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BOROUGH OF HARWICH

# ANNUAL REPORT

FOR 1946

OF THE

MEDICAL OFFICER OF  
HEALTH AND  
SANITARY INSPECTOR

# BOROUGH OF HARWICH

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## HEALTH DEPARTMENT OFFICERS

Medical Officer of Health :

J. ROLAND HETHERINGTON,  
L.R.C.P. and S.E., L.R.F.P. and S.G., D.P.H.

Deputy Medical Officer of Health (part-time) :

KIERAN PHELAN, M.B., B.CH., B.A.O.

Sanitary Inspector :

A. E. PRICE, CERT. R.S.I. and S.I.J.E.B.

M. and C.W. Dental Officer (part-time) :

L. G. WHELPTON, L.D.S., R.C.S. ENG.

Health Visitors :

Miss F. CORRAN, S.R.N., S.C.M.

Miss E. A. THURSTON, S.R.N., S.C.M., H.V.

Clerk :

Miss R. M. WHITMORE (up to July 6th, 1946).

S. J. ROSE (from July 22nd, 1946).

ANNUAL REPORT OF THE  
MEDICAL OFFICER OF HEALTH  
FOR THE YEAR 1946

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TO THE MAYOR, ALDERMEN, AND COUNCILLORS OF  
THE BOROUGH OF HARWICH

MR. MAYOR, LADIES AND GENTLEMEN,

I have the honour to present the Annual Report for the year 1946.

Comments on the various aspects of the work of the Health Department will be found in the relevant sections of the Report.

In presenting this Report it again gives me much pleasure to express my thanks for the helpful co-operation of the various officials of the Council and also the continued loyal support of the members of this Department.

I am,

Your obedient servant,

J. ROLAND HETHERINGTON,

Medical Officer of Health.

HEALTH DEPARTMENT,

MAIN ROAD,

DOVERCOURT.

October, 1947.

# ANNUAL REPORT, 1946

## SECTION A

### STATISTICS AND SOCIAL CONDITIONS OF THE AREA

The area of the Borough is 1,512 acres.

Population (Census 1931) was 12,700.

Registrar General's Estimated Population (mid-1946), 11,250.

Rateable Value, £80,256.

The sum represented by a Penny Rate, £294 12s. 0d.

### VITAL STATISTICS

#### 1. Birth Rate

	M.	F.	TOTAL
Live births, legitimate .. .. .	127	121	248
"    "    illegitimate .. .. .	13	5	18
Total live births .. .. .	140	126	266
Birth rate per 1,000 estimated population	23·64		
Still births .. .. .	2	1	3
Still birth rate per 1,000 births .. ..	11·15		

#### 2. Infant Mortality

	M.	F.	TOTAL
Death of infants under one year ..	6	8	14
Death rate of all infants under one year per 1,000 live births .. .. .	52·6		
Death rate of legitimate infants under one year per 1,000 live legitimate births	55·6		
Death rate of illegitimate infants under one year per 1,000 live illegitimate births .. .. .	Nil.		

#### 3. Deaths

	M.	F.	TOTAL
Deaths during year .. .. .	79	66	145
Crude death rate per 1,000 estimated population .. .. .	12·89		

## CAUSES OF DEATH

	M.	F.	TOTAL
1. Typhoid and Paratyphoid Fevers .. .. .	0	0	0
2. Cerebro-Spinal Fever .. .. .	0	0	0
3. Scarlet Fever .. .. .	0	0	0
4. Whooping Cough .. .. .	0	0	0
5. Diphtheria .. .. .	0	0	0
6. Tuberculosis of Respiratory System .. .. .	4	1	5
7. Other forms of Tuberculosis .. .. .	0	0	0
8. Syphilitic Diseases .. .. .	0	0	0
9. Influenza .. .. .	1	0	1
10. Measles .. .. .	0	0	0
11. Acute Poliomyelitis and Polioencephalitis .. .. .	0	0	0
12. Acute in-Encephalitis .. .. .	0	0	0
13. Cancer of Buccal Cavities and Oesophagus and Uterus .. .. .	0	2	2
14. Cancer of Stomach and Duodenum .. .. .	1	1	2
15. Cancer of Breast .. .. .	0	0	0
16. Cancer of all other sites .. .. .	13	4	17
17. Diabetes .. .. .	0	1	1
18. Intracranial Vascular Lesions .. .. .	7	15	22
19. Heart Disease .. .. .	22	19	41
20. Other Diseases of Circulatory System .. .. .	3	0	3
21. Bronchitis .. .. .	7	2	9
22. Pneumonia .. .. .	2	2	4
23. Other Respiratory Diseases .. .. .	1	1	2
24. Ulcer of Stomach or Duodenum .. .. .	0	0	0
25. Diarrhoea under two years .. .. .	1	1	2
26. Appendicitis .. .. .	0	0	0
27. Other Digestive Diseases .. .. .	0	0	0
28. Nephritis .. .. .	2	1	3
29. Puerperal and Post Abortional Sepsis .. .. .	0	0	0
30. Other Maternal Causes .. .. .	0	0	0
31. Premature Birth .. .. .	0	1	1
32. Congenital Malformation, Birth Injuries, and Infantile Diseases .. .. .	3	3	6
33. Suicide .. .. .	0	1	1
34. Road traffic accidents .. .. .	0	0	0
35. Other violent causes .. .. .	4	1	5
36. All other causes .. .. .	8	10	18
	<hr/>	<hr/>	<hr/>
	79	66	145
	<hr/>	<hr/>	<hr/>

## DEATHS AT VARIOUS AGES DURING 1946

Under 1 year .. .. .	14
1 and under 2 .. .. .	1
2 and under 5 .. .. .	0
5 and under 15 .. .. .	1
15 and under 25 .. .. .	3
25 and under 35 .. .. .	0
35 and under 45 .. .. .	10
45 and under 55 .. .. .	8
55 and under 65 .. .. .	31
65 and under 75 .. .. .	25
75 and upwards .. .. .	52

145

### TABLE I

#### VITAL STATISTICS (1945 AND 1946)

	ENGLAND					
	AND WALES		ESSEX		HARWICH	
	1945	1946	1945	1946	1945	1946
Birth Rate ..	16.1	19.1	17.3	20.6	21.78	23.64
Death Rate ..	11.4	11.5	11.5	10.4	12.45	12.89
I.M. Rate ..	46	43	39	33	36.86	52.6

### TABLE II

#### VITAL STATISTICS FOR 1946 AND CERTAIN PREVIOUS YEARS

YEAR	INFANT					
	BIRTH RATE	DEATH RATE	MORTALITY RATE			
1910 .. .. .	27.2	10.1	80			
1915 .. .. .	23.4	12.3	108			
1920 .. .. .	31.1	11.6	81			
1925 .. .. .	20.2	10.6	50			
1930 .. .. .	16.9	10.3	48.5			
1935 .. .. .	16.4	10.1	47.8			
1936 .. .. .	14.72	11.39	15.9			
1937 .. .. .	14.81	11.79	31.9			
1938 .. .. .	15.51	11.49	35.3			
1939 .. .. .	15.51	12.80	20.51			
1940 .. .. .	15.26	12.67	42.45			
1941 .. .. .	20.39	13.93	60.24			
1942 .. .. .	21.38	12.29	36.31			
1943 .. .. .	18.99	13.07	39.11			
1944 .. .. .	28.7	11.72	52.43			
1945 .. .. .	21.78	12.45	36.86			
1946 .. .. .	23.64	12.89	52.6			

## Comment

(1) The estimated population for the middle of 1946 shows a further step towards the pre-war population, and reflects on the restoration of the trade conditions of the Borough.

