

**[Report 1946] / Medical Officer of Health, Plymouth Borough.**

**Contributors**

Plymouth (England). Borough Council.

**Publication/Creation**

1946

**Persistent URL**

<https://wellcomecollection.org/works/bq88zvev>

**License and attribution**

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection  
183 Euston Road  
London NW1 2BE UK  
T +44 (0)20 7611 8722  
E [library@wellcomecollection.org](mailto:library@wellcomecollection.org)  
<https://wellcomecollection.org>

LIBRARY



CITY OF PLYMOUTH

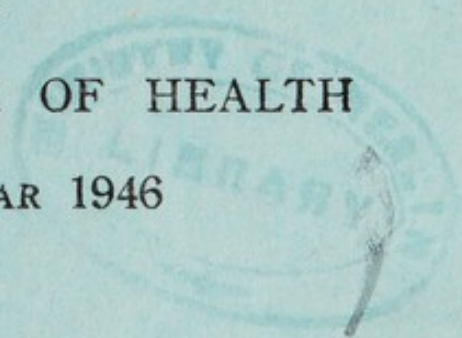
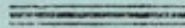


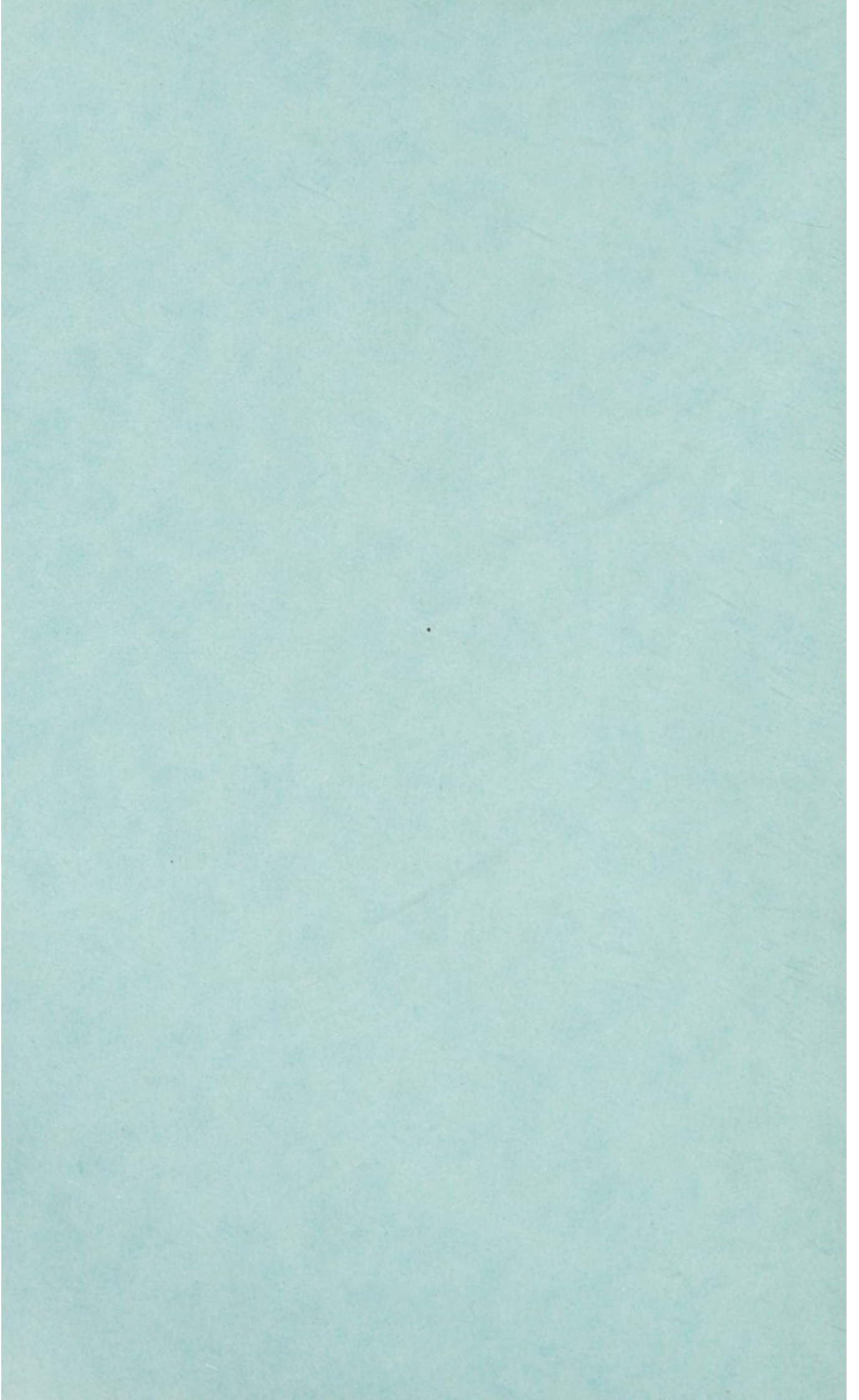
# ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

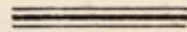
FOR THE YEAR 1946







CITY OF PLYMOUTH

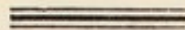


# ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1946





## PRINCIPAL CONTENTS

| SECTIONS :—  | PAGE    |
|--|---------|
| CONSTITUTION OF COMMITTEES ... ..                          | 5-6     |
| STAFF ... ..   | 7-10    |
| INTRODUCTION ... ..  | 11-13   |
| STATISTICAL AND SOCIAL CONDITIONS OF THE AREA              | 14-21   |
| MATERNITY AND CHILD WELFARE ... ..                         | 22-48   |
| SANITARY CIRCUMSTANCES ... ..                              | 49-65   |
| INFECTIOUS DISEASES ... ..                                 | 66-76   |
| CITY ISOLATION HOSPITAL ... ..                             | 77-86   |
| VENEREAL DISEASES ... ..                                   | 87-93   |
| TUBERCULOSIS ... ..  | 94-100  |
| MOUNT GOLD TUBERCULOSIS AND ORTHOPAEDIC<br>HOSPITAL ... .. | 101-107 |
| DIDWORTHY SANATORIUM ... ..                                | 108-114 |
| CITY (GENERAL) HOSPITAL ... ..                             | 115-123 |
| PORT HEALTH ... ..   | 124-143 |
| SCHOOL HEALTH SERVICES ... ..                              | 144-176 |



Digitized by the Internet Archive  
in 2018 with funding from  
Wellcome Library

PUBLIC HEALTH AND MATERNITY AND CHILD  
WELFARE COMMITTEE.

The following Members of the City Council served on the Public Health and Maternity and Child Welfare Committee during the year :—

*Chairman* : Alderman (Mrs.) J. Marshall.

*Vice-Chairman* : Councillor (Mrs.) M. Jolly.

Alderman (Mrs.) C. H. Daymond.

Councillors A. H. Crimp (to November), F. E. Chapman (to November), A. Goldberg (to November), S. Robins (to November), A. E. Frayn, S. L. Gould, (Mrs.) L. Newbery, H. Porter, G. F. Vosper, W. J. Wilks, T. B. Harvey (from November), I. C. Lowe (from November) and P. N. Washbourn (from November).

---

EDUCATION COMMITTEE.

*Chairman* : Alderman R. R. Oke.

*Vice-Chairman* : Councillor E. S. Leatherby.

Aldermen J. L. Cornish, (Mrs.) C. H. Daymond, H. G. Mason, J.P., H. J. Perry, J.P., G. P. Ross (to November) and W. H. Weston.

Councillors G. M. Bradley, (Mrs.) B. Davey, (Mrs.) M. Jolly, F. W. H. Lyndon, S. C. Potter, H. S. Sangwell, R. A. Smith, H. L. Spear, (Mrs.) P. L. F. Colmer (from November), A. Lisburne (from November), J. H. W. Lobb (from November), J. E. Hatherley (from November), W. E. Strawbridge (from November), D. F. Nash (to November), S. W. R. Pettett (to November), and H. G. Phillips (to November).

Misses W. Drake and E. M. Leigh.

The Revs. Canon Clarke and J. Twohig.

Messrs. F. Cole, F. J. Collier, S. Griffin, H. Stipling, A. L. Strachan and H. G. Taylor.



SPECIAL SERVICES SUB-COMMITTEE.

*Chairman* : Councillor S. C. Potter.

Aldermen (Mrs.) C. H. Daymond, G. P. Ross (to November), and R. R. Oke (from November).

Councillors (Mrs.) B. Davey, (Mrs.) M. Jolly, F. W. H. Lyndon, H. S. Sangwell, S. W. R. Pettett (to November), H. G. Phillips (to November), A. Lisburne (from November) and J. E. Hatherley (from November).

Misses W. Drake and E. M. Leigh.

Rev. J. Twohig.

Messrs. F. J. Collier, S. Griffin and H. Stipling.

## PUBLIC HEALTH OFFICERS OF THE AUTHORITY.

### MEDICAL—WHOLE-TIME.

- T. Peirson, M.D., M.R.C.S., L.R.C.P., D.P.H., Medical Officer of Health ; General Medical Superintendent, City Hospitals ; Port Medical Officer ; School Medical Officer.
- W. N. M. Mason, M.D., M.R.C.S., L.R.C.P., D.P.H., Deputy Medical Officer of Health ; Senior Assistant Port Medical Officer ; Medical Superintendent, Mount Gold Hospital.
- T. H. Harrison, M.B., L.M.S.S.A., D.P.H., Senior School Medical Officer.
- H. T. Chatfield, M.C., M.B., D.P.H., Clinical Tuberculosis Officer.
- D. F. Johnstone, L.R.C.P., M.R.C.S., D.P.H., Medical Superintendent, Isolation Hospital ; Venereal Diseases Medical Officer.
- Marion Smellie, M.A., M.B., D.P.H., Senior Maternity and Child Welfare Medical Officer.
- Mildred A. Thynne, M.R.C.S., L.R.C.P., D.P.H., Assistant Maternity and Child Welfare Medical Officer.
- Marjorie Smith Wilson, M.B., D.P.H., Assistant Maternity and Child Welfare Medical Officer.
- Hertha M. Tietze, M.D., Assistant Maternity and Child Welfare Medical Officer.
- M. S. Harvey, M.B., D.P.H., Assistant M. and C.W. and School Medical Officer.
- H. B. Boucher, M.B., F.R.C.S., Assistant Port Medical Officer.
- R. St. J. Harold, L.R.C.P. & S.I., D.P.H. (N.U.I.), Assistant Port Medical Officer.
- A. T. Bettinson, L.R.C.P., M.R.C.S., Medical Superintendent, Didworthy Sanatorium.
- G. E. Larks, M.B., CH.M., F.R.C.S. (ENG. AND EDIN.), Medical Superintendent, City (General) Hospital.
- G. B. Carter, M.D., D.P.H., Assistant School Medical Officer.

- A. L. Thorburn, M.D., CH.B., B.A.O., D.P.H., Assistant School Medical Officer (Until August).  
 5 Resident Medical Officers, City (General) Hospital.  
 1 Resident Medical Officer, Isolation Hospital.  
 2 Resident Surgical Officers, Mount Gold Hospital.  
 1 Resident Medical Officer, Didworthy Sanatorium.

MEDICAL—PART-TIME.

*Consulting Physicians :—*

W. A. Lister, M.D., F.R.C.P. (LOND.).

*Consulting Paeditrician :—*

T. A. A. Hunter, B.A., M.B., M.R.C.P. (LOND.).

*Consulting Surgeons :—*

L. W. Innes, M.B., F.R.C.S. (ED.).

E. F. Wilson, F.R.C.S.

*Orthopaedic Surgeons :—*

N. Capener, F.R.C.S.

G. J. Lillie, F.R.C.S.

*Consulting Gynaecologists :—*

J. W. G. H. Riddell, M.C., M.D., F.R.C.S. (ED.), F.R.C.O.G.

A. B. Concanon, M.D., M.R.C.O.G., M.R.C.S., L.R.C.P., D.P.H.

*Pathologist :—*

E. Wordley, M.C., M.D., F.R.C.P.

*Consulting Ophthalmologists :—*

C. B. F. Tivy, M.B., M.CH.

W. S. Burr, M.B., F.R.C.S. (ED.), D.O.M.S.

G. K. Burr, M.B., CH.B., D.O.M.S.

P. R. Greeves, B.M., B.CH., F.R.C.S. (ED.), M.R.C.S. (ENG.),  
 L.R.C.P., D.O.M.S.

*Consulting Laryngologists and Otologists :—*

C. S. C. Prance, M.B., M.R.C.S., L.R.C.P., D.L.O.

R. Howarth, M.D., F.R.C.S. (ED.), D.L.O.

*Consulting Radiologist :—*

A. Craig Mooney, M.B., D.M.R.E.

*Consulting Anaesthetists :—*

- S. G. Irlam, L.R.C.P., M.R.C.S.  
T. T. P. Murphy, M.D., B.Sc., D.A.  
T. L. Chester-Williams, M.R.C.S., L.R.C.P.  
D. A. Cadman, M.D., M.B., CH.B., D.P.H.  
C. H. Hutchinson, M.A., M.B.  
S. Hawkes, M.B.

*District Medical Officers :—*

*Plymouth :—*

- C. H. Hutchinson, M.A., M.B.  
T. Wood, L.R.C.P., M.R.C.S.  
J. E. Harford, M.B., D.P.H.  
H. N. Hearle, M.R.C.S., L.R.C.P.

*Devonport :—*

- J. N. Morris, L.R.C.P., M.R.C.S.  
G. A. Pratt, L.R.C.P., M.R.C.S.  
O. N. Morris, L.R.C.P., M.R.C.S.  
M. E. Gordon, B.Sc., M.B., B.Ch., M.R.C.S., L.R.C.P.  
C. R. Barker, L.R.C.P., M.R.C.S.

*Stonehouse :—*

- J. Simpson-White, O.B.E., M.B.

PUBLIC VACCINATORS.

*Devonport and Added Area of Plymouth :—*

- J. N. Morris, L.R.C.P., M.R.C.S.

*Stonehouse :—*

- G. A. Pratt, L.R.C.P., M.R.C.S.

*Plymouth—South :—*

- T. L. Chester-Williams, L.R.C.P., M.R.C.S.

*Plymouth—North. :—*

- H. C. C. Reid, M.B.

DENTAL SURGEONS—WHOLE-TIME.

- A. Maughan, M.C., L.D.S. ; E. R. Williams, L.D.S. ; F. J. Gray, L.D.S. ;  
G. E. Moore, L.D.S. (Temporary) ; R. A. Currie, L.D.S.

OTHER STAFF.

*Chief Sanitary Inspector :—*

C. E. Sanderson, F.R.SAN.I.\*†‡

*Port Sanitary Inspector :—*

L. N. Tope.\*† (Resigned 31st July, 1946.)

*Acting Port Sanitary Inspector :—*

A. S. Kitt.\*† (Commenced 1st August, 1946.)

*Meat Inspector :—*

P. A. Hawthorn.\*†

*Superintendent Health Visitor :—*

Miss E. G. Wright, S.R.N., S.C.M. (Resigned 2nd July, 1946.)

Miss D. Silk, S.R.N., S.C.M. (Commenced 1st September, 1946.)

*Assistant Supervisor of Midwives :—*

Miss J. Casey, S.R.N., S.C.M.

*Director of Nurse Training :—*

Miss D. Biddle, S.R.N., S.C.M.

*Chief Clerk :—*

R. M. Lawson\*, T.D.

*Chief Clerk, School Medical Department :—*

E. T. Perkins.

*Steward, City Hospital :—*

F. J. Barrett.

*Steward, Mount Gold and City Isolation Hospitals :—*

J. Burrows.

*City Meteorologist :—*

G. H. Ivory.

\* Sanitary Inspector's Certificate.

† Meat Inspector's Certificate.

‡ Sanitary Science Certificate.

TO THE LORD MAYOR, ALDERMEN AND COUNCILLORS OF THE CITY  
OF PLYMOUTH.

I have the honour to present to you my Annual Report on the health of the City of Plymouth for the year 1946.

The Registrar-General's estimate of the mid-1946 civilian population was 176,070 as compared with 157,580 for 1945. According to the Food Executive Officer's ration book records, the resident civilian population at 1st March, 1947, was 183,000.

**Births.** The Plymouth birth rate per 1,000 population was 24.26 as compared with 19.63 for England and Wales, and 22.87 for County Boroughs and great towns. The total number of births in the City was 4,373, the highest figure since 1921, and approximately 65% of them took place in institutions, including hospitals and nursing homes, an unusually high proportion, and due in great measure to the difficult housing position in the City. Owing to the excess of applications for admission over the capacity of the bed accommodation, it has recently become necessary to select those with unsatisfactory home conditions.

**Infectious Diseases.** The incidence of infectious diseases in the City has, on the whole, been remarkably low during the year. The decline in the number of diphtheria cases and deaths has continued, due to the immunisation of children as a result of the intensive publicity campaign. The number of cases of diphtheria in 1946 was less than one-fifth of those in 1938 which was an average pre-war year for diphtheria incidence, and only one child died of diphtheria last year in Plymouth, compared with fifteen in 1938. A significant fact, however, was that 60% of the 68 cases of diphtheria occurred amongst children between five and fifteen years of age. This supports the practice recommended at the present time that those immunised at the age of one year should receive one reinforcing injection about the age of five years just before entering school.

Of the other common infectious diseases, there were no deaths from scarlet fever, one from measles and four from whooping cough. Whooping cough is one of the most troublesome of the common diseases, and the Council has recently obtained the Minister of

Health's approval to a scheme of immunisation against this disease. So far it has not proved possible to produce an antigen of the same reliability as in the case of diphtheria. For the time being, therefore, immunisation against whooping cough is not being recommended by propaganda, but is given to infants only upon the parent's request.

Owing to the low number of admissions of infectious diseases into the Isolation Hospital, an average bed occupation of about 53, it was possible to use two ward blocks there for early cases of pulmonary tuberculosis, and the hospital staff took on this new work with commendable willingness.

**Cancer.** After protracted negotiations a joint cancer scheme for Devon, Cornwall, Exeter and Plymouth was approved early in 1947, and as a result there should be considerable improvement of the facilities for the early diagnosis and treatment upon which the success of a cancer scheme must largely depend.

**Hospitals.** Several hospital improvement schemes involving building work were submitted for the approval of the Ministry or are under preparation by the City Architect. It has not been found possible to achieve much in this direction.

A Joint Hospital Planning Committee still provides the opportunity for the exchange of views and consultation between the Prince of Wales's Hospital Board and the Public Health Committee, and administers the Joint Hospital Admission Bureau and ensures the appointment of common visiting medical staff to the voluntary and municipal hospitals.

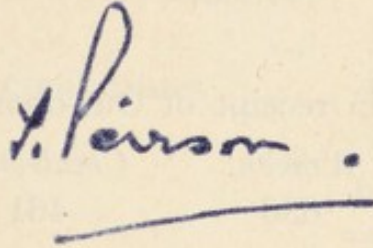
**Staff.** Some categories of trained staff are still very hard to obtain, e.g. health visitors, midwives and sanitary inspectors. The Committee's bursary scheme for the training of health visitors has proved to be very successful. During the year, the Committee in collaboration with the Education Committee commenced the scheme of training of nursery nurses for the National Nursery Certificate. Applications for entry have been greater than the number we could accept. The course of training for the sanitary

inspector's certificate was resumed in September, 1946, at the Plymouth Technical College.

I take the opportunity of recording my appreciation of the loyal work of my staff.

I am, my Lord Mayor, Ladies and Gentlemen,

Your obedient servant,

A handwritten signature in blue ink, appearing to read "J. Pearson", with a horizontal line underneath.

SEVEN TREES,  
LIPSON ROAD,  
PLYMOUTH.

*July, 1947.*



## Statistics and Social Conditions of the Area 1946

|   |            |
|---|------------|
| Area in acres (Land and Inland Water) ... ..            | 9,515      |
| Rateable value of the City ... ..                       | £1,579,686 |
| Sum represented by the penny rate (estimated) ...       | £6,250     |
| Registrar-General's estimate of the civilian population | 176,070    |
| No. of marriages in the City during 1946 .. ..          | 1,915      |

### SOCIAL WELFARE.

No. of persons in receipt of Out-door relief on the 29.12.46.

| <i>Men.</i> | <i>Women.</i> | <i>Children.</i> | <i>Total.</i> |
|-------------|---------------|------------------|---------------|
| 255         | 636           | 461              | 1,352         |

### SOCIAL CONDITIONS.

No. of unemployed persons in the City on the 31st December, 1946.

|              |     |     | <i>Age.</i> |     |     | <i>Total.</i> |
|--------------|-----|-----|-------------|-----|-----|---------------|
| Men ... ..   | ... | ... | 18 and over | ... | ... | 810           |
| Boys ... ..  | ... | ... | 14-17       | ... | ... | 36            |
| Women ... .. | ... | ... | 18 and over | ... | ... | 964           |
| Girls ... .. | ... | ... | 14-17       | ... | ... | 64            |

| <i>Live Births.</i> | <i>Total.</i> | <i>M.</i> | <i>F.</i> |   |
|---------------------|---------------|-----------|-----------|---|
| Legitimate ...      | 3871          | 2019      | 1852      | Birth-rate per 1,000<br>of the estimated<br>civilian population<br>=24.26 |
| Illegitimate ...    | 401           | 204       | 197       |   |
|                     | —————         | —————     | —————     |   |
|                     | 4272          | 2223      | 2049      |   |

| <i>Still births.</i> | ————— | ————— | ————— |  |
|----------------------|-------|-------|-------|--|
| Legitimate ...       | 93    | 54    | 39    | Still birth rate per<br>1,000 total (live and<br>still) births=23.09 |
| Illegitimate ...     | 8     | 6     | 2     |  |
|                      | ————— | ————— | ————— |  |
|                      | 101   | 60    | 41    |  |

| <i>Deaths under 1 year :—</i> |       |       |       | Death-rate of infants                                    |
|-------------------------------|-------|-------|-------|--|
| Legitimate ...                | 172   | 100   | 72    | under one year<br>=46.11 per 1,000<br>live births        |
| Illegitimate ...              | 25    | 18    | 7     |  |
|                               | ————— | ————— | ————— |  |
|                               | 197   | 118   | 79    |  |
|                               | ————— | ————— | ————— | Death-rate per 1,000<br>of estimated<br>population=13.87 |
| All deaths                    | 2443  | 1235  | 1208  |  |

Death-rate of infants under one year of age :—

|   |       |
|---|-------|
| All infants per 1,000 live births (Total deaths 197) ...    | 46.11 |
| Legitimate infants per 1,000 legitimate live births (172)   | 44.43 |
| Illegitimate infants per 1,000 illegitimate live births(25) | 62.34 |

Deaths from Puerperal Causes (headings 29 and 30 of the Registrar-General's Short List) :—

|  | <i>Deaths.</i> | <i>Rate<br/>per 1,000 total<br/>(live and still<br/>births.)</i> |
|--|----------------|--|
| No. 29. Puerperal and post-abortive<br>sepsis ... .. | 1              | 0.22   |
| No. 30. Other maternal causes ...                    | 5              | 1.14   |
|  | —              | —  |
|  | 6              | 1.36   |
|  | =              | =  |

**Laboratory  
Facilities.**

The following tables show the bacteriological and pathological work carried out for the City at the Prince of Wales's (Greenbank) Hospital, Plymouth.

6,882 specimens were examined for the Public Health Authorities of the City. The nature of these examinations is as follows :—

|   |             |
|---|-------------|
| Sputums for Tubercle ... ..                           | 2381        |
| Swabs for Diphtheria ... ..                           | 2105        |
| Bacteriological Counts on Milks ... ..                | 988         |
| "    "    Waters ... ..                               | 439         |
| "    "    Shell-fish... ..                            | 9           |
| Hairs for Ringworm ... ..                             | 3           |
| Bacteriological Examinations for Infectious diseases— |             |
| Urines ... ..   | 183         |
| T. Swabs and Misc. Swabs ... ..                       | 163         |
| Blood Counts ... ..                                   | 259         |
| Blood Agglutinations ... ..                           | 15          |
| C.S.F. Examinations ... ..                            | 30          |
| Sections ... ..                                       | 23          |
| Animal Inoculations (Rats) ... ..                     | 5           |
| Examination of Fæces ... ..                           | 42          |
| Ascheim Zondeks ... ..                                | 1           |
| Vaccines ... ..                                       | 4           |
| Examination of Food (Meat Pies) ... ..                | 3           |
| Miscellaneous ... ..                                  | 229         |
| <b>Total</b> ... ..                                   | <b>6882</b> |

For V.D. Clinics—

|                           |     |     |             |
|---------------------------|-----|-----|-------------|
| Wassermanns and Kahns     | ... | ... | 4526        |
| Gonococci                 | ... | ... | 4085        |
| Gonococcal Fixation Tests | ... | ... | 512         |
| Others (Cultures, etc.)   | ... | ... | 390         |
| C.S.F.                    | ... | ... | 1           |
| <b>Total</b>              | ... | ... | <u>9514</u> |

For Medical Practitioners—

|                       |     |     |            |
|-----------------------|-----|-----|------------|
| Wassermanns and Kahns | ... | ... | 196        |
| Gonococci             | ... | ... | 55         |
| Gonococcal Fixations  | ... | ... | 8          |
| C.S.F. (Wassermann)   | ... | ... | 1          |
| <b>Total</b>          | ... | ... | <u>260</u> |

For Other Hospitals:—

|                             |     |     |             |
|-----------------------------|-----|-----|-------------|
| Wassermanns and Kahns       | ... | ... | 4022        |
| Gonococci                   | ... | ... | 60          |
| Gonococcal Fixations        | ... | ... | 3           |
| C.S.F. Examinations         | ... | ... | 4           |
| C.S.F. (Wassermanns)        | ... | ... | 6           |
| Vaginal Pus for Trichomonas | ... | ... | 1           |
| <b>Total</b>                | ... | ... | <u>4096</u> |

For City Hospital:—

|  |     |     |             |
|--|-----|-----|-------------|
| Microscopical Examinations on Morbid Tissues.. |     |     | 422         |
| Bacteriological Examinations                   | ..  | ..  | 1742        |
| Blood Counts                                   | ..  | ..  | 902         |
| Biochemical Examinations                       | ..  | ..  | 1549        |
| Wassermanns and Kahns                          | ... | ... | 600         |
| G.C. Smears                                    | ... | ... | 112         |
| Gonococcal Fixation Tests                      | ... | ... | 7           |
| Sputums for T.B.                               | ..  | ..  | 320         |
| Ascheim Zondeks                                | ..  | ..  | 29          |
| Vaginal Pus for Trichomonas                    | ... | ... | 16          |
| C.S.F. Examinations                            | ... | ... | 88          |
| C.S.F. Wassermanns                             | ... | ... | 32          |
| Agglutinations                                 | ..  | ..  | 17          |
| <b>Total</b>                                   | ... | ... | <u>5836</u> |

PUBLIC HEALTH COMMITTEE

CLIMATOLOGICAL OBSERVATIONS.

TAKEN AT THE "HOE," PLYMOUTH, DURING THE YEAR 1946.

|                               | 1946.                              | 1945.             | 50 Years<br>Average. |
|-------------------------------|------------------------------------|-------------------|----------------------|
| <b>TEMPERATURE.</b>           |                                    |                   |                      |
| Maximum .....                 | 74.8 (July 13th)                   | 76.1 (Aug. 2nd)   | —                    |
| Minimum .....                 | 21.0 (Dec. 21st)                   | 20.1 (Jan. 26th)  | —                    |
| Mean .....                    | 51.5                               | 52.7              | 51.4                 |
| Daily Range .....             | 9.6                                | 10.8              | 10.8                 |
| Relative Humidity .....       | 78%                                | 80%               | 82%                  |
| <b>EARTH TEMPERATURES.</b>    |                                    |                   |                      |
| Earth, 1 ft. deep .....       | 53.1                               | 53.4              | 52.2*                |
| Earth, 4 ft. deep .....       | 53.4                               | 53.4              | 52.6†                |
| Minimum on Grass .....        | 11.6 (Dec. 21st)                   | 15.0 (Jan. 26th)  | —                    |
| <b>SEA TEMPERATURE.</b>       |                                    |                   |                      |
| Mean, 6 ft. deep .....        | 53.8                               | 54.9              | 53.2*                |
| <b>RAINFALL.</b>              |                                    |                   |                      |
| Total during year .....       | 46.46"                             | 35.24"            | 37.45"               |
| Greatest Daily Fall .....     | 1.58" (Nov. 23rd)                  | 1.96" (Oct. 20th) | —                    |
| No. of Wet Days .....         | 197                                | 175               | 188                  |
| <b>SUNSHINE.</b>              |                                    |                   |                      |
| Total Hours .....             | 1517.9                             | 1652.5            | 1683.3               |
| Greatest Daily Amount .....   | 14.9 (June 13th)<br>(July 7th)     | 14.9 (June 17th)  | —                    |
| No. of Sunless Days .....     | 66                                 | 55                | 62                   |
| <b>WIND.</b>                  |                                    |                   |                      |
| Prevailing Direction .....    | S.W.                               | W.S.W.            | S.W.                 |
| Highest Velocity (Gust) ..... | 62 m.p.h. (Jan. 9th)<br>(Dec. 8th) | Not available.    | —                    |

\* Denotes a 45 year Average.

† Denotes a 27 year Average.

G. H. IVORY & PARTNERS,  
24 Athenaeum Street,  
Plymouth.

## MEDICAL OUT-RELIEF WORK

| <i>District.</i> | <i>No. of visits to Patients' Homes.</i> | <i>Attendances at Surgery.</i> | <i>No. on Permanent Medical Relief List.</i> |
|------------------|--|--------------------------------|--|
| 1                | 243                                      | 374                            | 260  |
| 2                | 235                                      | 488                            | 276  |
| 3                | 461                                      | 712                            | 238  |
| 4                | 597                                      | 478                            | 164  |
| 5                | 558                                      | 716                            | 210  |
| 6                | 522                                      | 889                            | 292  |
| 7                | 363                                      | 606                            | 258  |
| 8                | July to<br>Dec. 144                      | 122                            | 219  |
| 9                | Mar. to<br>Dec. 214                      | 200                            | 102  |
| 10               | 222                                      | 191                            | 279  |

In April, 1946, it was decided that District No. 8 should be divided into two separate districts. This was due to the fact that the number of patients in No. 8 district amounted to approximately 500, which was far too much for one Medical Officer to deal with. (Minute 2434, Public Health Committee, 11.4.46.)

District No. 8 subsequently became Districts 8 and 10, District No. 9 remaining as before.

TABLE I.  
VITAL STATISTICS—PLYMOUTH—1914—1946.

| Year.          | Estimated<br>Mid-year<br>Population<br>(a) Civilian<br>(b) Total<br>Resident. | Birth<br>Rate. | Death.<br>Rate. | Infant<br>Mortality<br>Rate per<br>1,000<br>Births. | CRUDE DEATH-RATES PER 1,000 POPULATION FROM |                   |                         |                  |                   |                 |             |
|----------------|---|----------------|-----------------|---|---|-------------------|-------------------------|------------------|-------------------|-----------------|-------------|
|                |   |                |                 |   | Measles.                                    | Scarlet<br>Fever. | Whoop-<br>ing<br>Cough. | Diph-<br>theria. | Tuberculosis.     |                 | Cancer.     |
|                |   |                |                 |   |   |                   |                         |                  | Respira-<br>tory. | Other<br>Forms. |             |
| 1914           | 212,421 (b)   | 23.70          | 15.50           | 109.70  | .26   | .05               | .22                     | .25              | 1.23              | .37             | 1.08        |
| 1915           | 187,911 (a)   | 19.90          | 17.40           | 119.30  | .61   | .04               | .13                     | .23              | 1.26              | .45             | 1.15        |
| 1916           | 184,473 (a)   | 21.60          | 16.10           | 90.60   | .26   | .02               | .08                     | .28              | 1.37              | .35             | 1.24        |
| 1917           | 179,375 (a)   | 19.39          | 16.44           | 96.95   | .46   | .01               | .11                     | .17              | 1.25              | .49             | 1.33        |
| 1918           | 179,629 (a)   | 19.17          | 18.90           | 96.63   | .31   | .03               | .32                     | .09              | 1.67              | .49             | 1.16        |
| <b>Average</b> |   | <b>20.75</b>   | <b>16.86</b>    | <b>102.63</b>                                       | <b>.38</b>                                  | <b>.03</b>        | <b>.17</b>              | <b>.20</b>       | <b>1.35</b>       | <b>.43</b>      | <b>1.19</b> |
| 1919           | 181,967 (a)   | 21.62          | 15.48           | 85.85   | .16   | .02               | .02                     | .20              | 1.27              | .40             | 1.38        |
| 1920           | 189,218 (a)   | 26.35          | 14.48           | 74.78   | .18   | .00               | .17                     | .19              | 1.03              | .24             | 1.29        |
| 1921           | 199,860 (a)   | 21.21          | 12.5            | 77.52   | .01   | .02               | .05                     | .06              | 1.04              | .21             | 1.34        |
| 1922           | 200,370 (a)   | 19.65          | 14.4            | 74.31   | .22   | .01               | .10                     | .07              | 1.09              | .24             | 1.25        |
| 1923           | 193,017 (a)   | 19.49          | 12.7            | 50.67   | .03   | .00               | .04                     | .05              | 1.04              | .23             | 1.40        |
| <b>Average</b> |   | <b>21.66</b>   | <b>13.91</b>    | <b>72.62</b>  | <b>.12</b>                                  | <b>.01</b>        | <b>.07</b>              | <b>.11</b>       | <b>1.09</b>       | <b>.26</b>      | <b>1.33</b> |
| 1924           | 192,900 (a)   | 18.16          | 14.3            | 81.53   | .13   | .00               | .16                     | .11              | 1.08              | .22             | 1.31        |
| 1925           | 197,378 (a)   | 18.1           | 12.2            | 63.0  | .01   | .01               | .07                     | .04              | 0.91              | .22             | 1.36        |
| 1926           | 187,300 (a)   | 17.2           | 12.3            | 71.9  | .10   | .01               | .07                     | .18              | 0.95              | .18             | 1.49        |
| 1927           | 187,600 (a)   | 16.5           | 12.0            | 61.0  | .00   | .02               | .06                     | .12              | 0.97              | .16             | 1.58        |
| 1928           | 187,600 (a)   | 17.0           | 12.0            | 69.2  | .41   | .01               | .02                     | .17              | 0.85              | .17             | 1.52        |
| <b>Average</b> |   | <b>17.59</b>   | <b>12.5</b>     | <b>69.32</b>  | <b>.13</b>                                  | <b>.01</b>        | <b>.07</b>              | <b>.12</b>       | <b>0.95</b>       | <b>.19</b>      | <b>1.45</b> |
| 1929           | 199,000 (a)   | 16.5           | 12.6            | 59.5  | .02   | .02               | .17                     | .13              | 0.84              | .12             | 1.39        |
| 1930           | 199,000 (a)   | 15.9           | 11.8            | 60.0  | .14   | .03               | .02                     | .11              | 0.84              | .17             | 1.47        |
| 1931           | 191,800 (a)   | 16.4           | 13.5            | 66.8  | .01   | .01               | .05                     | .08              | 0.69              | .20             | 1.48        |
| 1932           | 208,440 (b)   | 15.59          | 12.55           | 58.44   | .02   | .04               | .07                     | .09              | 0.78              | .15             | 1.49        |
| 1933           | 206,200 (b)   | 15.67          | 13.23           | 58.16   | .06   | .01               | .06                     | .08              | 0.86              | .12             | 1.47        |
| <b>Average</b> |   | <b>16.01</b>   | <b>12.73</b>    | <b>60.58</b>  | <b>.05</b>                                  | <b>.02</b>        | <b>.07</b>              | <b>.10</b>       | <b>0.80</b>       | <b>.15</b>      | <b>1.46</b> |
| 1934           | 203,450 (b)   | 15.7           | 12.05           | 53.69   | .06   | .00               | .08                     | .07              | 0.82              | .17             | 1.59        |
| 1935           | 203,600 (b)   | 15.0           | 12.25           | 59.70   | .02   | .00               | .01                     | .11              | 0.56              | .15             | 1.58        |
| 1936           | 206,400 (b)   | 14.8           | 12.25           | 55.86   | .01   | .00               | .09                     | .19              | 0.60              | .13             | 1.57        |
| 1937           | 210,460 (b)   | 14.6           | 12.79           | 45.88   | .00   | .00               | .01                     | .08              | 0.70              | .07             | 1.63        |
| 1938           | 211,800 (b)   | 15.6           | 11.95           | 53.25   | .12   | —                 | .05                     | .07              | 0.64              | .13             | 1.54        |
| <b>Average</b> |   | <b>15.14</b>   | <b>12.25</b>    | <b>53.67</b>  | <b>.04</b>                                  | <b>.00</b>        | <b>.05</b>              | <b>.10</b>       | <b>0.66</b>       | <b>.13</b>      | <b>1.58</b> |
| 1939           | 215,500 (a)   | 15.6           | 12.61           | 42.04   | —   | —                 | —                       | .11              | 0.64              | .12             | 1.65        |
| 1940           | 197,800 (a)   | 16.6           | 15.72           | 59.69   | .02   | —                 | .00                     | .53              | 0.83              | .13             | 1.85        |
| 1941           | 149,300 (a)   | 16.43          | 23.87           | 77.49   | .08   | —                 | .07                     | .18              | 0.94              | .15             | 2.25        |
| 1942           | 127,300 (a)   | 22.12          | 15.51           | 51.82   | .00   | —                 | .01                     | .12              | 0.95              | .23             | 2.51        |
| 1943           | 136,530 (a)   | 23.03          | 16.69           | 37.53   | .06   | —                 | .06                     | .07              | 0.92              | .20             | 2.34        |
| <b>Average</b> |   | <b>18.75</b>   | <b>16.88</b>    | <b>53.71</b>  | <b>.03</b>                                  | —                 | <b>.03</b>              | <b>.20</b>       | <b>0.85</b>       | <b>.16</b>      | <b>2.12</b> |
| 1944           | 144,700 (a)   | 24.03          | 14.66           | 39.98   | .00   | —                 | .00                     | .02              | 0.86              | .12             | 2.13        |
| 1945           | 157,580 (a)   | 24.27          | 15.55           | 55.96   | .00   | —                 | .01                     | .03              | 0.79              | .10             | 2.18        |
| 1946           | 176,070 (a)   | 24.26          | 13.87           | 46.11   | .00   | —                 | .02                     | .01              | 0.60              | .14             | 2.06        |

Note.—A series of dashes indicates that there were no deaths from that particular disease during that year.

