identified.

NOTIFIABLE DISEASES (Other than Tuberculosis)			
Disease	1937	1938	1939
Measles (Foreign Origin)	1	1	1
Scarlet Fever	1	1	1
Diphtheria	1	1	1
Epidemic Typhus	1	1	1
Measles	1	1	1
Polio	1	1	1
Smallpox	1	1	1
Scarlet Fever	1	1	1
Diphtheria	1	1	1
Epidemic Typhus	1	1	1
Measles	1	1	1
Polio	1	1	1
Smallpox	1	1	1
Scarlet Fever	1	1	1
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Epidemic Typhus	1	1	1
Measles	1	1	1
Polio	1	1	1
Smallpox	1	1	1
Scarlet Fever	1	1	1
Diphtheria			

**PREVALENCE OF, AND CONTROL OVER
INFECTIOUS AND OTHER DISEASES
NOTIFIABLE DISEASES (Other than Tuberculosis)**

	Under 1 year	1-2	3-4	5-9	10-14	15-24	25 and over	Total
Scarlet Fever	-	14	26	80	20	8	3	151
Whooping Cough	60	117	155	150	5	2	3	492
Acute Poliomyelitis :—								
Paralytic	-	-	-	-	-	-	-	-
Non-paralytic	-	2	-	2	-	1	1	6
Measles	48	347	452	546	8	4	2	1407
Diphtheria	-	-	-	-	-	-	-	-

	Under 5 years	5-14	15-44	45-64	65 and over	Total
Pneumonia :—						
Acute Primary	5	5	15	8	4	37
Acute Influenzal	-	-	2	-	6	8
Dysentery	9	13	5	1	-	28
Smallpox	-	-	-	-	-	-
Encephalitis, Acute :—						
Infective	-	-	-	-	-	-
Post-Infectious	-	-	-	-	-	-
Enteric Fever	-	-	-	-	-	-
Paratyphoid Fever	1	1	-	-	-	2
Erysipelas	-	-	1	4	-	5
Meningococcal Infection	2	-	1	-	-	3
Food Poisoning	7	1	15	3	-	26
Puerperal Pyrexia	-	-	14	-	-	14
Ophthalmia Neonatorum	5	-	-	-	-	5
Pemphigus	-	-	-	-	-	-
Malaria (Foreign Origin)	-	-	1	-	-	1

	Notified	Admitted to Isolation Hospital, Rush Green	Admitted to other Isolation Hospitals	Admitted to other Hospitals	Deaths Registered
Diphtheria	—	—	—	—	—
Dysentery	28	4	1	—	—
Encephalitis, Acute	—	—	—	—	—
Enteric Fever	—	—	—	—	—
Erysipelas	5	—	2	—	—
Food Poisoning	26	1	3	1	—
Malaria	1	—	—	1	—
Measles	1,407	14	3	3	1
Meningococcal Infection	3	3	—	—	—
Ophthalmia Neonatorum	5	—	—	—	—
Paratyphoid Fever	2	2	—	—	—
Pemphigus	—	—	—	—	—
Puerperal Pyrexia	14	1	—	6	—
Pneumonia —					
Acute Influenzal	8	—	—	2	} 47
Acute Primary	37	3	2	1	
Poliomyelitis, Acute	—	—	—	—	—
Paralytic	—	—	—	—	—
Non-paralytic	6	6	—	—	—
Scarlet Fever	151	26	14	—	—
Smallpox	—	—	—	—	—
Whooping Cough	492	12	4	4	—

DIPHTHERIA IMMUNISATION

The following is a summary of the work carried out during the year :—

Number of SCHOOL children immunised without preliminary testing	96
Number of PRE-SCHOOL children immunised without preliminary testing	974
Number of SCHOOL children who received a boosting dose	850

Immunisation by General Practitioners.