(2) In common with England and Wales as a whole, there has been another sharp increase in the number of births. The birth rate of 23·64 is the highest recorded for the Borough since 1921 (with the exception of the phenomenal rate of 1944).

The Harwich birth rate compares favourably with the rate for England and Wales, and for the administrative County of Essex.

(3) The death rate for the year shows a slight increase over the previous year, and is also higher than that for England and Wales, and definitely more than the death rate for the administrative County of Essex.

The principal differentiated causes of death during the year were :—

Diseases of Heart and Circulation .. .. .	66
Diseases of Respiratory System (including Pneumonia in infants, but excluding Tuberculosis)..	15
Cancer in all forms .. .. .	21
Tuberculosis in all forms .. .. .	5

These groups together account for 75 per cent. of all deaths. It is gratifying to note that more than 50 per cent. of the deaths in the Borough were of persons age 65 and over, and more than 35 per cent. were over 75 years of age.

Twenty-seven had attained the age of 80, and two died at 90 or over.

### (4) STILL BIRTHS AND INFANTILE DEATHS.

The mortality before, during, and shortly following birth continues at an unsatisfactorily high level. During the year under review, three still births were recorded, and fourteen infants died before reaching the age of twelve months.



The causes of death were as follows :—

TABLE III  
INFANTILE MORTALITY, 1946

CAUSE OF DEATH	DID NOT SURVIVE ONE WEEK	LIVED OVER ONE WEEK BUT LESS THAN FOUR WEEKS	SURVIVED ONE MONTH, DIED UNDER ONE YEAR	TOTAL
Prematurity ..	1	1	—	2
Birth injuries ..	1	1	—	2
Malformation	—	—	—	—
Overlaying ..	—	—	—	—
Bronchitis and Pneumonia ..	—	1	1	2
Marasmus ..	—	1	—	1
Gastro-Enteritis	—	—	2	2
<i>Other causes</i>	<u>2</u>	<u>1</u>	<u>2</u>	<u>5</u>
	4	5	5	14

It is significant that of the three Still Births and fourteen Infantile Deaths, Ante-Natal supervision is recorded in only six cases. Amongst those infants who were either still-born or who did not survive four weeks (eight in all), four received Ante-Natal supervision. Of the four infant deaths from Prematurity or Birth Injury, one received Ante-Natal supervision.

## SECTION B

### GENERAL PROVISION OF HEALTH SERVICES FOR THE AREA

#### (a) Staffing

(i) The Medical Officer of Health holds the following appointments, the apportionment of duties being as indicated :—

##### BOROUGH OF HARWICH.

Medical Officer of Health .. .. .	15 per cent.
Maternity and Child Welfare Medical Officer..	2 „ „

##### ESSEX COUNTY COUNCIL.

Assistant School Medical Officer .. .. .	25 per cent.
Assistant V.D. Medical Officer .. .. .	11 „ „

##### HARWICH PORT HEALTH AUTHORITY.

Medical Officer .. .. .	5 per cent.
Medical Inspector of Aliens .. .. .	42 „ „

(ii) **SANITARY INSPECTOR.**—The Sanitary Inspector carries out all the duties imposed by statute, including the inspection of shops. In addition he holds the post of Shop Inspector under the Shops Act, 1934. He also carries out the necessary duties under the Rat and Mice (Destruction) Act, 1919, and is appointed to carry out inspections under the Housing Acts. In co-operation with the Borough Engineer and Surveyor he supervises the Scavenging of the district.

(iii) **HEALTH VISITORS.**—Both Health Visitors are also School Nurses under the Essex Education Authority. In addition they attend as necessary at the sessions of the V.D. Clinic.

#### (b) Laboratory Facilities

There are no local facilities for laboratory work. Arrangements have been made with the County Council for the examination of all pathological specimens, including those connected with venereal disease, at the Essex County Public Health Laboratory, Colchester.

#### (c) Ambulance Facilities

The Town Ambulance is the property of the Borough Council and is manned by three full-time drivers. When not engaged on the Ambulance these drivers undertake gardening and other similar duties at the Harwich and District Hospital, the Hospital making a financial contribution in respect of such work. When the necessity for an attendant in the Ambulance arises, this duty is carried out by a voluntary helper. The services of these helpers, frequently called for at inconvenient times and nearly always at very short notice, is very much appreciated.

During the year the following journeys were undertaken :—

	MATERNITY	OTHER	TOTAL
Local .. ..	1	275	276
Rural .. ..	38	—	38
Colchester .. ..	12	26	38
Ipswich .. ..	—	39	39
Mistley .. ..	—	1	1
Black Notley .. ..	—	2	2
Chelmsford.. ..	1	—	1
Great Bentley .. ..	4	—	4
Clacton .. ..	2	—	2
	58	343	401

Total mileage : 5,650.

Average mileage per journey : 14'08.

The Ambulance has done yeoman service since it was originally made available for the general public some fourteen years ago.

#### (d) Hospital Facilities

“The Harwich and District Hospital and Fryatt Memorial,” situated at Dovercourt, contains 24 beds and 2 cots, and provides facilities for all general, medical, and surgical treatment.

The Hospital has an endowment, but is mainly dependant on voluntary contributions, donations, patients' payments, and a workmen's contributory scheme. A reciprocal arrangement is in force, whereby treatment for residents in the Borough is available at the East Suffolk and Ipswich Hospital, and also at the Essex County Hospital, Colchester.

There are no Hospital or Nursing Home facilities in the Borough for Maternity cases. A Private Nursing and Maternity Home was opened in November, 1946, but staffing difficulties led to its closure within a very short time. Those patients requiring hospitalisation have to be conveyed to either the Essex County Hospital at Tendring (a distance of about eleven miles) or to the Colchester Borough Maternity Home, which involves a journey of some twenty miles. The absence of local facilities is very regrettable and definitely adds to the risk of maternal morbidity and infantile survival.

There are no facilities for dealing with complicated obstetrics at the Tendring Hospital, which fact further aggravates the unsatisfactory position.