A "0" preceding a decimal point indicates that in some previous year the rate was greater than unity.

A rate of .00 indicates that there were too few deaths during that year to be expressed as a rate to two decimal places.



TABLE II.  
VITAL STATISTICS—PLYMOUTH—1914—1946.

| YEAR.          | STILLBIRTHS. |                                       | INFANT MORTALITY            |                             | NEO-MORTALITY.               |                             | MATERNAL MORTALITY. |                                       |                |                                       |                |                                       |
|----------------|--------------|---------------------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|---------------------|---------------------------------------|----------------|---------------------------------------|----------------|---------------------------------------|
|                | No.          | Rate per 1,000 Live and Still Births. | No. of Deaths under 1 year. | Rate per 1,000 Live Births. | No. of Deaths under 4 weeks. | Rate per 1,000 Live Births. | SEPSIS.             |                                       | OTHERS.        |                                       | TOTAL.         |                                       |
|                |              |                                       |                             |                             |                              |                             | No. of Deaths.      | Rate per 1,000 Live and Still Births. | No. of Deaths. | Rate per 1,000 Live and Still Births. | No. of Deaths. | Rate per 1,000 Live and Still Births. |
| 1914           | 51           | 10.02                                 | 553                         | 109.7                       | 215                          | 42.68                       | 5                   | .98                                   | 22             | 4.32                                  | 27             | 5.30                                  |
| 1915           | 29           | 6.80                                  | 505                         | 119.3                       | 145                          | 34.26                       | 6                   | 1.41                                  | 17             | 3.98                                  | 23             | 5.39                                  |
| 1916           | 64           | 14.51                                 | 394                         | 90.6                        | 140                          | 32.20                       | 4                   | .90                                   | 20             | 4.53                                  | 24             | 5.43                                  |
| 1917           | 59           | 17.57                                 | 376                         | 96.95                       | 137                          | 35.33                       | 2                   | 1.50                                  | 15             | 3.81                                  | 17             | 4.31                                  |
| 1918           | 133          | 33.24                                 | 373                         | 96.63                       | 132                          | 34.20                       | 5                   | 1.25                                  | 14             | 3.50                                  | 19             | 4.75                                  |
| <b>Average</b> | <b>67</b>    | <b>16.43</b>                          | <b>444</b>                  | <b>102.63</b>               | <b>154</b>                   | <b>35.73</b>                | <b>4</b>            | <b>1.21</b>                           | <b>17</b>      | <b>4.03</b>                           | <b>22</b>      | <b>5.03</b>                           |
| 1919           | 143          | 33.70                                 | 352                         | 85.85                       | 135                          | 32.93                       | 5                   | 1.18                                  | 18             | 4.24                                  | 23             | 5.42                                  |
| 1920           | 153          | 27.61                                 | 403                         | 74.78                       | 182                          | 33.78                       | 4                   | .73                                   | 22             | 3.96                                  | 26             | 4.69                                  |
| 1921           | ?            | ?                                     | 347                         | 77.52                       | 153                          | 34.18                       | 3                   | .67                                   | 12             | 2.68                                  | 15             | 3.35                                  |
| 1922           | 134          | 31.22                                 | 309                         | 74.31                       | 153                          | 36.81                       | 4                   | .93                                   | 17             | 3.96                                  | 21             | 4.89                                  |
| 1923           | 129          | 30.33                                 | 209                         | 50.67                       | 102                          | 24.74                       | 5                   | 1.17                                  | 12             | 2.82                                  | 17             | 3.99                                  |
| <b>Average</b> | <b>139</b>   | <b>30.71</b>                          | <b>324</b>                  | <b>72.62</b>                | <b>145</b>                   | <b>32.49</b>                | <b>4</b>            | <b>.94</b>                            | <b>16</b>      | <b>3.53</b>                           | <b>20</b>      | <b>4.47</b>                           |
| 1924           | 125          | 32.23                                 | 306                         | 81.53                       | 128                          | 34.11                       | 6                   | 1.54                                  | 19             | 4.90                                  | 25             | 6.44                                  |
| 1925           | ?            | ?                                     | 243                         | 63.0                        | 117                          | 30.54                       | 3                   | .78                                   | 15             | 3.91                                  | 18             | 4.69                                  |
| 1926           | ?            | ?                                     | 262                         | 71.9                        | 106                          | 29.12                       | 3                   | .83                                   | 8              | 2.19                                  | 11             | 3.02                                  |
| 1927           | ?            | ?                                     | 214                         | 61.0                        | 112                          | 31.99                       | 11                  | 3.15                                  | 16             | 4.56                                  | 27             | 7.71                                  |
| 1928           | 149          | 39.64                                 | 250                         | 69.2                        | 121                          | 33.53                       | 5                   | 1.38                                  | 17             | 4.71                                  | 22             | 6.09                                  |
| <b>Average</b> | <b>137</b>   | <b>35.93</b>                          | <b>255</b>                  | <b>69.32</b>                | <b>117</b>                   | <b>31.85</b>                | <b>5</b>            | <b>1.53</b>                           | <b>15</b>      | <b>4.05</b>                           | <b>20</b>      | <b>5.59</b>                           |
| 1929           | 147          | 40.03                                 | 210                         | 59.5                        | 111                          | 31.49                       | 6                   | 1.76                                  | 11             | 2.86                                  | 17             | 4.62                                  |
| 1930           | 179          | 49.73                                 | 208                         | 60.0                        | 93                           | 27.19                       | 8                   | 2.22                                  | 18             | 5.00                                  | 26             | 7.22                                  |
| 1931           | 128          | 36.00                                 | 229                         | 66.8                        | 102                          | 29.77                       | 1                   | .29                                   | 8              | 2.33                                  | 9              | 2.62                                  |
| 1932           | 153          | 44.94                                 | 190                         | 58.44                       | 97                           | 29.84                       | 8                   | 2.35                                  | 12             | 3.52                                  | 20             | 5.87                                  |
| 1933           | 126          | 37.53                                 | 188                         | 58.16                       | 107                          | 33.11                       | 7                   | .69                                   | 13             | 5.26                                  | 20             | 5.95                                  |
| <b>Average</b> | <b>147</b>   | <b>41.64</b>                          | <b>205</b>                  | <b>60.58</b>                | <b>102</b>                   | <b>30.28</b>                | <b>6</b>            | <b>1.46</b>                           | <b>12</b>      | <b>3.79</b>                           | <b>18</b>      | <b>5.25</b>                           |
| 1934           | 118          | 35.5                                  | 172                         | 53.96                       | 91                           | 28.41                       | 6                   | 1.81                                  | 8              | 2.40                                  | 14             | 4.21                                  |
| 1935           | 124          | 38.8                                  | 183                         | 59.70                       | 103                          | 33.60                       | 9                   | 2.82                                  | 7              | 2.19                                  | 16             | 5.01                                  |
| 1936           | 120          | 37.7                                  | 171                         | 55.86                       | 77                           | 25.16                       | 5                   | 1.57                                  | 4              | 1.26                                  | 9              | 2.83                                  |
| 1937           | 118          | 36.9                                  | 141                         | 45.88                       | 66                           | 21.48                       | 7                   | 2.19                                  | 10             | 3.13                                  | 17             | 5.32                                  |
| 1938           | 140          | 40.6                                  | 176                         | 53.25                       | 87                           | 26.32                       | 2                   | 0.58                                  | 5              | 1.45                                  | 7              | 2.03                                  |
| <b>Average</b> | <b>124</b>   | <b>37.9</b>                           | <b>168</b>                  | <b>53.73</b>                | <b>85</b>                    | <b>26.99</b>                | <b>6</b>            | <b>1.79</b>                           | <b>7</b>       | <b>2.08</b>                           | <b>12</b>      | <b>3.88</b>                           |
| 1939           | 127          | 35.5                                  | 145                         | 42.04                       | 82                           | 23.79                       | 2                   | 0.55                                  | 9              | 2.51                                  | 11             | 3.06                                  |
| 1940           | 117          | 34.2                                  | 197                         | 59.69                       | 95                           | 28.83                       | 7                   | 2.04                                  | 4              | 1.17                                  | 11             | 3.21                                  |
| 1941           | 82           | 32.3                                  | 178                         | 77.49                       | 75                           | 30.57                       | 2                   | 0.84                                  | 4              | 1.68                                  | 6              | 2.52                                  |
| 1942           | 87           | 29.9                                  | 146                         | 51.82                       | 85                           | 30.17                       | 2                   | 0.69                                  | 8              | 2.75                                  | 10             | 3.44                                  |
| 1943           | 103          | 31.7                                  | 118                         | 37.53                       | 57                           | 18.13                       | 5                   | 1.54                                  | 7              | 2.15                                  | 12             | 3.69                                  |
| <b>Average</b> | <b>103</b>   | <b>32.7</b>                           | <b>157</b>                  | <b>53.71</b>                | <b>79</b>                    | <b>26.29</b>                | <b>4</b>            | <b>1.13</b>                           | <b>6</b>       | <b>2.05</b>                           | <b>10</b>      | <b>3.18</b>                           |
| 1944           | 99           | 27.6                                  | 139                         | 39.98                       | 80                           | 23.01                       | 3                   | 0.84                                  | 4              | 1.12                                  | 7              | 1.96                                  |
| 1945           | 111          | 28.2                                  | 214                         | 55.96                       | 112                          | 29.28                       | 3                   | 0.76                                  | 14             | 3.56                                  | 17             | 4.32                                  |
| 1946           | 101          | 23.09                                 | 197                         | 46.11                       | 113                          | 26.45                       | 1                   | 0.22                                  | 5              | 1.14                                  | 6              | 1.36                                  |





DEATHS BY AGE GROUPS AND CAUSES—PLYMOUTH—YEAR 1946.

| CAUSE OF DEATH   | In Public Institutions. | AGE AND SEX DISTRIBUTIONS |    |            |    |                      |    |             |    |              |     |              |     |                 |     |                  |      | GRAND TOTAL. |
|--|-------------------------|---------------------------|----|------------|----|----------------------|----|-------------|----|--------------|-----|--------------|-----|-----------------|-----|------------------|------|--------------|
|  |                         | 0-1 years.                |    | 1-5 years. |    | Total under 5 years. |    | 5-15 years. |    | 15-45 years. |     | 45-65 years. |     | 65 and upwards. |     | Totals all ages. |      |              |
|  |                         | M.                        | F. | M.         | F. | M.                   | F. | M.          | F. | M.           | F.  | M.           | F.  | M.              | F.  | M.               | F.   |              |
| 1. Typhoid and Paratyphoid Fevers ...                                | -                       | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | -   | -            | -   | -               | -   | -                | -    | -            |
| 2. Cerebro-spinal Fever ...  | 1                       | 1                         | -  | -          | 1  | -                    | -  | -           | -  | -            | -   | -            | -   | -               | -   | 1                | -    | 1            |
| 3. Scarlet Fever ...   | -                       | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | -   | -            | -   | -               | -   | -                | -    | -            |
| 4. Whooping Cough ...  | 3                       | 1                         | 1  | 2          | 1  | 3                    | -  | -           | -  | -            | -   | -            | -   | -               | 1   | 3                | 4    |              |
| 5. Diphtheria ...  | 1                       | -                         | 1  | -          | 1  | -                    | -  | -           | 1  | -            | -   | -            | -   | -               | 1   | 1                | 2    |              |
| 6. Tuberculosis—Respiratory System ...                               | 53                      | 1                         | -  | 1          | 1  | 2                    | 1  | 2           | -  | 29           | 30  | 28           | 6   | 3               | 4   | 64               | 41   | 105          |
| 7. Other forms of Tuberculosis ...                                   | 25                      | 2                         | -  | 4          | 5  | 6                    | 5  | 1           | 4  | 6            | 2   | 1            | -   | -               | 14  | 11               | 25   |              |
| 8. Syphilitic Disease ...  | 4                       | -                         | -  | -          | -  | -                    | -  | -           | -  | 1            | -   | 8            | 1   | 1               | 1   | 10               | 2    | 12           |
| 9. Influenza ...   | 3                       | 1                         | -  | -          | -  | 1                    | -  | -           | 1  | 1            | -   | 2            | 2   | 4               | 5   | 8                | 8    | 16           |
| 10. Measles ...  | -                       | -                         | 1  | -          | -  | 1                    | -  | -           | -  | -            | -   | -            | -   | -               | -   | 1                | 1    | 1            |
| 11. Acute Poliomyelitis and Polio-encephalitis ...                   | 1                       | -                         | -  | 1          | -  | 1                    | -  | -           | -  | -            | -   | -            | -   | -               | 1   | -                | 1    | 1            |
| 12. Acute Infectious Encephalitis ...                                | 1                       | -                         | -  | -          | -  | -                    | -  | -           | -  | 1            | -   | -            | -   | -               | 1   | -                | 1    | 1            |
| 13. M. Cancer of buccal cavity and Oesophagus (males) ...            | 6                       | -                         | -  | -          | -  | -                    | -  | -           | -  | 1            | -   | 8            | -   | 15              | -   | 24               | -    | 24           |
| 13. F. Cancer of Uterus (females) ...                                | 8                       | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | 4   | -            | 9   | -               | 6   | -                | 19   | 19           |
| 14. Cancer of Stomach and Duodenum ...                               | 28                      | -                         | -  | -          | -  | -                    | -  | -           | -  | 2            | 3   | 19           | 12  | 23              | 15  | 44               | 30   | 74           |
| 15. Cancer of Breast ...   | 4                       | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | 5   | 1            | 14  | -               | 11  | 1                | 30   | 31           |
| 16. Cancer of all other sites ...                                    | 91                      | -                         | -  | -          | -  | -                    | -  | 2           | 1  | 7            | 7   | 45           | 29  | 62              | 63  | 116              | 100  | 216          |
| 17. Diabetes ...   | 11                      | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | 1   | 3            | 2   | 4               | 5   | 7                | 8    | 15           |
| 18. Intra-cranial vascular lesions ...                               | 101                     | -                         | -  | -          | -  | -                    | -  | -           | -  | 1            | 4   | 26           | 39  | 78              | 119 | 105              | 162  | 267          |
| 19. Heart disease ...  | 174                     | -                         | -  | -          | -  | -                    | -  | 1           | -  | 8            | 9   | 101          | 51  | 263             | 297 | 373              | 357  | 730          |
| 20. Other diseases of circulatory system ...                         | 41                      | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | 1   | 10           | 8   | 11              | 19  | 21               | 28   | 49           |
| 21. Bronchitis ...   | 29                      | 1                         | 4  | 1          | -  | 2                    | 4  | -           | -  | 2            | 2   | 17           | 4   | 40              | 37  | 61               | 47   | 108          |
| 22. Pneumonia ...  | 58                      | 24                        | 24 | 1          | 2  | 25                   | 26 | -           | 1  | 4            | 1   | 18           | 12  | 12              | 27  | 59               | 67   | 126          |
| 23. Other respiratory diseases ...                                   | 8                       | -                         | -  | -          | -  | -                    | -  | -           | -  | 4            | -   | 9            | 3   | 5               | 7   | 18               | 10   | 28           |
| 24. Ulceration—stomach or duodenum ...                               | 10                      | -                         | -  | -          | -  | -                    | -  | -           | -  | 2            | -   | 5            | 3   | 3               | -   | 10               | 3    | 13           |
| 25. Diarrhoea (under 2 years of age) ...                             | 6                       | 3                         | 4  | -          | -  | 3                    | 4  | -           | -  | -            | -   | -            | -   | -               | -   | 3                | 4    | 7            |
| 26. Appendicitis ...   | 6                       | 1                         | 2  | -          | -  | 1                    | -  | -           | 2  | 1            | -   | 1            | -   | -               | 1   | 3                | 3    | 6            |
| 27. Other digestive diseases ...                                     | 23                      | -                         | 1  | 2          | 1  | 2                    | 2  | -           | -  | 1            | 3   | 3            | 10  | 15              | 19  | 21               | 34   | 55           |
| 28. Nephritis ...  | 21                      | -                         | -  | 1          | -  | 1                    | -  | -           | 1  | 5            | 3   | 11           | 12  | 24              | 19  | 42               | 34   | 76           |
| 29. Puerperal and post-abortive sepsis ...                           | -                       | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | 1   | -            | -   | -               | -   | -                | 1    | 1            |
| 30. Other Maternal causes ...  | 5                       | -                         | -  | -          | -  | -                    | -  | -           | -  | -            | 5   | -            | -   | -               | -   | -                | 5    | 5            |
| 31. Premature birth ...  | 42                      | 31                        | 18 | -          | -  | 31                   | 18 | -           | -  | -            | -   | -            | -   | -               | -   | 31               | 18   | 49           |
| 32. Congenital malformations, birth injury and infantile disease ... | 38                      | 43                        | 18 | -          | -  | 43                   | 18 | -           | -  | -            | 3   | -            | -   | -               | -   | 43               | 21   | 64           |
| 33. Suicide ...  | 2                       | -                         | -  | -          | -  | -                    | -  | -           | -  | 5            | 4   | 6            | 4   | 2               | 4   | 13               | 12   | 25           |
| 34. Road traffic accidents ...                                       | 13                      | -                         | -  | -          | -  | -                    | -  | 1           | -  | 3            | -   | 4            | 1   | 2               | 3   | 10               | 4    | 14           |
| 35. Other violent causes ...   | 29                      | 4                         | 4  | 5          | 1  | 9                    | 5  | 1           | -  | 7            | 2   | 6            | 1   | 8               | 8   | 31               | 16   | 47           |
| 36. All other causes ...   | 132                     | 5                         | 4  | 1          | 3  | 6                    | 7  | 5           | 2  | 9            | 13  | 11           | 7   | 67              | 99  | 98               | 128  | 226          |
| TOTAL ...  | 979                     | 118                       | 79 | 18         | 15 | 136                  | 94 | 14          | 11 | 100          | 104 | 343          | 230 | 642             | 769 | 1235             | 1208 | 2443         |

CAUSE OF DEATH

| Rank | Number of Deaths | Disease  |
|------|------------------|--|
| 1    | 1                | Typhoid and Paratyphoid Fevers                         |
| 2    | 1                | Cerebro-spinal Fever                                   |
| 3    | 1                | Scarlet Fever  |
| 4    | 3                | Whooping Cough   |
| 5    | 1                | Diphtheria   |
| 6    | 50               | Tuberculosis - Respiratory System                      |
| 7    | 22               | Other forms of Tuberculosis                            |
| 8    | 4                | Syphilitic Lesions                                     |
| 9    | 3                | Influenza  |
| 10   | 1                | Malaria  |
| 11   | 1                | Acute Erysipelas and Pyo-<br>dermatitis                |
| 12   | 1                | Acute Infectious Erythematitis                         |
| 13   | 1                | M. Cancer of nasal cavity and<br>Glossopharynx (nasal) |
| 14   | 3                | F. Cancer of Uterine Cervix                            |
| 15   | 18               | Cancer of Stomach and Duodenum                         |
| 16   | 4                | Cancer of Breast                                       |
| 17   | 61               | Cancer of all other sites                              |
| 18   | 11               | Diabetes   |
| 19   | 101              | Intercranial vascular lesions                          |
| 20   | 174              | Heart disease  |
| 21   | 41               | Other diseases of circulatory system                   |
| 22   | 29               | Bronchitis   |
| 23   | 24               | Pneumonia  |
| 24   | 3                | Other respiratory diseases                             |
| 25   | 10               | Ulceration-stomach or duodenum                         |
| 26   | 8                | Diarrhoea (under 2 years of age)                       |
| 27   | 1                | Appendicitis   |
| 28   | 23               | Other digestive diseases                               |
| 29   | 21               | Nephritis  |
| 30   | 1                | Fracture of and post-operative lesions                 |

MATERNAL AND INFANT MORTALITY RATES IN NINETEEN COUNTY BOROUGHES FOR THE YEARS 1936-1945.

| COUNTY<br>BOROUGH. | MATERNAL MORTALITY RATES. |             |             |             |             |             |             |             |             |             | INFANTILE MORTALITY RATES. |              |              |              |              |              |              |              |              |              |
|--------------------|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                    | 1936                      | 1937        | 1938        | 1939        | 1940        | 1941        | 1942        | 1943        | 1944        | 1945        | 1936                       | 1937         | 1938         | 1939         | 1940         | 1941         | 1942         | 1943         | 1944         | 1945         |
| Southampton        | 4.08                      | 1.69        | 2.26        | 2.7         | 3.16        | 2.74        | 1.64        | 1.85        | 1.56        | 2.01        | 53.5                       | 48.6         | 50.5         | 48           | 50.6         | 52.15        | 40.86        | 38.9         | 46.36        | 56.1         |
| Birmingham         | 3.53                      | 2.96        | 2.71        | 2.49        | 1.74        | 1.95        | 1.82        | 1.35        | 0.95        | 1.12        | 62                         | 60           | 61           | 60           | 70           | 69           | 56           | 55           | 42           | 49           |
| Blackpool          | 4.2                       | 2.90        | 4.74        | 2.6         | 7.1         | 2.0         | 4.8         | 2.5         | 3.8         | 2.6         | 63.0                       | 57.7         | 47.0         | 53.5         | 53.0         | 56.8         | 68.4         | 62.6         | 41.3         | 37.8         |
| Bournemouth...     | 4.85                      | 2.85        | 1.41        | 1.36        | 2.73        | 2.02        | 2.74        | 2.30        | 3.49        | 4.10        | 39.48                      | 45.89        | 44.72        | 47.4         | 65.91        | 42.69        | 43.91        | 47.00        | 41.11        | 48.02        |
| Brighton           | 4.3                       | 1.0         | 3.0         | 3.2         | 4.5         | 2.8         | 2.5         | 2.9         | 1.8         | 0.8         | 58                         | 51           | 61           | 45           | 69           | 47           | 58           | 55           | 68           | 63           |
| Bristol            | 3.10                      | 3.53        | 3.18        | 2.93        | 2.73        | 1.26        | 2.10        | 1.41        | 1.25        | 1.25        | 48                         | 46           | 42           | 42           | 56           | 54           | 37           | 45           | 35           | 35           |
| Cardiff            | 3.75                      | 3.67        | 3.79        | 2.47        | 2.80        | 3.36        | 3.84        | 4.45        | 2.39        | 3.08        | 55                         | 64           | 52           | 53           | 59           | 75           | 57           | 55           | 46           | 55           |
| Croydon            | 3.85                      | 3.87        | 0.87        | 1.14        | 1.65        | 3.23        | 3.35        | 0.53        | 2.17        | 2.44        | 41                         | 60           | 40           | 38           | 39           | 37           | 39           | 37           | 44           | 41           |
| Grimsby            | 3.99                      | 1.26        | 6.00        | 2.48        | 1.25        | 1.36        | 1.90        | 1.87        | 1.66        | 2.89        | 67                         | 57           | 49           | 53           | 52           | 57           | 56           | 54           | 54           | 47           |
| Hull               | 3.3                       | 2.48        | 2.67        | 3.18        | 2.75        | 3.98        | 1.68        | 4.61        | 1.95        | 1.91        | 65                         | 77           | 69           | 62           | 70           | 76           | 68           | 69           | 58           | 61           |
| Newport Mon.       | 2.45                      | 1.27        | 3.18        | 6.70        | 2.37        | 2.91        | 2.21        | 1.04        | 1.46        | 1.10        | 63.8                       | 62.3         | 61.7         | 53.6         | 79.7         | 78.2         | 58.1         | 48.9         | 51.7         | 62.4         |
| Nottingham         | 4.5                       | 2.8         | 1.8         | 1.3         | 2.7         | 2.8         | 2.5         | 1.38        | 0.85        | 1.33        | 89                         | 80           | 71           | 66           | 61           | 80           | 62           | 65           | 56           | 53           |
| Portsmouth         | 2.21                      | 1.51        | 2.28        | 3.08        | 1.70        | 2.61        | 3.91        | 1.81        | 1.32        | 0.69        | 49.59                      | 43.81        | 60.15        | 52.23        | 49.21        | 56.15        | 41.77        | 47.32        | 44.98        | 42.67        |
| <b>Plymouth</b>    | <b>2.8</b>                | <b>5.32</b> | <b>2.03</b> | <b>3.06</b> | <b>3.21</b> | <b>2.52</b> | <b>3.44</b> | <b>3.69</b> | <b>1.96</b> | <b>4.32</b> | <b>55.86</b>               | <b>45.88</b> | <b>53.25</b> | <b>42.04</b> | <b>59.69</b> | <b>77.49</b> | <b>51.82</b> | <b>37.53</b> | <b>39.98</b> | <b>55.96</b> |
| Sheffield          | —                         | 3.37        | 2.85        | 2.37        | 1.52        | 1.45        | 0.73        | 1.25        | 0.87        | 1.35        | —                          | 55           | 50           | 48           | 55           | 67           | 49           | 56           | 41           | 46           |
| Sunderland         | 3.60                      | 3.45        | 3.86        | 2.82        | 1.18        | 1.65        | 2.51        | 1.56        | 1.60        | 1.47        | 72                         | 85           | 67           | 75           | 73           | 104          | 80           | 80           | 72           | 55           |
| Swansea            | 6.6                       | 3.8         | 1.9         | 2.7         | 2.9         | 1.4         | 3.0         | 2.0         | 1.5         | 0.9         | 57                         | 56           | 50           | 58           | 57           | 71           | 61           | 48           | 39           | 45           |
| West Ham           | —                         | 1.15        | 1.89        | 2.66        | 1.55        | 3.39        | 2.45        | 1.40        | 1.40        | 2.00        | —                          | 62           | 57           | 45           | 42           | 55           | 49           | 54           | 43           | 38           |
| Willesden          | 1.76                      | 3.27        | 1.68        | 2.49        | 2.08        | 1.66        | 2.28        | 1.10        | 2.17        | 1.48        | 60                         | 64           | 54           | 54           | 52           | 52           | 51           | 58           | 42           | 49           |

DEATHS OF CHILDREN UNDER 5 YEARS—PLYMOUTH 1946.

| CAUSE.   | 0-1 years.               |    | 1-2 years. |    | 2-3 years |    | 3-4 years. |    | 4-5 years. |    | Total under 5 years. |    |
|--|--------------------------|----|------------|----|-----------|----|------------|----|------------|----|----------------------|----|
|  | M.                       | F. | M.         | F. | M.        | F. | M.         | F. | M.         | F. | M.                   | F. |
|  | Cerebro Spinal Fever ... | 1  | -          | -  | -         | -  | -          | -  | -          | -  | -                    | 1  |
| Whooping Cough ...   | 1                        | 1  | -          | -  | -         | -  | -          | 1  | -          | -  | 1                    | 1  |
| Diphtheria ...   | -                        | -  | -          | -  | -         | -  | 1          | -  | -          | -  | 1                    | -  |
| Tuberculosis of the Respiratory System                           | 1                        | -  | 1          | -  | -         | 1  | -          | -  | -          | -  | 2                    | -  |
| Other forms of Tuberculosis ...                                  | 2                        | -  | 3          | 2  | -         | 3  | 1          | -  | -          | -  | 6                    | -  |
| Influenza ...  | 1                        | -  | -          | -  | -         | -  | -          | -  | -          | -  | 1                    | -  |
| Measles ...  | -                        | 1  | -          | -  | -         | -  | -          | -  | -          | -  | -                    | 1  |
| Polioencephalitis ...  | -                        | -  | -          | -  | -         | -  | -          | -  | 1          | -  | -                    | -  |
| Diseases of the circulatory system ...                           | -                        | -  | -          | -  | -         | 1  | -          | -  | -          | -  | -                    | -  |
| Bronchitis ...   | 1                        | 4  | 1          | 2  | -         | -  | -          | -  | -          | -  | 2                    | 4  |
| Pneumonia ...  | 24                       | 24 | -          | -  | 1         | -  | -          | -  | -          | -  | 25                   | 26 |
| Gastro-enteritis ...   | 3                        | 4  | -          | -  | -         | -  | -          | -  | -          | -  | 3                    | 4  |
| Appendicitis ...   | 1                        | -  | -          | -  | -         | -  | -          | -  | 1          | -  | 1                    | -  |
| Other digestive diseases ...                                     | -                        | 1  | 1          | -  | -         | -  | -          | 1  | 1          | -  | 2                    | 2  |
| Nephritis ...  | -                        | -  | -          | -  | 1         | -  | -          | -  | -          | -  | 1                    | -  |
| Prematurity ...  | 31                       | 18 | -          | -  | -         | -  | -          | -  | -          | -  | 31                   | 18 |
| Congenital malformations, birth injury and infantile disease ... | 43                       | 18 | -          | -  | -         | -  | -          | -  | -          | -  | 43                   | 18 |
| Violent causes (less Road Traffic Accidents) ...                 | 4                        | 4  | 2          | -  | -         | -  | 2          | -  | 1          | -  | 9                    | 4  |
| All other causes ...   | 5                        | 4  | 1          | -  | -         | 2  | -          | -  | -          | 1  | 6                    | 7  |
| TOTALS ...   | 118                      | 79 | 9          | 4  | 2         | 7  | 4          | 2  | 3          | 2  | 136                  | 94 |

INFANT MORTALITY--PLYMOUTH 1946.

| CAUSE OF DEATH.   | Under 1 week. |    | 1-2 weeks. |    | 2-3 weeks. |    | 3-4 weeks. |    | Total under 1 month. |    | 1-3 months. |    | 3-6 months. |    | 6-9 months. |    | 9-12 months. |     | Total under 1 year. |    |
|---|---------------|----|------------|----|------------|----|------------|----|----------------------|----|-------------|----|-------------|----|-------------|----|--------------|-----|---------------------|----|
|   | M.            | F. | M.         | F. | M.         | F. | M.         | F. | M.                   | F. | M.          | F. | M.          | F. | M.          | F. | M.           | F.  | M.                  | F. |
| Cerebro-Spinal Fever ...                                      | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Whooping Cough ...  | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Tuberculosis of Respiratory System                            | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Other forms of Tuberculosis ...                               | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Influenza ...   | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Measles ...   | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Bronchitis ...  | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Pneumonia ...   | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Gastro-enteritis ...  | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Appendicitis ...  | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Other digestive diseases*                                     | -             | -  | -          | -  | -          | -  | -          | -  | -                    | -  | -           | -  | -           | -  | -           | -  | -            | -   | -                   | -  |
| Prematurity ...   | 24            | 12 | 1          | 2  | 3          | 1  | 2          | 1  | 30                   | 16 | 1           | 2  | -           | -  | -           | -  | -            | -   | 31                  | 18 |
| Congenital Malformations, Birth Injury, Infantile Disease ... | 26            | 10 | 7          | 1  | 5          | -  | -          | -  | 38                   | 11 | 3           | 1  | 2           | 2  | -           | 2  | -            | 2   | 43                  | 18 |
| Violent Causes (not including Road Traffic Accidents) ...     | 1             | 3  | -          | -  | -          | -  | -          | -  | 1                    | 3  | 1           | 1  | 1           | -  | 1           | -  | -            | -   | 4                   | 4  |
| All other causes ...  | 3             | -  | -          | -  | -          | -  | -          | -  | 3                    | -  | -           | 2  | 1           | 1  | 1           | 1  | -            | -   | 5                   | 4  |
| TOTAL ...   | 54            | 26 | 9          | 3  | 10         | 4  | 5          | 5  | 75                   | 38 | 13          | 14 | 13          | 9  | 13          | 10 | 8            | 118 | 79                  |    |

\* Intussusception.

# Maternity and Child Welfare

## REPORT OF SENIOR ASSISTANT MEDICAL OFFICER.

**Births.** The live birth-rate for 1946 is 24.26 per 1,000 of the estimated civilian population (176,070), a decrease of .01 on the previous year, but 5.16 higher than the rate for England and Wales.

|  | <i>Notified</i> | <i>Registered</i> | <i>Allocated</i> |
|--|-----------------|-------------------|------------------|
| Total live births (legitimate and illegitimate) ... .. | 3985            | 4003              | 4272             |
| Total stillbirths (legitimate and illegitimate) ... .. | 110             | 110               | 101              |
| Total births ... ..                                    | 4095            | 4113              | 4373             |
| Illegitimate births—live ... ..                        | 131             | 131               | 401              |
| stillbirths ... ..                                     | 4               | 4                 | 8                |
| Total ... ..   | 135             | 135               | 409              |
| No. of births notified by doctors and parents ... ..   |                 |                   | 341              |
| No. of births notified by midwives ... ..              |                 |                   | 3754             |
|  |                 |                   | 4095             |

### PLACE OF CONFINEMENT.

|   |      |
|---|------|
| Own home by municipal midwife .... ..                   | 1025 |
| Own home by municipal midwife with doctor .... ..       | 203  |
| Own home by private midwife .... ..                     | 107  |
| Own home by private midwife with doctor .... ..         | 104  |
| Own home by T.T.N.A. district midwife .... ..           | 258  |
| Own home by T.T.N.A. district midwife with doctor       | 122  |
| Alexandra Maternity home by midwife .... ..             | 1004 |
| Alexandra Maternity home by midwife with doctor .... .. | 258  |
| City Hospital by midwife .... ..                        | 653  |
| City Hospital by midwife with doctor .... ..            | 161  |
| Private nursing homes—doctor .... ..                    | 134  |
| Doctors' District cases .... ..                         | 66   |
| Total .... ..   | 4095 |

**Stillbirths.** The stillbirth rate is 23.09 per 1,000 allocated births, and 0.57 per 1,000 of the civilian population. Prior to 1937, Plymouth's stillbirth rate was lower than that for England and Wales. From 1942-1945 inclusive, it was appreciably higher, but this year it has fallen to only 0.04 above the rate for England and Wales.