Number of SCHOOL children immunised without preliminary testing	18
Number of PRE-SCHOOL children immunised without preliminary testing	258
Number of SCHOOL children who received a boosting dose	119

WHOOPIING COUGH IMMUNISATION

The number of children who received protective doses against Whooping Cough was 96, the majority of these being between the ages of one and four years.

VACCINATION CARRIED OUT BY GENERAL PRACTITIONERS

Vaccinated.

1951 (Under 1)	.....	.....	.....	.....	222
1947-50 (1—4)	.....	.....	.....	.....	73
1937-46 (5—14)	.....	.....	.....	.....	73
Before 1937 (15 or over)	.....	.....	.....	.....	91
Total					459

Re-Vaccinated.

1951 (Under 1)	.....	.....	.....	.....	2
1947-50 (1—4)	.....	.....	.....	.....	3
1937-46 (5—14)	.....	.....	.....	.....	18
Before 1937 (15 or over)	.....	.....	.....	.....	169
Total					192

TUBERCULOSIS

	New Cases								Deaths			
	Primary Notification				Brought to notice other than by Form A							
	Pul-monary		Non-Pul-monary		Pul-monary		Non-Pul-monary		Pul-monary		Non-Pul-monary	
	M	F	M	F	M	F	M	F	M	F	M	F
Under 1	—	—	—	—	—	—	—	—	—	—	—	—
1—	2	3	—	—	1	1	1	—	—	—	—	—
5—	1	3	—	—	1	2	—	—	—	—	—	—
10—	—	—	4	2	—	—	—	1	—	—	—	—
15—	3	10	—	3	—	2	—	—	—	—	1	1
20—	11	16	—	—	1	5	—	—	—	3	—	—
25—	14	16	—	1	5	5	2	1	2	2	1	—
35—	11	10	1	1	2	1	—	—	2	1	—	—
45—	7	3	—	2	1	1	—	—	7	—	—	—
55—	6	—	2	—	3	—	—	—	4	—	—	—
65—and upwards	1	—	—	—	—	—	—	—	1	—	—	—
	56	61	7	9	14	17	3	2	16	6	2	1

Register.

	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
No. on register 1st January, 1951.....	538	406	79	90
During the year :—				
New notifications	56	61	7	9
Deaths	16	6	2	1
Transfers into area	14	17	3	2
Transfers out of area	22	26	1	5
Removed from register as "Recovered"	46	35	11	18
No. on register 31st December, 1951	524	417	75	77

MATERNITY AND CHILD WELFARE**Notification of Births**

1,888 notifications of live births were received during the year. This number includes 139 children who were born in Rush Green Hospital but whose normal residence is not within the Borough.

Stillbirths

15 male and nine female stillbirths were notified, the corresponding figures for registration being 17 and nine. The rate per 1,000 of total population registered was 0.23, the rate for England and Wales being 0.36.

Infant Mortality

52 infants under one year of age died during the year, giving an infant mortality rate of 30.08 per 1,000 live births, compared with that of 29.6 for England and Wales and 26.4 for London. The rate amongst legitimate children was 28.55, while for illegitimate children it was 83.33.

Ophthalmia Neonatorum

Five cases of this disease were notified ; all made complete recoveries.

There were 46 cases in which a medical aid notice was sent by a midwife to a medical practitioner on account of some eye condition occurring in a newly-born infant. All these cases were investigated by the Medical Officer of Health and all were visited by a Health Visitor.

Maternal Mortality

One maternal death was assigned to this district, which gives a maternal mortality rate of 0.57 per thousand births. That for England and Wales for the corresponding period was 0.79.