#### (e) Nursing in the Home

(1) DISTRICT NURSES, MIDWIVES.—There are three District Nurse Midwives in the Borough, who are appointed and controlled by the

Harwich and District Nursing Association. This is a voluntary organisation, supported by voluntary contributions, and has a committee of ladies under the able chairmanship of Mrs. R. A. Ward, J.P. It is affiliated to the Essex County Nursing Association, which makes an annual grant towards the nurses' salaries.

The Supervising Authority under the Midwives Act, 1902 and 1918, is the Essex County Council.

(2) HOME HELPS.—In spite of persistent efforts it has not been found possible to establish a "Home Help" Service, with any degree of success. As indicated in the circulars issued by the Ministry of Health, it is intended that a Home Help shall be able to look after an invalid at home (apart from duties which are definitely the work of a trained nurse). The Home Help should also be available to look after the husband or children of a mother who is sent to hospital or convalescent home. Diligent enquiries have so far failed to attract suitable persons to the service. This is regrettable, as it is felt that the use of such helps would relieve the pressure upon hospital beds, both medical, surgical, and maternity.

#### (f) Clinics and Treatment Centres.

##### (1) MATERNITY AND CHILD WELFARE.

(a) Ante-Natal and Post-Natal Clinics are held at "Tower House" on the second and fourth Wednesday of each month at 2.15 p.m.

(b) Infant and Toddler Clinic.

(i) "Tower House" each Tuesday at 2.15 p.m.

(ii) All Saints' Church Hall each Monday at 2.15 p.m.

Dental inspection and treatment facilities are available for all expectant mothers, infants, and toddlers.

Orthopædic and eye defects in young children are dealt with at the respective clinics indicated below.

##### (2) DIPHTHERIA IMMUNISATION.

Facilities for this are available at the Infant and Toddler Clinics.

##### (3) SCHOOL MEDICAL SERVICE (UNDER THE COUNTY COUNCIL).

(a) School Clinic at "Tower House" each Tuesday and Friday at 10 a.m. Treatment of minor ailments daily at 9.30 a.m.

(b) Dental Clinic at "Tower House" each Thursday and Friday at 2 p.m.

(c) Ophthalmic Clinic at "Tower House" by appointment.

(d) Orthopædic Clinic at "Tower House" by appointment.

##### (4) TUBERCULOSIS (UNDER COUNTY COUNCIL).

This Clinic, under the auspices of the County Council, is held at the Health Department, Old Isolation Hospital, on the first and third Tuesday of each month at 11 a.m.

(5) VENEREAL DISEASES (UNDER COUNTY COUNCIL).

Treatment is given at the Health Department on :

Monday	..	..	..	9 a.m. to 10 a.m.
Wednesday	..	..	..	11 a.m. to 1 p.m.
Thursday	..	..	..	9 a.m. to 10 a.m.
and	..	..	..	5.30 p.m. to 6.30 p.m.
Saturday	..	..	..	9 a.m. to 10 a.m.

Or by appointment.

(g) Maternity and Child Welfare.

(1) NOTIFICATION OF BIRTHS.

Number of births notified in the area during the year (Section 203 of the Public Health Act, 1936) :

Live births	..	..	..	275
Still births	..	..	..	3
				<hr/>
Total	..	..	..	278
				<hr/>
By midwives	..	..	..	162
By doctors	..	..	..	116

(2) HEALTH VISITING.

(a) Number of Health Visitors employed at the end of the year :

(i) by the Council	..	..	..	2
(ii) by voluntary associations	..	..	..	nil

(b) Equivalent of whole-time services devoted by the whole staff to health visiting (including attendance at Infant Welfare Centres) :

(i) in the case of Health Visitors employed by the Council	..	..	..	1
(ii) in the case of Health Visitors employed by voluntary associations	..	..	..	nil

(c) Number of visits paid during the year by all Health Visitors :

(i) to expectant mothers—				
First visits	..	..	..	29
Total visits	..	..	..	35
(ii) to children under one year of age—				
First visits	..	..	..	261
Total visits	..	..	..	900
(iii) to children between the ages of one and five years—				
Total visits	..	..	..	956

(3) INFANT WELFARE CENTRES.

- (a) Number of Centres provided and maintained by the Council .. .. . 2
- (b) Number of Centres provided and maintained by voluntary associations .. .. . nil
- (c) Total number of attendances at all Centres during the year :
- (i) by children under one year of age .. .. 2030
- (ii) by children between the ages of one and five years .. .. 638
- (d) Total number of children who first attended at the Centres during the year and who on the date of their first attendances were :
- (i) under one year of age .. .. 214
- (ii) between the ages of one and five years .. 67
- (e) Total number of children under five years of age, who attended at the Centres during the year and who, at the end of the year were :
- (i) under one year of age .. .. 209
- (ii) over one year of age .. .. 282
- (f) Percentage of notified live births represented by the number in (d) (i) .. .. 77·8 per cent.

The number of attendances at both Centres during the year shows a most gratifying increase, details being :

	UNDER TWELVE MONTHS.	OVER TWELVE MONTHS.	TOTAL
First quarter ..	419	152	571
Second quarter ..	374	137	511
Third quarter ..	558	132	690
Fourth quarter ..	679	217	896
	<hr/>	<hr/>	<hr/>
Total 1946 ..	2030	638	2668
Total 1945 ..	1547	562	2109
	<hr/>	<hr/>	<hr/>

(4) ANTE-NATAL and POST-NATAL SUPERVISION.

	ANTE-NATAL.	POST-NATAL.
(a) Ante-natal and Post-natal Clinics (whether held at Infant Welfare Centres or at other premises) :		
(i) Number of Clinics provided and maintained by the Council .. ..	1	1
(ii) Number of Clinics provided and maintained by voluntary associations .. ..	—	—
(iii) Total number of attendances at all Clinics during the year .. ..	479	—
(iv) Total number of women who attended at the Clinics during the year .. ..	93	8
(b) Total number of expectant mothers ante-natally examined and of cases post-natally examined during the year, under arrangements made by the Council with private medical practitioners, excluding cases under (5) (a) (iv) .. .. .	nil	nil
(c) Percentage of notified births (live and still) represented by the total numbers of women shown under (5) (a) (iv) and (5) (b) .. .. .	36·2 per cent.	
(d) Number of women (if any) sent by the Council during the year to other maternity institutions .. .. .		39

(5) SUPPLY OF MILK AND OTHER FOODS.

	TINS, PACKETS, ETC.	FREE.
National Dried Milk, Half Cream .. ..	36	—
"    "    "    Full Cream .. ..	2401	—
Cow and Gate .. .. .	2477	6
Ostermilk .. .. .	818	—
Trufood .. .. .	454	1
Lactagol .. .. .	175	—
Farex .. .. .	579	1
Midlothian Oat Food .. .. .	273	—
Glucose D. .. .. .	351	—
Semolina .. .. .	45	1
Cod Liver Oil Emulsion .. .. .	55	4
Bemax .. .. .	136	—
Marmite .. .. .	12	—
Ribena .. .. .	68	—
Maltoline with iron .. .. .	23	1

(5) SUPPLY OF MILK AND OTHER FOODS—continued

Roboleine	..	..	..	..	64	3
Virol	..	..	..	..	571	52
Orange Juice	..	..	..	..	11688	—
Cod Liver Oil	..	..	..	..	1770	—
A and D. Capsules	..	..	..	..	574	—

I am indebted to the Food Executive Officer for the subjoined information indicating the percentage uptake of Welfare Foods during the year.