More than two-thirds of the stillbirths took place in hospital maternity wards and maternity homes.

#### STILLBIRTH RATE.

| Year. | England and Wales.    | Plymouth.         |                       |
|-------|-----------------------|-------------------|-----------------------|
|       | Per 1,000 population. | Per 1,000 births. | Per 1,000 population. |
| 1936  | 0.61                  | 37.72             | 0.58                  |
| 1937  | 0.60                  | 36.97             | 0.56                  |
| 1938  | 0.60                  | 40.6              | 0.66                  |
| 1939  |                       | 35.5              | 0.59                  |
| 1940  | 0.55                  | 34.29             | 0.59                  |
| 1941  | 0.51                  | 32.3              | 0.41                  |
| 1942  | 0.54                  | 29.95             | 0.68                  |
| 1943  | 0.51                  | 31.7              | 0.75                  |
| 1944  | 0.50                  | 27.68             | 0.68                  |
| 1945  | 0.46                  | 28.20             | 0.70                  |
| 1946  | 0.53                  | 23.09             | 0.57                  |

No. of stillbirths (institutional, 82 ; domiciliary, 36) ... .. 118

Institutional.

|                                 |       |
|---------------------------------|-------|
| City Hospital ... ..            | 48    |
| Flete Maternity Home ... ..     | 8     |
| Alexandra Maternity Home ... .. | 25    |
| Charlton Nursing Home ... ..    | 1     |
|                                 | <hr/> |
|                                 | 82    |
|                                 | <hr/> |

Domiciliary.

|   |       |
|---|-------|
| Municipal Midwife ... ..                | 23    |
| Private Midwife ... ..                  | 7     |
| Three Towns Nursing Association Midwife | 6     |
|   | <hr/> |
|   | 36    |
|   | <hr/> |

|                                   |       |
|-----------------------------------|-------|
| Doctor in attendance ... ..       | 83    |
| Midwife only in attendance ... .. | 35    |
|                                   | <hr/> |

118

|                           |       |
|---------------------------|-------|
| Female stillbirths ... .. | 56    |
| Male stillbirths ... ..   | 62    |
|                           | <hr/> |

118



Summary of 118 cases.

(a) Macerated : 48.

Duration of pregnancy.

|                       |     |     |     |     |       |
|-----------------------|-----|-----|-----|-----|-------|
| Over 40 weeks ...     | ... | ... | ... | ... | 2     |
| 40 weeks ...          | ... | ... | ... | ... | 18    |
| 39 weeks ...          | ... | ... | ... | ... | 1     |
| 36-39 weeks ...       | ... | ... | ... | ... | 12    |
| 32-35 weeks ...       | ... | ... | ... | ... | 5     |
| 30-32 weeks ...       | ... | ... | ... | ... | 1     |
| 30 weeks or under ... | ... | ... | ... | ... | 9     |
|                       |     |     |     |     | <hr/> |
|                       |     |     |     |     | 48    |
|                       |     |     |     |     | <hr/> |

Parity.

|                        |     |     |     |     |       |
|------------------------|-----|-----|-----|-----|-------|
| 1st pregnancy ...      | ... | ... | ... | ... | 15    |
| 2nd pregnancy ...      | ... | ... | ... | ... | 18    |
| 3rd pregnancy ...      | ... | ... | ... | ... | 8     |
| 4th pregnancy ...      | ... | ... | ... | ... | 4     |
| Over 5th pregnancy ... | ... | ... | ... | ... | 3     |
|                        |     |     |     |     | <hr/> |
|                        |     |     |     |     | 48    |
|                        |     |     |     |     | <hr/> |

Pre-natal supervision.

|                    |     |     |     |     |       |
|--------------------|-----|-----|-----|-----|-------|
| Satisfactory ...   | ... | ... | ... | ... | 46    |
| No supervision ... | ... | ... | ... | ... | 2     |
|                    |     |     |     |     | <hr/> |
|                    |     |     |     |     | 48    |
|                    |     |     |     |     | <hr/> |

Standard of living.

|               |     |     |     |     |       |
|---------------|-----|-----|-----|-----|-------|
| Good ...      | ... | ... | ... | ... | 25    |
| Fair ...      | ... | ... | ... | ... | 18    |
| Poor ...      | ... | ... | ... | ... | 1     |
| Not known ... | ... | ... | ... | ... | 4     |
|               |     |     |     |     | <hr/> |
|               |     |     |     |     | 48    |
|               |     |     |     |     | <hr/> |

Causes.

Post-mature.

|                 |     |     |     |     |       |
|-----------------|-----|-----|-----|-----|-------|
| Toxæmia ...     | ... | ... | ... | ... | 1     |
| Long labour ... | ... | ... | ... | ... | 1     |
|                 |     |     |     |     | <hr/> |
|                 |     |     |     |     | 2     |
|                 |     |     |     |     | <hr/> |

Full-term.

|   |     |     |     |     |       |
|---|-----|-----|-----|-----|-------|
| Associated with anencephaly ...           | ... | ... | ... | ... | 1     |
| Associated with poor health of mother ... | ... | ... | ... | ... | 1     |
| Associated with long 1st stage ...        | ... | ... | ... | ... | 1     |
| A.P.H. ...                                | ... | ... | ... | ... | 1     |
| A.P.H. + partial rupture of uterus ...    | ... | ... | ... | ... | 1     |
| Toxæmia ...                               | ... | ... | ... | ... | 2     |
| Cord round neck ...                       | ... | ... | ... | ... | 1     |
| Cord prolapsed ...                        | ... | ... | ... | ... | 2     |
| Placental insufficiency ...               | ... | ... | ... | ... | 1     |
| Shock ...                                 | ... | ... | ... | ... | 1     |
| No known cause ...                        | ... | ... | ... | ... | 7     |
|   |     |     |     |     | <hr/> |
|   |     |     |     |     | 19    |
|   |     |     |     |     | <hr/> |

|                               |     |     |     |     |     |    |
|-------------------------------|-----|-----|-----|-----|-----|----|
| 36-39 weeks.                  |     |     |     |     |     |    |
| A.P.H.                        | ... | ... | ... | ... | ... | 3  |
| Toxæmia                       | ... | ... | ... | ... | ... | 2  |
| Cord round neck               | ... | ... | ... | ... | ... | 1  |
| Placental insufficiency       | ... | ... | ... | ... | ... | 1  |
| Associated with hydrocephalus | ... | ... | ... | ... | ... | 1  |
| No known cause                | ... | ... | ... | ... | ... | 4  |
|                               |     |     |     |     |     | —  |
|                               |     |     |     |     |     | 12 |
| 32-35 weeks.                  |     |     |     |     |     |    |
| A.P.H.                        | ... | ... | ... | ... | ... | 2  |
| Hypertension                  | ... | ... | ... | ... | ... | 1  |
| Associated with hydrocephalus | ... | ... | ... | ... | ... | 2  |
|                               |     |     |     |     |     | —  |
|                               |     |     |     |     |     | 5  |
| 28-32 weeks.                  |     |     |     |     |     |    |
| Toxæmia                       | ... | ... | ... | ... | ... | 2  |
| Associated with hydrocephalus | ... | ... | ... | ... | ... | 2  |
| Not known                     | ... | ... | ... | ... | ... | 6  |
|                               |     |     |     |     |     | —  |
|                               |     |     |     |     |     | 10 |
|                               |     |     |     |     |     | —  |

Note that 68% were 36 weeks and over, and that the antenatal supervision is recorded as satisfactory.

(b) Premature but not macerated : 30.

|                                    |     |         |     |     |     |    |
|------------------------------------|-----|---------|-----|-----|-----|----|
| Duration of pregnancy              |     |         |     |     |     |    |
| 36-37 weeks                        | ... | ...     | ... | ... | ... | 11 |
| 32-35 weeks                        | ... | ...     | ... | ... | ... | 8  |
| 28-30 weeks                        | ... | ...     | ... | ... | ... | 11 |
|                                    |     |         |     |     |     | —  |
|                                    |     |         |     |     |     | 30 |
| Parity.                            |     |         |     |     |     |    |
| 1st pregnancy                      | ... | ...     | ... | ... | ... | 12 |
| 2nd pregnancy                      | ... | ...     | ... | ... | ... | 4  |
| 3rd pregnancy                      | ... | ...     | ... | ... | ... | 7  |
| 4th pregnancy                      | ... | ...     | ... | ... | ... | 3  |
| 5th pregnancy                      | ... | ...     | ... | ... | ... | 1  |
| Over 5th pregnancy                 | ... | ...     | ... | ... | ... | 3  |
|                                    |     |         |     |     |     | —  |
|                                    |     |         |     |     |     | 30 |
| Pre-natal supervision.             |     |         |     |     |     |    |
| Satisfactory                       | ... | ...     | ... | ... | ... | 30 |
|                                    |     |         |     |     |     | —  |
| Standard of living.                |     |         |     |     |     |    |
| Good                               | ... | ...     | ... | ... | ... | 14 |
| Fair                               | ... | ...     | ... | ... | ... | 11 |
| Poor                               | ... | ...     | ... | ... | ... | 2  |
| Not given                          | ... | ...     | ... | ... | ... | 3  |
|                                    |     |         |     |     |     | —  |
|                                    |     |         |     |     |     | 30 |
| Causes.                            |     |         |     |     |     |    |
| 37 weeks.                          |     |         |     |     |     |    |
| Cord round neck in extended breech | ... | (Pr. 1) | ... | ... | ... | 1  |
| Second twin                        | ... | (M. 1)  | ... | ... | ... | 1  |
|                                    |     |         |     |     |     | —  |
|                                    |     |         |     |     |     | 2  |
|                                    |     |         |     |     |     | —  |

|                      |     |     |                |     |     |    |
|----------------------|-----|-----|----------------|-----|-----|----|
| 36 weeks.            |     |     |                |     |     |    |
| Toxæmia              | ... | ... | (M. 1)         | ... | ... | 1  |
| Eclampsia            | ... | ... | (M. 1)         | ... | ... | 1  |
| A.P.H. (both Cæsars) | ... | ... | (Pr. 1 ; M. 1) | ... | ... | 2  |
| Fœtal deformity :    |     |     |                |     |     |    |
| Anencephaly          | ... | ... | (M. 3)         | ... | ... | 3  |
| Ascites              | ... | ... | (Pr. 1)        | ... | ... | 1  |
| Unknown              | ... | ... | (Pr. 1)        | ... | ... | 1  |
|                      |     |     |                |     |     | —  |
|                      |     |     |                |     |     | 9  |
|                      |     |     |                |     |     | == |

|                          |     |     |                |     |     |    |
|--------------------------|-----|-----|----------------|-----|-----|----|
| 32-35 weeks.             |     |     |                |     |     |    |
| Toxæmia                  | ... | ... | (M. 1 ; Pr. 1) | ... | ... | 2  |
| A.P.H.                   | ... | ... | (M. 2)         | ... | ... | 2  |
| A.P.H. after a fall      | ... | ... | (M. 1)         | ... | ... | 1  |
| A.P.H. + fœtal deformity | ... | ... | (Pr. 1 ; M. 1) | ... | ... | 2  |
| Fœtal deformity          | ... | ... | (M. 1)         | ... | ... | 1  |
|                          |     |     |                |     |     | —  |
|                          |     |     |                |     |     | 8  |
|                          |     |     |                |     |     | == |

|                  |     |     |                |     |     |    |
|------------------|-----|-----|----------------|-----|-----|----|
| 28-30 weeks.     |     |     |                |     |     |    |
| Toxæmia          | ... | ... | (Pr. 1 ; M. 1) | ... | ... | 2  |
| A.P.H.           | ... | ... | (Pr. 2)        | ... | ... | 2  |
| Prolapsed cord   | ... | ... | (Pr. 1)        | ... | ... | 1  |
| Twin pregnancy   | ... | ... | (M. 3)         | ... | ... | 3  |
| Prematurity only | ... | ... | (Pr. 2)        | ... | ... | 2  |
| Not known        | ... | ... | (M. 1)         | ... | ... | 1  |
|                  |     |     |                |     |     | —  |
|                  |     |     |                |     |     | 11 |
|                  |     |     |                |     |     | == |

(c) Stillborn at or near term : 40 In good condition : 39  
Anencephalic monster 1

|                    |     |     |     |     |     |    |
|--------------------|-----|-----|-----|-----|-----|----|
| Parity.            |     |     |     |     |     |    |
| 1st pregnancy      | ... | ... | ... | ... | ... | 17 |
| 2nd pregnancy      | ... | ... | ... | ... | ... | 12 |
| 3rd pregnancy      | ... | ... | ... | ... | ... | 3  |
| Over 3rd pregnancy | ... | ... | ... | ... | ... | 7  |
|                    |     |     |     |     |     | —  |
|                    |     |     |     |     |     | 39 |
|                    |     |     |     |     |     | == |

|                    |     |     |     |     |     |    |
|--------------------|-----|-----|-----|-----|-----|----|
| Age.               |     |     |     |     |     |    |
| 20 years and under | ... | ... | ... | ... | ... | 3  |
| 21-24 years        | ... | ... | ... | ... | ... | 12 |
| 25-29 years        | ... | ... | ... | ... | ... | 8  |
| 30-34 years        | ... | ... | ... | ... | ... | 6  |
| 35-39 years        | ... | ... | ... | ... | ... | 5  |
| 40 years and over  | ... | ... | ... | ... | ... | 4  |
| Not known          | ... | ... | ... | ... | ... | 1  |
|                    |     |     |     |     |     | —  |
|                    |     |     |     |     |     | 39 |
|                    |     |     |     |     |     | == |

|                        |     |     |     |     |     |    |
|------------------------|-----|-----|-----|-----|-----|----|
| Pre-natal supervision. |     |     |     |     |     |    |
| Satisfactory           | ... | ... | ... | ... | ... | 39 |
|                        |     |     |     |     |     | —  |

|                     |     |     |     |     |     |    |
|---------------------|-----|-----|-----|-----|-----|----|
| Standard of living. |     |     |     |     |     |    |
| Good                | ... | ... | ... | ... | ... | 18 |
| Fair                | ... | ... | ... | ... | ... | 14 |
| Poor                | ... | ... | ... | ... | ... | 1  |
| Not known           | ... | ... | ... | ... | ... | 6  |
|                     |     |     |     |     |     | —  |
|                     |     |     |     |     |     | 39 |
|                     |     |     |     |     |     | == |

Delivery.

|                  |     |     |     |     |     |                |
|------------------|-----|-----|-----|-----|-----|----------------|
| Spontaneous      | ... | ... | ... | ... | ... | 18             |
| Manual           | ... | ... | ... | ... | ... | 5              |
| Instrumental     | ... | ... | ... | ... | ... | 11             |
| Cæsarean section | ... | ... | ... | ... | ... | 3              |
| B.B.A.           | ... | ... | ... | ... | ... | 1              |
| Not known        | ... | ... | ... | ... | ... | 1              |
|                  |     |     |     |     |     | <hr/> 39 <hr/> |

Causes.

|  |     |                |     |     |                |
|--|-----|----------------|-----|-----|----------------|
| Toxæmia, twins                         | ... | (M. 1)         | ... | ... | 1              |
| Toxæmia, Cæsarean section              | ... | (Pr. 1)        | ... | ... | 1              |
| Hypertension                           | ... | (M. 1)         | ... | ... | 1              |
| Hæmorrhage, A.P.H.                     | ... | (M. 2)         | ... | ... | 2              |
| Dystocia                               | ... | (M. 3 ; Pr. 6) | ... | ... | 9              |
| Cord, prolapsed                        | ... | (M. 2 ; Pr. 1) | ... | ... | 3              |
| Cord, round neck                       | ... | (M. 3 ; Pr. 5) | ... | ... | 8              |
| Breech, B.B.A.                         | ... | (M. 1)         | ... | ... | 1              |
| Breech, precipitate                    | ... | (M. 1)         | ... | ... | 1              |
| Breech, extended                       | ... | (M. 1)         | ... | ... | 1              |
| Breech, ordinary                       | ... | (M. 2)         | ... | ... | 2              |
| Twins                                  | ... | (M. 3 ; Pr. 2) | ... | ... | 5              |
| Post-mature, induction of labour       | ... | (M. 1)         | ... | ... | 1              |
| B.B.A., No attendant                   | ... | (M. 1)         | ... | ... | 1              |
| Cerebral hæmorrhage, precipitate birth | ... | (Pr. 1)        | ... | ... | 1              |
| Not known                              | ... | (Pr. 1)        | ... | ... | 1              |
|  |     |                |     |     | <hr/> 39 <hr/> |

**Circular 20/44** There were 246 (including 10 pairs of twins) notified premature live births during 1946 of whom 158 were surviving and living in Plymouth on the 30th June, 1947, that is at the age of six months or over.

Twenty-one died within twenty-four hours, twenty-four died within the first week, and eleven died after the first week and within twenty-eight days. The majority of these deaths were due to prematurity; nine died between the ages of one month and six months, and these deaths were mostly due to broncho-pneumonia, apart from two due to gastro-enteritis.

Of the 158 surviving and living in Plymouth at six months or over, eighty-five were entirely breast fed for at least the first few weeks of life, although by the age of three months the majority of these were artificially fed.

More detailed information is given in the following tables :—

1. INSTITUTIONAL AND DOMICILIARY PREMATURE, OR UNDER-WEIGHT, BABIES.

|                                    | Total Births. | Died within 24 hours. | Died within the first week. | Died after the first week and within 28 days. | Survived at end of month. | Died after 28 days. | Left Plymouth between age of 1 and 6 months. | Total surviving and living in Plymouth at 30.6.47. |
|------------------------------------|---------------|-----------------------|-----------------------------|---|---------------------------|---------------------|--|--|
| Institutional Premature Babies ... | 130           | 12                    | 15                          | 7   | 96                        | 4                   | 20   | 72   |
| Domiciliary Premature Babies ...   | 116           | 9                     | 9                           | 4   | 94                        | 5                   | 3  | 86   |
|                                    | 246*          | 21                    | 24                          | 11  | 190                       | 9                   | 23   | 158  |

\* 232 Legitimate, 14 Illegitimate; 132 Males, 114 Females.

2. CLASSIFICATION OF THE 17 DISTRICT PREMATURE BABIES TRANSFERRED TO HOSPITAL.

| No. | Weight.        | Duration of Pregnancy. | Remarks.   |
|-----|----------------|------------------------|--|
| 1   | 4 lbs. 14 ozs. | 34-36 weeks.           | Difficult with feeding. Died at Prince of Wales's Hospital, Devonport. Prematurity — 3 weeks premature.        |
| 2   | 5 lbs. 8 ozs.  | 8 months.              | Transferred to Prince of Wales's Hospital, Devonport, on account of Convulsions and Bronchitis.                |
| 3   | 2 lbs. 8 ozs.  | ? 28 weeks.            | Emergency case. Dangerously feeble. Died aged 11 hours—Prematurity.  |
| 4   | 5 lbs.         | 36 weeks.              | Emergency case. Filthy home conditions. Died aged 90 days. Dietetic gastro-enteritis.                          |
| 5   | 4 lbs. 12 ozs. | 37 weeks.              | Emergency case. Unsatisfactory home conditions.  |
| 6   | 1 lb. 8 ozs.   | 26 weeks.              | Very feeble. Transferred to Hospital for incubator treatment. Emergency case. Died aged 32½ hours—Prematurity. |
| 7   | 2 lbs. 12 ozs. | 28 weeks.              | Very feeble.   |
| 8   | 5 lbs. 8 ozs.  | 36 weeks.              | No bowel action—vomiting. Died aged 9 days—Atresia of Colon, Atresia of Bile Ducts, Obstruction.               |
| 9   | ? 3 lbs.       | ? 28 weeks.            | Emergency case. Very feeble. Died aged 12 hours—Prematurity.   |

| No. | Weight.        | Duration of Pregnancy. | Remarks.  |
|-----|----------------|------------------------|---|
| 10  | 2 lbs.         | 26-28 weeks.           | Very feeble. <i>Died</i> aged 24 hours—Prematurity.                                       |
| 11  | 3 lbs.         | 33 weeks.              | No one competent to look after baby at home. <i>Died</i> aged three weeks—Prematurity.    |
| 12  | 4 lbs. 4 ozs.  | 28 weeks.              | Unsatisfactory home conditions. <i>Died</i> aged 44 days—Gastro-enteritis.                |
| 13  | 4 lbs. 12 ozs. | 32-36 weeks.           | Removed to City Hospital on the 9th day on account of neglect and not being fed properly. |
| 14  | 3 lbs. 2 ozs.  | 28-30 weeks.           | Dangerous feebleness. <i>Died</i> aged two days—Prematurity.                              |
| 15  | ? 2 lbs.       | ? 28 weeks.            | Dangerous feebleness. <i>Died</i> aged 9 hours—Prematurity.                               |
| 16  | 4 lbs. 2 ozs.  | 37 weeks.              | Second twin. Bleeding from nose.  |
| 17  | 3 lbs. 8 ozs.  | ? 28 weeks.            | Dangerous feebleness. <i>Died</i> aged one week—Prematurity.                              |

Note.—5 babies survived and 12 babies died.

### 3. INSTITUTIONAL AND DOMICILIARY PREMATURE BABIES.

PROBABLE CAUSE OF PREMATURITY  
(INCLUDING SEVERAL FULL TERM BUT UNDERWEIGHT BABIES).

| Cause.                                 | Total Births. | Died within 24 hours. | Died within 28 days. | Died after 28 days. | Left Plymouth between age of 1 and 6 months. | Total surviving and living in Plymouth at 30.6.47. |
|--|---------------|-----------------------|----------------------|---------------------|--|--|
| Full term, but underweight ... ..      | 47            | —                     | 3                    | 1                   | 3  | 40   |
| Toxæmia ... ..                         | 30            | 3                     | 6                    | 2                   | 3  | 16   |
| Associated with Ante-partum Hæmorrhage | 1             | —                     | —                    | —                   | —  | 1  |
| Ante-partum Hæmorrhage ... ..          | 13            | 5                     | 2                    | —                   | —  | 6  |
| Hypertension ... ..                    | 2             | —                     | —                    | —                   | —  | 2  |
| Medical Induction ... ..               | 2             | —                     | —                    | —                   | —  | 2  |
| Labour induced ... ..                  | 2             | —                     | 1                    | —                   | —  | 1  |
| Following Cæsarean for Toxæmia ... ..  | 1             | —                     | 1                    | —                   | —  | —  |
| Following attempted Version ... ..     | 1             | —                     | —                    | —                   | 1  | —  |
| Multiple pregnancy ... ..              | 17            | 2                     | 5                    | —                   | —  | 10   |
| Hydramnios ... ..                      | 6             | 1                     | 2                    | —                   | —  | 3  |
| Cardiac ... ..                         | 1             | —                     | 1                    | —                   | —  | —  |
| Mental distress ... ..                 | 2             | —                     | 1                    | —                   | —  | 1  |
| Pyelitis ... ..                        | 1             | —                     | —                    | —                   | 1  | —  |
| Infarction of Placenta... ..           | 1             | —                     | 1                    | —                   | —  | —  |
| Associated with Positive W.R. ... ..   | 2             | —                     | 1                    | —                   | —  | 1  |
| Fall ... ..                            | 1             | —                     | —                    | —                   | —  | 1  |
| Unknown ... ..                         | 115           | 10                    | 11                   | 6                   | 15   | 73   |
| Placenta Prævia ... ..                 | 1             | —                     | —                    | —                   | —  | 1  |
| Totals ... ..                          | 246           | 21                    | 35                   | 9                   | 23   | 158  |

#### 4. INITIAL FEEDING OF THE 158 PREMATURE BABIES SURVIVING AND LIVING IN PLYMOUTH AT THE AGE OF SIX MONTHS.

(a) Domiciliary : 86.

- 52 Entirely Breast fed.
- 4 Breast and National Dried Milk.
- 2 Breast and Nestles.
- 1 Breast, Nestles, National Dried Milk.
- 2 Breast and Ostermilk.
- 2 Breast and Cow and Gate.
- 1 Breast and Allenburys.
- 1 Breast and Cows Milk.
- 1 Expressed Breast Milk and Cow and Gate.
- 1 Cows Milk.
- 2 Ambrosia.
- 1 National Dried Milk and Nestles.
- 4 Ostermilk.
- 4 National Dried Milk.
- 2 Cow and Gate.
- 1 Frailac and Ostermilk.
- 1 Cow and Gate Half Cream.
- 1 Nestles and National Dried Milk.
- 2 Frailac and Cow and Gate.
- 1 Evaporated Milk.

---

86

---

*Note.*—Smallest baby  $2\frac{3}{4}$  lbs. Largest baby  $5\frac{1}{2}$  lbs.

(b) Institutional : 72.

- 33 Entirely Breast fed.
- 1 Breast and Trufood.
- 1 Breast and Cows Milk.
- 2 Breast and Modified Cows Milk.
- 2 Breast and National Dried Milk.
- 9 Expressed Breast Milk.
- 5 Expressed Breast Milk, Breast.
- 1 Expressed Breast Milk and Modified Cows Milk.
- 2 Expressed Breast Milk and Cows Milk.
- 2 Expressed Breast Milk and Frailac.
- 1 Nestles.
- 1 Trufood.
- 1 Ostermilk.
- 1 Cows Milk.
- 2 Frailac and Ostermilk.
- 2 Frailac.
- 6 Nursing Home cases (Cards and particulars not received).

---

72

---

*Note.*—Smallest baby 3 lbs. Largest baby  $5\frac{1}{2}$  lbs.

**1945 Follow Up.** 144 of the 252 premature babies born during 1945 were surviving and living in Plymouth on the 30th June, 1946. A year later four had died and eleven had left Plymouth, leaving 129 surviving and well.

**Infant Mortality.**

(See Table on page 14, and Chart on page 18c).  
 Number of deaths under one year : 197 : (under 1 month : 113).

Infant mortality rate : 46.11 per thousand live births (England and Wales, 43).

Neo-natal mortality rate : 26.45 per 1,000 live births.

Total deaths under 1 week : 80.

Prematurity deaths under 1 month : 46.

Congenital malformation deaths under 1 month : 49.

Gastro-enteritis deaths under 1 month : 1.

Pre-natal and neo-natal causes account for 56% of the deaths, respiratory diseases for 27%, diseases of the digestive tract including gastro-enteritis for 4.5% and infectious diseases for 3%.

The proportion of deaths due to pre-natal and neo-natal causes remains fairly constant from year to year, the average for the past five years being 54%.

**Deaths of Children between 1 and 5 years.**

Number of deaths : 33.

This is not a high figure, but the fact that 11, that is exactly one-third of these deaths, were due to tuberculosis, is a somewhat disturbing feature.

|      |     |     |     | <i>Deaths 0-1<br/>years.</i> | <i>Deaths 1-5<br/>years.</i> | <i>Total deaths<br/>under 5 years.</i> |
|------|-----|-----|-----|------------------------------|------------------------------|--|
| 1938 | ... | ... | ... | 176                          | 59                           | 235                                    |
| 1939 | ... | ... | ... | 145                          | 48                           | 193                                    |
| 1940 | ... | ... | ... | 197                          | 94                           | 291                                    |
| 1941 | ... | ... | ... | 178 (27 enemy<br>action)     | 112 (48 enemy<br>action)     | 290                                    |
| 1942 | ... | ... | ... | 146                          | 32                           | 178                                    |
| 1943 | ... | ... | ... | 118                          | 49                           | 167                                    |
| 1944 | ... | ... | ... | 139                          | 40                           | 179                                    |
| 1945 | ... | ... | ... | 214                          | 46                           | 260                                    |
| 1946 | ... | ... | ... | 197                          | 33                           | 230                                    |

**Infantile Diarrhoea.**

Notifications : 34 cases.

There were seven deaths from gastro-enteritis in children under two years, giving a rate of 1.63, the corresponding rate for England and Wales being 4.4.

Seasonal incidence of notified cases.

In November and December there were 19 notifications (deaths 3).

|                    |     |     |     |     |                |
|--------------------|-----|-----|-----|-----|----------------|
| 6 months to 1 year | ... | ... | ... | ... | 5              |
| 3 months and under | ... | ... | ... | ... | 3              |
| Over 1 year        | ... | ... | ... | ... | 11             |
|                    |     |     |     |     | <hr/> 19 <hr/> |



In January and February there were 11 notifications (death 1).

|                |     |     |     |     |    |
|----------------|-----|-----|-----|-----|----|
| Under 3 months | ... | ... | ... | ... | 6  |
| 5 months       | ... | ... | ... | ... | 1  |
| 8 months       | ... | ... | ... | ... | 1  |
| Over 1 year    | ... | ... | ... | ... | 3  |
|                |     |     |     |     | 11 |
|                |     |     |     |     | =  |

In May one notification was received (died), in September two and in October one. There were no notifications during the months of March, April, June, July and August. The title "summer diarrhoea" is therefore not appropriate, as the incidence was almost entirely confined to the winter months. The two un-notified deaths occurred in October and December.

|            |                        |     |     |      |
|------------|------------------------|-----|-----|------|
| Feeding :  | Breast fed             | ... | ... | Nil. |
|            | Dried milk             | ... | ... | 12   |
|            | Liquid milk (boiled 5) | ... | ... | 7    |
| Occurred : | Own home               | ... | ... | 32   |
|            | Institution            | ... | ... | 2    |
| Treated :  | Hospital               | ... | ... | 9    |

#### Ophthalmia Neonatorum.

| No. notified. | Where treated |                      |  |                 | Vision Un-impaired. | Vision Impaired. |
|---------------|---------------|----------------------|--|-----------------|---------------------|------------------|
|               | Own home.     | Royal Eye Infirmary. | City Hospital and Royal Eye Infirmary. | Maternity Home. |                     |                  |
| 21            | 8             | 8                    | 3                                      | 2               | 21*                 | -                |

\* Includes 1 death.

Notifications : 21. Outward transfers 2, leaving 19 belonging to Plymouth, of which 10 were district cases and 9 institutional. A. District cases : 10.

Treated at home, 8. All mild cases. Earliest onset 6th day.

Treated Royal Eye Infirmary, 2. (i) Severe conjunctivitis occurring after 14th day. (ii) Onset 4th day. G.C. present. Treated with penicillin. Complete recovery.

B. Institutional cases : 9. (Flete 4, City Hospital 3, Alexandra Maternity Home 2).

Seven cases were referred to the Royal Eye Infirmary and of these one died of broncho-pneumonia whilst under treatment. In all, the onset was late, after the 12th day. There was no impairment of vision in any case.

**Child Life Protection.** The demand for foster-mothers has been much greater than the supply and this despite our scheme of guaranteed payments to foster-mothers.

One is forced to the conclusion that the present day strain of coping with ordinary household affairs is deterring many women from acting as foster-mothers who would otherwise be glad to do so.

Health Visitors paid 359 home visits as Child Life Protection Officers.

FOSTER-PARENTS.

|                                    |                            |
|------------------------------------|----------------------------|
| No. on Register, 1st January, 1946 | 28                         |
| New registrations during the year  | 3                          |
|                                    | <hr style="width: 100%;"/> |
| On Register at end of year         | 31                         |
|                                    | <hr style="width: 100%;"/> |

FOSTER-CHILDREN.

|  |                            |
|--|----------------------------|
| No. on Register, 1st January, 1946                 | 33                         |
| Notifications of children received during the year | 43                         |
|  | <hr style="width: 100%;"/> |
|  | 76                         |
| Removals from Register during the year :—          |                            |
| Adopted  | 6                          |
| Removed to care of relatives                       | 26                         |
| Removed to official organisations                  | 4                          |
| Removed to outside areas                           | 1                          |
| Died   | 1                          |
| Removed to other Foster-mothers                    | 3                          |
|  | <hr style="width: 100%;"/> |
| Total removals from Register                       | 41                         |
|  | <hr style="width: 100%;"/> |
| On Register at end of the year                     | 35                         |
|  | <hr style="width: 100%;"/> |
| Interviews with Mothers and Fathers                | 20                         |
| Interviews with Foster-mothers                     | 20                         |
| Home visits by Superintendent Health Visitor       | 45                         |

Visits were paid by a Medical Officer to three boarding schools taking boarders under the age of nine years, and to a voluntary children's home.

**Adoption of Children (Regulation Act, 1939).**

|   |                            |
|---|----------------------------|
| Cases brought forward from 1945         | 28                         |
| New cases in 1946                       | 72                         |
|   | <hr style="width: 100%;"/> |
| Total on Register for 1946              | 100                        |
| Adoptions completed during 1946         | 35                         |
| Adoptions not proceeded with            | 11                         |
| No. of children who died during year    | 1                          |
| No. who were transferred to other areas | 2                          |
|   | <hr style="width: 100%;"/> |
|   | 49                         |
|   | <hr style="width: 100%;"/> |
| Total on Register at end of 1946        | 51                         |
|   | <hr style="width: 100%;"/> |

|              |     |     |     |     |     |            |
|--------------|-----|-----|-----|-----|-----|------------|
| Visiting :—  |     |     |     |     |     |            |
| 1st visits   | ... | ... | ... | ... | ... | 29         |
| Re-visits    | ... | ... | ... | ... | ... | 119        |
| Total visits | ... | ... | ... | ... | ... | <u>148</u> |

Interviews by Superintendent Health Visitor ... 313

Adoption work cannot be hurried. It demands great understanding of human problems and relationships, much tact and kindness combined with sound judgment.

No adoption is sponsored unless it seems the best thing for the child, and the greatest care is taken to secure a really good home for each adopted child.