Work of Health Visitors

The following table shows the number of visits paid by the Health Visitors during the year :—

(a) To expectant mothers	First visits	274
	Total visits	492
(b) To children under 1 year of age	First visits	2,049
	Total visits	4,783
(c) To children between the ages of 1 and 5 years	Total visits	13,603
(d) Ineffective visits	Total visits	3,539
(e) Other visits	Total visits	4,380
Grand Total		26,797

Domiciliary Midwifery Service

The following is a summary of the reasons for sending for medical aid by midwives :—

Perineal Tear	66
Discharging Eyes	46
Prolonged Labour	28
Rise of Temperature	21
Ante-Partum Haemorrhage	17
Threatened Miscarriage	15
Bleeding per Vagina	14
Miscarriage	12
Inflammation over Veins in Leg	12
Malpresentation	11
Post-Partum Haemorrhage	10
Threatened Abortion	9
Premature Labour	8
Adherent Placenta	6
Abortion	6
Early Rupture of Membranes	6
Hypertension and Albuminuria	5
Jaundice	5
High Blood Pressure	4
Unsatisfactory Condition of Infant	4
Sub-Involution	4
Persistent Vomiting	4
Septic Spots on Baby	3
Premature Baby	3
Albuminuria	3
Cyanosed Infant	3
Other Causes	46

Notices summoning medical aid	.....	.....	.....	.....	371
For (a) Mothers	.....	.....	.....	.....	296
For (b) Infants	.....	.....	.....	.....	75

Notifications that they had been associated with the under-mentioned conditions were received from domiciliary midwives :—

Substitution of artificial feeding	.....	.....	.....	13
Liabie to be sources of infection	.....	.....	.....	10
Stillbirths	.....	.....	.....	3
Deaths of Mother or Child	.....	.....	.....	2
Laying out dead bodies	.....	.....	.....	1

Below is a table setting forth in statistical form the work of the County Midwives, Midwives residing at York House Training Home and Salvation Army Midwives for the year 1951 :—

	County Midwives	Midwives Residing at York House Training Home	Salvation Army Midwives
Births Attended :			
As Midwife	311	229	62
As Maternity Nurse	33	4	6
Miscarriages Attended (included in above)	5	11	7
Visits Paid :			
As Midwife	7,129	5,913	1,941
As Maternity Nurse	517	78	135
Ante-Natal	3,527	2,342	508
Ante-Natal Clinics Attended	877	15	95
Gas and Air Administered :			
As Midwife	152	173	52
As Maternity Nurse	16	1	4

Dental Treatment

The following particulars relate to dental treatment provided for mothers and young children :—

	Expectant or Nursing Mothers	Children Under Five Years of Age
Number of patients examined	152	239
Number of patients needing treatment	136	223
Number of patients treated	136	223
Number of patients made dentally fit	98	161
Number of Extractions	774	654
Number of fillings	6	—
Number of Anaesthetics administered :		
(a) local	—	—
(b) general	200	391
Number of Scalings or scaling and gum treatment	26	—
Number of Silver Nitrate treatment	6	16
Number of Dressings	10	—
Number of X-ray examinations	—	1
Number of Dentures provided :		
(a) full	60	—
(b) partial	32	—

Day Nurseries

There are three Nurseries in the Borough, accommodating 164 children in all.

Staff : Matrons	2
Deputy Matrons	2
Wardens	3
Nursery Trained Nurses	7
Nursery Assistants	12
Nursery Assistant (Part-Time)	1
Nursery Students	15
Nursery Helper	1
Total	43

Total Attendances at Nurseries for 1951 :—

Goresbrook Nursery	Under 2 years of age	3,151
	Over 2 " " "	10,160
Chadwell Heath Nursery	Under 2 years of age	2,217
	Over 2 " " "	8,241
Kingsley Hall Nursery.....	Over 2 " " "	8,001
Total		31,770

Premature Infants

Live premature births occurring in the Area :—

	2lbs. 3ozs. or less	2lbs. 4ozs.— 3lbs. 4oz.	3lbs. 5ozs.— 4lbs. 6oz.	4lbs. 7ozs.— 4lbs. 15oz.	5 lbs. 5lbs. 8ozs.
Born alive at home and nursed entirely at home	—	—	—	5	19
Born alive at home and transferred to hos- pital	4	—	1	1	1
Born alive in a private nursing home and nursed entirely there	—	—	—	—	—
Born alive in a private nursing home and transferred to hos- pital	—	—	—	—	—