	ORANGE JUICE. PER CENT.	COD LIVER OIL. PER CENT.	A. AND D. TABLETS. PER CENT.
January ..	27·7	18·2	26·3
February ..	30·8	19·8	26·3
March ..	41·5	17·8	35·1
April ..	37·9	12·3	33·6
May ..	38·2	14·5	49·5
June ..	39·0	12·0	26·0
July ..	50·7	15·4	40·9
August ..	45·2	16·5	38·2
September ..	35·6	22·2	48·5
October ..	31·9	27·9	51·7
November ..	29·8	31·8	32·5
December ..	30·9	32·6	37·5

(6) CHILD LIFE PROTECTION (Sections 206 to 220 of the Public Health Act, 1936).

- (a) Number of persons who were receiving children for reward at the end of the year.. .. 6
- (b) Number of children :
- (i) at the end of the year .. .. 4
- (ii) who died during the year .. .. nil
- (iii) on whom inquests were held during the year .. nil
- (c) Number of Child Protection Visitors at the end of the year who were :
- (i) Health Visitors .. .. 2
- (ii) Female, other than Health Visitors .. .. nil
- (iii) Male .. .. nil
- (d) Number of persons (in addition to or in lieu of visitors under (c) above, or societies authorised to visit under the proviso to Section 209 (2) of the Public Health Act, 1936) .. .. nil
- (e) Proceedings taken during the year :
- Number of cases .. .. nil
- Act and Section under which proceedings were taken —



## COMMENTS

The proportion of confinements attended by midwives acting as such (i.e. medical help being called in only if the necessity arose) has shown during the past fifteen years, a slight but definite increase. This is more marked during the past two years, and as the use of analgesics by midwives in the absence of medical practitioners becomes more widely practised, will doubtless still further increase.

The re-establishment of a daily session of the Minor Ailment Clinic for school children has materially reduced the time available for home visits. To this cause is due a reduction of some 20 per cent. in the number of home visits paid. Other arrangements have now been made in respect of part of the duties hitherto carried out by the School Nurse, and this should relieve them for additional Infant Welfare work.

It is a matter for regret that in less than two-fifths of the notified births is there any record of the mother having received ante-natal supervision. Out of one hundred and sixty-two births notified by midwives, eighty-three (51 per cent.) attended the Borough's Ante-natal Clinic, the fact that only nine expectant mothers from one hundred and sixteen (8 per cent.) attended the Authorities Ante-natal Clinic, is partly offset by the knowledge that some practitioners undertake ante-natal supervision of their own patients. In spite of this, however, there is little doubt that many expectant mothers do not receive the ante-natal supervision to which they are entitled.

During the year, thirty-nine mothers were sent by the Authority to one or other of the hospitals in the neighbourhood, being 14 per cent. of the total confinements. The reduction compared with the previous year, when 21 per cent. of births took place in maternity institutions, is due to a more thorough investigation of applications, due to the marked shortage of hospital accommodation. In more than half of the cases sent in during the year, the unsatisfactory home conditions was the deciding factor.

The outstanding event of the year was the opening of the Infant Welfare Centre at All Saints' Church Hall, Dovercourt. A weekly session was arranged and the success of the venture is ample justification for the effort made.

The success of the Infant Welfare Centres is in no small measure due to the valued assistance given by the voluntary workers. Their presence and help so ungrudgingly given is very much appreciated, not only by the staff but also by the mothers of the children attending.

Dried milks and others preparations have been supplied as required to both expectant mothers and to infants, in necessitous cases no charge being made. Supplies were somewhat better maintained than in the previous years.

The fact that over six thousand tins or packets of dried milk have been sold during the year (apart from sales through ordinary channels), would seem to indicate a considerable amount of artificial feeding, with a correspondingly small proportion of breast feeding. It is found that many mothers are definitely anxious to breast feed; failure to do so arises from a variety of causes, amongst which may be mentioned the continual strain of shopping and household worries. A further important factor is the lack of sufficient rest to both body and mind.

Statistics regarding the take-up of orange juice, cod liver oil, and vitamin tablets reveal a regrettable reduction. It is estimated that the number of children under five years of age has increased by about sixty during the year, yet there is a reduction of three thousand in the number of bottles of orange juice taken, and also a drop of nearly five hundred in the number of cod liver oil bottles supplied. This unsatisfactory state of affairs has one redeeming feature, a most gratifying increase in the take-up of vitamin capsules. The need for these vitamin-containing preparations cannot be too highly stressed where the normal food supplies are subject to the limitations of rationing.

Work in connection with Child Life Protection continues to occupy an increasing proportion of the time and energies of the visitors during the year.

This work is very exacting, calling for the exercise of considerable tact, and it is gratifying to record that in practically every instance the visitors have been able to establish friendly relationship with foster parents.

Several instances of boarded-out children have been discovered during the course of their normal routine work by the health visitors, and it is desirable that the attention of the public be frequently drawn to the legal enactment which requires that any person, accepting the care of a child under the age of nine, shall inform the Welfare Authority BEFORE receiving such child.



This water is reasonably clear and bright in appearance, neutral in reaction, and contains a trace of iron. The water is normal in respect of hardness and salinity, and is of a high standard of organic and bacterial purity.

All samples were analysed by the Counties Public Health Laboratories.

## II. SEWERAGE AND DRAINAGE

The Borough (except a few low lying parts) is sewered, but owing to the town's growth, it is necessary to provide a new sewerage system and treatment works for the Upper Dovercourt and part of the Lower Dovercourt area. The present treatment works are unsatisfactory and a new scheme has been prepared and approved by the Ministry of Health and will be given some priority for post-war works.

### Closest Accommodation.

The approximate number is as follows :

Water closets .. .. .	4,877
Pail closets .. .. .	39
Houses with cesspool drainage ..	71

Most closets in the Borough are of the wash-down type, flushed by cisterns. There are still a few hand-flushed closets and if nuisances arise owners are called upon to provide and fix flushing cisterns.

The emptying of cesspools and pail closets is the responsibility of the owners, although the Council arrange for emptying at the expense of and on request of the owners.

## III. SCAVENGING

Household refuse is collected once weekly, together with all types of salvage by the Council, by direct labour, and is disposed of as far as practicable by controlled tipping.

### Salvage.

The following is the weight and value of all salvage collected and sold during the year, and the figures for 1945 are shown for comparison.