**Illegitimate Children.** Special care has been given to illegitimate children  
**Circular 2866.** as follows :—

|  |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|
| Admitted to our residential nursery  | ... | ... | ... | ... | 16  |
| Admitted to day nurseries  | ... | ... | ... | ... | 26  |
| Placed with foster-mothers under our guaranteed payments to foster-mothers' scheme | ... | ... | ... | ... | 41  |
| Adoptions :—   |     |     |     |     |     |
| Applications considered  | ... | ... | ... | ... | 100 |
| Adoptions completed  | ... | ... | ... | ... | 35  |
| For further information, see section on Moral Welfare.                             |     |     |     |     |     |

**Moral Welfare.** We were without a Moral Welfare Worker from October, 1945, to the end of March, 1946. The following report therefore covers the period from the 1st of April to the end of the year.

|  |     |     |     |     |            |
|--|-----|-----|-----|-----|------------|
| Cases in hand from 1945                            | ... | ... | ... | ... | 61         |
| Cases reported by (includes 12 cases re-opened) :— |     |     |     |     |            |
| Maternity and Child Welfare                        | ... | ... | ... | ... | 131        |
| Social Welfare Officers                            | ... | ... | ... | ... | 24         |
| Social Workers                                     | ... | ... | ... | ... | 14         |
| Public Officials                                   | ... | ... | ... | ... | 13         |
| Themselves and others interested                   | ... | ... | ... | ... | 25         |
|  |     |     |     |     | <u>207</u> |
| Cases dealt with                                   | ... | ... | ... | ... | 268        |
| No. of interviews                                  | ... | ... | ... | ... | 883        |
| No. of visits                                      | ... | ... | ... | ... | 552        |

Cases were dealt with on the following lines :—

|   |     |     |     |     |    |
|---|-----|-----|-----|-----|----|
| Helped and advised  | ... | ... | ... | ... | 9  |
| Unmarried mothers helped and advised                        | ... | ... | ... | ... | 76 |
| Married women with illegitimate children                    | ... | ... | ... | ... | 50 |
| Matrimonial difficulties                                    | ... | ... | ... | ... | 16 |
| Young girls in moral danger helped and visited...           | ... | ... | ... | ... | 6  |
| Young girl in moral danger sent to six months Training Home | ... | ... | ... | ... | 1  |

|  |    |
|--|----|
| Taken to Children's Home ... ..                              | 9  |
| Put in touch with Youth Clubs ... ..                         | 3  |
| Foster homes found (through M. & C.W. Dept.)                 | 4  |
| Put in touch with County Welfare Officers ...                | 4  |
| Mental defective unmarried mothers helped and advised ... .. | 2  |
| Adoptions arranged ... ..                                    | 6  |
| Missing girl traced ... ..                                   | 1  |
| Residential work found with baby ... ..                      | 5  |
| Work found ... ..  | 22 |
| Taken to Maternity Homes ... ..                              | 6  |
| Taken to Mother and Baby Homes 4 girls, 4 babies             |    |
| Taken to Hostel for expectant unmarried mothers              | 6  |
| Grant through City Treasurer for foster home ...             | 1  |
| Hostel accommodation for working girl ... ..                 | 1  |
| Affiliation Orders obtained through private agreement ... .. | 5  |
| Affiliation Orders obtained through the Court ...            | 2  |
| Grants, allowances, etc., administered ... ..                | 26 |
| Grants obtained ... ..                                       | 12 |

In addition to this, gifts of baby clothes, prams, cots, books, etc., were given where required.

Our Moral Welfare Officer submits the following account of her work.

“ The greatest problem with which we have been faced is the recurrence of illegitimacy. Two cases have had a fourth child at the age of 24.

Our first step to try to stop this occurring is strongly to advise the girl to keep the child and also, if possible, to get her into a Maternity Home where she will be met with kindness and understanding and taught to look after her child and ultimately feel that she does not want to part with it. We are most anxious to have an hostel where girls, after training, can go out to daily work. At the present time, they have to go out of the City, and it is during the ante-natal period that one has the greatest influence on them.

We try, whenever possible, to trace the putative father and get him to take his share of the responsibility. In a number of cases private agreements have been drawn up and the man is paying regularly through this office.

In cases where it has not been possible to obtain help from the putative father grants have been made, in most cases through Barnardo's, either to the foster-mother or to the grandmother. These grants vary from 5/- to 23/6 a week and are based by the Society on the girl's circumstances.

This Society also pays the doctor's bills for the child, and if for any reason the girl loses time from work the Society will make it up by an additional grant. They ask for a report on the child and its mother each month.

We are now receiving about £30 per month for these grants. In cases of married women with illegitimate children, also widows, the Society has taken the child into one of their Homes and the mother makes a small payment, which is paid through this office, as it is hoped her circumstances later will allow her to have her child out with her again.

We are administering in various ways about £550 a year.

We feel strongly that the after-care is one of the most important parts of the work. When a girl is re-established, and, as it might appear our work finished, it is then that we like her to feel that we are still her friends and encourage her to come and see us at the office in a friendly way. We do feel there is a great need for us to have a club where we can invite these girls.

If the girls are working out of town a correspondence is kept up with them and, when possible, they are visited and it is amazing how much they appreciate this link.

Much concern is felt in the number of young wives who are expecting babies who ask us to arrange adoption as the marriage is a failure. Also, a great number are of couples who come to us with matrimonial difficulties and, in many cases, our efforts to prevent a broken marriage seem in vain.

**Health Visiting.**

There were only twelve Health Visitors on the staff on December 31st, with a known case load of 13,872 children under five (3,879 being under one year).

Some districts have been left almost entirely without a Health Visitor for many months, and home visiting generally has not been adequately done for several years, although home visiting is a fundamental part of Maternity and Child Welfare work. The situation is beyond local control, being due to the national shortage of trained Health Visitors.

TABLE X. INFANT WELFARE CENTRES.

|   | Town Hall.    | Beaumont Hut.   | Deronport Park. | Beacon Park.  | Peverell.     | Honicknowle. | St. Budaux.   | Efford.       | Crownhill.   | Totals.         |
|---|---------------|-----------------|-----------------|---------------|---------------|--------------|---------------|---------------|--------------|-----------------|
| No. of sessions held ...                          | 51            | 189             | 51              | 81            | 49            | 53           | 52            | 50            | 10           | 586             |
| No. of babies entered on register ...             | 326 (261 1st) | 1190 (859 1st)  | 283 (216 1st)   | 353 (264 1st) | 250 (164 1st) | 96 (70 1st)  | 242 (195 1st) | 190 (133 1st) | 54 (26 1st)  | 2984 (2188 1st) |
| No. of children entered on register ...           | 231 (75 1st)  | 674 (170 1st)   | 156 (79 1st)    | 203 (91 1st)  | 121 (43 1st)  | 69 (19 1st)  | 127 (29 1st)  | 175 (67 1st)  | 70 (31 1st)  | 1826 (604 1st)  |
| Total ...   | 557 (336 1st) | 1864 (1029 1st) | 439 (295 1st)   | 556 (355 1st) | 371 (207 1st) | 165 (89 1st) | 369 (224 1st) | 365 (200 1st) | 124 (57 1st) | 4810 (2792 1st) |
| No. remaining on register 31st December, 1946 ... |               |                 |                 |               |               |              |               |               |              |                 |
| Babies ...  | 181           | 706             | 172             | 277           | 105           | 39           | 210           | 102           | 12           | 1804            |
| Children ...                                      | 324           | 1079            | 244             | 227           | 226           | 29           | 141           | 221           | 104          | 2595            |
| Total ...   | 505           | 1785            | 416             | 504           | 331           | 68           | 351           | 323           | 116          | 4399            |
| No. of babies weighed and mothers advised ...     | 2092          | 9486            | 2001            | 2800          | 2133          | 788          | 2246          | 1511          | 199          | 23256           |
| No. of children weighed and mothers advised ...   | 984           | 3041            | 525             | 791           | 426           | 205          | 452           | 650           | 83           | 7157            |
| Total ...   | 3076          | 12527           | 2526            | 3591          | 2559          | 993          | 2698          | 2161          | 282          | 30413           |
| Doctors' consultations ...                        | 979           | 4179            | 909             | 945           | 553           | 293          | 706           | 805           | 99           | 9468            |
| Average attendances per session ...               | 60.3          | 66.2            | 49.5            | 44.3          | 52.2          | 18.7         | 51.9          | 43.2          | 28.2         | 51.9            |
| Dressings done ...                                | 196           | 437             | 162             | 241           | 153           | —            | 72            | 249           | 10           | 1520            |
| Sewing classes held ...                           | —             | —               | —               | —             | —             | —            | —             | —             | —            | —               |
| Total attendances ...                             | —             | —               | —               | —             | —             | —            | —             | —             | —            | —               |
| Attendances at clinics by Health Visitors ...     |               |                 |                 |               |               |              |               |               |              | 2,836           |
| Diphtheria Immunisation No. 1st attendances ...   | 272           | 889             | 367             | 347           | 65            | —            | 364           | 178           | 32           | 2514            |
| No. re-attendances ...                            | 561           | 1965            | 794             | 614           | 228           | —            | 862           | 291           | 63           | 5378            |



Summary of visits paid during the year :—

|                                      |        |
|--------------------------------------|--------|
| Births ... ..                        | 4,283  |
| 1st year visits ... ..               | 7,529  |
| 1st visits, 1-5 years ... ..         | 968    |
| Re-visits, 1-5 years ... ..          | 14,101 |
| 1st ante-natal visits ... ..         | 465    |
| Re-ante-natal visits ... ..          | 455    |
| Visits re infectious diseases ... .. | 199    |
| Child Life Protection visits ... ..  | 412    |
| Visits re adoption ... ..            | 370    |
| Special visits ... ..                | 1,123  |
|                                      | 29,905 |

The 199 visits in connection with infectious diseases are made up as follows :—

|                                  |     |
|----------------------------------|-----|
| Ophthalmia neonatorum ... ..     | 10  |
| Discharging eyes ... ..          | 10  |
| Whooping cough ... ..            | 108 |
| Measles ... ..                   | 32  |
| Chicken pox ... ..               | 1   |
| Enteritis ... ..                 | 23  |
| Mumps ... ..                     | 4   |
| Cerebro-spinal meningitis ... .. | 5   |
| Dysentery ... ..                 | 1   |
| Pneumonia ... ..                 | 2   |
| Scarlet fever ... ..             | 1   |
| Puerperal fever ... ..           | 1   |
| Cerebro-spinal fever ... ..      | 1   |
|                                  | 199 |

Eighty-four sanitary defects were reported by Health Visitors, and 112 visits were paid in connection with the Home Help Service.

**Infant Welfare Centres.**

A new Child Welfare Centre was opened at Crown-hill on 18th October, 1946, providing one child welfare, one ante-natal and one diphtheria immunisation session each week.

Our child welfare weekly sessions increased from eleven to thirteen. In 1938 we had a total of 717 child welfare sessions as against 586 in 1946, although we had 277 more children attending our Centres in 1938. There is obviously great need for extension of our work, when premises and staff are available.

Since November 8th, 1946, creche facilities have been available at Beacon Park Centre on Friday afternoons from 2 to 5 p.m. The creche is staffed by voluntary workers. Up to twenty children can be accommodated, and a charge of 6d. per child is made for the afternoon. Advance bookings are made at the Centre.

|                                       |    |
|---------------------------------------|----|
| No. of sessions ... ..                | 8  |
| No. of children attending ... ..      | 93 |
| Average attendance per session ... .. | 12 |



**Food Advice  
Service.**

In an endeavour to help mothers with their many problems, under present-day conditions, relating to food, marketing, and household budgeting, a special service was started in the month of July. The Education Authority made it possible to provide this service by lending a full-time demonstrator, and the necessary equipment. The demonstrator reports on her work as follows :—

“ Demonstration points have been established at Beacon Park, Beaumont Hut, Stonehouse, Devonport, Crownhill and St. Budeaux Welfare Centres, as well as at Efford Community Centre.

At all these places contact is made with the mothers attending for Child Welfare and Ante-natal and Immunisation purposes. At some the mothers stay for a complete demonstration which illustrates ways and means of using welfare and rationed foods. At other places, where time and circumstances do not permit of full demonstrations, talks with illustrative dishes are given.

Instructions are available in the form of Ministry of Food pamphlets and well-tried typed recipes prepared by the instructor. Increasing interest is being shown in this service particularly by the younger modern mothers. It is often possible to follow up instructions given at the centre by visits to the homes where particular help is given to the housewife. No visit is made except at the request of the mother who very frequently gathers together friends and neighbours to join in.

The active co-operation of the Health Visitor has been most helpful in establishing this service.”

**Orthopaedic  
Treatment.**

Child Welfare medical officers refer cases to the visiting Orthopaedic Surgeon at the Mount Gold Orthopaedic Hospital, and arrangements are then made for the prescribed treatment to be carried out.

During 1946, 101 cases were referred of which 7 cases were treated as in-patients.

Ante-natal.

Number of sessions held weekly : 16.

See table for summary of attendances.

ANTE-NATAL AND POST-NATAL CLINICS.

|  | Town Hall.      | Beaumont Park.   | Devonport Park.  | Beacon Park.    | St. Budeaux     | Efford.        | Crownhill    | Totals.            |
|--|-----------------|------------------|------------------|-----------------|-----------------|----------------|--------------|--------------------|
| No. of sessions held                     | 99              | 244              | 84               | 82              | 98              | 53             | 10           | 670                |
| 1st attendances                          | 148<br>239<br>8 | 508<br>625<br>22 | 121<br>209<br>13 | 112<br>188<br>6 | 109<br>168<br>2 | 34<br>119<br>5 | 5<br>8<br>—  | 1037<br>1556<br>56 |
| Re-attendances                           | 1491            | 4110             | 1196             | 1061            | 1131            | 671            | 20           | 9680               |
| Post-natal attendances                   | 1               | 6                | 2                | —               | —               | 6              | —            | 15                 |
| Miscellaneous                            | 2<br>9<br>5     | —<br>16<br>—     | 1<br>5<br>—      | —<br>45<br>7    | —<br>—<br>—     | —<br>—<br>—    | —<br>—<br>—  | 3<br>75<br>12      |
| Total attendances                        | 405             | 1177             | 350              | 351             | 279             | 164            | 13           | 2739               |
| Average per session                      | 19              | 21               | 18               | 17              | 14              | 15             | 3            | 18                 |
| Consultations                            | 1812            | 5126             | 1403             | 1325            | 1319            | 801            | 30           | 11816              |
| No. of transfers from 1945               | 123             | 240              | 25               | 64              | 49              | 43             | —            | 544                |
| Total No. of women attending during 1946 | 518<br>—<br>10  | 1395<br>—<br>22  | 368<br>—<br>7    | 370<br>—<br>45  | 328<br>—<br>—   | 201<br>—<br>6  | 13<br>—<br>— | 3193<br>—<br>90    |

Note.—Crownhill average one month, 5. Clinic opened October, 1946.

Mothers attending Municipal Ante-natal Clinics :—

|  |     |     |     |     |        |
|--|-----|-----|-----|-----|--------|
| No. confined in 1946                   | ... | ... | ... | ... | 2,008* |
| No. aborted in 1946                    | ... | ... | ... | ... | 58     |
| No. of above confined in City Hospital | ... | ... | ... | ... | 503    |
| No. confined at Flete                  | ... | ... | ... | ... | 639    |
| No. confined T.T.N.A. District Midwife | ... | ... | ... | ... | 21     |
| No. confined Alexandra Maternity Home  | ... | ... | ... | ... | 41     |
| No. confined Municipal Midwife         | ... | ... | ... | ... | 790    |
| No. confined Private Midwife           | ... | ... | ... | ... | 12     |
| No. confined Private Nursing Home      | ... | ... | ... | ... | 8      |
| No. left Plymouth                      | ... | ... | ... | ... | 131    |

\* Includes 47 stillbirths.

Character of labour in 2,008 confinements :—

|              |     |     |     |     |       |
|--------------|-----|-----|-----|-----|-------|
| Spontaneous  | ... | ... | ... | ... | 1,902 |
| Instrumental | ... | ... | ... | ... | 52    |
| Cæsarean     | ... | ... | ... | ... | 33    |
| Induction    | ... | ... | ... | ... | 12    |
| Bimanual     | ... | ... | ... | ... | 5     |
| Not known    | ... | ... | ... | ... | 4     |

Abnormalities found in cases attending for the first time in 1946 :—

|                                 |     |     |     |     |     |
|---------------------------------|-----|-----|-----|-----|-----|
| 1. Contracted pelvis :—         |     |     |     |     |     |
| Minor                           | ... | ... | ... | ... | 1   |
| Major                           | ... | ... | ... | ... | 12  |
| 2. Albuminuria                  | ... | ... | ... | ... | 55  |
| 3. Toxæmia                      | ... | ... | ... | ... | 19  |
| 4. Syphilis                     | ... | ... | ... | ... | 9   |
| 5. Cardiac diseases             | ... | ... | ... | ... | 13  |
| 6. Respiratory diseases         | ... | ... | ... | ... | 20  |
| 7. Carious teeth                | ... | ... | ... | ... | 342 |
| 8. Profuse leucorrhœa           | ... | ... | ... | ... | 14  |
| 9. Severe digestive disturbance | ... | ... | ... | ... | 4   |
| 10. Anæmia                      | ... | ... | ... | ... | 71  |
| 11. Epilepsy                    | ... | ... | ... | ... | 1   |

Abnormalities found on post-natal examination :—

|                             |     |     |     |     |    |
|-----------------------------|-----|-----|-----|-----|----|
| No. of cases examined P.V.  | ... | ... | ... | ... | 24 |
| Subinvolution               | ... | ... | ... | ... | 1  |
| Cervical tears and erosions | ... | ... | ... | ... | 2  |
| Retroversion                | ... | ... | ... | ... | 2  |

Three hundred and seventy-six Wassermann tests were done, only one being positive.

The work done at our municipal ante-natal clinics has greatly increased. In 1938, we had 407 sessions which 1,202 expectant mothers attended. In 1945, we had 586 sessions, with 2,434 expectant mothers attending. In 1946, the sessions increased to 670, and the expectant mothers attending to 3,193—almost three times as many as in 1938.

**Post-natal.** As it has not been possible to cope with post-natal examinations at our Centres for some years past, arrangements were made to refer midwives' district cases to a post-natal clinic at the City Hospital, six weeks after the confinement.

This clinic started on 12th April, 1946, and by the end of the year 681 women had been given a special appointment. Of these only 144 attended for examination.

Findings are summarised in the following table :—

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| No. of 1st attendances                              | ... | ... | ... | ... | 144 |
| No. of re-attendances                               | ... | ... | ... | ... | 8   |
| No. advised or treated                              | ... | ... | ... | ... | 38  |
| No. referred City Hospital for in-patient treatment | ... | ... | ... | ... | 5   |
| No. referred to Gynæcologist                        | ... | ... | ... | ... | 1   |
| Perineum deficient                                  | ... | ... | ... | ... | 20  |
| Cystocele   | ... | ... | ... | ... | 15  |
| Rectocele   | ... | ... | ... | ... | 6   |
| Cervical tears                                      | ... | ... | ... | ... | 46  |
| Cervical erosion                                    | ... | ... | ... | ... | 10  |
| Uterus subinvolted                                  | ... | ... | ... | ... | 1   |
| Uterus prolapsed                                    | ... | ... | ... | ... | 1   |
| Uterus retroverted                                  | ... | ... | ... | ... | 23  |
| No. of mothers not breast feeding                   | ... | ... | ... | ... | 44  |

|                              |  |     |     |     |     |                       |
|------------------------------|--|-----|-----|-----|-----|-----------------------|
| <b>Flete Maternity Home.</b> | Plymouth mothers confined at Flete during 1946       | ... | ... | ... | ... | 636                   |
|                              | Devon County mothers confined at Flete during 1946   | ... | ... | ... | ... | 89                    |
|                              | Cornwall County mother confined at Flete during 1946 | ... | ... | ... | ... | 1                     |
|                              |  |     |     |     |     | <hr/> 726 <hr/> <hr/> |

Fees paid in advance at Maternity and Child Welfare Office during 1946 ... .. £2,454 2s. 6d.

**Home Helps.** Our Home Help Service, first established in 1919, was further extended during 1946 to cover Domestic Help as advocated by Circular 110/46 of the Ministry of Health, and this combined service was put into operation on the 7th October, 1946.

During the war years it was almost impossible to obtain helpers, but by 31st December, 1946, we had 16 registered helpers who attended 47 home help cases and 17 domestic cases.

In 1938 the cost to the City of the Home Help Service was £209 10s. 8d. For the financial year ending March 31st, 1947, the cost of the new joint service was as follows :—

|                           | <i>Home Help.</i> |    |    | <i>Domestic Help.</i> |    |    |
|---------------------------|-------------------|----|----|-----------------------|----|----|
|                           | £                 | s. | d. | £                     | s. | d. |
| Paid in Wages ... ..      | 524               | 1  | 2  | 631                   | 9  | 3  |
| Amount Recoverable ... .. | 184               | 16 | 2  | 174                   | 10 | 4  |
|                           | <hr/>             |    |    | <hr/>                 |    |    |
| Cost ... ..               | £339              | 5  | 0  | £456                  | 18 | 11 |
|                           | <hr/>             |    |    | <hr/>                 |    |    |

Circular 179/44 of the Ministry of Health authorises the reimbursement by the Ministry of reasonable expenses incurred by Local Authorities on the Domestic Help Service.

Since October 7th, 1946, helpers have been paid 1/6 per hour, and a new scale of recovery from householders has been in operation, namely the scale suggested in Circular 110/46 of the Ministry of Health.

|                                 |   |    |
|---------------------------------|---|----|
| <b>Supervision of Midwives.</b> | Number notifying their intention to practise                    | 57 |
|                                 | On Register at end of year ... ..                               | 57 |
|                                 |   | == |
|                                 | Municipal (including Non-Medical Supervisor of Midwives) ... .. | 17 |
|                                 | In private practice ... ..                                      | 5  |
|                                 | T.T.N.A. ... ..   | 12 |
|                                 | Alexandra Maternity Home ... ..                                 | 20 |
|                                 | City Hospital ... ..  | 3  |
|                                 |   | —  |
|                                 |   | 57 |
|                                 |   | == |

No. of cases attended by private midwives :—

One midwife had 72 cases, one had 61, one had 37, one had 36, and one had 5 cases.

Approximately 75.6% of the notified births (district and institutional) were conducted by midwives only.

|   |       |
|---|-------|
| District cases attended by midwife ... ..                                 | 1,390 |
| District cases attended by midwife acting as maternity nurse ... ..       | 429   |
| *Institutional cases attended by midwife ... ..                           | 1,657 |
| *Institutional cases attended by midwife acting as maternity nurse ... .. | 553   |
|   | <hr/> |
|   | 4,029 |
|   | <hr/> |

\* Includes maternity and nursing homes and hospitals.

Medical help was sought by midwives in 969 cases, approximately 119 calls being for the child.

The following are the reasons given for seeking medical aid :—

|                             |     |                              |     |
|-----------------------------|-----|------------------------------|-----|
| Toxæmia of pregnancy ...    | 84  | Varicose veins ...           | 6   |
| Severe sickness ...         | 4   | Twins ...                    | 4   |
| Albuminuria ...             | 3   | Stillbirth ...               | 3   |
| Oedema ...                  | 2   | Unsatisfactory condition of  |     |
| Pyelitis ...                | 2   | the mother :—                |     |
| Eclampsia ...               | 1   | Ante-natal ...               | 9   |
| Contracted pelvis ...       | 3   | Post-natal ...               | 6   |
| Malpresentation ...         | 15  | Adherent placenta ...        | 13  |
| Patient's request ...       | 2   | Retained membranes ...       | 1   |
| Fœtal distress ...          | 16  | Painful breast ...           | 5   |
| Maternal distress ...       | 15  | Ruptured perineum ...        | 381 |
| Hæmorrhage :—               |     | Pain in leg ...              | 3   |
| Ante-partum (undefined) ... | 28  | Rise of temperature ...      | 35  |
| Post-partum ...             | 13  | Abdominal pains ...          | 2   |
| Intra-partum ...            | 2   | Skin condition of mother ... | 1   |
| Prolonged labour ...        | 126 | Skin condition of baby ...   | 2   |
| Difficult labour ...        | 2   | Deformity of baby ...        | 2   |
| Breech ...                  | 29  | Feeble infant ...            | 32  |
| Prolapsed cord ...          | 3   | Discharging eyes ...         | 36  |
| Uterine inertia ...         | 3   | Jaundice ...                 | 3   |
| Miscarriage ...             | 3   | Convulsions ...              | 2   |
| Threatened abortion ...     | 14  | Unsatisfactory condition of  |     |
| Premature rupture of mem-   |     | baby ...                     | 42  |
| branes ...                  | 2   |                              |     |
| Post-maturity ...           | 3   |                              | 969 |
| Cardiac ...                 | 1   |                              |     |

Compared with last year's figures there is an increase of 124 in the number of calls.

Other notifications received from midwives under Central Midwives Board rules :—

|   |     |
|---|-----|
| Notification of artificial feeding ...                | 220 |
| Notification of stillbirth ...                        | 19  |
| Notification of death ...                             | 13  |
| Notification of having laid out a dead body ...       | 12  |
| Notification of liability to be a source of infection | 18  |

**Municipal  
Domiciliary  
Midwifery  
Service.**

At the end of 1946, there were fifteen midwives on the staff, plus one Non-medical Supervisor of Midwives.

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

|  |       |  |       |
|--|-------|--|-------|
| Number of cases attended :—                  |       |  |       |
| Midwife only ...                             | 1,023 |  |       |
| Midwife with Doctor ...                      | 203   |  |       |
|  |       |  | 1,226 |
| Number of cases attended by relief nurses :— |       |  |       |
| Midwife only ...                             | 2     |  |       |
|  |       |  | 1,228 |

|   |     |     |     |     |       |
|---|-----|-----|-----|-----|-------|
| Number of cases booked  | ... | ... | ... | ... | 1,474 |
| Number of ante-natal visits paid by midwives  | ... | ... | ... | ... | 6,603 |
| Number of ante-natal clinic visits paid by midwives   | ... | ... | ... | ... | 144   |
| Number of emergency deliveries transferred to Flete   | ... | ... | ... | ... | 10    |
| Number of patients transferred to the City Hospital for confinement                             | ... | ... | ... | ... | 14    |
| Number of patients transferred to the City Hospital after confinement (including 3 emergencies) | ... | ... | ... | ... | 11    |
| Number transferred to the Alexandra Maternity Home after confinement (emergency)                | ... | ... | ... | ... | 1     |
| Number transferred to the Royal Eye Infirmary after confinement (emergency)                     | ... | ... | ... | ... | 1     |
| Number of emergency deliveries  | ... | ... | ... | ... | 57    |
| Number of emergency miscarriages  | ... | ... | ... | ... | 4     |
| Number of booked miscarriages   | ... | ... | ... | ... | 4     |
| Number of patients booked for the administration of Gas and Air Analgesia                       | ... | ... | ... | ... | 116   |
| Number of Gas and Air administrations   | ... | ... | ... | ... | 79    |

|                          |     |        |        |      |      |
|--------------------------|-----|--------|--------|------|------|
| Amount of fees collected | ... | ...    | £2,974 | 17s. | 10d. |
|                          |     |        | £      | s.   | d.   |
| Midwifery fees           | ... | 2,320  | 7      | 0    |      |
| Maternity fees           | ... | 555    | 15     | 0    |      |
| Sets and Pads            | ... | 98     | 15     | 10   |      |
|                          |     | £2,974 | 17     | 10   |      |

|                                  |     |     |          |  |  |
|----------------------------------|-----|-----|----------|--|--|
| Number of accouchement sets sold | ... | 267 |          |  |  |
| Number of maternity pads sold    | ... | 151 | packets. |  |  |

Fees to be collected by City Treasurer ... £589 12s. 6d.

**Fees paid to Doctors.** Two hundred and sixty-one accounts were dealt with under Section 14 of the Midwives Act, 1918. In 66 of these doctors' accounts, the full fee was paid by the Local Supervising Authority without recovery. In 180 cases the full fee, and in 15 cases half the fee was recoverable in accordance with the scale of income fixed by the City Council. Amount paid, £418 19s. Recoverable, £299 17s. Total cost, £119 2s.

**Maternity and Nursing Homes.**

MATERNITY HOMES.

|                                |     |     |     |   |
|--------------------------------|-----|-----|-----|---|
| On Register, 1st January, 1946 | ... | ... | ... | 2 |
| Closed during the year         | ... | ... | ... | 1 |
| On Register at end of year     | ... | ... | ... | 1 |

NURSING HOMES.

|                                |     |     |     |   |
|--------------------------------|-----|-----|-----|---|
| On Register, 1st January, 1946 | ... | ... | ... | 3 |
| Closed during the year         | ... | ... | ... | - |
| On Register at the end of year | ... | ... | ... | 3 |

**Maternal Mortality.** Seven women died in Plymouth from causes due to pregnancy and childbirth, and six of these deaths belonged to Plymouth, giving a maternal mortality rate of 1.36 per 1,000 births.

This is a very low rate for Plymouth, and is actually lower than the corresponding rate for England and Wales which is 1.43.

For the first time since 1929, there were no abortion deaths.

One of the six deaths was due to sepsis, and five to other causes.

Why Plymouth Maternal Mortality rate should be very high in 1945 and very low in 1946, while the birth rate remained high for both years, is not apparent.

#### DEATHS DUE TO PREGNANCY AND CHILDBIRTH, 7

(Belonging to Plymouth, 6).

##### CAUSES.

|                          |       |
|--------------------------|-------|
| Sepsis ... ..            | 2     |
| Hæmorrhage P.P.H. ... .. | 1     |
| Toxæmia ... ..           | 1     |
| Eclampsia ... ..         | 1     |
| Ruptured uterus ... ..   | 2     |
|                          | <hr/> |
|                          | 7     |
|                          | <hr/> |

##### WHERE CONFINED.

|                                  |       |
|----------------------------------|-------|
| Own home ... ..                  | 1     |
| City Hospital ... ..             | 1     |
| Alexandra Maternity Home ... ..  | 2     |
| Undelivered—City Hospital ... .. | 3     |
|                                  | <hr/> |
|                                  | 7     |
|                                  | <hr/> |

##### CHARACTER OF LABOUR.

|                         |       |
|-------------------------|-------|
| Spontaneous ... ..      | 1     |
| Forceps ... ..          | 2     |
| Cæsarean section ... .. | 1     |
| Undelivered ... ..      | 3     |
|                         | <hr/> |
|                         | 7     |
|                         | <hr/> |

##### DURATION OF PREGNANCY.

|                      |       |
|----------------------|-------|
| 40 weeks ... ..      | 3     |
| Over 40 weeks ... .. | 2     |
| 30 weeks ... ..      | 2     |
|                      | <hr/> |
|                      | 7     |
|                      | <hr/> |

##### AGE.

|                    |       |
|--------------------|-------|
| 20-24 years ... .. | 1     |
| 30-34 years ... .. | 3     |
| 35-39 years ... .. | 3     |
|                    | <hr/> |
|                    | 7     |
|                    | <hr/> |



|                          |     |     |     |     |     |     |   |
|--------------------------|-----|-----|-----|-----|-----|-----|---|
| PARITY.                  |     |     |     |     |     |     |   |
| 1st pregnancy            | ... | ... | ... | ... | ... | ... | 1 |
| 2nd pregnancy            | ... | ... | ... | ... | ... | ... | 2 |
| 3rd pregnancy            | ... | .   | ... | ... | ... | ... | 1 |
| 7th pregnancy            | ... | ... | ... | ... | ... | ... | 2 |
| 10th pregnancy           | ... | ... | ... | ... | ... | ... | 1 |
|                          |     |     |     |     |     |     | 7 |
| HOME CONDITIONS.         |     |     |     |     |     |     |   |
| Good                     | ... | ... | ... | ... | ... | ... | 4 |
| Fair                     | ... | ... | ... | ... | ... | ... | 3 |
|                          |     |     |     |     |     |     | 7 |
| ANTE-NATAL SUPERVISION.  |     |     |     |     |     |     |   |
| Satisfactory             | ... | ... | ... | ... | ... | ... | 4 |
| None                     | ... | ... | ... | ... | ... | ... | 1 |
| Inadequate               | ... | ... | ... | ... | ... | ... | 2 |
|                          |     |     |     |     |     |     | 7 |
| PLACE OF DEATH.          |     |     |     |     |     |     |   |
| Own home                 | ... | ... | ... | ... | ... | ... | 1 |
| City Hospital            | ... | ... | ... | ... | ... | ... | 4 |
| Alexandra Maternity Home | ... | ... | ... | ... | ... | ... | 2 |
|                          |     |     |     |     |     |     | 7 |

### TOTAL PUERPERAL MORTALITY.

| Year | ENGLAND AND WALES     |                        |                     | PLYMOUTH              |                        |                     |
|------|-----------------------|------------------------|---------------------|-----------------------|------------------------|---------------------|
|      | Per 1,000 live births | Per 1,000 total births |                     | Per 1,000 live births | Per 1,000 total births |                     |
|      |                       | Including abortions    | Excluding abortions |                       | Including abortions    | Excluding abortions |
| 1928 | 4.42                  | 4.25                   | —                   | 6.04                  | —                      | —                   |
| 1929 | 4.33                  | 4.16                   | —                   | 4.98                  | —                      | —                   |
| 1930 | 4.40                  | 4.22                   | —                   | 6.43                  | —                      | —                   |
| 1931 | 4.11                  | 3.94                   | —                   | —                     | 2.81                   | —                   |
| 1932 | 4.21                  | 4.04                   | —                   | —                     | 5.58                   | —                   |
| 1933 | 4.51                  | 4.32                   | —                   | —                     | 5.95                   | —                   |
| 1934 | 4.60                  | 4.42                   | —                   | —                     | 4.2                    | —                   |
| 1935 | 4.10                  | 3.93                   | —                   | —                     | 5.01                   | —                   |
| 1936 | 3.81                  | 3.65                   | —                   | —                     | 2.82                   | —                   |
| 1937 | 3.23                  | 3.11                   | —                   | —                     | 5.3                    | —                   |
| 1938 | 3.08                  | 2.97                   | —                   | —                     | 2.03                   | —                   |
| 1939 | 2.93                  | 2.82                   | —                   | —                     | 3.07                   | —                   |
| 1940 | —                     | 2.6                    | 2.16                | —                     | 3.8                    | 3.2                 |
| 1941 | —                     | 2.76                   | 2.23                | —                     | 2.10                   | 1.26                |
| 1942 | —                     | 2.17                   | 1.01                | —                     | 3.44                   | 3.09                |
| 1943 | —                     | 2.29                   | 1.84                | —                     | 3.6                    | 2.7                 |
| 1944 | —                     | 1.93                   | 1.53                | —                     | 2.79                   | 2.24                |
| 1945 | —                     | 1.79                   | 1.44                | —                     | 4.32                   | 3.56                |
| 1946 | —                     | 1.43                   | 1.24†               | —                     | 1.36*                  | 1.36**              |

† Sepsis ... 0.18      \*\* Sepsis ... 0.226  
 Other causes ... 1.06      Other causes ... 1.133  
 \* No abortions.

**Puerperal  
Pyrexia.**

Total notifications, 77 ; belonging to Plymouth, 59.

Rate per 1,000 total births, 13.49. (England and Wales, 8.50).

| <i>Year.</i> | <i>No. of cases notified.<br/>P.P.</i> |
|--------------|--|
| 1938         | 67                                     |
| 1939         | 48                                     |
| 1940         | 59                                     |
| 1941         | 39                                     |
| 1942         | 29                                     |
| 1943         | 41                                     |
| 1944         | 49                                     |
| 1945         | 36                                     |
| 1946         | 77                                     |

**Mothers' Advice  
Clinic.**

A weekly afternoon session is held by a voluntary organisation at our Beaumont Hut Centre.

|                                |     |     |     |     |     |       |
|--------------------------------|-----|-----|-----|-----|-----|-------|
| No. of clinics held            | ... | ... | ... | ... | ... | 48    |
| New cases                      | ... | ... | ... | ... | ... | 237   |
| (Sent by Health Authority, 36) |     |     |     |     |     |       |
| No. of return visits           | ... | ... | ... | ... | ... | 714   |
| No. dealt with by post         | ... | ... | ... | ... | ... | 390   |
|                                |     |     |     |     |     | <hr/> |
|                                |     |     |     |     |     | 1,104 |
|                                |     |     |     |     |     | <hr/> |
| No. seen by Doctor             | ... | ... | ... | ... | ... | 494   |
| (includes all new patients)    |     |     |     |     |     |       |

**Day Nurseries.** Our two day nurseries seemed to be needed as much as ever and have had a successful year.

|  |     |     |     |     |     |      |
|--|-----|-----|-----|-----|-----|------|
| <b>HOE STREET.</b> Accommodates 40 children.     |     |     |     |     |     |      |
| No. of children admitted during the year         | ... | ... | ... | ... | ... | 55   |
| No. of children discharged during the year       | ... | ... | ... | ... | ... | 57   |
| Average daily attendance                         | ... | ... | ... | ... | ... | 29.8 |
| <b>NELSON GARDENS.</b> Accommodates 45 children. |     |     |     |     |     |      |
| No. of children admitted during the year         | ... | ... | ... | ... | ... | 38   |
| No. of children discharged during the year       | ... | ... | ... | ... | ... | 32   |
| Average daily attendance                         | ... | ... | ... | ... | ... | 33.3 |

There was a small outbreak of mumps at Nelson Gardens in September ; there were two cases of chicken pox, one of mumps and one of whooping cough at Hoe Street, but apart from that, the day nurseries remained free from infectious diseases, and the health of the children generally was very good.