CAUSES OF DEATH (As classified in Public Health Dept.)	Under 1 year		1 and under 2 years		2 and under 5 years		5 and under 15 years		15 and under 25 years		25 and under 35 years		35 and under 45 years		45 and under 55 years		55 and under 65 years		65 and under 75 years		75 and over		TOTAL	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
1. Tuberculosis, respiratory	—	—	—	—	—	—	—	—	—	3	2	3	2	1	5	1	5	—	2	—	—	—	16	8
2. Tuberculosis, other	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	
3. Syphilitic disease	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	1	—	2	—
4. Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. Meningococcal infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8. Measles	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
9. Other infective and parasitic diseases...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—
10. Malignant neoplasm, stomach	—	—	—	—	—	—	—	—	—	—	—	—	1	2	7	5	11	3	2	3	3	1	24	14
11. Malignant neoplasm, lung, bronchus ...	—	—	—	—	—	—	—	—	—	—	—	—	2	—	14	—	13	—	9	—	—	1	38	1
12. Malignant neoplasm, breast	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	2	—	1	—	3	—	2	—	9
13. Malignant neoplasm, uterus	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	5	—	2	—	—	—	9
14. Other malignant and lymphatic neoplasms	—	—	—	1	—	—	—	—	1	—	—	2	2	11	6	11	10	11	7	5	8	40	35	
15. Leukemia, aleukemia	—	—	—	—	—	—	—	—	—	—	1	—	2	—	—	—	—	—	1	—	—	1	4	1
16. Diabetes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2	2	1	2	—	2	4	7
17. Vascular lesions of nervous system ...	—	—	—	—	—	—	—	—	1	—	—	—	—	—	5	6	9	8	6	15	7	11	27	41
18. Coronary disease, angina	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	4	7	3	9	2	5	3	30	12
19. Hypertension with heart disease ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	7	4	7	5	2	5	16	15
20. Other heart disease	—	—	—	—	—	—	—	—	2	—	2	3	4	7	6	6	5	15	8	16	23	47	50	
21. Other circulatory disease	—	—	—	—	—	—	—	—	—	—	—	—	2	—	1	2	8	6	5	6	15	6	31	20
22. Influenza	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	1	2	—	2	1	4	2	9	5
23. Pneumonia	9	2	1	—	—	—	—	1	—	—	1	—	—	3	1	5	—	6	7	4	11	29	22	
24. Bronchitis	1	1	1	—	—	—	1	—	—	2	1	1	—	10	1	21	6	18	3	20	11	74	24	
25. Other diseases of respiratory system ...	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	—	1	—	2	—	—	—	5	—
26. Ulcer of stomach and duodenum ...	—	—	—	—	—	—	—	—	—	—	1	—	—	—	3	—	2	—	1	—	2	1	8	2
27. Gastritis enteritis and diarrhoea ...	—	2	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	3
28. Nephritis and nephrosis	1	1	—	—	—	—	—	—	—	—	—	—	—	1	—	—	2	3	1	—	2	2	6	7
29. Hyperplasia of prostate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	1	—	4	—
30. Pregnancy, childbirth, abortion ...	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1
31. Congenital malformations	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	3	1
32. Other defined and ill-defined diseases...	19	10	—	1	1	—	—	—	3	4	2	5	2	5	3	4	9	7	2	15	17	60	49	
33. Motor vehicle accidents	—	—	—	—	1	—	—	1	—	1	—	—	—	—	—	—	—	—	3	—	1	—	7	—
34. All other accidents	—	—	—	—	1	—	1	1	—	1	—	1	—	—	2	1	—	—	—	—	—	—	6	2
35. Suicide	—	—	—	—	—	—	—	—	—	—	2	—	1	—	—	2	1	—	—	1	—	—	4	3
36. Homicide and operations of war ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	33	17	3	2	3	—	—	2	4	12	13	11	25	16	83	44	118	65	112	67	103	107	497	343