	1945					1946				
	TONS.	CWT.	£	s.	d.	TONS.	CWT.	£	s.	d.
Waste paper ..	43	12	285	18	6	48	10	306	4	6
Metals .. ..	2	0	38	19	0	4	0	4	0	0
Rags and sacking	2	1 $\frac{3}{4}$	33	10	0	1	18	30	8	0
Kitchen waste ..	39	11 $\frac{3}{4}$	60	6	1	32	7	47	15	6
Bones .. ..	2	14	13	15	9	1	13	8	6	10
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	89	19 $\frac{1}{2}$	£432	9	4	88	8	£396	14	10
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>

#### IV. (A) DISINFECTION

At the old Isolation Hospital, Main Road, Dovercourt, there is a disinfecting station fitted with a Thresh Steam Disinfector, which is used for the steam disinfection of bedding and clothing. This apparatus is a modern direct steam disinfector, housed in what was the hospital laundry, and is capable of dealing with any steam disinfection that may be required. In the case of infectious diseases the room or rooms occupied by the patient are fumigated by means of formalin, either in the form of spray, or gas, or both, and when necessary the bedding, etc., is removed for steam disinfection.

#### (B) ERADICATION OF BED BUGS AND SCABIES

In the case of bed bugs, the co-operation of the property owner is sought. Skirting, architraves, etc., are removed and paper stripped off the walls of the infested room and burnt. The walls, ceilings, and floors are then sprayed with an approved disinfectant which now contain a percentage of D.D.T. and either formalin or sulphur gas released in the room, and the room hermetically sealed and left for at least twelve hours. The bedding, etc., afterwards being removed and steam disinfected. The room may have to receive this treatment a second or third time. Treatment was carried out in seven cases. In the case of scabies, the treatment is the same, without recourse to stripping the walls, etc. There were no cases of scabies requiring treatment during the year.

#### V. RAT DESTRUCTION

It is the policy in this area to continually attack and destroy the rat population, and to this end the Council employ rat catchers who are available at any time to deal with the rat nuisance. During the year these men have trapped 1381 rats. Poison baits are also used in certain positions and judging by the take of baits, and the decrease in the number of rats seen after the laying of baits, the total number of rats destroyed would appear to be far in excess of the number stated.

#### WASP NESTS.

During the Summer sixteen wasp nests were destroyed in the Borough.

## VI. SANITARY INSPECTION OF THE AREA

Summary of Sanitary Inspector's visits and notices served.

Nature of visits of inspections :					TOTAL VISITS
1.	Water supply and wells	..	..	..	1
2.	Drainage	..	..	..	41
3.	Infectious diseases	..	..	..	18
4.	Under Housing Acts	..	..	..	118
5.	Miscellaneous housing visits	..	..	..	57
6.	Tenancy applications	..	..	..	107
7.	Verminous premises	..	..	..	5
8.	Rabbit infestation	..	..	..	3
9.	Rat and mice destruction	..	..	..	71
10.	Cowsheds and dairies	..	..	..	12
11.	Food inspection	..	..	..	81
12.	Bakehouses	..	..	..	14
13.	Factories	..	..	..	12
14.	Workshops	..	..	..	32
15.	Outworkers	..	..	..	3
					575

Notices served :

Informal notices	..	..	..	..	73
Informal notices complied with	..	..	..	..	68
Statutory notices	..	..	..	..	Nil
Statutory notices complied with	..	..	..	..	Nil

## SECTION D

### HOUSING

I.	Number of new houses erected during the year .. ..	10
II.	1. (a) Total number of dwelling houses inspected for housing defects, excluding Council Houses and War Damaged Houses (under Public Health or Housing Acts) ..	191
	(b) Number of inspections made for the purpose .. ..	191
	2. (a) Number of dwelling houses (included under sub-head 1 (a) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 ..	118
	(b) Number of inspections made for this purpose .. ..	118
3.	Number of dwelling houses found to be in a state so dangerous or injurious to health, as to be unfit for human habitation .. .. .	1
4.	Number of dwelling houses (exclusive of those referred to under preceding sub-head) found not to be in all respects reasonably fit for human habitation .. ..	73
III.	Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority of their Officers .. .. .	68
IV.	ACTION UNDER STATUTORY POWERS :	
	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.. .. .	Nil
	(a) by owners .. .. .	Nil
	(b) By Local Authority in default of owners..	—
	B. Proceedings under Public Health Acts .. .. .	Nil
	C. Proceedings under Sections 11 and 13 of the Housing Act, 1936 .. .. .	Nil
	D. Demolition orders made .. .. .	1

### Demolition

A Demolition Order was made and carried out in respect of Chase Cottage, Rowlands Yard, Dovercourt.

The following houses were voluntarily demolished :

No. 3, Myrtle Cottages, and 4, Myrtle Cottages, at the rear of Canning Street, Harwich.

Nos. 21, 22, 23, and 24, Coke Street, Harwich.

## SECTION E

### INSPECTION AND SUPERVISION OF FOOD

#### I. MILK SUPPLY

There are five registered cowkeepers in the Borough. In every case the cows are brought in only for milking.

The greater part of the milk consumed within the Borough is imported from outlying areas.

The number of purveyors of milk, registered under the Milk and Dairies Regulations, at 31st December, 1946, was 17.

Of the above purveyors of milk, only eight are now supplying milk by licence from the Ministry of Food.

Frequent visits are made to all cowsheds, milkshops, and the premises are found to be kept in a clean condition.

The supply of milk is of great importance, and I feel that until all dairies, cowsheds, and milk shops are licensed annually and power given to Local Authorities to refuse licences where the premises are not in all respects scrupulously clean, the milk supply will not be beyond reproach.

Three cow keepers who purvey most of their milk in the Borough supply Accredited Milk under licence from the County Council, and one retailer holds a licence to purvey Accredited Milk, one Tuberculin Tested Milk, and three hold licences for Pasteurised Milk.

#### II. MEAT INSPECTION

As from February, 1940, all slaughtering came under Government control, and since 10th April, 1942, slaughtering of animals has ceased in the Borough, as all slaughtering for this area is carried out at Colchester.

#### III. FOOD SHOPS

Frequent inspections are made of all shops, stores, and vehicles where food is stored for sale. These premises are found to be in a clean condition and to comply with the regulations.

#### IV. FOODSTUFFS CONDEMNED DURING 1946 :

##### WET FISH

Herrings	..	..	..	..	..	73 stone
Haddock	..	..	..	..	..	1 cwt.

##### FRESH MEAT

Beef, English	..	..	..	..	..	186 lbs.
Ox tails	..	..	..	..	..	158 lbs.
Pork	..	..	..	..	..	23½ lbs.
Sausage meat	..	..	..	..	..	3 lbs.