**Queen's Gate Residential Children's Nursery.** On the 21st May, 1946, the children and staff at Warleigh House were transferred to 4 and 5 Queen's Gate and Warleigh Nursery was closed.

There is accommodation at Queen's Gate Nursery for sixteen under two, and sixteen two-to-five year olds.

|  | <i>Under 2<br/>years.</i> | <i>Over 2<br/>years.</i> | <i>Total.</i> |
|--|---------------------------|--------------------------|---------------|
| No. admitted during the year :—                |                           |                          |               |
| Court Order ... ..                             | 6                         | 3                        | 9             |
| Relieving Officer's order ... ..               | 15                        | 1                        | 16            |
| Others ... ..                                  | 44                        | 26                       | 70            |
| No. discharged (includes 1 boarded out) ... .. | 44                        | 42                       | 86            |
| No. in residence 31.12.46 ... ..               | 19                        | 15                       | 34            |

Many applications for admission have had to be refused.

**Nursery Students.** During the year our three nurseries became recognised as training nurseries for the Certificate of the National Nursery Examination Board, and on 14th October, sixteen students started their training, four being attached to each Day Nursery, and eight to Queen's Gate Residential Nursery. The Course of training covers a period of two years and consists of :—

(a) practical work and training in the Nurseries themselves ;  
and

(b) the further education of the girls in vocational and general subjects under arrangements made by the Local Education Authority.

A Course tutor was appointed and is resident at Queen's Gate.

# Sanitary Circumstances of the Area

REPORT OF THE CHIEF SANITARY INSPECTOR.

MR. C. E. SANDERSON.

**Water Supply.** The water supply for the City, which is an upland surface one, was adequate in quantity during the year, an extremely wet year.

**Plumbo Solvency.** The soft acid water from the upland surface supply has a plumbo solvent action, although on only rare occasions in recent years has the presence of lead been detected. Since 15th July, 1946, 4 cwts of lime per day have been added to the water supply, and this was done largely because of the presence of copper staining on baths and lavatory basins supplied from the hot water system. The addition of this lime has raised the pH from an average of 6.6 to between 7.0 and 7.5. Water from the same source which is supplied to the Yelverton area was treated with 0.5 grains per gallon of sodium carbonate and the pH maintained between 7.0 and 7.2.

**Purification.** Although the supply is not filtered there is a continuous application of chlorine gas in 2.0 parts per million. The estimate population supplied is 183,000, plus service personnel and all supplies are piped to houses.

**Chemical Analysis.**

Sixteen samples of water were submitted for chemical analysis, and all gave satisfactory results.

The following table gives a representative summary of the results of samples sent for chemical analysis, the figures representing parts per 100,000 :—

|  | <i>March.</i> | <i>June.</i> | <i>October.</i> | <i>December.</i> |
|--|---------------|--------------|-----------------|------------------|
| Temporary Hardness ...                 | 0.4           | 2.4          | 0.2             | 0.3              |
| Permanent Hardness ...                 | 2.6           | 3.4          | 3.2             | 4.7              |
| Total Hardness ...                     | 3.0           | 5.8          | 3.4             | 5.0              |
| Chlorides as Chlorine ...              | 1.6           | 1.3          | 1.3             | 1.7              |
| Ammonia free and saline as nitrogen... | Nil.          | Nil.         | 0.002           | 0.003            |
| Ammonia, albuminoid as nitrogen...     | 0.0024        | 0.012        | 0.013           | 0.009            |
| Nitrates as nitrogen ...               | Nil.          | 0.02         | 0.02            | 0.02             |
| Nitrites as nitrogen ...               | Nil.          | Nil.         | Nil.            | Nil.             |
| Oxygen (absorbed 3 hrs. at 37° C.)     | 0.076         | 0.12         | 0.21            | 0.2              |
| Metals (zinc, copper and lead)         | Absent        | Absent       | Absent          | Absent           |
| pH value ...                           | 6.5           | 6.4          | 7.0             | 7.3              |

**Bacteriological Examination of Water.**

Five hundred and forty-two samples of water were submitted for bacteriological examination, a summary of results being shown in the following table :—

**SAMPLES OF WATER SUBMITTED FOR BACTERIOLOGICAL EXAMINATION DURING 1946**

| <i>Source</i>   | <i>Samples submitted to the Prince of Wales's Hospital Laboratory</i> |                                   |                                  | <i>Samples submitted to the County Bacteriologist, Exeter</i> |                                   |                                  |
|---|---|-----------------------------------|----------------------------------|---|-----------------------------------|----------------------------------|
|   | <i>Total No. samples</i>  | <i>B. Coli present in 100 ml.</i> | <i>B. Coli absent in 100 ml.</i> | <i>Total No. samples</i>                                      | <i>B. Coli present in 100 ml.</i> | <i>B. Coli absent in 100 ml.</i> |
| From premises inside the City, supplied by City mains | 373   | 82                                | 291                              | 94  | 69                                | 25                               |
| From Bathing Pools inside the City                    | 54  | 26                                | 28                               | —   | —                                 | —                                |
| From premises outside the City supplied by City mains | 14  | 3                                 | 11                               | 1   | —                                 | 1                                |
| From Mains supply prior to Chlorinization (Raw Water) | 6   | 3                                 | 3                                | —   | —                                 | —                                |
| <b>Grand Totals</b>                                   | <b>447</b>  | <b>114</b>                        | <b>333</b>                       | <b>95</b>   | <b>69</b>                         | <b>26</b>                        |

## SANITARY INSPECTION OF THE AREA

The sanitary inspection of the City proceeded throughout the year with a depleted staff of sanitary inspectors.

**Complaints received.** The number of complaints of nuisances and housing defects continued to increase, the following table showing the extent of the increase in the number of complaints during the past five years:—

| <i>Year</i>                   | 1942 | 1943 | 1944 | 1945 | 1946 |
|-------------------------------|------|------|------|------|------|
| Number of complaints received | 1080 | 1319 | 1704 | 1916 | 2658 |

A total of 2,658 complaints received were investigated.

The large majority of complaints referred to housing defects. Difficulty continued to be experienced in arranging expeditious abatement of nuisances, this difficulty being due mainly to the continuing shortage of labour and materials.

**Prosecutions.** In eighteen cases it was necessary to issue summonses against persons for non-compliance with Abatement Notices. Ten of these summonses were withdrawn, the nuisance having been abated before the date of hearing. Eight Nuisance Orders were made by the Court, all of which were complied with.

**PREMISES INSPECTED** The following table shows the number of inspections of various premises carried out during the year together with the number of Notices served.

| Premises Inspected   | Inspections or Visits | Intimation Notices served or Improvements required | Intimation Notices complied with or Improvements effected | Statutory Notices served during the year | Statutory Notices complied with during the year |
|--|-----------------------|--|---|--|---|
| Houses inspected (Public Health Act and Housing Act)                   | 6124                  | 3204   | —   | —  | —   |
| Houses re-inspected (Public Health Act and Housing Act) ... ..         | 16945                 | —  | 2595  | 470                                      | 360   |
| No. of premises (other than houses) inspected for nuisances ... ..     | 559                   | 99   | 86  | 1  | 1   |
| No. of owners or contractors interviewed ... ..                        | 741                   | —  | —   | —  | —   |
| No. of houses visited <i>re</i> contacts of infectious diseases ... .. | 1055                  | —  | —   | —  | —   |
| No. of houses visited <i>re</i> notifiable diseases ... ..             | 470                   | —  | —   | —  | —   |
| No. of houses visited <i>re</i> other diseases ... ..                  | 8                     | —  | —   | —  | —   |
| Accumulations ... ..   | 224                   | 75   | 70  | —  | 1   |
| Butchers and food factories ... ..                                     | 1159                  | 9  | 3   | —  | —   |
| Cinemas and amusement places ... ..                                    | 5                     | 1  | 1   | —  | —   |
| Common lodging-houses ... ..   | 40                    | 5  | —   | —  | —   |
| Cowsheds ... ..  | 156                   | 4  | 4   | —  | —   |
| Dairies and milkshops ... ..   | 583                   | 5  | 3   | —  | —   |
| Fresh fish shops ... ..  | 259                   | 13   | 9   | —  | —   |
| Fried fish and chip shops ... ..                                       | 196                   | 14   | 4   | 1  | —   |
| Fresh fish carts ... ..  | 154                   | 1  | —   | —  | —   |
| Ice-cream premises ... ..  | 165                   | —  | —   | —  | —   |
| Knackers' yards ... ..   | 11                    | —  | —   | —  | —   |
| Milk vehicles ... ..   | 190                   | —  | —   | —  | —   |
| Offensive trades ... ..  | 26                    | 1  | 2   | —  | —   |
| Outworkers ... ..  | 301                   | 1  | 1   | —  | —   |
| Premises to examine foodstuffs ... ..                                  | 955                   | 8  | 3   | 1  | —   |
| Provision shops ... ..   | 218                   | 3  | —   | —  | —   |
| Public conveniences ... ..   | 815                   | 153  | 176   | —  | —   |
| Public houses ... ..   | 49                    | 4  | 13  | —  | —   |
| Restaurants and restaurant kitchens ... ..                             | 396                   | 31   | 21  | —  | —   |
| Schools ... ..   | 20                    | 2  | 6   | —  | —   |
| Smoke observations ... ..  | 32                    | —  | 2   | —  | —   |
| Static water tanks ... ..  | 45                    | 6  | 11  | —  | —   |
| Swimming baths ... ..  | 57                    | 1  | 1   | —  | —   |
| Tents, vans and sheds ... ..   | 46                    | 7  | 2   | —  | —   |
| Tips ... ..  | 19                    | 2  | 1   | —  | —   |
| Water courses ... ..   | 17                    | —  | —   | —  | —   |
| Houses inspected for rat infestation ... ..                            | 5877                  | 279  | —   | —  | —   |
| Houses re-inspected for rat infestation ... ..                         | 1042                  | 15   | 340   | 1  | 2   |
| Premises other than houses inspected for rat infestation ... ..        | 1079                  | 68   | —   | —  | —   |
| Premises other than houses re-inspected for rat infestation ... ..     | 236                   | —  | 79  | —  | —   |
| Visits <i>re</i> Rent Restriction Acts ... ..                          | 47                    | —  | —   | —  | —   |
| Miscellaneous ... ..   | 4160                  | 40   | 41  | 4  | —   |
| Slaughter-houses ... ..  | 2890                  | —  | —   | —  | —   |





**Result of  
Service of  
Notices.**

Owing to the continuing shortage of labour and materials, specifications in Notices referred only to essential repairs.

The nature and extent of nuisances abated and works executed are as follows :—

**HOUSES :**

|  |     |
|--|-----|
| Walls repaired ... ..                            | 87  |
| Outside plastering repaired ... ..               | 178 |
| Inside plastering repaired ... ..                | 535 |
| Floors renewed or repaired ... ..                | 236 |
| Floors ventilated ... ..                         | 25  |
| Roofs renewed or repaired ... ..                 | 751 |
| Chutes, downpipes or gutters renewed or repaired | 247 |
| Chimneys repaired ... ..                         | 74  |
| Ceilings repaired ... ..                         | 309 |
| Doors and frames repaired ... ..                 | 75  |
| Lighting and ventilation of rooms improved ...   | 11  |
| Window sashes or frames renewed or repaired ...  | 261 |
| Window cords renewed ... ..                      | 246 |
| Staircases repaired ... ..                       | 11  |
| Grates or ovens repaired or renewed ... ..       | 122 |
| Boilers provided or repaired ... ..              | 47  |
| Food stores provided or repaired ... ..          | 2   |
| Wash-houses provided or improved ... ..          | 31  |
| Outbuildings repaired... ..                      | 4   |
| Obstructive buildings demolished ... ..          | 2   |
| Walls or ceilings cleansed and redecorated ...   | 256 |
| Bedding cleansed or destroyed ... ..             | 15  |
| Yard paving relaid or repaired ... ..            | 55  |
| Nuisances from animals abated ... ..             | 23  |
| Accumulations removed ... ..                     | 129 |
| Ash bins provided ... ..                         | 207 |
| Water supply provided ... ..                     | 10  |
| Water taps or pipes repaired ... ..              | 79  |
| Water samples taken for analysis ... ..          | 481 |
| Miscellaneous repairs and nuisances abated ...   | 306 |
| Damp-proof courses inserted ... ..               | 1   |

**DRAINAGE :**

|  |     |
|--|-----|
| Drains tested, smoke ... ..                        | 89  |
| New drains constructed ... ..                      | 18  |
| Drains relaid ... ..                               | 25  |
| Drains repaired ... ..                             | 108 |
| Drains cleansed ... ..                             | 457 |
| Inspection or intercepting chambers provided ...   | 29  |
| Inspection or intercepting chambers repaired ...   | 21  |
| Intercepting traps fixed ... ..                    | 12  |
| Soil pipes or ventilating shafts fixed or repaired | 27  |
| Gullies fixed ... ..                               | 44  |
| Troughs provided ... ..                            | 20  |
| Troughs trapped or waste pipes repaired ... ..     | 52  |
| Bath wastes trapped or repaired .. ..              | 7   |
| Lavatory basins trapped or waste pipes repaired    | 16  |
| Drain inlets inside house abolished ... ..         | 3   |

|   |     |     |     |     |     |         |
|---|-----|-----|-----|-----|-----|---------|
| <b>WATER-CLOSETS :</b>  |     |     |     |     |     |         |
| Additional W.C.s provided   | ... | ... | ... | ... | ... | 17      |
| W.C.s reconstructed   | ... | ... | ... | ... | ... | 15      |
| Lighting and ventilation improved   | ... | ... | ... | ... | ... | 4       |
| New pans and traps fixed  | ... | ... | ... | ... | ... | 165     |
| W.C.s cleansed  | ... | ... | ... | ... | ... | 12      |
| Flushing apparatus provided   | ... | ... | ... | ... | ... | 20      |
| Flushing apparatus repaired   | ... | ... | ... | ... | ... | 150     |
| Miscellaneous repairs   | ... | ... | ... | ... | ... | 117     |
| <b>ERADICATION OF BED BUGS :</b>  |     |     |     |     |     |         |
| No. of houses infested with bed bugs  | ... | ... | ... | ... | ... | 154     |
| No. of houses disinfested by insecticides   | ... | ... | ... | ... | ... | 154     |
| No. of families' furniture disinfested  | ... | ... | ... | ... | ... | 61      |
| <b>CESSPOOLS :</b>  |     |     |     |     |     |         |
| Emptied   | ... | ... | ... | ... | ... | 6       |
| Other repairs   | ... | ... | ... | ... | ... | 3       |
| <b>RAT DESTRUCTION :</b>  |     |     |     |     |     |         |
| Baits laid in sewers  | ... | ... | ... | ... | ... | 16,348  |
| Baits taken in sewers   | ... | ... | ... | ... | ... | 6,164   |
| Baits laid elsewhere  | ... | ... | ... | ... | ... | 164,307 |
| Baits taken elsewhere   | ... | ... | ... | ... | ... | 47,863  |
| <b>TENTS, VANS, SHEDS :</b>   |     |     |     |     |     |         |
| Removed   | ... | ... | ... | ... | ... | 2       |
| <b>URINALS :</b>  |     |     |     |     |     |         |
| Lighting and ventilation improved   | ... | ... | ... | ... | ... | 2       |
| Flushing apparatus fixed or repaired  | ... | ... | ... | ... | ... | 43      |
| Walls repaired or made impervious   | ... | ... | ... | ... | ... | 3       |
| Other repairs   | ... | ... | ... | ... | ... | 73      |
| <b>EARTH OR PAIL CLOSETS :</b>  |     |     |     |     |     |         |
| Provided  | ... | ... | ... | ... | ... | 1       |
| Abolished   | ... | ... | ... | ... | ... | 2       |
| Cleansed or repaired  | ... | ... | ... | ... | ... | 1       |
| <b>DAIRIES, COWSHEDS AND MILKSHOPS :</b>  |     |     |     |     |     |         |
| No. of premises registered  | ... | ... | ... | ... | ... | —       |
| Designated Milk Licences issued   | ... | ... | ... | ... | ... | 31      |
| Existing dairies improved   | ... | ... | ... | ... | ... | 1       |
| Drainage improved   | ... | ... | ... | ... | ... | 1       |
| Paving repaired   | ... | ... | ... | ... | ... | 3       |
| Lighting or ventilation improved  | ... | ... | ... | ... | ... | 1       |
| Limewashing or cleansing carried out  | ... | ... | ... | ... | ... | 21      |
| Other repairs   | ... | ... | ... | ... | ... | 2       |
| <b>ICE CREAM PREMISES :</b>   |     |     |     |     |     |         |
| No. of premises registered  | ... | ... | ... | ... | ... | 9       |
| <b>FOOD SHOPS, KITCHENS AND PREMISES USED FOR PREPARATION OR MANUFACTURE OF PRESERVED FOODS :</b> |     |     |     |     |     |         |
| Accumulations removed   | ... | ... | ... | ... | ... | 6       |
| Cleanliness improved  | ... | ... | ... | ... | ... | 19      |
| Storage arrangements improved   | ... | ... | ... | ... | ... | 1       |
| Ash-bins provided   | ... | ... | ... | ... | ... | 16      |
| Washing-up sinks fixed  | ... | ... | ... | ... | ... | 2       |
| Lighting and ventilation improved   | ... | ... | ... | ... | ... | 3       |
| Other repairs   | ... | ... | ... | ... | ... | 15      |

|  |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|
| <b>FRIED FISH SHOPS :</b>                      |     |     |     |     |     |
| Cleansing carried out ...                      | ... | ... | ... | ... | 1   |
| Storage accommodation provided or improved ... | ... | ... | ... | ... | 2   |
| Other repairs ...                              | ... | ... | ... | ... | 2   |
| Ash bins provided ...                          | ... | ... | ... | ... | 2   |
| <b>OFFENSIVE TRADES :</b>                      |     |     |     |     |     |
| Accumulations removed ...                      | ... | ... | ... | ... | 1   |
| <b>KNACKERS' YARDS :</b>                       |     |     |     |     |     |
| Cleanliness improved ...                       | ... | ... | ... | ... | 1   |
| Other repairs ...                              | ... | ... | ... | ... | 1   |
| <b>STABLES :</b>                               |     |     |     |     |     |
| Limewashing carried out ...                    | ... | ... | ... | ... | 1   |
| <b>BACK LANES :</b>                            |     |     |     |     |     |
| Accumulations removed ...                      | ... | ... | ... | ... | 64  |
| Surfaces repaired ...                          | ... | ... | ... | ... | 1   |
| <b>REFERENCES TO OTHER DEPARTMENTS :</b>       |     |     |     |     |     |
| To the City Engineer ...                       | ... | ... | ... | ... | 225 |
| To the Water Engineer ...                      | ... | ... | ... | ... | 20  |
| To the Housing Estates Manager ...             | ... | ... | ... | ... | 845 |
| To the Director of Education ...               | ... | ... | ... | ... | 10  |
| To other Departments ...                       | ... | ... | ... | ... | 350 |

**Rats and Mice Destruction.** The number of complaints of rat infestation received during the year was 369. This compares with 444 received during the year 1945, and 610 during 1944. From this it would appear that some success has attended rat destruction operations.

The systematic treatment of both surface infestations and sewers continued during the year.

8,234 inspections of premises were carried out in connection with rat infestation, 6,919 of these inspections being applied to house property and 1,315 inspections being made of other premises.

It was necessary to serve 279 notices requiring rat-proofing of premises, all of which were complied with at the end of the year.

## HOUSING.

### 1. INSPECTION OF DWELLING-HOUSES DURING THE YEAR:—

|     |     |  |       |
|-----|-----|--|-------|
| (1) | (a) | Total number of dwelling-houses inspected for defects (under Public Health or Housing Acts) ... ..   | 6124  |
|     | (b) | Number of inspections made for the purpose ... ..  | 23069 |
| (2) | (a) | Number of dwelling-houses (included in sub-head (1) above) which were inspected and recorded under the Housing Consolidated Regulations, 1925 and 1932 ... ..      | 63    |
|     | (b) | Number of inspections made for the purpose ... ..  | 218   |
| (3) |     | Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation ... ..                                    | 44    |
| (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 ... .. | 3020  |

### 2. REMEDY OF DEFECTS DURING THE YEAR WITHOUT SERVICE OF FORMAL NOTICES:—

|  |      |
|--|------|
| Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers ... .. | 2595 |
|--|------|

### 3. ACTION UNDER STATUTORY POWERS DURING THE YEAR:—

#### (a) Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936:

|     |  |     |
|-----|--|-----|
| (1) | Number of dwelling-houses in respect of which notices were served requiring repairs ... .. | Nil |
| (2) | Number of dwelling-houses which were rendered fit after service of formal notices:         |     |
|     | (a) By owners ... ..   | 2   |
|     | (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 ... .. | 443 |
| (2) | Number of dwelling-houses in which defects were remedied after service of formal notices:                 |     |
|     | (a) By owners ... ..  | 328 |
|     | (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 ... .. | 11 |
| (2) Number of dwelling-houses demolished in pursuance of Demolition Orders ... ..    | 3  |

(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 ... ..   | 16  |
| (2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or rooms having been rendered fit ... .. | Nil |
| (3) Number of Undertakings not to use unfit houses accepted ... ..  | 12  |

4. HOUSING ACT, 1936. PART IV—OVERCROWDING :—

|   |      |
|---|------|
| (a) (1) Number of dwellings overcrowded at the end of the year          | 597  |
| (2) Number of families dwelling therein ... ..                          | 684  |
| (3) Number of persons dwelling therein ... ..                           | 2815 |
| (b) Number of new cases of overcrowding during the year                 | 426  |
| (c) (1) Number of cases of overcrowding relieved during the year ... .. | 133  |
| (2) Number of persons concerned in such cases ... ..                    | 394  |

Having regard to the extent of war damage to house property and the consequent dispersal of population, there is no doubt that the above-mentioned figures do not reflect the true state of overcrowding in the City.

**Factories.** Details of the sanitary inspection of factories under the Factories Act, 1937, are given in the following tables :—

1. Inspections :—

| <i>Premises.</i>                   | <i>Number of</i>    |                         |                              |
|------------------------------------|---------------------|-------------------------|------------------------------|
|                                    | <i>Inspections.</i> | <i>Written Notices.</i> | <i>Occupiers prosecuted.</i> |
| Factories with mechanical power    | 388                 | 23                      | —                            |
| Factories without mechanical power | 209                 | 9                       | —                            |

## 2. Defects found.

| <i>Particulars.</i>            | <i>Number of Defects.</i> |                  |                                    | <i>No. of defects in respect of which prosecutions were instituted</i> |
|--------------------------------|---------------------------|------------------|------------------------------------|--|
|                                | <i>Found.</i>             | <i>Remedied.</i> | <i>Referred to H.M. Inspector.</i> |  |
| Want of cleanliness ...        | 8                         | 8                | —                                  | —  |
| Overcrowding ...               | —                         | —                | —                                  | —  |
| Unreasonable temperature ...   | —                         | —                | —                                  | —  |
| Inadequate ventilation ...     | —                         | —                | —                                  | —  |
| Ineffective drainage of floors | —                         | —                | —                                  | —  |
| Sanitary Conveniences—         |                           |                  |                                    |  |
| insufficient ...               | 1                         | 1                | —                                  | —  |
| unsuitable or defective        | 2                         | 2                | —                                  | —  |
| not separate for sexes         | 1                         | 1                | —                                  | —  |
| Other offences ...             | 5                         | 5                | —                                  | —  |

**Cremations.** The number of cremations during the year 1946 was 942. Of this number 217 were in respect of residents of the City of Plymouth.

Up to the end of 1946 a total of 5,892 cremations were carried out since the Crematorium opened in 1934.

### INSPECTION AND SUPERVISION OF FOOD.

**Bacteriological Examination of Milk Supplies.** 590 samples of milk were submitted for bacteriological examination, of which 534 were found to be satisfactory, and 56 in an unsatisfactory state of cleanliness.

In addition, 364 samples were submitted to the Phosphatase Test, 4 being unsatisfactory.

The following tables show the number and results of samples submitted to :—

- (1) Methylene Blue Test.
- (2) Bacteriological Count and B. Coli Test.
- (3) Phosphatase Test.

(1) Methylene Blue Test :

| <i>Description of Milk.</i>            | <i>Total No. of Samples.</i> | <i>Satisfactory.</i> | <i>Unsatisfactory.</i> |
|--|------------------------------|----------------------|------------------------|
| Tuberculin Tested (Certified) Milk ... | 282                          | 242                  | 40                     |
| Accredited Milk ...                    | 23                           | 17                   | 6                      |
| Sterilised Milk ...                    | 3                            | 3                    | —                      |
| Heat Treated Milk ...                  | 3                            | 3                    | —                      |
| Pasteurised Milk ...                   | 215                          | 200                  | 6                      |
| Tuberculin Tested ...                  | 8                            | 8                    | —                      |
| Totals ...                             | 534                          | 473                  | 52                     |

(2) Bacteria Count and B. Coli Test :

| <i>Description of Milk.</i>            | <i>Total No. of Samples.</i> | <i>Satisfactory.</i> | <i>Unsatisfactory.</i> |
|--|------------------------------|----------------------|------------------------|
| Pasteurised Milk ...                   | 20                           | 20                   | —                      |
| Tuberculin Tested (Certified) Milk ... | 33                           | 31                   | 2                      |
| Sterilised Milk ...                    | —                            | —                    | —                      |
| Accredited Milk ...                    | 3                            | 1                    | 2                      |
| Totals ...                             | 56                           | 52                   | 4                      |



(3) Phosphatase Test :

| <i>Description of Milk.</i> | <i>Total No. of Samples.</i> | <i>Satisfactory.</i> | <i>Unsatisfactory.</i> |
|-----------------------------|------------------------------|----------------------|------------------------|
| Pasteurised Milk ...        | 332                          | 329                  | 3                      |
| Sterilised Milk ...         | 32                           | 31                   | 1                      |
| Totals ...                  | 364                          | 360                  | 4                      |

**Examination of Milk for Tubercle Bacilli.** 74 samples of milk were examined biologically for the presence of Tubercle Bacilli, none being found positive.

**Licences under the Milk (Special Designations) Order, 1936.** The following table shows the number of licences to use the various designations applied to milk issued during the year :

| <i>Description of Licence.</i>                                      | <i>No. issued</i> |
|---|-------------------|
| Pasteuriser's licences (" Holder " Process) ... ..                  | 4                 |
| Pasteuriser's licences (High Temperature Short Time Process) ... .. | 1                 |
| Retail Tuberculin Tested licences ... ..                            | 21                |
| Accredited Producer's licences ... ..                               | 2                 |
| Retail Pasteurised licences ... ..                                  | 2                 |
| Tuberculin Tested Bottling licence ... ..                           | 1                 |
| <b>Total ... ..</b>   | <b>31</b>         |

FOOD AND DRUGS SAMPLES REPORTED NOT GENUINE

| <i>Article.</i>        | <i>Nature of Adulteration.</i>   | <i>Action taken.</i>                             |
|------------------------|--|--|
| Raw Milk ... ..        | Contained 6% of added water.   | Legal Proceedings instituted.<br>Case dismissed. |
| Raw Milk ... ..        | Contained 5% of added water.   | do.  |
| Tincture of Iodine ... | Contained an excess of 11% of iodine and an excess of 14% of potassium iodide.                     | Letter of caution.                               |
| Raw Milk ... ..        | 21% deficient in milk fat  | Fined £2 and £1 1s.<br>Costs.                    |
| Raw Milk ... ..        | Contained 4% of added water.   | Fined £1.  |
| Raw Milk ... ..        | Contained 8% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 4% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 2% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 1% of added water.   | Letter of caution.                               |
| Tincture of Iodine ... | Contained an excess of 32% of iodine and 34% of potassium of iodide.                               | Letter of caution.                               |
| Raw Milk ... ..        | 2% deficient in milk fat ...   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 2% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 5% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 3% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 1% of added water.   | Letter of caution.                               |
| Raw Milk ... ..        | Contained 3% of added water.   | Letter of caution.                               |
| Non-brewed Vinegar     | 7% deficient in Acetic Acid  | Letter of caution.                               |
| Orange Squash ...      | 12% deficient in crystalline Citric Acid.  | Informal sample.                                 |
| Raspberry Jam .        | Contained an excess of 240 parts per million of Sulphur Dioxide.                                   | Letter of caution.                               |
| Tincture of Iodine ... | Contained an excess of 11% iodine and 11% of potassium iodide.                                     | Letter of caution.                               |
| Tincture of Iodine ... | Contained an excess of 113% of iodine and 44% of potassium iodide.                                 | Letter of caution.                               |
| Zinc Ointment ...      | Contained an excess of 15% of zinc oxide.  | Letter of caution.                               |
| Ginger Cordial ...     | 14% deficient in Crystalline Citric Acid.  | Informal sample.                                 |
| Dried Full Cream Milk  | 40% deficient in sugar.<br>25% deficient in saccharin<br>Consisted of Dried Machine Skim med Milk. | Informal sample.                                 |

During the year, in following up samples of milk below the standard, twelve "Appeal to Cow" samples were taken from four farms.

| <i>Initial Sample</i>        |                              |                     | <i>"Appeal to Cow" Sample</i>  |                           |
|------------------------------|------------------------------|---------------------|--------------------------------|---------------------------|
| <i>Non-fatty solids</i>      | <i>Milk-fat</i>              | <i>Observations</i> | <i>Non-fatty solids</i>        | <i>Milk-fat</i>           |
| 7.99<br>8.07                 | 3.32<br>3.04                 |                     | { 8.95                         | 4.251                     |
| 8.16<br>8.33<br>8.41         | 3.62<br>3.37<br>3.35         |                     | { 8.31<br>8.51<br>8.59         | 3.41<br>3.13<br>2.84      |
| 9.04                         | 2.94                         |                     | { 9.1<br>9.38<br>9.3<br>9.44   | 3.55<br>3.3<br>3.4<br>3.7 |
| 8.07<br>8.24<br>8.41<br>8.24 | 3.71<br>3.35<br>3.29<br>3.52 |                     | { 8.54<br>8.59<br>8.84<br>8.62 | 3.3<br>3.43<br>3.3<br>3.6 |

FOOD AND DRUGS.

**Adulteration, etc.** The various samples of food and drugs submitted for analysis during the year are classified in the following table, together with the number of the various articles which were found to be adulterated:—

SAMPLES TAKEN UNDER THE FOOD AND DRUGS ACT.

| Articles                               | Official Samples |             | Informal Samples |             | Total No. |
|--|------------------|-------------|------------------|-------------|-----------|
|  | Genuine          | Adulterated | Genuine          | Adulterated |           |
| Aspirin tablets ...                    | —                | —           | 13               | —           | 13        |
| Apple juice ...                        | —                | —           | 1                | —           | 1         |
| Butter ...                             | —                | —           | 21               | —           | 21        |
| Beer ...                               | —                | —           | 6                | —           | 6         |
| Baking powder ...                      | —                | —           | 5                | —           | 5         |
| Choc Malt Spread ...                   | —                | —           | 1                | —           | 1         |
| Coffee ...                             | —                | —           | 14               | —           | 14        |
| Cocoa ...                              | —                | —           | 10               | —           | 10        |
| Camphorated oil ...                    | —                | —           | 12               | —           | 12        |
| Castor oil ...                         | —                | —           | 12               | —           | 12        |
| Cod-liver oil ...                      | —                | —           | 6                | —           | 6         |
| Cheese ...                             | —                | —           | 20               | —           | 20        |
| Cordials ...                           | —                | —           | 13               | 2           | 15        |
| Condensed machine-skimmed milk ...     | —                | —           | 2                | —           | 2         |
| Condensed full-cream milk ...          | —                | —           | 7                | —           | 7         |
| Coffee and chicory ...                 | —                | —           | 5                | —           | 5         |
| Cooking fat ...                        | —                | —           | 14               | —           | 14        |
| Crab dressing ...                      | —                | —           | 3                | —           | 3         |
| Dried machine-skimmed milk ...         | —                | —           | 1                | —           | 1         |
| Dried full-cream milk ...              | —                | —           | 1                | 1           | 2         |
| Dried egg ...                          | —                | —           | 1                | —           | 1         |
| Dandelion coffee essence ...           | —                | —           | 3                | —           | 3         |
| Epsom salts ...                        | —                | —           | 5                | —           | 5         |
| Flavourings ...                        | —                | —           | 16               | —           | 16        |
| Ground spices ...                      | —                | —           | 5                | —           | 5         |
| Glycerine ...                          | —                | —           | 3                | —           | 3         |
| Golden raising powder ...              | —                | —           | 1                | —           | 1         |
| Gelatine ...                           | —                | —           | 7                | —           | 7         |
| Ice cream powder ...                   | —                | —           | 7                | —           | 7         |
| Jam ...                                | —                | —           | 1                | 1           | 2         |
| Lard ...                               | —                | —           | 6                | —           | 6         |
| Malt Cup ...                           | —                | —           | 1                | —           | 1         |
| Malt vinegar ...                       | —                | —           | 8                | —           | 8         |
| Marmalade ...                          | —                | —           | 1                | —           | 1         |
| Margarine ...                          | —                | —           | 20               | —           | 20        |
| Meat and fish paste ...                | —                | —           | 19               | —           | 19        |
| Meat and vegetable extract ...         | —                | —           | 10               | —           | 10        |
| Mustard ...                            | —                | —           | 5                | —           | 5         |
| Malt and Cod Liver Oil ...             | —                | —           | 3                | —           | 3         |
| Magnesia ...                           | —                | —           | 4                | —           | 4         |
| Pepper ...                             | —                | —           | 4                | —           | 4         |
| Pasteurised milk ...                   | 22               | —           | 8                | —           | 30        |
| Raw milk ...                           | 82               | 14          | 2                | —           | 98        |
| Sausages ...                           | —                | —           | 16               | —           | 16        |
| Sugar ...                              | —                | —           | 24               | —           | 24        |
| Stomach tablets ...                    | —                | —           | 1                | —           | 1         |
| Soups (tinned) ...                     | —                | —           | 20               | —           | 20        |
| Sterilised milk ...                    | 1                | —           | —                | —           | 1         |
| Self-raising flour ...                 | —                | —           | 4                | —           | 4         |
| Saccharin tablets ...                  | —                | —           | 15               | —           | 15        |
| Tuberculin-tested pasteurised milk ... | 4                | —           | —                | —           | 4         |
| Table jelly ...                        | —                | —           | 1                | —           | 1         |
| Tincture of iodine ...                 | —                | —           | 10               | 4           | 14        |
| Tea ...                                | —                | —           | 7                | —           | 7         |
| Vinegar ...                            | —                | —           | 3                | 1           | 4         |
| Whisky ...                             | —                | —           | 1                | —           | 1         |
| Zinc ointment ...                      | —                | —           | 4                | 1           | 5         |
| Totals                                 | 109              | 14          | 413              | 10          | 546       |

| Category      | Item     | Quantity | Unit   | Value |
|---------------|----------|----------|--------|-------|
| Foods         | Wheat    | 100      | kg     | 1000  |
|               | Rice     | 50       | kg     | 500   |
|               | Beans    | 20       | kg     | 200   |
|               | Apples   | 10       | kg     | 100   |
|               | Bananas  | 15       | kg     | 150   |
|               | Oranges  | 10       | kg     | 100   |
|               | Carrots  | 5        | kg     | 50    |
|               | Onions   | 5        | kg     | 50    |
|               | Potatoes | 10       | kg     | 100   |
|               | Tomatoes | 5        | kg     | 50    |
| Supplies      | Flour    | 50       | kg     | 500   |
|               | Sugar    | 20       | kg     | 200   |
|               | Tea      | 10       | kg     | 100   |
|               | Coffee   | 5        | kg     | 50    |
|               | Spices   | 5        | kg     | 50    |
| Tools         | Shovels  | 10       | pieces | 100   |
|               | Pickaxes | 5        | pieces | 50    |
|               | Axes     | 5        | pieces | 50    |
| Miscellaneous | Medicine | 10       | kg     | 100   |
|               | Tools    | 5        | kg     | 50    |

The following table shows the quantities of various items  
 purchased for the purpose of the project. The items are  
 listed in the first column, and the quantities are listed  
 in the second column. The values are listed in the  
 third column.