CAUSE OF DEATH (As classified in Table Health Unit)		1917		1918		1919		1920		1921		1922		1923		1924		1925		1926		1927		1928		1929		1930		1931		1932		1933		1934		1935		1936		1937		1938		1939		1940		1941		1942		1943		1944		1945		1946		1947		1948		1949		1950		1951		1952		1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304		2305		2306		2307		2308		2309		2310		2311		2312		2313		2314		2315		2316		2317		2318		2319		2320		2321		2322		2323		2324		2325		2326		2327		2328		2329		2330		2331		2332		2333		2334		2335		2336		2337		2338		2339		2340		2341		2342		2343		2344		2345		2346		2347		2348		2349		2350		2351		2352		2353		2354		2355		2356		2357		2358		2359		2360		2361		2362		2363		2364		2365		2366		2367		2368		2369		2370		2371		2372		2373		2374		2375		2376		2377		2378		2379		2380		2381		2382		2383		2384		2385		2386		2387		2388		2389		2390		2391		2392		2393		2394		2395		2396		2397		2398		2399		2400		2401		2402		2403		2404		2405		2406		2407		2408		2409		2410		2411		2412		2413		2414		2415		2416		2417		2418		2419		2420		2421		2422		2423		2424		2425		2426		2427		2428		2429		2430		2431		2432		2433		2434		2435		2436		2437		2438		2439		2440		2441		2442		2443		2444		2445		2446		2447		2448		2449		2450		2451		2452		2453		2454		2455		2456		2457		2458		2459		2460		2461		2462		2463		2464		2465		2466		2467		2468		2469		2470		2471		2472		2473		2474		2475		2476		2477		2478		2479		2480		2481		2482		2483		2484		2485		2486		2487		2488		2489		2490		2491		2492		2493		2494		2495		2496		2497		2498		2499		2500		2501		2502		2503		2504		2505		2506		2507		2508		2509		2510		2511		2512		2513		2514		2515		2516		2517		2518		2519		2520		2521		2522		2523		2524		2525		2526		2527		2528		2529		2530		2531		2532		2533		2534		2535		2536		2537		2538		2539		2540		2541		2542		2543		2544		2545		2546		2547		2548		2549		2550		2551		2552		2553		2554		2555		2556		2557		2558		2559		2560		2561		2562		2563		2564		2565		2566		2567		2568		2569		2570		2571		2572		2573		2574		2575		2576		2577		2578		2579		2580		2581		2582		2583		2584		2585		2586		2587		2588		2589		2590		2591		2592		2593		2594		2595		2596		2597		2598		2599		2600		2601		2602		2603		2604		2605		2606		2607		2608		2609		2610		2611		2612		2613		2614		2615		2616		2617		2618		2619		2620		2621		2622		2623		2624		2625		2626		2627		2628		2629		2630		2631		2632		2633		2634		2635		2636		2637		2638		2639		2640		2641		2642		2643		2644		2645		2646		2647		2648		2649		2650		2651		2652		2653		2654		2655		2656		2657		2658		2659		2660		2661		2662		2663		2664		2665		2666		2667		2668		2669		2670		2671		2672		2673		2674		2675		2676		2677		2678		2679		2680		2681		2682		2683		2684		2685		2686		2687		2688		2689		2690		2691		2692		2693		2694		2695		2696		2697		2698		2699		2700		2701		2702		2703		2704		2705		2706		2707		2708		2709		2710		2711		2712		2713		2714		2715		2716		2717		2718		2719		2720		2721		2722		2723		2724		2725		2726		2727		2728		2729		2730		2731		2732		2733		2734		2735		2736		2737		2738		2739		2740		2741		2742		2743		2744		2745		2746		2747		2748		2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