IV. FOODSTUFFS CONDEMNED DURING 1946—continued:

TINNED MEATS

Corned beef	..	..	..	26 tins	..	26 lbs.
Stewed steak	..	..	..	20 tins	..	20 lbs.
Brisket beef	..	..	..	1 tin	..	4 lbs.
Tongue	..	..	..	2 tins	..	6 $\frac{3}{4}$ lbs.
Luncheon meat	..	..	..	6 tins	..	6 lbs.
Sausage meat	..	..	..	6 tins	..	6 lbs.
Minced beef	..	..	..	1 tin	..	12 ozs.
Chopped ham	..	..	..	2 tins	..	12 ozs.
Cooked meat	..	..	..	1 tin	..	6 lbs.

TINNED FISH

Pilchards	..	..	..	18 tins	..	16 lbs.
Sardines	..	..	..	34 tins	..	8 lbs.
Salmon	..	..	..	71 tins	..	35 lbs.
Crawfish	..	..	..	3 tins	..	1 $\frac{1}{2}$ lbs.

MILK, TINNED

Milk, full cream	..	..	..	15 tins	..	11 $\frac{1}{4}$ lbs.
Milk, evaporated	..	..	..	490 tins	..	399 lbs.

OTHER TINNED FOODS

Peas	..	..	..	45 tins	..	53 lbs.
Beans	..	..	..	77 tins	..	92 lbs.
Steak and kidney pudding	..	..	..	1 tin	..	1 lb.
Pineapple	..	..	..	5 tins	..	5 lbs.
Damsons	..	..	..	8 tins	..	8 lbs.
Plums	..	..	..	5 tins	..	5 lbs.
Peaches	..	..	..	14 tins	..	14 lbs.
Fruit cocktail	..	..	..	1 tin	..	1 lb.
Meat and vegetables	..	..	..	11 tins	..	11 lbs.
Spaghetti in tomato	..	..	..	4 tins	..	4 lbs.
Carrots	..	..	..	4 tins	..	8 lbs.
Soup	..	..	..	1 tin	..	1 lb.
Beetroot	..	..	..	3 tins	..	3 lbs.
Tomatoes	..	..	..	1 tin	..	12 ozs.

OTHER FOODS

Bread	..	..	..	1 ton	1 cwt. 2 qrs.
Bacon	..	..	..	..	24 $\frac{1}{2}$ lbs.
Cheese	..	..	..	..	40 lbs.
Sugar	..	..	..	..	2 cwts. 1 lb.
Tea	..	..	..	..	31 lbs.
Cocoa	..	..	..	..	49 $\frac{3}{4}$ lbs.
Coffee	..	..	..	..	6 $\frac{1}{2}$ lbs.
Dried milk	..	..	..	..	2 pkts.
Butter	..	..	..	..	3 lbs.
Margarine	..	..	..	..	1 cwt. 5 lbs.
Lard	..	..	..	..	2 $\frac{1}{2}$ lbs.

Golden syrup .. .. .	6 lbs.
Various jams .. .. .	7 lbs.
Lemon curd .. .. .	1 lb.
Marmalade .. .. .	1 cwt. 3 qrs.
Salt .. .. .	46 pkts.
Soap flakes .. .. .	8 lbs.
Date puddings .. .. .	2 lbs.
Cornflower .. .. .	8 lbs.
Cake .. .. .	1 lb.
Cake mixture .. .. .	4 lbs.
Custard powder .. .. .	22 lbs.
Pickles .. .. .	2 lbs.
Sauce .. .. .	2 btls.
Dried egg .. .. .	1 tin
Chocolate (bars, 3d. each) .. .. .	480
Sweets .. .. .	15 lbs.
Self raising flour .. .. .	21 lbs.
Prunes .. .. .	60 lbs.
Sultanas .. .. .	60 lbs.
Bisto .. .. .	144 pkts.
Eggs (Australian) .. .. .	72
Biscuits, assorted .. .. .	14½ lbs.
Shredded wheat .. .. .	16 pkts.
Pudding mixture .. .. .	98 lbs.

## V. BAKEHOUSES

There are seven bakehouses in operation and frequent visits are made. All are kept in clean condition. All premises have been hot lime-washed at least twice during the year. There are no underground bakehouses in use in the Borough.

## FACTORIES ACT

Report on the administration of the Factory and Workshop Act, 1901, and the Factories Act, 1937.

Inspection for purposes of provisions as to health, including inspection made by Sanitary Inspector.

PREMISES	INSPECTIONS	WRITTEN NOTICES	OCCUPIERS PROSECUTED
Factories with mechanical power ..	12	—	—
Factories without mechanical power	32	—	—
Other premises under the Act including works of building and engineering construction .. .. .	—	—	—
	44		
Defects found .. .. .	Nil		

## SECTION F

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

The year was singularly free from all infectious diseases.

TABLE IV

#### NUMBER OF CHILDREN IMMUNISED DURING THE YEAR

PRIMARY IMMUNISATION			REINFORCING INJECTIONS		
Under five .. ..	225		Prior to 1st January, 1946	398	
Five to fifteen .. ..	39		During 1946 .. ..	180	
Total .. ..	<u>264</u>		Total .. ..	<u>578</u>	

TABLE V

#### PROPHYLACTIC IMMUNISATION AGAINST DIPHTHERIA

Number of children who had completed a full course of Immunisation at any time up to 31st December, 1946 :

AGE AT 31/12/46 i.e. BORN IN YEAR	UNDER 1 1946	1 1945	2 1944	3 1943	4 1942	5 TO 9 1937-41	10 TO 14 1932-36	TOTAL UNDER 15
Number Immunised	3	138	149	129	147	777	724	2,067
Estimated mid-year population 1946	1,020					1,660		2,680
Estimated percentage Immunised	55.49 per cent.					90.42 per cent.		77.7 per cent.

Prophylactic Immunisation against Diphtheria has been steadily advocated throughout the year. It is recommended that a course of two injections be given between the age of eight and twelve months, followed by one reinforcing dose at five years, and another at the age of ten.

In the main the response is due to the continuous efforts made by the Health Visitors. It is felt that personal persuasion yields much better return than other methods of propaganda. The increased Continental traffic through the Port of Harwich renders more than usually necessary the protection of the local community against possible infection from overseas.

During the year fifteen children were also inoculated against whooping cough.