FOODS  
 SUPPLIES  
 TOOLS  
 MISCELLANEOUS

**Inspection of Meat and Slaughter-houses.** There are four private slaughter-houses in use in the City, and these were visited on 2,890 occasions during the year.

Also 1,159 visits were made to food factories and butchers shops.

**Carcases Inspected and Condemned.** The total number of carcases inspected at the Meat Market and in the private slaughter-houses and food factories during the year was 31,373, which was made up as follows :—

|                 |     |     |     |     |        |
|-----------------|-----|-----|-----|-----|--------|
| Bovines         | ... | ... | ... | ... | 8,427  |
| Calves          | ... | ... | ... | ... | 2,796  |
| Sheep and Lambs | ... | ... | ... | ... | 20,097 |
| Pigs            | ... | ... | ... | ... | 53     |

The total weight of meat and offal condemned during the year from animals killed inside and outside the City was 367 tons 11 cwts. 3 qrs. 12 lbs. This amount was made up as follows :—

|  | <i>Cattle<br/>excluding<br/>Cows.</i> | <i>Cows.</i> | <i>Calves.</i> | <i>Sheep<br/>and<br/>Lambs.</i> | <i>Pigs.</i> |
|--|---------------------------------------|--------------|----------------|---------------------------------|--------------|
| Number killed ... ..   | 4546                                  | 3881         | 2796           | 20097                           | 53           |
| Number inspected ... ..  | 13417                                 |              | 10087          | 102804                          | 6463         |
| <i>All diseases except<br/>Tuberculosis.</i><br>Whole carcases condemned                 | 207½                                  |              | 44             | 70¼                             | 18           |
| Carcases of which some part<br>or organ was condemned                                    | 4812                                  |              | 112            | 1775                            | 45           |
| Percentage of the number in-<br>spected affected with disease<br>other than Tuberculosis | 11.8                                  | 24.0         | 1.1            | 1.7                             | 0.7          |
| <i>Tuberculosis only</i><br>Whole carcases condemned                                     | 111                                   |              | 7              | 1                               | 14           |
| Carcases of which some part<br>or organ was condemned                                    | 1371                                  |              | 2              | -                               | 379          |
| Percentage of the number<br>inspected affected with<br>Tuberculosis ... ..               | 4.1                                   | 6.1          | 0.0006         | 0.0009                          | 6.2          |

## SEIZURE OF UNSOUND MEAT.

Following the examination of meat supplied to a local hotel on which were found traces of a green dye similar to that used for marking meat found to be unfit for human consumption, an inspection of the shop from which the meat had been supplied was carried out.

In the refrigerator was found a piece of meat weighing approximately 9 lbs. distinctly marked with the green dye. There were also found in offal bins various trimmings of beef heavily stained with green dye. The meat was seized and a Justice of the Peace judged it to be unfit for human consumption and ordered its destruction.

Proceedings were instituted against the butcher for selling and also for having in his possession for sale meat which was unfit for human consumption. The defence was that the meat which had been sold was that which had been allocated, and the meat which was deposited in the shop was being kept for a friend who was to give the meat to greyhounds.

The Magistrates imposed a fine of £25 and £5 costs for selling meat unfit for human food, and dismissed the case relating to unsound meat being deposited and intended for sale for human consumption.

**Foodstuffs  
other than  
Meat  
(including  
tinned goods).**

The number of inspections made of various food premises are shown in the table on page 52a.

Arising out of these inspections, the following foodstuffs were condemned :—

| TINNED GOODS :— |     |     |     |     | <i>Tons</i> | <i>cwts.</i> | <i>qrs.</i> | <i>lbs.</i> |
|-----------------|-----|-----|-----|-----|-------------|--------------|-------------|-------------|
| Meat            | ... | ... | ... | ... | 1           | 8            | —           | 25          |
| Fish            | ... | ... | ... | ... |             | 17           | —           | 15          |
| Milk            | ... | ... | ... | ... | 1           | 4            | —           | 17          |
| Fruit           | ... | ... | ... | ... | 1           | 8            | 3           | 15          |
| Vegetables      | ... | ... | ... | ... | 1           | 3            | 2           | 15          |
| Soup            | ... | ... | ... | ... | 1           | 7            | 3           | 7           |
| Jam             | ... | ... | ... | ... | 1           | 6            | 2           | 25          |

| PROVISIONS :—                    | <i>Tons</i> | <i>cwts.</i> | <i>qrs.</i> | <i>lbs.</i> |
|----------------------------------|-------------|--------------|-------------|-------------|
| Fruit ... ..                     | 8           | 8            | 3           | 27          |
| Sweets and Chocolate ... ..      | 2           | 2            | 1           | 5           |
| Sausages and Sausage Meat ... .. |             | 12           | —           | 12          |
| Flour ... ..                     |             | 9            | 1           | 21          |
| Biscuits ... ..                  | 4           | 1            | 3           | 24          |
| Cereals ... ..                   |             | 9            | 1           | 24          |
| Cheese ... ..                    |             | 8            | —           | 11          |
| Tea ... ..                       |             |              | 1           | 16          |
| Fats ... ..                      |             | 1            | 1           | 16          |
| Various ... ..                   | 3           | 10           | 1           | 6           |

**Fish Inspection.**

The following summary indicates the quantity of fish and shell-fish inspected during the year and the quantity found to be unfit for food :—

|  | <i>Tons</i> | <i>cwts.</i> | <i>qrs.</i> | <i>lbs.</i> |
|--|-------------|--------------|-------------|-------------|
| Quantity of fish inspected ... ..                              | 1980        | 15           | —           | —           |
| Quantity of mixed fish found to be unfit for human food ... .. | 17          | 6            | 2           | 14          |
| Quantity of shell-fish found to be unfit for human food ... .. | —           | 1            | 2           | —           |



## Infectious Diseases

**Incidence.** The following table shows the incidence per 1,000 estimated civilian population of infectious diseases in Plymouth during 1946 and compares it with 1946 figures for England and Wales and County Boroughs, and the figures for the City for 1945 and 1944.

|                      | <i>Plymouth</i><br>1946 | <i>England</i><br><i>and</i><br><i>Wales,</i><br>1946 | <i>126 County</i><br><i>Boroughs</i><br><i>and</i><br><i>Great</i><br><i>Towns</i><br>1946 | <i>Plymouth</i><br>1945 | <i>Plymouth</i><br>1944 |
|----------------------|-------------------------|---|--|-------------------------|-------------------------|
| Typhoid Fever ...    | 0.00                    | 0.01  | 0.01   | 0.00                    | 0.00                    |
| Paratyphoid Fever    | 0.00                    | 0.02  | 0.02   | 0.00                    | 0.00                    |
| Cerebro-Spinal Fever | 0.04                    | 0.05  | 0.05   | 0.02                    | 0.07                    |
| Scarlet Fever ...    | 1.29                    | 1.38  | 1.51   | 2.04                    | 1.35                    |
| Whooping Cough ...   | 1.94                    | 2.28  | 2.48   | 2.34                    | 1.05                    |
| Diphtheria ...       | 0.38                    | 0.28  | 0.32   | 1.00                    | 1.13                    |
| Erysipelas ...       | 0.32                    | 0.22  | 0.25   | 0.39                    | 0.27                    |
| Smallpox ...         | 0.00                    | 0.00  | 0.00   | 0.00                    | 0.00                    |
| Measles ...          | 1.22                    | 3.92  | 4.73   | 16.80                   | 0.45                    |
| Pneumonia ...        | 1.05                    | 0.89  | 1.02   | 0.32                    | 1.29                    |

The table on page 68 shows the number of notifications received for each disease, classified by age groups. It also shows the percentages notified in each age group of the total of each disease.

The number of cases of Diphtheria in the City during the year is the lowest we have yet experienced, but as will be seen from the above table it does not compare too favourably with other County Boroughs and England and Wales. This low figure is undoubtedly mainly due to the increase in the numbers of children receiving immunisation treatment against Diphtheria. The section dealing with this will be found in the following pages.

Notifications of Gastro-enteritis (under 2 years of age) showed a drop of 61 on the previous year, and there were only 7 deaths from that disease compared with 25 deaths in 1945.

The quarterly incidence of Infectious Diseases is shown in the table on page 75.

**Diphtheria  
Immunisation.**

Reorganisation of the method of record keeping to comply with Ministry of Health Circular 194/45 revealed a lower level of protection of the child population than was previously estimated.

During 1946 the position improved slightly as shown in Table A, and the present level of protection stands at 35% under 5 years of age and 64% in the 5-15 years group (including full and waning protection, but not including those who failed to complete the course of immunising injections and who cannot be considered to be protected in any way). Table A shows the year's progress.

TABLE A.

SHOWING PROGRESS IN PROTECTING THE CHILD POPULATION AGAINST DIPHTHERIA DURING 1946.

|                |  | 31st<br>Dec.,<br>1945. | 31st<br>Dec.,<br>1946. | Increase<br>during<br>1946. |
|----------------|--|------------------------|------------------------|-----------------------------|
|                | Child population under 5 years of age  | 14,370                 | 15,960                 | 1,590                       |
| 0-5<br>Years.  | Number of such children who have received course of immunising injections ... ..                       | 4,317                  | 5,662                  | 1,345                       |
|                | Percentage of population under 5 years of age who have received course of immunising injections ... .. | 30%                    | 35%                    | 5%                          |
|                | Child population aged 5-15 years ...   | 23,720                 | 24,850                 | 1,130                       |
| 5-15<br>Years. | Number of such children who have received course of immunising injections ... ..                       | 13,819                 | 15,960                 | 2,141                       |
|                | Percentage of population aged 5-15 years who have received course of immunising injections ... ..      | 58%                    | 64%                    | 6%                          |

The provision of diphtheria immunisation in Plymouth through the City's Infant Welfare Service began in 1927, and was extended to the School Health Service in 1931. Thus the townsfolk were aware of this protective measure, and many mothers realised its great value when the nation-wide diphtheria immunisation campaign started in 1940.

Table B shows the work done in the last sixteen years in Plymouth towards protecting the child population along with the trend in diphtheria cases and deaths in the same period.

TABLE B.

TO SHOW WORK DONE IN DIPHTHERIA IMMUNISATION IN THE LAST SIXTEEN YEARS AND THE TREND OF DIPHTHERIA CASES AND DEATHS IN THE SAME PERIOD.

| Year. | Total Births. | Diphtheria. Total of |         | Primary Diphtheria Immunisations. |             | Total No. 0-15. | *Total immunised expressed as percentage of births in previous years | Population. |
|-------|---------------|----------------------|---------|-----------------------------------|-------------|-----------------|--|-------------|
|       |               | Cases.               | Deaths. | Ages. 0-5.                        | Ages. 5-15. |                 |  |             |
| 1930  | 3421          | —                    | —       | —                                 |             | —               | —  | —           |
| 1931  | 3427          | 367                  | 17      | 1282                              |             | 1282            | 38%  | 191,800     |
| 1932  | 3251          | 444                  | 20      | 1107                              |             | 1107            | 32%  | 208,440†    |
| 1933  | 3232          | 337                  | 18      | 972                               |             | 972             | 30%  | 206,200†    |
| 1934  | 3203          | 376                  | 15      | 335                               | 363         | 698             | 22%  | 203,450†    |
| 1935  | 3065          | 481                  | 23      | 874                               | 1244        | 2118            | 66%  | 203,600†    |
| 1936  | 3061          | 455                  | 40      | 662                               | 1104        | 1766            | 58%  | 206,400†    |
| 1937  | 3073          | 272                  | 17      | 500                               | 1035        | 1535            | 50%  | 210,460†    |
| 1938  | 3305          | 357                  | 15      | 430                               | 707         | 1137            | 37%  | 211,800†    |
| 1939  | 3446          | 404                  | 25      | 568                               | 615         | 1183            | 36%  | 215,500†    |
| 1940  | 3295          | 1361                 | 105     | 2812                              | 6765        | 9577            | 278%   | 197,800     |
| 1941  | 2453          | 348                  | 28      | 673                               | 1244        | 1917            | 58%  | 149,300     |
| 1942  | 2817          | 227                  | 16      | 2323                              | 1029        | 3352            | 137%   | 127,300     |
| 1943  | 3144          | 209                  | 10      | 1593                              | 1050        | 2643            | 94%  | 136,530     |
| 1944  | 3477          | 163                  | 4       | 1680                              | 535         | 2215            | 70%  | 144,700     |
| 1945  | 3824          | 157                  | 6       | 1701                              | 417         | 2118            | 61%  | 157,580     |
| 1946  | 4272          | 68                   | 2       | 2223                              | 928         | †3151           | 82%  | 176,070     |

\* Taking the number of births in the previous year as the number of non-protected entrants into the 0-15 age groups, this percentage indicates progress only if it is greater than the over-all percentage of protection in the 0-15 age groups. Over-all percentage of protection 0-15 years at 31st December, 1946, was 54%.

† Includes Service personnel—Civilian population not available.

‡ Any discrepancy between this figure and the increases in Table A is due to the addition to the Central Index of the records of children immunised elsewhere and the records of children attending for reinforcing injections whose original records had been destroyed by enemy action.

The coincidence of a sharp outbreak of diphtheria in 1940 accentuated the importance of protecting the children and approximately 20% of children between 0-15 years were immunised in that year. The bombing of 1941 caused a reverse to the progress, and although 1942 saw some recovery the tempo of 1940 has never been regained. This explains the present conjuncture illustrated in Table C, in which we find that 65% of the children under 5 years of age have NEVER received any protective immunisation, whereas only 36% of those aged 5-15 years are completely unprotected,

the latter section of the child population benefiting from the activity of six years ago. In explanation of Table C it should be realised that a primary course of immunisation or a reinforcing injection within the previous four years may be considered to be protective. Beyond that period, especially in the younger and more susceptible age groups the protection is waning but is still of some significance in preventing fatal consequences.

The fall in the number of deaths from diphtheria to only 2 (1 in age group 0-15) during 1946 (Table B) may be credited to the immunisation campaign. As great a fall in diphtheria cases can be confidently expected if the child population under 5 years of age is protected to twice its present percentage by the time it moves into the school years, and if school entrants immunised in infancy receive a reinforcing injection just prior to or subsequent to school entry.

The level of protection in the present school entrants is not satisfactory.

TABLE C.

STATE OF PROTECTION OF CHILDREN UNDER THE AGE OF 15 YEARS  
AT 31ST DECEMBER, 1946.

| Year<br>of<br>Birth. | By Primary<br>Course<br>within<br>4 years. |                       | By<br>Reinforcing<br>Injection<br>within<br>4 years. |                       | By Primary<br>or Reinforcing<br>Dose more<br>than 4<br>years ago. |                       | Approx.<br>child<br>popula-<br>tion. † | Unprotected. |                      |
|----------------------|--|-----------------------|--|-----------------------|---|-----------------------|--|--------------|----------------------|
|                      | No.  | % of<br>Age<br>Group. | No.  | % of<br>Age<br>Group. | No.   | % of<br>Age<br>Group. |  | No.          | % of<br>Age<br>Group |
| 1932                 | 162  | 6                     | 91   | 4                     | 1045  | 42                    | 2485                                   | 1187         | 48                   |
| 1933                 | 170  | 7                     | 168  | 6                     | 1046  | 42                    | 2515                                   | 1131         | 45                   |
| 1934                 | 168  | 7                     | 156  | 6                     | 1061  | 42                    | 2505                                   | 1120         | 45                   |
| 1935                 | 237  | 10                    | 173  | 7                     | 1283  | 53                    | 2435                                   | 742          | 30                   |
| 1936                 | 316  | 14                    | 241  | 11                    | 1387  | 58                    | 2344                                   | 400          | 17                   |
| 1937                 | 420  | 18                    | 234  | 10                    | 1160  | 50                    | 2324                                   | 510          | 22                   |
| 1938                 | 425  | 17                    | 371  | 15                    | 1114  | 45                    | 2500                                   | 590          | 23                   |
| 1939                 | 488  | 20                    | 403  | 16                    | 1009  | 40                    | 2500                                   | 600          | 24                   |
| 1940                 | 454  | 17                    | 378  | 14                    | 594   | 22                    | 2696                                   | 1270         | 47                   |
| 1941                 | 396  | 16                    | 479  | 18                    | 331   | 13                    | 2546                                   | 1340         | 53                   |
| Total<br>5-15        | 3236                                       | 13                    | 2694   | 11                    | 10030   | 40                    | 24850*                                 | 8890         | 36                   |
| 1942                 | 930  | 30                    | 430  | 14                    | 1   | —                     | 3050                                   | 1689         | 56                   |
| 1943                 | 1250                                       | 38                    | 120  | 4                     | —   | —                     | 3197                                   | 1827         | 58                   |
| 1944                 | 1674                                       | 50.5                  | —  | —                     | —   | —                     | 3319                                   | 1645         | 49.5                 |
| 1945                 | 1250                                       | 37                    | —  | —                     | —   | —                     | 3336                                   | 2086         | 63                   |
| 1946                 | 7  | .2                    | —  | —                     | —   | —                     | 3058                                   | 3051         | 99.8                 |
| Total<br>0-5         | 5111                                       | 32                    | 550  | 3                     | 1   | —                     | 15960*                                 | 10298        | 65                   |
| Total<br>0-15        | 8347                                       | 20                    | 3244   | 8                     | 10031   | 26                    | 40810*                                 | 19188        | 46                   |

\* These totals agree with the Registrar General's estimated population of children under 15 years of age at Mid. 1946.

† Proportionate to the birth rates in the relevant years.

As shown below Immunisation Clinics are available to all parts of the City, and parents are reminded by post, by press notices and on every opportunity by medical officers, health visitors and school nurses of the need to protect their children against diphtheria. Protection, however, is voluntary, and the responsibility rests on the parents to do their duty by their children.

*At Clinics.*—Diphtheria Immunisation Clinics at which treatment is free of charge and attendance is welcomed are established at:—

| <i>District.</i> | <i>Location.</i>                                    | <i>Day and Time.</i>                   |
|------------------|---|--|
| Stonehouse.      | Behind site of Old Town Hall,<br>St. Mary Street.   | Thursdays, 9-15 a.m.<br>to 10-15 a.m.  |
| St. Judes.       | Beaumont Hut, Beaumont Park.                        | Thursdays, 10-30 a.m.<br>to 11-15 a.m. |
| St. Budeaux.     | Methodist Church Hall, next State<br>Cinema.        | Tuesdays, 10-15 a.m.<br>to 11 a.m.     |
| Crownhill.       | Crownhill Centre, Cross Park<br>(Shopping Centre).  | Fridays, 10-30 a.m. to<br>11-15 a.m.   |
| Devonport.       | Garden Street, lower part of<br>Devonport Park.     | Tuesdays, 9 a.m. to<br>10 a.m.         |
| Efford.          | 168 Blandford Road (top of road).                   | Fridays, 9 a.m. to<br>10 a.m.          |
| Swilly.          | City Isolation Hospital Gates,<br>Beacon Park Road. | Fridays, 9 a.m. to<br>10-15 a.m.       |

*At Schools.*—Through the willing co-operation of teachers, consent forms for immunisation are sent to parents through new pupils or are provided on demand. On receipt of the consent form the School Health Department arranges visits to the schools by a medical officer and nurse to carry out the treatment. Absentees at the time of school visits or re-visits are sent appointments for specially arranged immunising sessions held at School Clinics as and when required.

*Through General Practitioners.*—Diphtheria immunising antigen is provided free of charge to General Practitioners. In return the Medical Officer of Health seeks information on children immunised for entry in the central index. It requires only a post-card or telephone call to the Public Health Department for a General Practitioner to obtain supplies.

*Follow-up.*—The Health Visitors check their lists of birth notifications against the immunisation records and encourage those mothers to have their children protected who have not done so by the time the child reaches the age of one year. In addition a colourful reminder letter is sent to the parent on the child's first birthday.

*Publicity and Propaganda.*—Opportunity was taken at Health Weeks at the Efford Community Centre and Astor Institute to put over good advice. A publicity drive timed to coincide with centrally planned film trailers and other propaganda was made in the summer of 1946 through press advertisements, cinema slides, posters and press interviews. The response was very satisfactory, showing an increase of approximately 100% on the "tick-over" level. The

plotting of publicity drives against the graph of immunisations completed over the last three years shows that if timed between late spring and early autumn they succeed ; if at other times they do not succeed.

*Central Index.*—In accordance with Ministry of Health Circular 194/45 the record system was revised and centralised as from January, 1946. A Central Index is now established in the Public Health Department in which there is a record of all children immunised showing dosage, antigen used and any subsequent reinforcing injections or schick test results. Records are filed by name and date of birth, which facilitates identification despite change of address and also an accurate assessment of state of protection of the 0-15 age groups. Information is gathered from the Clinics, School Health Department and General Practitioners and is readily available for reference.

Commencing on the 1st July, 1946, an arrangement of invitations to reinforcement and follow-up of incomplete courses was instituted. One thousand one hundred invitations were sent to parents whose children required a reinforcing injection to ensure full protection before school entry. A total of 1,345 reinforcements were given to children aged 0-15 years during the year, and of the 862 reinforcements given during the period 1st July to 31st December, 246 cases were traced directly to this invitation and many others responded without bringing the letter to the clinic.

One hundred and eighty-eight cases of incompleting courses were sent advisory notes, and by 31st December, 1946, thirty-six of these cases had completed the course.

#### SCHICK TESTS.

| <i>Number of Post<br/>Schick Tests<br/>done.</i> | <i>Positive.*</i> | <i>Negative.</i> | <i>Not Read.</i> |
|--|-------------------|------------------|------------------|
| 663  | 13                | 544              | 106              |

Schick Conversion Rate, 97.66%.

\* Slight positives and doubtfuls are included and a further immunising injection was given.

TABLE D.

DIPHThERIA AMONGST CHILDREN AGED 0-15 YEARS DURING THE  
LAST FOUR YEARS.

| <i>Year.</i>            | <i>Cases.</i>       |                   | <i>Deaths.</i>      |                   |
|-------------------------|---------------------|-------------------|---------------------|-------------------|
|                         | <i>Unprotected.</i> | <i>Immunised.</i> | <i>Unprotected.</i> | <i>Immunised.</i> |
| 1943                    | 140                 | 25                | 10                  | —                 |
| 1944                    | 99                  | 25                | 4                   | —                 |
| 1945                    | 83                  | 30                | 5                   | 1                 |
| 1946                    | 42                  | 11                | 1                   | —                 |
| Total for four<br>years | 364                 | 91                | 20                  | 1                 |

## CASE FATALITY, 1943-46.

|                        |                            |   |      |
|------------------------|----------------------------|---|------|
| <i>Unprotected</i> ... | ... 20 deaths in 364 cases | = | 5.5% |
| <i>Protected</i> ...   | ... 1 death in 91 cases    | = | 1.1% |

## CASE INCIDENCE PER 10,000 CHILDREN AGED 0-15 DURING 1946.

|                        |        |     |     |     |     |     |      |
|------------------------|--------|-----|-----|-----|-----|-----|------|
| Unprotected population |        |     |     |     |     |     |      |
| 0-15 :                 | 19,188 | ... | ... | ... | ... | ... | 21.9 |
| Immunised population   |        |     |     |     |     |     |      |
| 0-15 :                 | 21,622 | ... | ... | ... | ... | ... | 5.1  |
| Total population       |        |     |     |     |     |     |      |
| 40,810                 | ...    | ... | ... | ... | ... | ... | 12.9 |



MORTALITY FROM CERTAIN INFECTIVE DISEASES, 1921-1946.  
PLYMOUTH COMPARED WITH ENGLAND AND WALES.  
PER 1,000 CIVILIAN POPULATION.

| YEAR.                    | Diphtheria.    |                               | Scarlet Fever. |             | Measles.       |             | Whooping Cough. |             |     |     |
|--------------------------|----------------|-------------------------------|----------------|-------------|----------------|-------------|-----------------|-------------|-----|-----|
|                          | PLYMOUTH       |                               | PLYMOUTH       |             | PLYMOUTH       |             | PLYMOUTH        |             |     |     |
|                          | No. of Deaths. | England and Wales Death Rate. | No. of Deaths  | Death Rate. | No. of Deaths. | Death Rate. | No. of Deaths.  | Death Rate. |     |     |
| 1921-1930<br>Average ... | 20             | .10                           | .08            | .01         | .02            | 21          | .10             | 14          | .07 | .11 |
| 1931-1940<br>Average ... | 29             | .14                           | .07            | .00         | .01            | 8           | .03             | 10          | .04 | .04 |
| 1941 ...                 | 28             | .18                           | .06            | —           | .00            | 12          | .08             | 11          | .07 | .06 |
| 1942 ...                 | 16             | .12                           | .04            | —           | .00            | 1           | .00             | 2           | .01 | .02 |
| 1943 ...                 | 10             | .07                           | .03            | —           | .00            | 8           | .06             | 8           | .06 | .02 |
| 1944 ...                 | 4              | .02                           | .02            | —           | .00            | 1           | .00             | 1           | .00 | .02 |
| 1945 ...                 | 6              | .03                           | .01            | —           | .00            | 1           | .00             | 3           | .01 | .01 |
| 1946 ...                 | 2              | .01                           | .01            | —           | .00            | 1           | .00             | 4           | .02 | .02 |

NOTES.—A series of dashes indicates that there were no deaths from that disease in that year. A rate of .00 indicates that there were too few deaths to be expressed as a rate to two decimal places.

INFECTIOUS DISEASES NOTIFIED 1946—CIVILIANS—BY AGE GROUPS.

|                                      | Under 1 Year. |             | 1-2 Years. |             | 2-3 Years. |             | 3-4 Years. |             | 4-5 Years. |             | 5-10 Years. |             | 10-15 Years. |             | 15-20 Years. |             | 20-25 Years. |             | 25-35 Years. |             | 35-45 Years. |             | 45-65 Years. |             | 65 Years and Over. |             | Age Unknown. |             | Total All Ages. | Number Admitted to the City Isolation Hospital. |
|--------------------------------------|---------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------------|-------------|--------------|-------------|-----------------|---|
|                                      | No.           | % of Total. | No.        | % of Total. | No.        | % of Total. | No.        | % of Total. | No.        | % of Total. | No.         | % of Total. | No.          | % of Total. | No.          | % of Total. | No.          | % of Total. | No.          | % of Total. | No.          | % of Total. | No.          | % of Total. | No.                | % of Total. | No.          | % of Total. |                 |   |
| Small-Pox ...                        |               |             | 1          | 100         |            |             |            |             |            |             |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             | 1               | 1   |
| Scarlet Fever ...                    |               |             | 11         | 4.8         | 11         | 4.8         | 14         | 6.1         | 23         | 10.1        | 87          | 38.2        | 64           | 28.1        | 8            | 3.5         | 4            | 1.75        | 2            | .8          | 3            | 1.3         | 1            | .4          | -                  | -           |              |             | 228             | 92  |
| Diphtheria ...                       |               |             | 1          | 1.4         | 6          | 8.8         | 4          | 5.9         | 1          | 1.4         | 28          | 41.2        | 13           | 19.4        | 1            | 1.4         | 5            | 7.4         | 6            | 8.8         | 2            | 2.9         | 1            | 1.4         |                    |             |              |             | 68              | 68  |
| Enteric Fever ...                    |               |             |            |             |            |             |            |             |            | NIL.        |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             |                 |   |
| Pneumonia ...                        | 26            | 14.1        | 13         | 7.0         | 10         | 5.4         | 6          | 3.2         | 4          | 2.1         | 19          | 10.3        | 5            | 2.7         | 12           | 6.5         | 4            | 2.1         | 16           | 8.6         | 22           | 11.9        | 34           | 18.5        | 13                 | 7.0         | 1            | .54         | 185             |   |
| Puerperal Pyrexia ...                |               |             |            |             |            |             |            |             |            |             |             |             |              |             | 3            | 3.9         | 22           | 28.6        | 44           | 57.1        | 8            | 10.4        |              |             |                    |             |              |             | 77              |   |
| Cerebro-Spinal Fever                 | 3             | 37.4        |            |             |            |             | 1          | 12.5        | 1          | 12.5        |             |             | 2            | 25.0        |              |             | 1            | 12.5        |              |             |              |             |              |             |                    |             |              |             | 8               | 6   |
| Encephalitis Lethargica ...          |               |             |            |             |            |             |            |             |            | NIL.        |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             |                 |   |
| Dysentery ...                        |               |             | 1          | 16.6        |            |             | 1          | 16.6        |            |             | 2           | 33.4        | 1            | 16.6        |              |             |              |             | 1            | 16.6        |              |             |              |             |                    |             |              |             | 6               | 1   |
| Ophthalmia Neonatorum ...            | 21            | 100         |            |             |            |             |            |             |            |             |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             | 21              |   |
| Erysipelas ...                       |               |             |            |             |            |             | 1          | 1.72        |            |             | 1           | 1.72        | 1            | 1.72        | 2            | 3.42        | 4            | 6.9         | 5            | 8.6         | 7            | 12.1        | 20           | 34.4        | 15                 | 25.8        | 2            | 3.44        | 58              | 11  |
| Gastro-Enteritis (under 2 years) ... | 19            | 55.5        | 15         | 44.5        |            |             |            |             |            |             |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             | 34              |   |
| Whooping Cough ...                   | 46            | 13.4        | 54         | 15.8        | 58         | 16.9        | 57         | 16.6        | 34         | 9.9         | 89          | 26.0        | 1            | .29         | 2            | .58         |              |             |              |             |              |             | 1            | .29         |                    |             |              |             | 342             | 9   |
| Measles ...                          | 13            | 6.0         | 22         | 10.2        | 32         | 14.8        | 30         | 13.9        | 29         | 13.4        | 79          | 36.6        | 5            | 2.35        | 3            | 1.39        |              |             |              |             |              |             |              |             |                    |             | 3            | 1.39        | 216             | 10  |
| Malaria ...                          |               |             |            |             |            |             |            |             |            | NIL.        |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             |                 |   |
| Food Poisoning ...                   |               |             |            |             |            |             |            |             |            |             | 1           | 25          |              |             | 1            | 25          |              |             |              |             |              |             | 2            | 50          |                    |             |              |             | 4               |   |
| Polio-encephalitis ...               | 1             | 100         |            |             |            |             |            |             |            |             |             |             |              |             |              |             |              |             |              |             |              |             |              |             |                    |             |              |             | 1               | 1   |
| TOTALS ...                           | 129           | 10.3        | 118        | 9.4         | 117        | 9.3         | 114        | 9.1         | 92         | 7.3         | 306         | 24.4        | 92           | 7.3         | 32           | 2.54        | 40           | 3.19        | 74           | 5.9         | 42           | 3.34        | 59           | 4.7         | 28                 | 2.2         | 6            | .47         | 1249            | 205   |



|                                     | JAN.-MARCH. |     |        | APRIL-JUNE. |     |        | JULY-SEPT. |     |        | OCT.-DEC. |     |        | TOTALS FOR YEAR. |     |        |
|-------------------------------------|-------------|-----|--------|-------------|-----|--------|------------|-----|--------|-----------|-----|--------|------------------|-----|--------|
|                                     | M.          | F.  | Total. | M.          | F.  | Total. | M.         | F.  | Total. | M.        | F.  | Total. | M.               | F.  | Total. |
| Small-Pox ...                       | -           | -   | -      | -           | 1   | 1      | -          | -   | -      | -         | -   | -      | -                | 1   | 1      |
| Scarlet Fever ...                   | 34          | 23  | 57     | 19          | 32  | 51     | 31         | 28  | 59     | 29        | 32  | 61     | 113              | 115 | 228    |
| Diphtheria ...                      | 13          | 13  | 26     | 12          | 12  | 24     | 4          | 7   | 11     | 3         | 4   | 7      | 32               | 36  | 68     |
| Pneumonia ...                       | 44          | 58  | 102    | 14          | 13  | 27     | 11         | 14  | 25     | 20        | 11  | 31     | 89               | 96  | 185    |
| Puerperal Pyrexia                   | -           | 13  | 13     | -           | 21  | 21     | -          | 21  | 21     | -         | 22  | 22     | -                | 77  | 77     |
| Cerebro-Spinal<br>Fever ...         | 1           | 1   | 2      | 1           | 1   | 2      | -          | 1   | 1      | 1         | 2   | 3      | 3                | 5   | 8      |
| Encephalitis<br>Lethargica ...      | -           | -   | -      | -           | -   | -      | -          | -   | -      | -         | -   | -      | -                | -   | -      |
| Dysentery ...                       | -           | -   | -      | 2           | -   | 2      | 1          | -   | 1      | 3         | -   | 3      | 6                | -   | 6      |
| Ophthalmia<br>Neonatorum ...        | 1           | -   | 1      | 4           | 1   | 5      | 1          | 4   | 5      | 5         | 5   | 10     | 11               | 10  | 21     |
| Erysipelas ...                      | 2           | 7   | 9      | 3           | 6   | 9      | 2          | 16  | 18     | 7         | 15  | 22     | 14               | 44  | 58     |
| Gastro-Enteritis<br>(under 2 years) | 5           | 3   | 8      | 2           | -   | 2      | 2          | -   | 2      | 13        | 9   | 22     | 22               | 12  | 34     |
| Whooping Cough                      | 29          | 41  | 70     | 27          | 51  | 78     | 39         | 46  | 85     | 41        | 68  | 109    | 136              | 206 | 342    |
| Measles ...                         | 2           | 3   | 5      | 7           | 5   | 12     | 43         | 49  | 92     | 59        | 48  | 107    | 111              | 105 | 216    |
| Food Poisoning...                   | -           | -   | -      | 1           | 2   | 3      | -          | -   | -      | -         | 1   | 1      | 1                | 3   | 4      |
| Polio-encephalitis                  | -           | -   | -      | -           | -   | -      | 1          | -   | 1      | -         | -   | -      | 1                | -   | 1      |
| TOTALS ...                          | 131         | 162 | 293    | 92          | 145 | 237    | 135        | 186 | 321    | 181       | 217 | 398    | 539              | 710 | 1249   |

**Vaccination.** The following table gives particulars of vaccinations carried out in the City during the past five years.

| <i>Year</i> | <i>Births</i> | <i>Primary vaccinations</i> | <i>Percentage of Children vaccinated</i> | <i>Re-vaccinations</i> |
|-------------|---------------|-----------------------------|--|------------------------|
| 1942 ...    | 2360          | 937                         | 39.70                                    | 7                      |
| 1943 ...    | 2754          | 1113                        | 41.10                                    | 22                     |
| 1944 ...    | 3016          | 1663                        | 55.14                                    | 85                     |
| 1945 ...    | 3752          | 1803                        | 48.05                                    | 39                     |
| 1946 ...    | 3947          | 1890                        | 47.88                                    | 74                     |

# The City Isolation Hospital and Lee Mill Hospital

REPORT OF THE MEDICAL SUPERINTENDENT.

## **General Remarks.**

Perhaps the most important event affecting the hospital during the year was the re-opening in September of the kitchen, which had been out of action for five years following its total destruction by a bomb. Although some of the equipment is still outstanding, the kitchen is well able to deal adequately with all the requirements of patients and staff and is thoroughly up to date in every way. At the present time it is probably the most modern in the City, and the administrative and kitchen staff appreciate the convenience and increased facilities for cooking after making shift with inadequate equipment for so many years. There is no doubt that the variety and palatability of the food has been greatly increased as a result of this modern building.

There is still a great call for beds to accommodate early cases of pulmonary tuberculosis, and following the successful experiment of last year with the women patients, a ward of 15 beds was opened to take in cases of early pulmonary tuberculosis in men. Initial active treatment is undertaken where indicated, and as beds become vacant at Didworthy, transfers of suitable cases to that Sanatorium are arranged. In addition, the services of a thoracic surgeon are available to give advice on those patients who require surgical treatment for their condition.

Lee Mill Hospital was opened once again for four weeks in May, to accommodate one solitary case of small pox which occurred in a child recently returned from the East. The patient made a good recovery, and the hospital immediately closed again on her discharge.

Plans for the general improvement of the hospital were drawn up during the year, chiefly the conversion of Ward 3 into a cubicle ward, and the central heating of wards 1, 2 and 3, which at present rely entirely on an obsolete pattern of coal fire. It is hoped that this work will soon be in progress.

An entirely new stores system will shortly be introduced and two Nissen Huts have been erected in the grounds and are in process of being converted into store rooms. This will enable the official bin card system to be put into operation for the first time at this hospital.

**Nursing.** During the year there was no real difficulty in securing the services of sufficient staff adequate to the number of patients. There is some indication that conditions in the future may not be so favourable as the new Rushcliffe Scale financially penalises the State Registered Nurse who desires to take her fever certificate.

Increasing emphasis on Nursing education has made the employment of a Sister Tutor essential. Previously, Matron, who holds the required qualification, has undertaken this work, but increasing administrative duties preclude her from continuing this indefinitely. Miss B. Ball, who for some years has been a ward sister at this hospital is now studying for her Sister Tutor's Certificate, and it is hoped that on completion of her examination she will be able to take over this aspect of the Nurses' training.

The examination results have been satisfactory, securing 100% pass in the Preliminary State Examination and 74% pass in the Final State Fever Examination. During the year 186 lectures and coaching classes have been given by the medical staff in addition to ward instruction and Matron's Nursing classes.

The sickness rate amongst the Nursing Staff has been entirely negligible.

**Domestic.** During the year the supply of domestic staff has been sufficient and there has been no great difficulty in obtaining our establishment.

## General Statistics

|                        |     | <i>Plymouth Outside</i> |              |               |
|------------------------|-----|-------------------------|--------------|---------------|
|                        |     | <i>Area.</i>            | <i>Area.</i> | <i>Total.</i> |
| Cases Admitted         | ... | 405                     | 52           | 457           |
| Cases Discharged       | ... | 353                     | 42           | 395           |
| Service Cases admitted | ... | 35                      | —            | 35            |
| (included in above)    |     |                         |              |               |
| Deaths                 | ... | 14                      | 1            | 15            |

During the year 62 visits were paid to patients outside the hospital at the request of medical practitioners in the district and 1,061 specimens were sent to the Central Laboratory as follows:—

|                       |     |     |     |     |     |
|-----------------------|-----|-----|-----|-----|-----|
| Swabs                 | ... | ... | ... | ... | 717 |
| Fæces                 | ... | ... | ... | ... | 20  |
| Urines                | ... | ... | ... | ... | 18  |
| Slides                | ... | ... | ... | ... | 50  |
| Bloods                | ... | ... | ... | ... | 40  |
| Cerebro Spinal Fluids | ... | ... | ... | ... | 16  |
| Other Examinations    | ... | ... | ... | ... | 200 |

### Scarlet Fever.

As in previous years, only those cases where facilities at home for isolation or treatment were inadequate were admitted to hospital. Generally speaking the disease was of a mild type. Altogether 104 cases received treatment—92 from Plymouth and 12 from outside districts.

#### OUTSIDE CASES.

|                    |     |     |     |   |
|--------------------|-----|-----|-----|---|
| Plympton R.D.C.    | ... | ... | ... | 6 |
| Kingsbridge R.D.C. | ... | ... | ... | 4 |
| Torpoint U.D.C.    | ... | ... | ... | 2 |

It was not necessary to amend the diagnosis in any of these cases.

Among the Plymouth cases, the diagnosis was amended as follows:—

|                                |     |     |     |     |   |
|--------------------------------|-----|-----|-----|-----|---|
| Tonsillitis                    | ... | ... | ... | ... | 3 |
| Rubella                        | ... | ... | ... | ... | 2 |
| Dermatitis                     | ... | ... | ... | ... | 1 |
| Aphthous Stomatitis            | ... | ... | ... | ... | 1 |
| Tonsillitis and Toxic Erythema | ... | ... | ... | ... | 1 |
| Toxic Erythema                 | ... | ... | ... | ... | 1 |
| Gastritis                      | ... | ... | ... | ... | 1 |



**Diphtheria.** There is no doubt whatever of the success of the immunisation campaign. The number of cases admitted was the lowest ever recorded in the history of this hospital. There was only one death from Laryngeal Diphtheria and this case was in fact notified as a Streptococcal Sore Throat.

If the incidence of this disease continues to remain low, it may well be necessary to modify the structure of the present Diphtheria Ward so as to permit of the nursing of other acute throat infections as well as Diphtheria.

On the whole, the disease was mild in type, but several severe cases received treatment.

Similarly there has been a great diminution in laryngeal diphtheria, and the large number of tracheotomies previously performed for this disease have virtually ceased.

Such figures must be gratifying to the Medical Officer of Health for in the past years, Plymouth has always had a heavy incidence of diphtheria of an extremely grave type.

|                           |     |     |     |     |
|---------------------------|-----|-----|-----|-----|
| No. of admissions ...     | ... | ... | ... | 171 |
| No. of deaths ...         | ... | ... | ... | 1   |
| No. of Plymouth cases ... | ... | ... | ... | 146 |
| No. of Outside cases ...  | ... | ... | ... | 25  |

The 25 outside cases were notified from, and the diagnosis altered as follows:—

| <i>Admitted from</i> |        | <i>Amended Diagnosis.</i>   |
|----------------------|--------|---|
| Plympton R.D.C.      | ... 17 | Tonsillitis, 7.<br>Diphtheria and Scarlet Fever, 2.<br>Diphtheria and Vincents Angina<br>1. |
| Torpoint U.D.C. ...  | ... 1  |   |
| Saltash Borough      | ... 2  |   |
| St. Germans R.D.C.   | ... 1  | Tonsillitis, 1.   |
| Tavistock R.D.C.     | ... 1  |   |
| Bodmin Borough       | ... 1  |   |
| Kingsbridge R.D.C.   | ... 2  |   |

**Plymouth  
Cases.**

After observation, the diagnosis was amended in the following 73 cases —

|                           |     |     |     |     |     |    |
|---------------------------|-----|-----|-----|-----|-----|----|
| Tonsillitis               | ... | ... | ... | ... | ... | 40 |
| Peritonsillar Abscess     | ... | ... | ... | ... | ... | 1  |
| Vincent's Angina          | ... | ... | ... | ... | ... | 12 |
| Retro-pharyngeal Abscess  | ... | ... | ... | ... | ... | 1  |
| Glandular Fever           | ... | ... | ... | ... | ... | 6  |
| Scarlet Fever             | ... | ... | ... | ... | ... | 2  |
| Influenza                 | ... | ... | ... | ... | ... | 1  |
| Bronchitis                | ... | ... | ... | ... | ... | 1  |
| Erythema Multiformæ       | ... | ... | ... | ... | ... | 1  |
| Myeloid Leukeamia         | ... | ... | ... | ... | ... | 1  |
| Pharyngitis               | ... | ... | ... | ... | ... | 1  |
| Streptococcal Pharyngitis | ... | ... | ... | ... | ... | 2  |
| Pulmonary Tuberculosis    | ... | ... | ... | ... | ... | 1  |
| Anginous Glandular Fever  | ... | ... | ... | ... | ... | 1  |
| Aphthous Stomatitis       | ... | ... | ... | ... | ... | 1  |
| Catarrhal Laryngitis      | ... | ... | ... | ... | ... | 1  |

**Laryngeal  
Diphtheria.**

Six cases were notified as such, 2 from Plymouth and 4 from outside authorities. The Plymouth cases proved to be one of Laryngitis and one of Whooping Cough with Broncho-Pneumonia.

One of the cases from outside Plymouth proved to be a Retro-pharyngeal abscess (this case died) (Tavistock R.D.C.). Two others (1 each from St. Germans R.D.C. and Plympton R.D.C.) proved to be Catarrhal Laryngitis, and the fourth case (Kingsbridge R.D.C.) recovered.

A case notified and admitted with "Streptococcal Throat" proved to be Laryngeal Diphtheria and subsequently died. This was the only death from Diphtheria in the Hospital during the year.

**Other Diseases.**

During the year 143 cases of various other infections were treated as under, 132 Plymouth cases and 11 Outside cases —

| <i>Notified as suffering from</i>      |    | <i>Amended Diagnosis.</i>           |
|--|----|-------------------------------------|
| Acute Anterior Poliomyelitis ... ..    | 2  | Influenza, 1.                       |
| Blister on Heel ... ..                 | 1  | Acute Rheumatism, 1.                |
| Broncho-pneumonia ... ..               | 5  | Septic Toe, 1.                      |
| Broncho-pneumonia and Pertussis ... .. | 5  | Tonsillitis, 1.                     |
| Boil on Leg ... ..                     | 1  | Pertussis and Bronchitis, 1.        |
| Cerebro-spinal Fever ... ..            | 9  | T.B. Meningitis, 2.                 |
|  |    | Heat Stroke and Tonsillitis, 1.     |
|  |    | Marasmus, 1.                        |
|  |    | Teething, 1.                        |
|  |    | Meningococcal Meningitis, 1.        |
| Conjunctivitis ... ..                  | 1  |                                     |
| Dermatitis ... ..                      | 1  | Scabies, 1.                         |
| Erysipelas ... ..                      | 11 | Infected Bite, 1.                   |
| Follicular Tonsillitis ... ..          | 1  | Tonsillitis, 1.                     |
| Gastro-Enteritis ... ..                | 1  | Enteritis, 1.                       |
| Influenza ... ..                       | 3  |                                     |
| Infected Toe ... ..                    | 1  |                                     |
| Diphtheria Carrier ... ..              | 1  | Tonsillitis 1.                      |
| Measles ... ..                         | 9  | Tonsillitis, 1.                     |
|  |    | Bronchitis and Rubella, 1.          |
|  |    | Secondary Syphilis, 1.              |
|  |    | Septicæmia, 1.                      |
|  |    | Toxic Erythema, 1.                  |
|  |    | Rubella, 1.                         |
| Measles and Broncho-pneumonia ... ..   | 2  | Measles, 1.                         |
|  |    | Broncho-pneumonia and Pertussis, 1. |
| Migraine ... ..                        | 1  |                                     |

*Notified as suffering from**Amended Diagnosis*

|                                 |     |     |    |   |
|---------------------------------|-----|-----|----|---|
| Meningitis                      | ... | ... | 8  | Pneumococcal meningitis and<br>Broncho-pneumonia, 1.<br>T.B. Meningitis, 1.<br>Miliary Tuberculosis, 1.<br>Meningococcal meningitis, 1.<br>Central pneumonia 1.<br>Enteritis, 1.<br>Pneumococcal meningitis, 1.<br>Adenitis, 1. |
| Mumps                           | ... | ... | 6  |   |
| Malaria                         | ... | ... | 1  |   |
| Measles and Convulsions         |     |     | 1  |   |
| Mumps and Broncho-<br>pneumonia | ... | ... | 2  |   |
| Observation                     | ... | ... | 13 | Influenza, 2<br>Erythema simplex 1.<br>Headache, 1.<br>Glandular Fever, 1.<br>Tonsillitis, 3.<br>Nil abnormal, 1.<br>Gastritis, 1.<br>Pleurisy with effusion, 1.<br>Infective hepatitis, 1.<br>Diphtheria, 1.                   |
| Hilar Tuberculosis              | ... |     | 1  |   |
| Poliomyelitis                   | ... | ... | 1  | Influenza with Laryngitis, 1.   |
| Pemphigus                       | ... | ... | 3  | Seborrheic dermatitis, 1.<br>Infantile eczema, 2.   |
| Pertussis                       | ... | ... | 7  | Bronchial Catarrh, 1.   |
| Lobar Pneumonia                 | ... |     | 2  |   |
| Pertussis and Stomatitis        |     |     | 1  | Stomatitis, 1.  |
| Rubella                         | ... | ... | 3  | Pityriasis Rosea, 1.<br>Acute encephalomyelitis, 1.   |
| Varicella                       | ... | ... | 10 | Varicella and Scarlet Fever, 1.<br>Erythema multiforme, 1.  |
| Varicella and Dermatitis        |     |     | 1  |   |
| Vincent's Angina                | ... |     | 2  | Influenza and Vincent's Stoma-<br>titis, 1.   |

| <i>Notified as suffering from</i> |     |     |   | <i>Amended Diagnosis.</i>        |    |
|-----------------------------------|-----|-----|---|----------------------------------|----|
| Streptococcal Throat              | ... | ... | 5 | Streptococcal Cervical Adenitis, | 1. |
|                                   |     |     |   | Influenza,                       | 1. |
|                                   |     |     |   | Laryngeal Diphtheria,            | 1. |
|                                   |     |     |   | Scarlet Fever,                   | 1. |
|                                   |     |     |   | Naso-pharyngeal Diphtheria,      | 1. |
| Tonsillitis                       | ... | ... | 4 |                                  |    |
| Septic Toe                        | ... | ... | 1 |                                  |    |
| Small Pox                         | ... | ... | 1 |                                  |    |
| Sprained Ankle                    | ... | ... | 1 |                                  |    |
| Typhoid Fever                     | ... | ..  | 1 | Enteritis,                       | 1. |
| Pharyngitis                       | ... | ... | 1 | Tetanus,                         | 1. |
| Throat Observation                | ... | ... | 1 | Tonsillitis,                     | 1. |

The 11 cases notified from outside areas, are classified as follows :—

| <i>Notified as suffering from</i> |     |     |   | <i>Amended Diagnosis.</i>    |             |
|-----------------------------------|-----|-----|---|------------------------------|-------------|
| Cerebro-spinal Fever              | ... | ... | 2 | Tetany,                      | 1.          |
|                                   |     |     |   | Acute Lymphocytes Chorio-    | meningitis, |
|                                   |     |     |   |                              | 1.          |
| Dysentery                         | ... | ... | 3 |                              |             |
| Erysipelas                        | ... | ... | 2 |                              |             |
| Measles and pneumonia             |     |     | 2 | Measles and mild bronchitis, | 1.          |
| Meningitis                        | ... | ... | 1 | Cerebro-spinal meningitis,   | 1.          |
| Patient under observation         |     |     | 1 | Toxic erythema,              | 1.          |

**Tuberculosis.** 33 cases were admitted during the year. 16 men and 17 women. Three were discharged to Didworthy, one to Mount Gold Hospital, and six home.

Collapse therapy was carried out in eight cases, necessitating 206 refills during the year. All X-ray work in connection with these cases has been carried out at Beaumont House, the patient being conveyed by ambulance.

Occupational therapy has been carried out by both men and women, and is much appreciated by those who are obliged to stay in bed for long periods.

Thanks are due to several local concert parties who have entertained the patients, in the evenings. Their efforts have been greatly appreciated.

## SOME NOTES ON RECENT ADVANCES IN THE TREATMENT OF FEVERS.

The advent of penicillin has been of the greatest use in the treatment of many of the acute infections met with in fever hospital practice, and although it is yet too early to assess results on a large scale, it looks as though many of the complications of this group of diseases may be averted or rapidly cured.

At the time of writing I have found the use of penicillin in Hypertoxic Diphtheria disappointing and am not convinced that it has any advantages over the older method of treatment with massive intravenous doses of Antitoxin. Laryngeal Diphtheria, however, appears to present a different problem.

Several cases of severe Laryngeal Diphtheria have been admitted to the hospital, which, from my previous knowledge, would have required operation within a very few hours. Treatment with penicillin has, within a short time, alleviated their condition to such an extent that operation has become unnecessary.

Presumably much of the obstruction is due to œdema caused by secondary infection and when this is controlled by penicillin sufficient air entry is available for the child to breathe comfortably until the membrane separates in due course. Further cases will have to be tried before coming to a definite conclusion, but some of those already seen have been dramatic in their rapid recovery.

Many types of meningitis, notably staphylococcal, streptococcal, pneumococcal and meningococcal respond readily to penicillin, and the best results are obtained by intrathecal white penicillin combined with sulphonamides by mouth. The recovery is amazingly rapid.

Similarly the adenitis following Scarlet Fever quickly subsides after adequate penicillin therapy, thus cutting short the long period in hospital usually required by these patients.

It has been found that cases of Erysipelas, particularly in old people, do not respond any quicker with penicillin than with sulphonamides, and occasionally it has been necessary to use both drugs in obstinate cases.

Previously, measles has taken a heavy toll in children under five years, and the only efficient prophylactic has been convalescent serum, which has always been difficult to obtain. Even then, the duration of immunity is short and the child is liable to another attack in perhaps only a few weeks. Other prophylactics such as immune globulin have at this hospital been found unsatisfactory.

For many years it has been the practice to start children on full doses of one or other of the sulphonamide drugs as soon as the rash appears. This is continued for at least 48 hours and occasionally for 72 hours, according to the condition of the child. Rapid amelioration of the symptoms occur and no complications have ever occurred in cases so treated. Penicillin is equally effective, but not so suitable for home treatment. It would appear that the complications are due to secondary organisms which are largely destroyed by using sulphonamides early.

Provided this regime is followed, I think it would be perfectly safe to nurse this disease in an open ward, a procedure, which hitherto has always been thought undesirable.

Similarly the broncho-pneumonia following measles and whooping cough responds rapidly both to sulphonamides and penicillin.

These points are mentioned as it is felt that they may be of interest to practitioners who have to treat many of these cases at home.

# Venereal Diseases Treatment Centre

## REPORT OF MEDICAL OFFICER.

### General Remarks.

During the year 1,300 new cases presented themselves for diagnosis and treatment, 348 more than the previous year.

This is the highest number ever recorded since the Clinic was first founded. The previous highest total treated at this clinic was 984 in the year 1944.

Causes of this rise in number are due to the following reasons :—

1. Increased use of the clinic following Press propaganda.
2. Men demobilised from the Services making sure they are fit before returning home, and, similarly, wives making sure they are not infected when their husbands return.
3. A real increase in the incidence of venereal disease, much of it contracted abroad with consequent repercussions at home.
4. The present laxity in sex morals.

At the moment there seems little hope that the incidence will be reduced for some years. In view of this the greatest attention has been paid to defaulters and no effort spared to encourage them to attend for treatment. Although compulsory powers are useful in some cases, persuasion and education will always be the most profitable lines to follow in the prevention of these diseases.

The greatly increased numbers of patients seeking diagnosis and treatment has at times caused overcrowding and delay at the Clinic, and it is possible that in the near future a fresh review of the situation will be required in order to extend the present facilities.

*Table "A."* Gives the number of cases treated throughout the year, including transfers from other centres and referred cases.

*Table "B."* Gives new cases of V.D. presenting themselves for initial treatment, and excludes all cases treated previously at this or other centres.

*Table "C."* Is a complete summary of the work of this Clinic during the year 1946.



**Syphilis.** 219 cases were treated during the year, 97 cases more than last year, and the highest recorded as far as this disease is concerned.

100 of the above cases were in the acute stage of infection and 127 cases were admitted to hospital for treatment—58 males and 69 females.

42 cases are believed to have been infected in Plymouth during the year—17 males and 25 females.

| <i>Summary.</i>   | <i>Males.</i> | <i>Females.</i> |
|---|---------------|-----------------|
| New cases who received initial treatment at this clinic during the year                           | 64            | 63              |
| Cases under treatment at other centres who were transferred to this clinic during the year ... .. | 77            | 15              |
|   | 141           | 78              |
|   | 141           | 78              |

**Gonorrhoea.** 297 cases were treated during the year, an increase of 129 on last year's figures. Of these cases 292 were admitted to hospital for treatment, a very satisfactory percentage.

Infections of the above disease believed to have been contracted in Plymouth during the year are males 75 and females 19.

**Soft Chancre.** Five cases were treated.

**Non-Venereal Conditions.** In view of the large number of cases who attended for advice and treatment and where no evidence of venereal disease was found, it was thought interesting to classify these as under :—

|                                       | <i>Male.</i> | <i>Female.</i> |
|---------------------------------------|--------------|----------------|
| Carcinoma of genitals ... ..          | 1            | —              |
| Scabies ... ..                        | 18           | 4              |
| Paraphimosis ... ..                   | 7            | —              |
| Phimosis ... ..                       | 4            | —              |
| Balanitis ... ..                      | 9            | —              |
| Other Skin Affections ... ..          | 4            | 1              |
| Non-specific Urethritis Vaginitis ... | 435          | 293            |

Of the Non-specific infections (Urethritis and Vaginitis) 53 cases were admitted to hospital for treatment—32 Males and 21 Females.

**Ophthalmia Neonatorum.** On 1.11.46 the administrative work in connection with the above was transferred to the Maternity and Child Welfare Department.

Up to that time 11 cases were admitted and treated at the Royal Eye Infirmary, Plymouth. 10 recovered without impairment of vision and 1 died.

| <i>Plymouth.</i> | <i>Devon.</i> | <i>Cornwall.</i> | <i>Total.</i> |
|------------------|---------------|------------------|---------------|
| 10               | Nil.          | 1                | 11            |

**Regulation 33b.** The work of the Almoner continues to be of great assistance and a summary of her work appears below.

|   |     |     |    |
|---|-----|-----|----|
| Number of cases reported on Form 1                                      | ... | ... | 32 |
| Number of cases found and attended                                      | ... | ... | 16 |
| Number of cases found and refused to attend                             | ... | ... | 6  |
| Number of cases untraced through lack of Name, addresses or description | ... | ... | 10 |
| Number actually served with Form 2                                      | ... | ... | 4  |
| Number prosecuted   | ... | ... | 1  |
| Number found free from infection although named on Form 1               | ... | ... | 4  |
| Defaulters followed up  | ... | ... | 15 |

### CONTROL OF VENEREAL DISEASE.

The most important work undertaken in the control of the disease is contact tracing. Every patient who attends the clinic is carefully questioned as to the possible source of infection, and where the contact is known, they are encouraged to bring or advise their consort to attend for examination or treatment. In the case of married patients, they are instructed to bring their wives and, if necessary, the children for observation. In the main, this works well, and only in a few cases do they refuse the proffered advice. In the case of casual acquaintances, a description of the person involved is asked and all relevant particulars taken which may help in tracing the infected partner. We can often recognise these descriptions, and the Almoner is able to visit and persuade them to attend on the grounds that complaint has been made that they are diseased. Every person named on a Form 1 is traced as far as

possible, but this is often difficult on account of the vague particulars given. The regular local prostitutes are very good indeed as regards attending regularly or when sent for. They appear to be only too keen to keep themselves as free of disease as possible and have great confidence in the Almoner and the treatment given to them. Unfortunately a new technique in prostitution has arisen which renders contact tracing extremely troublesome. On the appearance of a foreign ship in the Port, a horde of strange prostitutes appear from other towns. They spread a good deal of disease judging from the number of complaints received. By the time they are found, or when the ship departs, they have disappeared to another part. Many of these girls are young, and well versed in the law. This type of "ship follower" is vicious, lazy, and impervious to advice regarding the desirability of examination and treatment.

The number of patients under treatment who default in an infectious state are very few indeed, though a considerable number cease attending before their tests of cure are completed. Fortunately most of these cases are probably free from infection. In the case of defaulters a plain hospital card is sent to them, and if this hint is insufficient, then they are visited by the Almoner who does her best to persuade them to amend their ways.

At the moment regulation 33b is not very helpful. It would be much more efficient if anyone named on Form 1 was obliged to be examined at once without waiting for a second complaint, which is often not forthcoming.

TABLE "A."—TOTAL NEW CASES FOR THE YEAR

(INCLUDING TRANSFERS FROM OTHER CENTRES AND REFERRED SERVICE CASES).

| Year | Syphilis |       |          |        | Chancroid |       |          |        | Gonorrhoea |       |          |        | Non-Venereal |       |          |        | Totals   |       |          |        |
|------|----------|-------|----------|--------|-----------|-------|----------|--------|------------|-------|----------|--------|--------------|-------|----------|--------|----------|-------|----------|--------|
|      | Plymouth | Devon | Cornwall | Totals | Plymouth  | Devon | Cornwall | Totals | Plymouth   | Devon | Cornwall | Totals | Plymouth     | Devon | Cornwall | Totals | Plymouth | Devon | Cornwall | Totals |
| 1941 | 118      | 10    | 8        | 136    | 4         | -     | 1        | 5      | 193        | 17    | 11       | 221    | 173          | 16    | 13       | 202    | 488      | 43    | 33       | 564    |
| 1942 | 240      | 12    | 10       | 262    | -         | -     | 2        | 2      | 186        | 23    | 13       | 222    | 226          | 25    | 19       | 270    | 652      | 60    | 44       | 756    |
| 1943 | 282      | 11    | 8        | 301    | -         | -     | -        | -      | 146        | 19    | 8        | 173    | 405          | 52    | 53       | 510    | 833      | 82    | 69       | 984    |
| 1944 | 212      | 10    | 5        | 227    | 1         | -     | -        | 1      | 108        | 16    | 15       | 139    | 467          | 41    | 60       | 568    | 788      | 67    | 80       | 935    |
| 1945 | 112      | 5     | 5        | 122    | -         | -     | -        | -      | 130        | 24    | 14       | 168    | 538          | 65    | 59       | 662    | 780      | 94    | 78       | 952    |
| 1946 | 174      | 24    | 21       | 219    | 5         | -     | -        | 5      | 229        | 33    | 35       | 297    | 667          | 57    | 69       | 793    | 1075     | 114   | 125      | 1314   |

TABLE "B."—NEW CASES FOR THE YEAR  
(EXCLUSIVE OF TRANSFERS)

| <i>Year</i> | <i>Syphilis.</i> |               |               | <i>Gonorrhoea.</i> |               |               | <i>Totals</i> |
|-------------|------------------|---------------|---------------|--------------------|---------------|---------------|---------------|
|             | <i>Male</i>      | <i>Female</i> | <i>Totals</i> | <i>Male</i>        | <i>Female</i> | <i>Totals</i> |               |
| 1941 ...    | 38               | 26            | 64            | 115                | 51            | 166           | 230           |
| 1942 ...    | 45               | 49            | 94            | 111                | 80            | 191           | 285           |
| 1943 ...    | 32               | 50            | 82            | 91                 | 40            | 131           | 213           |
| 1944 ...    | 18               | 59            | 77            | 70                 | 55            | 125           | 202           |
| 1945 ...    | 18               | 34            | 52            | 92                 | 48            | 140           | 192           |
| 1946 ...    | 64               | 63            | 127           | 189                | 40            | 229           | 356           |

TABLE "C"

|  | Syphilis.  |                | Soft Chancre. |                | Gonorrhoea                   |     | Non-Veneral or Undiagnosed Conditions. |         |
|--|--|----------------|---------------|----------------|------------------------------|-----|--|---------|
|  | M.   | F.             | M.            | F.             | M.                           | F.  | M.                                     | F.      |
|  | (1) Cases which were under treatment on January 1st, 1946 ... .. | 66             | 87            | -              | -                            | 39  | 30                                     | 16      |
| (2) Cases which came for the first time in the year ... ..   | 148  | 81             | 4             | 1              | 256                          | 47  | 483                                    | 310     |
| (3) Cases included under (2) which had already been treated for the same infection by civilian treatment centres, by Service authorities, or by other practitioners working under Circular 2226 ... ..           | 77   | 15             | -             | -              | 63                           | 5   | -                                      | -       |
| (4) Of the cases in (2) less those in (3) the numbers with ... ..  | 38   | 32             | -             | -              | -                            | -   | -                                      | -       |
| Syphilis, primary ... ..   | 13   | 17             | -             | -              | -                            | -   | -                                      | -       |
| Syphilis, secondary ... ..   | 4  | 9              | -             | -              | -                            | -   | -                                      | -       |
| Syphilis, latent in 1st year of infection ... ..   | 7  | 5              | -             | -              | -                            | -   | -                                      | -       |
| Syphilis, all later stages ... ..  | 2  | -              | -             | -              | -                            | -   | -                                      | -       |
| Syphilis, congenital ... ..  | -  | -              | -             | -              | -                            | -   | -                                      | -       |
| Soft Chancre ... ..  | -  | -              | 4             | 1              | -                            | -   | -                                      | -       |
| Gonorrhoea, 1st year of infection ... ..   | -  | -              | -             | -              | 186                          | 40  | -                                      | -       |
| Gonorrhoea, later ... ..   | -  | -              | -             | -              | 3                            | -   | -                                      | -       |
| Non-veneral conditions ... ..  | -  | -              | -             | -              | -                            | -   | 478                                    | 298     |
| Conditions remaining undiagnosed at 31st December, 1946 ... ..   | -  | -              | -             | -              | -                            | -   | 5                                      | 12      |
| (5) The numbers which ceased to attend before completion of treatment were ... ..  | 5  | -              | -             | -              | -                            | -   | -                                      | -       |
| (6) The numbers which ceased to attend after completion of treatment but before being passed as cured were ... ..  | 7  | 6              | -             | -              | 47                           | 23  | -                                      | -       |
| (7) The numbers transferred to other care were ... ..  | 9  | 11             | -             | -              | 43                           | 18  | 123                                    | 28      |
| (8) Number of cases discharged after completion of treatment and final test of cure or after diagnosis as non-veneral ... ..   | 76   | 36             | 4             | 1              | 159                          | 27  | 350                                    | 272     |
| (9) The numbers remaining on December 31st, 1946, either under treatment or under observation were ... ..  | 116  | 115            | -             | -              | 46                           | 9   | 26                                     | 17      |
| (10) The total attendances were ... ..   | 2591   | 2344           | 16            | 5              | 1777                         | 563 | 2116                                   | 1314    |
|  |  |                |               |                |                              |     |  | = 10726 |
| (11) The cases in Item (4) resided in the Counties and County Boroughs (or Countries) in the case of persons residing elsewhere than in England and Wales) as shown at the heads of the different columns ... .. | COUNTIES,  | PLYMOUTH       | DEVON         | CORNWALL       | TOTAL                        |     |  |         |
| Syphilis cases ... ..  | 104  | 11             | 12            | 127            |                              |     |  |         |
| Gonorrhoea cases ... ..  | 176  | 26             | 27            | 229            |                              |     |  |         |
| Soft Chancre cases ... ..  | 5  | -              | 70            | 5              |                              |     |  |         |
| Non-veneral and undiagnosed cases ... ..   | 666  | 57             | 793           | 793            |                              |     |  |         |
| (12) The total attendances of all patients residing in each area were ... ..   | 8901   | 1017           | 808           | 10726          |                              |     |  |         |
| (13) The numbers of specimens sent by me to an approved laboratory for tests were ... ..   | Microscopical for  |                | Serum for     |                | Others for                   |     |  |         |
|  | Syphilis (1)   | Gonorrhoea (2) | Syphilis (1)  | Gonorrhoea (2) | Diagnosis of Veneral Disease |     |  |         |
|  | 123  | 4085           | 2259          | 512            |                              |     | 693                                    |         |

| Station | Time  | Temperature | Direction | Force | Remarks      |
|---------|-------|-------------|-----------|-------|--------------|
| 1       | 10:00 | 10          | SE        | 10    | Light breeze |
| 2       | 10:15 | 10          | SE        | 10    | Light breeze |
| 3       | 10:30 | 10          | SE        | 10    | Light breeze |
| 4       | 10:45 | 10          | SE        | 10    | Light breeze |
| 5       | 11:00 | 10          | SE        | 10    | Light breeze |
| 6       | 11:15 | 10          | SE        | 10    | Light breeze |
| 7       | 11:30 | 10          | SE        | 10    | Light breeze |
| 8       | 11:45 | 10          | SE        | 10    | Light breeze |
| 9       | 12:00 | 10          | SE        | 10    | Light breeze |
| 10      | 12:15 | 10          | SE        | 10    | Light breeze |
| 11      | 12:30 | 10          | SE        | 10    | Light breeze |
| 12      | 12:45 | 10          | SE        | 10    | Light breeze |
| 13      | 13:00 | 10          | SE        | 10    | Light breeze |
| 14      | 13:15 | 10          | SE        | 10    | Light breeze |
| 15      | 13:30 | 10          | SE        | 10    | Light breeze |
| 16      | 13:45 | 10          | SE        | 10    | Light breeze |
| 17      | 14:00 | 10          | SE        | 10    | Light breeze |
| 18      | 14:15 | 10          | SE        | 10    | Light breeze |
| 19      | 14:30 | 10          | SE        | 10    | Light breeze |
| 20      | 14:45 | 10          | SE        | 10    | Light breeze |
| 21      | 15:00 | 10          | SE        | 10    | Light breeze |
| 22      | 15:15 | 10          | SE        | 10    | Light breeze |
| 23      | 15:30 | 10          | SE        | 10    | Light breeze |
| 24      | 15:45 | 10          | SE        | 10    | Light breeze |
| 25      | 16:00 | 10          | SE        | 10    | Light breeze |
| 26      | 16:15 | 10          | SE        | 10    | Light breeze |
| 27      | 16:30 | 10          | SE        | 10    | Light breeze |
| 28      | 16:45 | 10          | SE        | 10    | Light breeze |
| 29      | 17:00 | 10          | SE        | 10    | Light breeze |
| 30      | 17:15 | 10          | SE        | 10    | Light breeze |
| 31      | 17:30 | 10          | SE        | 10    | Light breeze |
| 32      | 17:45 | 10          | SE        | 10    | Light breeze |
| 33      | 18:00 | 10          | SE        | 10    | Light breeze |
| 34      | 18:15 | 10          | SE        | 10    | Light breeze |
| 35      | 18:30 | 10          | SE        | 10    | Light breeze |
| 36      | 18:45 | 10          | SE        | 10    | Light breeze |
| 37      | 19:00 | 10          | SE        | 10    | Light breeze |
| 38      | 19:15 | 10          | SE        | 10    | Light breeze |
| 39      | 19:30 | 10          | SE        | 10    | Light breeze |
| 40      | 19:45 | 10          | SE        | 10    | Light breeze |
| 41      | 20:00 | 10          | SE        | 10    | Light breeze |
| 42      | 20:15 | 10          | SE        | 10    | Light breeze |
| 43      | 20:30 | 10          | SE        | 10    | Light breeze |
| 44      | 20:45 | 10          | SE        | 10    | Light breeze |
| 45      | 21:00 | 10          | SE        | 10    | Light breeze |
| 46      | 21:15 | 10          | SE        | 10    | Light breeze |
| 47      | 21:30 | 10          | SE        | 10    | Light breeze |
| 48      | 21:45 | 10          | SE        | 10    | Light breeze |
| 49      | 22:00 | 10          | SE        | 10    | Light breeze |
| 50      | 22:15 | 10          | SE        | 10    | Light breeze |
| 51      | 22:30 | 10          | SE        | 10    | Light breeze |
| 52      | 22:45 | 10          | SE        | 10    | Light breeze |
| 53      | 23:00 | 10          | SE        | 10    | Light breeze |
| 54      | 23:15 | 10          | SE        | 10    | Light breeze |
| 55      | 23:30 | 10          | SE        | 10    | Light breeze |
| 56      | 23:45 | 10          | SE        | 10    | Light breeze |
| 57      | 24:00 | 10          | SE        | 10    | Light breeze |
| 58      | 24:15 | 10          | SE        | 10    | Light breeze |
| 59      | 24:30 | 10          | SE        | 10    | Light breeze |
| 60      | 24:45 | 10          | SE        | 10    | Light breeze |
| 61      | 25:00 | 10          | SE        | 10    | Light breeze |
| 62      | 25:15 | 10          | SE        | 10    | Light breeze |
| 63      | 25:30 | 10          | SE        | 10    | Light breeze |
| 64      | 25:45 | 10          | SE        | 10    | Light breeze |
| 65      | 26:00 | 10          | SE        | 10    | Light breeze |
| 66      | 26:15 | 10          | SE        | 10    | Light breeze |
| 67      | 26:30 | 10          | SE        | 10    | Light breeze |
| 68      | 26:45 | 10          | SE        | 10    | Light breeze |
| 69      | 27:00 | 10          | SE        | 10    | Light breeze |
| 70      | 27:15 | 10          | SE        | 10    | Light breeze |
| 71      | 27:30 | 10          | SE        | 10    | Light breeze |
| 72      | 27:45 | 10          | SE        | 10    | Light breeze |
| 73      | 28:00 | 10          | SE        | 10    | Light breeze |
| 74      | 28:15 | 10          | SE        | 10    | Light breeze |
| 75      | 28:30 | 10          | SE        | 10    | Light breeze |
| 76      | 28:45 | 10          | SE        | 10    | Light breeze |
| 77      | 29:00 | 10          | SE        | 10    | Light breeze |
| 78      | 29:15 | 10          | SE        | 10    | Light breeze |
| 79      | 29:30 | 10          | SE        | 10    | Light breeze |
| 80      | 29:45 | 10          | SE        | 10    | Light breeze |
| 81      | 30:00 | 10          | SE        | 10    | Light breeze |
| 82      | 30:15 | 10          | SE        | 10    | Light breeze |
| 83      | 30:30 | 10          | SE        | 10    | Light breeze |
| 84      | 30:45 | 10          | SE        | 10    | Light breeze |
| 85      | 31:00 | 10          | SE        | 10    | Light breeze |
| 86      | 31:15 | 10          | SE        | 10    | Light breeze |
| 87      | 31:30 | 10          | SE        | 10    | Light breeze |
| 88      | 31:45 | 10          | SE        | 10    | Light breeze |
| 89      | 32:00 | 10          | SE        | 10    | Light breeze |
| 90      | 32:15 | 10          | SE        | 10    | Light breeze |
| 91      | 32:30 | 10          | SE        | 10    | Light breeze |
| 92      | 32:45 | 10          | SE        | 10    | Light breeze |
| 93      | 33:00 | 10          | SE        | 10    | Light breeze |
| 94      | 33:15 | 10          | SE        | 10    | Light breeze |
| 95      | 33:30 | 10          | SE        | 10    | Light breeze |
| 96      | 33:45 | 10          | SE        | 10    | Light breeze |
| 97      | 34:00 | 10          | SE        | 10    | Light breeze |
| 98      | 34:15 | 10          | SE        | 10    | Light breeze |
| 99      | 34:30 | 10          | SE        | 10    | Light breeze |
| 100     | 34:45 | 10          | SE        | 10    | Light breeze |

Observer  
W. G. ...