TABLE VI  
 NOTIFIABLE DISEASES (other than Tuberculossi) during the year 1946  
 TOTAL CASES NOTIFIED

DISEASES	AGE IN YEARS										TOTAL	CASES AD- MITTED TO HOSPITAL	DEATHS
	0-1	1-2	3-4	5-9	10-14	15-24	25-44	45-64	65-				
Scarlet Fever ..	—	2	3	8	2	—	2	—	—	—	17	11	—
Diphtheria ..	—	—	—	—	—	1	—	—	—	—	1	1	—
Measles ..	—	—	2	5	—	1	—	—	—	—	8	—	—
Whooping Cough ..	2	3	6	1	—	—	—	—	—	—	12	—	—
Pneumonia ..	—	—	—	1	—	—	2	—	—	—	3	—	—
Cerebro Spinal Fever ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Acute Poliomyelitis ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Polio-Encephalitis ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Encephalitis Lethargica ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Enteric Fever, including Paratyphoid ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Dysentery ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Smallpox ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Erysipelas ..	—	—	—	1	—	—	1	—	—	—	2	1	—
Puerperal Pyrexia ..	—	—	—	—	—	—	—	—	—	—	—	—	—
Ophthalmia Neonatorum ..	1	—	—	—	—	—	—	—	—	—	1	—	—
Infective Jaundice ..	—	—	—	1	3	1	—	—	—	—	5	—	—
Total ..	3	5	11	17	5	3	5	—	—	—	49	13	—

TABLE VII

## MONTHLY NOTIFICATIONS OF INFECTIOUS DISEASES DURING 1946

DISEASES	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
Smallpox..	—	—	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	4	—	5	—	—	—	3	—	2	1	2	—	17
Diphtheria	—	—	—	—	—	—	—	—	—	—	1	—	1
Pneumonia	—	—	—	—	—	—	1	1	—	—	—	1	3
Erysipelas	—	1	—	—	—	—	—	—	1	—	—	—	2
Measles ..	—	—	—	—	—	1	5	1	—	—	—	1	8
Whooping Cough	8	1	—	—	—	—	1	2	—	—	—	—	12
Ophthalmia Neonatorum	1	—	—	—	—	—	—	—	—	—	—	—	1
Infective Jaundice	4	—	—	—	—	—	—	1	—	—	—	—	5

TABLE VIII  
 INFECTIOUS DISEASES AND TUBERCULOSIS CASES NOTIFIED DURING  
 THE PAST TEN YEARS

(Figures in parenthesis indicate Number of Deaths during each year)

DISEASE	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Scarlet Fever ..	7 (0)	10 (0)	11 (0)	4 (0)	4 (0)	4 (0)	12 (0)	50 (0)	16 (0)	17 (0)
Diphtheria ..	6 (0)	1 (0)	2 (0)	—	—	1 (0)	—	1 (1)	1 (0)	1 (0)
Puerperal Sepsis ..	—	—	—	1 (0)	—	1 (0)	—	1 (0)	—	—
Erysipelas ..	2 (0)	1 (0)	3 (0)	2 (0)	2 (0)	2 (0)	2 (0)	3 (0)	5 (0)	2 (0)
Cerebro Spinal Fever ..	—	—	—	3 (0)	—	—	1 (1)	—	1 (0)	—
Enteric Fever, including Paratyphoid ..	—	—	—	1 (0)	1 (0)	—	—	—	1 (0)	—
Measles ..	—	Not notifiable.	—	1 (0)	90 (0)	156 (0)	71 (0)	3 (0)	266 (0)	8 (0)
Whooping Cough ..	—	—	—	—	126 (0)	50 (0)	4 (0)	27 (0)	41 (0)	12 (0)
Pneumonia ..	16 (3)	6 (1)	7 (2)	3 (1)	6 (1)	6 (0)	9 (2)	5 (0)	7 (10)	3 (0)
Ophthalmia Neonatorum ..	—	—	—	—	1 (0)	—	—	—	—	1 (0)
Puerperal Pyrexia ..	—	—	—	—	—	—	—	—	1 (0)	—
Infective Jaundice ..	—	—	—	—	—	—	—	6 (0)	3 (0)	5 (0)
T.B.—Pulmonary ..	11 (6)	7 (3)	11 (10)	7 (4)	6 (3)	4 (3)	11 (3)	10 (8)	9 (4)	12 (5)
T.B.—Non-pulmonary ..	4 (1)	3 (0)	2 (1)	1 (1)	4 (2)	3 (0)	2 (0)	3 (0)	4 (1)	3 (0)

TABLE IX  
TUBERCULOSIS

NEW CASES AND MORTALITY DURING 1946

AGE PERIODS.	NEW CASES NOTIFIED DURING YEAR.				DEATHS DURING YEAR.			
	PULMONARY.		NON-PULMONARY.		PULMONARY.		NON-PULMONARY.	
	M.	F.	M.	F.	M.	F.	M.	F.
0-1	—	—	—	—	—	—	—	—
1-5	—	—	—	1	—	—	—	—
5-15	1	—	—	1	—	—	—	—
15-25	3	2	—	—	1	1	—	—
25-35	1	2	—	—	1	—	—	—
35-45	1	—	1	—	1	—	—	—
45-55	2	—	—	—	—	—	—	—
55-65	—	—	—	—	1	—	—	—
65 and up	—	—	—	—	—	—	—	—
Total	8	4	1	2	4	1	—	—



## METEOROLOGICAL READINGS FOR THE YEAR 1946

These are given, together with the yearly amounts of sunshine and rainfall from the year 1925, when this Authority first started its meteorological station.

YEAR				SUNSHINE HOURS	RAINFALL INCHES
1925	..	..	..	1698·5	20·18
1926	..	..	..	1625·1	20·78
1927	..	..	..	1551·6	20·57
1928	..	..	..	1906·8	24·50
1929	..	..	..	1816·2	22·80
1930	..	..	..	1726·5	23·65
1931	..	..	..	1614·3	17·35
1932	..	..	..	1437·6	19·52
1933	..	..	..	1908·4	15·67
1934	..	..	..	1792·0	19·57
1935	..	..	..	1910·0	24·75
1936	..	..	..	1617·4	23·39
1937	..	..	..	1554·1	27·50
1938	..	..	..	1780·9	27·50
1939	..	..	..	1773·7	29·92
1940	..	..	..	1816·5	20·76
1941	..	..	..	1426·5	22·14
1942	..	..	..	1631·0	23·70
1943	..	..	..	1858·5	16·65
1944	..	..	..	1649·0	22·74
1945	..	..	..	1584·3	19·77
1946	..	..	..	1701·9	25·92

The coldest days during 1946 were 20th January and 13th December, 34 degrees.

The warmest day during 1946 was 24th July, 78 degrees.

The day with the most sunshine during 1946 was 8th July, 14.0 hours.

The wettest day during 1946 was 4th July, 1·23 inches.

1946

TEMPERATURES

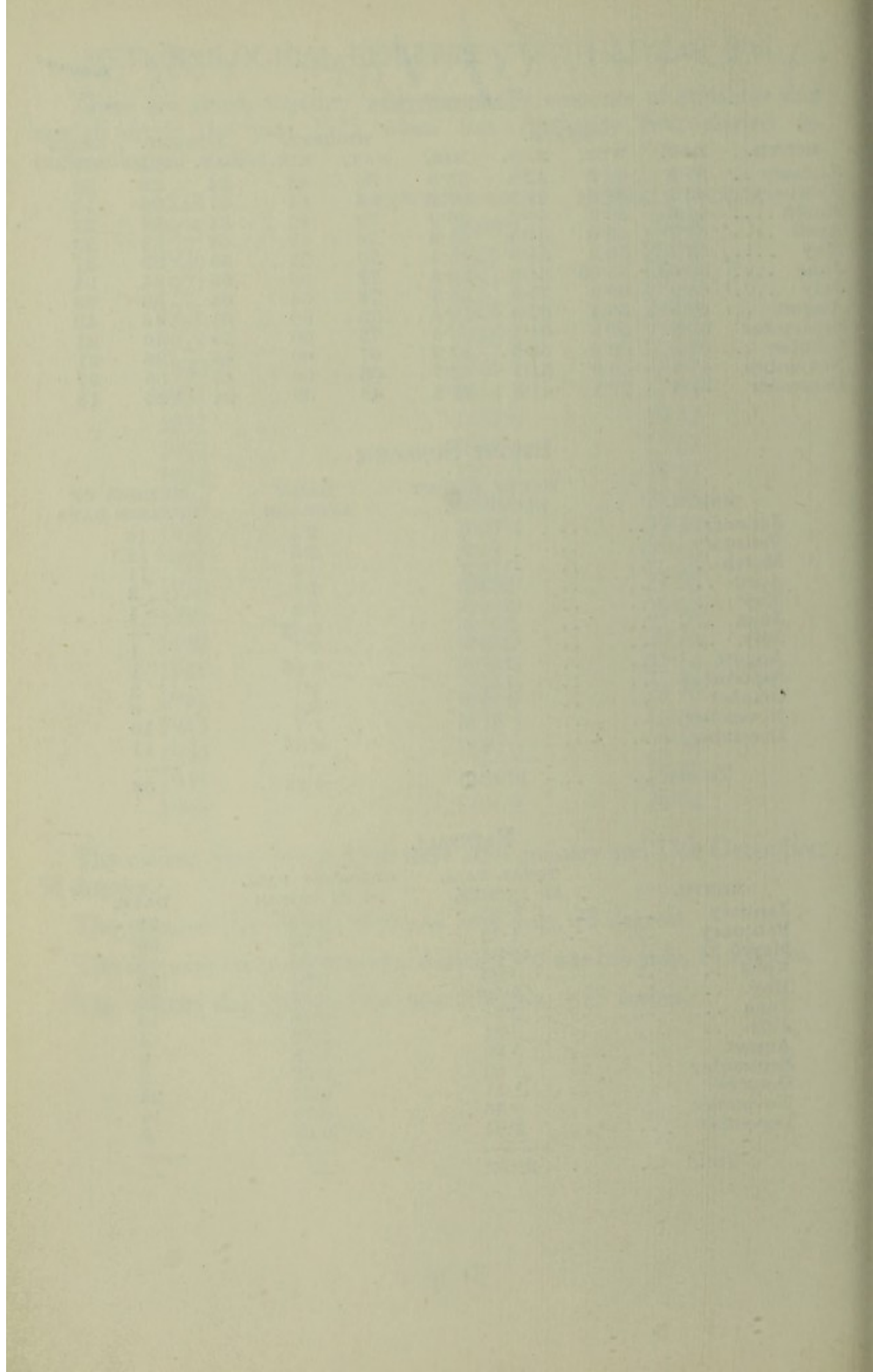
MONTH.	DRY.	MEANS.			HIGHEST.		LOWEST.		GRASS MIN.
		WET.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	
January ..	37.8	40.2	42.8	35.0	56	46	34	28	22
February	43.1	41.8	47.9	38.2	56	51	37	25	12
March ....	41.6	40.0	46.2	36.0	59	45	34	29	23
April ....	51.7	48.6	57.5	41.6	70	49	48	32	23
May ....	53.7	50.9	58.9	45.4	70	52	50	35	27
June ....	59.05	55.03	64.6	50.3	72	56	59	44	34
July ....	64.0	60.3	70.0	55.3	78	64	63	46	38
August ..	61.5	59.4	67.8	53.8	75	60	61	48	43
September	59.4	57.9	64.4	53.0	73	60	39	46	41
October ..	52.8	50.8	56.8	47.9	67	60	48	36	31
November	47.7	46.9	51.1	42.7	63	50	43	35	27
December	37.4	37.1	41.8	32.8	48	39	34	23	18

BRIGHT SUNSHINE

MONTH.	HOURS BRIGHT SUNSHINE.		DAILY AVERAGE	NUMBER OF SUNLESS DAYS	
January	..	..	63.6	2.1	10
February	..	..	71.3	2.5	12
March ..	..	..	110.3	3.6	11
April ..	..	..	234.7	7.7	3
May ..	..	..	224.3	7.2	1
June ..	..	..	201.6	6.72	—
July ..	..	..	238.9	7.7	1
August	..	..	187.8	6.05	1
September	..	..	142.3	4.7	2
October	..	..	102.3	3.3	6
November	..	..	51.8	1.7	10
December	..	..	73.0	2.35	11
Totals	..	..	1701.9	4.63	68

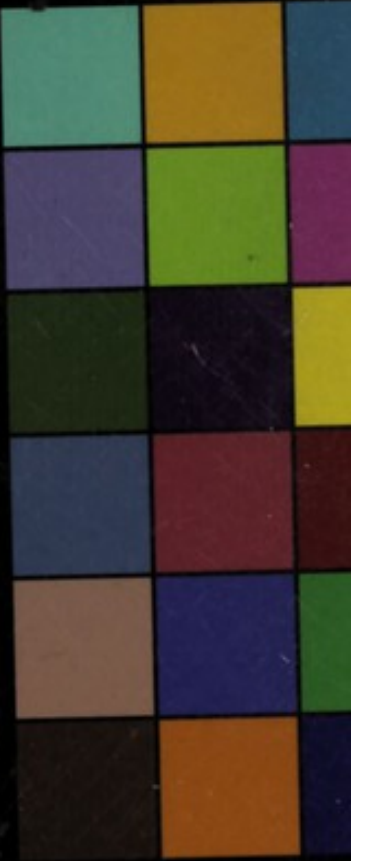
RAINFALL

MONTH.	TOTAL FALL IN INCHES.		GREATEST FALL IN 24 HOURS	DATE.	
January	..	..	1.20	0.38	28
February	..	..	1.72	0.33	26
March ..	..	..	1.35	0.35	5
April ..	..	..	0.98	0.34	28
May ..	..	..	2.50	0.89	26
June ..	..	..	2.44	0.48	15
July ..	..	..	2.21	1.42	4
August	..	..	3.99	1.23	9
September	..	..	1.82	0.34	2
October	..	..	1.11	0.37	26
November	..	..	3.66	0.70	14
December	..	..	2.94	0.60	8
Total	..	..	25.92	—	—



APRIL 2

ard Camera Tray.com



姓名 : \_\_\_\_\_  
Name

职务 : \_\_\_\_\_  
Post

单位 : \_\_\_\_\_  
Unit

No: \_\_\_\_\_

Date: \_\_\_\_\_

002

装得快



18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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