Country

City

Date

Time

Temp

Dir

Force

Remarks

## NOTES ON THE TREATMENT OF VENEREAL DISEASES

Constant change occurs in treating these diseases as a result of cumulative experience. At the time of writing the methods used are as follows :—

### **Acute Syphilis.**

*Sero Negative Cases.* 3,600,000 units of penicillin over one week, followed by a course of twelve weekly injections of Arsenic and Bismuth.

*Sero Positive Cases.* Penicillin as above, but two courses of Arsenic and Bismuth, over a period of 24 weeks.

### **Gonorrhoea.**

*Males.* 200 and 250 thousand units of penicillin at an interval of four hours, followed by the usual tests of cure. Routine Wasserman reactions taken at 2 and 6 months to exclude possibility of masked syphilis.

*Females.* As above, but Sulphonamides by mouth in addition, usually for 3 days. Routine Wasserman reaction as above.

The incidence of frank jaundice has been very low, only 6 cases having been noted.

There were seven cases of dermatitis.

In order to keep the incidence of jaundice at a minimum, meticulous care has been taken over the question of syringe sterilisation and a new routine has been put into use.



# Tuberculosis

## REPORT OF THE TUBERCULOSIS OFFICER.

**Notifications.** During the year 1946, 334 cases were notified as suffering from Tuberculosis. This number included 284 Pulmonary (182 males and 102 females) and 50 Non-Pulmonary (28 males and 22 females).

This number shows a decrease of 4 on the previous year.

The details of the notifications during 1946 are as follows :—

| <i>Age<br/>Periods</i> | <i>Respiratory</i> |           | <i>Non-Respiratory</i> |           |
|------------------------|--------------------|-----------|------------------------|-----------|
|                        | <i>M.</i>          | <i>F.</i> | <i>M.</i>              | <i>F.</i> |
| 0-1 ... ..             | —                  | —         | —                      | —         |
| 1-5 ... ..             | —                  | 2         | 5                      | 5         |
| 5-15 ... ..            | 9                  | 10        | 6                      | 6         |
| 15-25 ... ..           | 49                 | 45        | 9                      | 4         |
| 25-35 ... ..           | 52                 | 26        | 6                      | 4         |
| 35-45 ... ..           | 30                 | 12        | —                      | 2         |
| 45-55 ... ..           | 27                 | 2         | 1                      | 1         |
| 55-65 ... ..           | 11                 | 3         | 1                      | —         |
| 65 and upwards         | 4                  | 2         | —                      | —         |
| Totals ...             | 182                | 102       | 28                     | 22        |

The age period 5-15 shews an increase in number compared with the previous year, this increase amounting to three times as many notifications from Pulmonary Tuberculosis in both sexes.

The numbers on the Notification Register at the end of the year were as follows :—

| <i>Pulmonary.</i> |                 |               | <i>Non-Pulmonary.</i> |                 |               | <i>Total<br/>cases.</i> |
|-------------------|-----------------|---------------|-----------------------|-----------------|---------------|-------------------------|
| <i>Males.</i>     | <i>Females.</i> | <i>Total.</i> | <i>Males.</i>         | <i>Females.</i> | <i>Total.</i> |                         |
| 726               | 481             | 1207          | 166                   | 204             | 370           | 1577                    |

There were 8 Posthumous Notifications during the year This number was composed of 6 Pulmonary and 2 Non-Pulmonary cases.

**Deaths.** Ninety cases who were on the Tuberculosis Dispensary Register died during 1946. This number shews a decrease of forty on the previous year.

At the end of the year 1946, the following number of patients were on the "live" Dispensary Register.

|                      | <i>Adults.</i> |                 | <i>Children.</i> |                 | <i>Totals.</i> |
|----------------------|----------------|-----------------|------------------|-----------------|----------------|
|                      | <i>Males.</i>  | <i>Females.</i> | <i>Males.</i>    | <i>Females.</i> |                |
| <i>Pulmonary ...</i> | 735            | 355             | 19               | 26              | 1135           |
| <i>Non-Pulmonary</i> | 63             | 59              | 31               | 43              | 196            |
| <b>Totals ...</b>    | 798            | 414             | 50               | 69              | 1331           |
|                      | 1212           |                 | 119              |                 |                |

**Dispensary.** During the year 1946, 1,746 New Cases were sent to the Tuberculosis Dispensary by Medical Practitioners. This figure shews an increase of 265 on the previous year

The following table shews the number of cases referred to the Tuberculosis Officer each year since 1937, and the number of contacts who have been examined for the same period. The twenty-three contacts found to be suffering from tuberculosis are included in the figure of 327 New Cases found to be definitely tuberculous.

| <i>Year.</i> | <i>New Cases.</i>         |                    |                                |                       | <i>Contacts.</i>          |                    |                                |                       |
|--------------|---------------------------|--------------------|--------------------------------|-----------------------|---------------------------|--------------------|--------------------------------|-----------------------|
|              | <i>Definitely Tuberc.</i> | <i>Non-Tuberc.</i> | <i>Diagnosis not completed</i> | <i>Total examined</i> | <i>Definitely Tuberc.</i> | <i>Non-Tuberc.</i> | <i>Diagnosis not completed</i> | <i>Total examined</i> |
| 1937         | 266                       | 649                | 78                             | 993                   | 8                         | 411                | 17                             | 436                   |
| 1938         | 232                       | 707                | 104                            | 1043                  | 7                         | 362                | 41                             | 410                   |
| 1939         | 297                       | 721                | 108                            | 1126                  | 4                         | 376                | 13                             | 393                   |
| 1940         | 247                       | 677                | 123                            | 1047                  | 10                        | 377                | 31                             | 508                   |
| 1941         | 208                       | 585                | 53                             | 846                   | 5                         | 163                | 4                              | 172                   |
| 1942         | 274                       | 744                | 57                             | 1075                  | 5                         | 224                | 7                              | 236                   |
| 1943         | 297                       | 1015               | 90                             | 1402                  | 4                         | 309                | 25                             | 338                   |
| 1944         | 260                       | 1077               | 81                             | 1418                  | 12                        | 378                | 10                             | 400                   |
| 1945         | 340                       | 987                | 154                            | 1481                  | 10                        | 461                | 9                              | 480                   |
| 1946         | 327                       | 1265               | 154                            | 1746                  | 23                        | 623                | 65                             | 711                   |

**Attendances.** The number of attendances of patients at the Tuberculosis Dispensary during the year, excluding those who attended for X-ray examination, and which are shewn elsewhere, totalled 14,007.

Since 1937 the attendances have been as follows :—

|      |     |     |     |     |        |
|------|-----|-----|-----|-----|--------|
| 1937 | ... | ... | ... | ... | 10,665 |
| 1938 | ... | ... | ... | ... | 9,638  |
| 1939 | ... | ... | ... | ... | 9,233  |
| 1940 | ... | ... | ... | ... | 8,599  |
| 1941 | ... | ... | ... | ... | 5,709  |
| 1942 | ... | ... | ... | ... | 7,270  |
| 1943 | ... | ... | ... | ... | 8,942  |
| 1944 | ... | ... | ... | ... | 9,506  |
| 1945 | ... | ... | ... | ... | 11,550 |
| 1946 | ... | ... | ... | ... | 14,007 |

**Evening Clinic.** The Thursday evening clinic has been well patronised and the attendances have increased considerably.

This clinic is now as large as the Monday and Wednesday afternoon clinics.

**Domiciliary Visiting.** *Tuberculosis Officer.* The Tuberculosis Officer paid 457 visits to patients at their homes or at hospitals.

*Nurses and Health Visitors.* The Health Visitors and Three Towns Nurses paid 3,150 visits to patients during the year.

**Consultations.** The following consultations were held by the Tuberculosis Officer during the year :—

|                            |     |     |     |     |      |
|----------------------------|-----|-----|-----|-----|------|
| Personal                   | ... | ... | ... | ... | 90   |
| Other than personal (T145) | ... | ... | ... | ... | 1542 |

**Special Forms of Treatment.** The Tuberculosis Officer gave the following special forms of treatment at the Dispensary during the year :—

|                                  |     |     |     |      |
|----------------------------------|-----|-----|-----|------|
| Artificial Pneumo-thorax refills | ... | ... | ... | 1288 |
| Injections of Tuberculin         | ... | ... | ... | 1103 |

**X-ray.**

The number of X-ray examinations made during the year amounted to 4,408. The following table shews the number of examinations made each year since 1937 :—

|      |     |     |     |     |       |
|------|-----|-----|-----|-----|-------|
| 1937 | ... | ... | ... | ... | 2,956 |
| 1938 | ... | ... | ... | ... | 3,344 |
| 1939 | ... | ... | ... | ... | 3,381 |
| 1940 | ... | ... | ... | ... | 3,617 |
| 1941 | ... | ... | ... | ... | 2,941 |
| 1942 | ... | ... | ... | ... | 3,901 |
| 1943 | ... | ... | ... | ... | 3,394 |
| 1944 | ... | ... | ... | ... | 4,097 |
| 1945 | ... | ... | ... | ... | 5,313 |
| 1946 | ... | ... | ... | ... | 4,408 |

Compared with the previous year, the number of X-Ray examinations shews a decrease of 905. This, however, is not a true indication of the work involved as the installation of a new X-Ray apparatus was commenced on the 4th February. This was completed on the 23rd March, 1946, when the X-Ray examinations were resumed.

**Bacteriological Work.**

The number of specimens of sputa, etc., which were tested during the year amounted to 1,195. The following table shows the number of specimens sent for examination since 1937 :—

|      |     |     |     |     |       |
|------|-----|-----|-----|-----|-------|
| 1937 | ... | ... | ... | ... | 1,567 |
| 1938 | ... | ... | ... | ... | 1,370 |
| 1939 | ... | ... | ... | ... | 1,259 |
| 1940 | ... | ... | ... | ... | 1,210 |
| 1941 | ... | ... | ... | ... | 762   |
| 1942 | ... | ... | ... | ... | 935   |
| 1943 | ... | ... | ... | ... | 1,036 |
| 1944 | ... | ... | ... | ... | 956   |
| 1945 | ... | ... | ... | ... | 1,138 |
| 1946 | ... | ... | ... | ... | 1,195 |

**Institutional Treatment.**

There is still a lengthy "Waiting List" for both Didworthy Sanatorium and Mount Gold Pulmonary Section. The position was eased a little for male beds at Didworthy by opening a ward at Swilly Hospital during the year. This ward takes fifteen cases.

We have now a total of 219 beds for Pulmonary cases at Didworthy, Mount Gold and Swilly Isolation Hospital.

**Voluntary Organisations.** *Tuberculosis Care and After-Care Committee.* This Committee still continues to do useful work in helping both patients and their families in many ways.

Some members of this Committee have been very helpful in arranging distribution of clothing, food, etc., which has been sent from Australia and other places.

This organisation has been curbed somewhat in its activities in supplying clothing, owing to the scarcity of clothing coupons.

*Council of Social Service.* This organisation has worked smoothly with the Tuberculosis Care and After-Care Committee. There has been close co-operation in arranging for the distribution of various gift parcels from overseas.

**Allowances and Grants.** The following details of the work carried out under Memorandum 266/T are given below.

136 applications for financial assistance were dealt with from those having institutional or domiciliary treatment, as given in the following table :—

|   |     |     |       |             |
|---|-----|-----|-------|-------------|
| Didworthy Sanatorium                          | ... | ... | ...   | 22          |
| Mount Gold Hospital                           | ... | ... | ...   | 14          |
| City Isolation Hospital                       | ... | ... | ...   | 10          |
| Domiciliary—Waiting admission to institutions | ... | ... | ...   | 46          |
| Discharged from institutions                  |     |     |       | 41          |
| Being treated at home (Observation)           | ... | ... | ...   | 3           |
|   |     |     |       | <hr/>       |
|   |     |     | Total | 136         |
|   |     |     |       | <hr/> <hr/> |

One hundred and twenty-six of the applications were eligible to receive allowances and financial assistance was granted in respect of the undermentioned classes of payments :—

|  |     |     |       |             |
|--|-----|-----|-------|-------------|
| Maintenance Allowances                   | ... | ... | ...   | 94          |
| Maintenance and Discretionary Allowances |     |     |       | 2           |
| Discretionary Allowances                 | ... | ... | ...   | 3           |
| Special Payments                         | ... | ... | ...   | 27          |
|  |     |     |       | <hr/>       |
|  |     |     | Total | 126         |
|  |     |     |       | <hr/> <hr/> |

Discretionary Allowances were granted in response to :—

4 applications for rent.

1 application for insurance premiums.

Special payments granted were made in respect of applications for Pocket-Money Allowances, and, in one instance, for rent.

One hundred and eight variations in payments were made to applications on account of various changes in circumstances.

| Amounts of allowances paid :— | £      | s. | d. |
|-------------------------------|--------|----|----|
| Maintenance Allowances ...    | 5,193  | 13 | 3  |
| Discretionary Allowances ...  | 80     | 16 | 2  |
| Special Payments ...          | 245    | 10 | 4  |
| Total ...                     | £5,519 | 19 | 9  |

This total payment shews an increase over last year's expenditure of more than £800.

There were 27 more applications for financial assistance and 30 more patients were eligible to receive allowances and financial assistance. Owing to the scheme, patients have been more ready to accept Sanatorium Treatment as their financial worries have been reduced. It is, however, regretted that the scheme does not yet include all forms of tuberculosis.

BEAUMONT HOUSE DENTAL CLINIC, 1946.

| Department         | New Patients. | Attendances | Perm. Extractions | Temp. Extractions | Local Anesthetic | Simple Anesthetic | Prolonged Anesthetic | Fillings. | Scalings. | Dentures Patients Supplied. | Repairs. | Regulation Apparance. | Other Operations. |
|--------------------|---------------|-------------|-------------------|-------------------|------------------|-------------------|----------------------|-----------|-----------|-----------------------------|----------|-----------------------|-------------------|
| M. & C. W. ...     | 345           | 808         | 777               | 207               | 62               | 61                | 62                   | 129       | 59        | 66                          | 8        | —                     | 389               |
| Tuberculosis ...   | 148           | 607         | 221               | 2                 | 113              | —                 | 6                    | 240       | 77        | 26                          | 17       | —                     | 194               |
| Social Welfare ... | 56            | 203         | 271               | —                 | 46               | —                 | 8                    | 3         | 8         | 24                          | 12       | —                     | 106               |
| Police ...         | 34            | 203         | 58                | —                 | 12               | —                 | 2                    | 76        | 43        | 12                          | 8        | —                     | 174               |
| City Hospital ...  | 48            | 32          | 159               | —                 | 18               | —                 | 9                    | —         | —         | 1                           | —        | —                     | —                 |
| School Medical ... | —             | —           | —                 | —                 | —                | —                 | —                    | —         | —         | 2                           | —        | 36                    | 1                 |

VISITS TO INSTITUTIONS.

|                          |    |
|--------------------------|----|
| Didworthy ...            | 27 |
| Mount Gold ...           | 26 |
| City Hospital ...        | 29 |
| Queen's Gate Nursery ... | 1  |
| Swilly Hospital ...      | 3  |
| Day Nurseries ...        | 6  |

# Mount Gold and Orthopaedic Tuberculosis Hospital

## REPORT OF THE MEDICAL SUPERINTENDENT.

**General Remarks.** Plans have been submitted for the construction of out-patients, fracture and physiotherapy departments, for enlargement of the existing operating theatre unit, and for an administrative block.

In order to provide accommodation for resident nursing staff and nurses in training, and facilities for non-resident and part-time nursing staff, considerable extension of the existing Nurses Home is required.

**Orthopaedic Hospital.** This section of 120 beds has remained with two large wards of 46 beds occupied by adults and the small ward of 28 beds for children.

The number of patients admitted during the year was 614, the total number of patient days being 37,405 and the average bed occupation 102. This includes 131 E.M.S. cases, accounting for 7,233 patient days and an average bed occupation of 20. The waiting list on the 31st December, 1946, was 45.

Acute fracture cases are received at the request of the City and Prince of Wales's Hospitals.

The number of cases admitted under the provisions of the Plymouth and South-West Hospitals Contributory Scheme was 163, and 96 Plymouth school children were admitted under provisions of the Education Act, 1944.



Admissions for the past five years are tabulated for comparison :—

| <i>Plymouth Cases.</i>              | 1946       | 1945       | 1944       | 1943       | 1942       |
|-------------------------------------|------------|------------|------------|------------|------------|
| Tuberculosis Department             | 75         | 68         | 58         | 61         | 65         |
| M. & C.W. Department                | —          | 5          | 7          | 8          | 9          |
| School Medical Department           | 96         | 19         | 6          | 18         | 16         |
| Other Plymouth Cases                | 214        | 180        | 127        | 148        | 134        |
| <b>Total Plymouth Cases</b>         | <b>385</b> | <b>272</b> | <b>198</b> | <b>235</b> | <b>224</b> |
| <i>Non-Plymouth Cases.</i>          |            |            |            |            |            |
| Devon County Council ...            | 54         | 34         | 24         | 19         | 22         |
| Cornwall County Council             | 7          | 5          | 9          | 13         | 9          |
| Devonian Orthopædic Association ... | 5          | 1          | —          | 4          | 4          |
| Other Cases ...                     | 32         | 17         | 8          | 16         | 29         |
| <b>Total Non-Plymouth Cases</b>     | <b>98</b>  | <b>57</b>  | <b>41</b>  | <b>52</b>  | <b>64</b>  |
| <i>E.M.S. Cases</i>                 |            |            |            |            |            |
| Service ...                         | 87         | 132        | 129        | 178        | 85         |
| Civilian ...                        | 44         | 51         | 50         | 90         | 59         |
| <b>Total E.M.S. Cases ...</b>       | <b>131</b> | <b>183</b> | <b>179</b> | <b>268</b> | <b>144</b> |
| <b>Grand Total of Admissions</b>    | <b>614</b> | <b>512</b> | <b>418</b> | <b>555</b> | <b>434</b> |
| <b>Total Discharges ...</b>         | <b>667</b> | <b>513</b> | <b>439</b> | <b>554</b> | <b>388</b> |

The following table classifies the types of cases admitted during the last five years:—

|  | 1946 | 1945 | 1944 | 1943 | 1942 |
|--|------|------|------|------|------|
| 1. Tuberculosis of Bones and Joints ... .. | 90   | 97   | 114  | 68   | 92   |
| 2. Poliomyelitis                           |      |      |      |      |      |
| (a) Acute ... ..                           | 2    | —    | —    | —    | —    |
| (b) Chronic ... ..                         | 11   | 14   | 11   | 6    | 6    |
| 3. Congenital Deformities                  | 53   | 38   | 26   | 25   | 35   |
| 4. After results of Injuries               | 51   | 52   | 37   | 26   | 32   |
| 5. Osteomyelitis—                          |      |      |      |      |      |
| (a) Acute ... ..                           | 11   | —    | —    | —    | —    |
| (b) Chronic ... ..                         | 9    | 18   | 12   | 21   | 11   |
| 6. Chronic Arthritis ... ..                | 29   | 24   | 21   | 25   | 28   |
| 7. Rickets ... ..                          | —    | —    | 2    | 2    | 2    |
| 8. Peripheral Nerve Injuries .. ..         | 8    | 34   | —    | —    | —    |
| 9. Fractures ... ..                        | 214  | 135  | 148  | 313  | 129  |
| 10. Other Conditions ... ..                | 136  | 101  | 41   | 75   | 61   |

**Operating Theatre.**

A total of 570 operations and manipulations were performed during the year. The classification of

operations being as follows:—

|  | <i>Ordinary</i> | <i>E.M.S.</i> |
|--|-----------------|---------------|
| Arthrotomy ... ..                          | 3               | —             |
| Arthroplasty ... ..                        | 6               | —             |
| Arthrodesis ... ..                         | 33              | 2             |
| Amputations ... ..                         | 19              | 2             |
| Spinal Bone Graft ... ..                   | 17              | —             |
| Operative reduction of fractures ... ..    | 36              | 3             |
| Manipulative reductior of fractures ... .. | 6               | —             |
| Manipulations under anæsthesia ... ..      | 174             | 5             |
| Other operations ... ..                    | 247             | 17            |

The following is a summary of the work of the last five years :—

|                                | 1946 | 1945 | 1944 | 1943 | 1942 |
|--------------------------------|------|------|------|------|------|
| Surgical Operations ... ..     | 391  | 270  | 208  | 183  | 157  |
| Manipulations under anæsthesia | 179  | 54   | 99   | 139  | 95   |
| Aspirations ... ..             | 12   | 7    | 19   | 57   | 28   |
| Pathological Examinations ...  | 10   | 120  | 145  | 159  | 35   |

**X-Ray Department.** Pending the delivery of the Watson "Roentgen Four" Unit the makers have supplied a "Double Twin" model generator which is now giving satisfactory service. It is hoped the complete unit will be delivered within the near future.

A total of 1,903 X-rays were taken and 3,827 films were used. An analysis of the work is given below :—

|                             | 1946        | 1945        | 1944        | 1943        | 1942       |
|-----------------------------|-------------|-------------|-------------|-------------|------------|
| Tuberculosis Department ... | 463         | 335         | 338         | 284         | 236        |
| M. & C.W. Department ...    | 73          | 38          | 48          | 26          | 19         |
| School Medical Department   | 105         | 88          | 90          | 65          | 23         |
| Other Plymouth Cases ... .. | 920         | 376         | 410         | 464         | 320        |
| Devon County Council ... .. | 12          | 13          | 22          | 29          | 38         |
| Cornwall County Council ... | 4           | 7           | 7           | 12          | 11         |
| E.M.S. ... ..               | 186         | 383         | 520         | 739         | 245        |
| Others ... ..               | 140         | 28          | 48          | 88          | 78         |
| <b>Totals ... ..</b>        | <b>1903</b> | <b>1268</b> | <b>1483</b> | <b>1707</b> | <b>970</b> |

**Orthopaedic Clinics.** Mr. Capener holds an out-patient clinic on the second Friday of each month and Mr. Lillie on each Thursday afternoon. The Thursday afternoon clinic is held temporarily in the Astor Institute, pending the provision of an out-patient department.

Fracture clinics are held by Mr. Lillie on Tuesday afternoons.

The following table shows the increase in out-patient attendances during the past four years :—

|  | 1946 | 1945 | 1944 | 1943 |
|--|------|------|------|------|
| Number of initial examinations by the surgeons ... ..    | 441  | 278  | 285  | 336  |
| Number of subsequent examinations by the surgeons ... .. | 3883 | 1643 | 1435 | 856  |

In addition to these, 38 fracture cases and 192 other injuries were treated as out-patients.

Patients who attended during 1946 :—

|  | <i>New Patients.</i> | <i>Old Patients.</i> |
|--|----------------------|----------------------|
| Tuberculosis Department ... ..         | 11                   | 390                  |
| M. & C.W. Department ... ..            | 61                   | 82                   |
| School Medical Department ... ..       | 45                   | 440                  |
| Other Plymouth Cases ... ..            | 359                  | 1285                 |
| Plymouth Public Assistance ... ..      | 1                    | 7                    |
| Devon County Council ... ..            | 5                    | 38                   |
| Cornwall County Council ... ..         | 3                    | 25                   |
| Devonian Orthopædic Association ... .. | 1                    | 19                   |
| E.M.S. ... ..                          | 32                   | 296                  |
| Private ... ..                         | 23                   | 124                  |
| Others ... ..                          | 2                    | 18                   |

**Physiotherapy Department.** During the year 194 in-patients and 441 out-patients received treatment in this department. There were 10,408 attendances in all. The full establishment of five Physiotherapists was not reached during 1946, but it is anticipated that this establishment will be attained during 1947.

The table shows the various departments from which the patients were sent:—

|  | <i>In-Patients.</i> | <i>Out-Patients.</i> |
|--|---------------------|----------------------|
| Tuberculosis Department ... ..         | 17                  | 23                   |
| M. & C.W. Department ... ..            | 1                   | 49                   |
| School Medical Department ... ..       | 6                   | 19                   |
| Other Plymouth Cases ... ..            | 109                 | 265                  |
| Devon County Council ... ..            | 4                   | 1                    |
| Cornwall County Council ... ..         | 2                   | 9                    |
| Devonian Orthopædic Association ... .. | 2                   | —                    |
| Others ... ..                          | 5                   | 12                   |
| Staff ... ..                           | 4                   | 2                    |
| E.M.S. ... ..                          | 44                  | 61                   |
| Total treatments given... ..           | 4475                | 5933                 |

**Orthopaedic Hospital School.** Classes are held in the Children's Ward, and for older girls of school age in the Women's Ward. The School re-opened on the 14th January, 1946, with 26 pupils (13 girls and 13 boys). During the year there were 28 new entries (17 boys and 11 girls) making a total of 54 children who have received instruction during the year. Of these, 33 were discharged, leaving 21 on the register on the 20th December. Of the 54 who attended school during the year 34 were of normal school age and 20 of nursery school age.

The school was opened 377 times with a total attendance of 7,928, making an average attendance of 21.01 out of a possible attendance of 22.84.

A link with outside activities is maintained through the Leaders of the Girl Guides, Brownies and Scout Troops.

**Occupational Therapy.** During the year 358 patients received training in Occupational Therapy. 3,437 articles have been made. The scope of the work is limited by its having to be carried out in the Wards, and is confined to stool seating, leatherwork, plastic work, lampshade making, embroidery, glove making, weaving, toy making, felt work, rug making and dressmaking.

A report on the Orthopædic Hospital would not be complete without expressing the sincere regrets of the whole hospital staff and patients alike, at the retirement of Mr. Charles Kennedy from his appointment as Consulting Orthopædic Surgeon.

The best wishes of all go with him, and hopes that the hospital will not lose contact with him have been fulfilled by his visiting as a Consulting General Surgeon.

**Pulmonary  
Tuberculosis  
Section.**

During the year 125 patients have been admitted, of whom 41 were Ex-Service men. 79 cases have been discharged, 4 transferred to Didworthy Sanatorium and 2 transferred to the Orthopædic Hospital. There have been 34 deaths during the year. The total number of in-patient days was 29,439 and the average bed occupation was 81. The following table is comparative for the last five years :—

|                   | 1946 | 1945 | 1944 | 1943 | 1942 |
|-------------------|------|------|------|------|------|
| Admissions ... .. | 125  | 147  | 125  | 136  | 120  |
| Discharges ... .. | 79   | 96   | 48   | 47   | 59   |
| Deaths ... ..     | 34   | 57   | 57   | 50   | 41   |

44 patients received treatment with gold preparations. Artificial Pneumothorax was induced in 4 cases and 505 refills were given. Nine cases were treated by Pneumoperitoneum. Four cases were treated by combined Phrenic evulsion and Pneumoperitoneum.

Surgical treatment was recommended and carried out by Mr. Wilson as follows :—

|                         |   |
|-------------------------|---|
| Phrenic Evulsion ... .. | 4 |
| Phrenic Crush ... ..    | 1 |

319 out-patient attendances were made for supervision and continuation of pneumothorax therapy.

Mr. R. Belsey, the Consulting Thoracic Surgeon, visited the hospital for the first time in December, 1946.

Instruction in Occupational Therapy is given to those cases in which it is indicated or desired by the patient.

The patients' library has been kept well up to date with the able help of the Hon. Librarian. Thanks are expressed to Mrs. Trethewey for her excellent work in building up the library service. Financial help from the Tuberculosis Care and After-Care Committee is gratefully acknowledged.

# Didworthy Sanatorium

## REPORT OF THE MEDICAL SUPERINTENDENT.

Total beds available—107 (61 for men and boys and 46 for women and girls.

**Admissions.** The total number of admissions for the year was 130 ; 74 men, 47 women, 6 boys and 3 girls, of whom 118 were sent by the City of Plymouth, and 12 (9 men and 3 women) were sent by the County of Cornwall.

### Classification of Admissions :—

|                           | <i>Men.</i> | <i>Women.</i> | <i>Boys.</i> | <i>Girls.</i> |        |
|---------------------------|-------------|---------------|--------------|---------------|--------|
| Pulmonary minus cases ... | 43          | 34            | 6            | 3             | 66.15% |
| Pulmonary plus 1 cases... | 5           | 2             | —            | —             | 5.38%  |
| Pulmonary plus 2 cases... | 20          | 8             | —            | —             | 21.53% |
| Pulmonary plus 3 cases... | 6           | 3             | —            | —             | 6.92%  |

N.B.—Of the cases admitted "Pulmonary minus," 25 were found to be "Pulmonary plus" on investigation at the Sanatorium, this represents 29.07% of the "Pulmonary minus" cases admitted and 19.23% of the total number of patients admitted during the year.

**Discharges.** The total number of discharges for the year was 127 ; 68 men, 57 women and 2 boys, of whom 120 were sent by the City of Plymouth, and 7 (6 men and 1 woman) were sent by the County of Cornwall.

### Classification of Discharges :—

|                           |                     | <i>Men.</i> | <i>Women.</i> | <i>Boys.</i> |
|---------------------------|---------------------|-------------|---------------|--------------|
| Pulmonary<br>minus cases  | Quiescent ... ..    | 18          | 18            | 2            |
|                           | Very much improved  | 4           | 8             | —            |
|                           | Not improved ... .. | —           | —             | —            |
| Pulmonary<br>plus 1 cases | Quiescent ... ..    | 5           | 5             | —            |
|                           | Very much improved  | 1           | 1             | —            |
|                           | Not improved ... .. | —           | —             | —            |
| Pulmonary<br>plus 2 cases | Quiescent ... ..    | 9           | 3             | —            |
|                           | Very much improved  | 21          | 16            | —            |
|                           | Not improved ... .. | —           | 1             | —            |
| Pulmonary<br>plus 3 cases | Quiescent ... ..    | 1           | —             | —            |
|                           | Very much improved  | 4           | 2             | —            |
|                           | Not improved ... .. | 2           | 1             | —            |
| Non-Pulmonary<br>cases    | Quiescent ... ..    | —           | —             | —            |
|                           | Very much improved  | 1           | —             | —            |
|                           | Not improved ... .. | —           | —             | —            |
| Deaths ... ..             | ...                 | 2           | 2             | —            |
|                           |                     | 68          | 57            | 2            |

Summarising this we get the following :—

- 48.03% cases discharged “ Quiescent.”
- 45.7 % cases discharged “ Very much improved.”
- 3.15% cases discharged “ Not improved.”
- 3.15% cases died in the Institution.

The total number of patients treated during the year was 227.

**Bed Occupation.** The total number of patient days for the year was 37,314. An average struck over the whole year shows the average bed occupation to have been 102.23 patients each day.

The average length of stay of cases discharged during the year was 354.27 days.

The total number of bed patient days was 19,776, which represents 52.99% patients in bed daily of the total number of cases treated.

**Pathological Tests.** The total number of sputum examinations during the year was 485.

The total number of urine examinations during the year was 530.

The total number of Erythrocyte Sedimentation tests during the year was 620.

Other pathological examinations such as Pleural fluids, etc., during the year was 56.

**Specialised Treatments.**

(a) *Artificial Pneumothorax Therapy.*

|  |    |
|--|----|
| Total number of patients treated during the year | 56 |
| Total number of attempted inductions ... ..      | 25 |
| Number of successful inductions ... ..           | 22 |
| Number of unsuccessful inductions ... ..         | 3  |

(Due to adherent Pleura.)

This has necessitated a total of 774 refills.

N.B.—Three of the above cases were bilateral Artificial Pneumothorax cases.



(b) *Pneumo Peritoneum Therapy.*

Since we have had our X-ray Plant we have been able to undertake this type of treatment.

During this year we induced Pneumo-Peritoneum in 22 patients.

In 7 of these cases the Pneumo-Peritoneum was combined with Phrenic Crush.

This form of treatment has necessitated 181 refills.

(c) *Phrenic Crush*—17 cases.

(d) *Thoracoplasty*—6 cases.

These patients were temporarily transferred to Frenchay Hospital, Bristol, for this operation, under the care of Mr. Ronald Belsey, the Thoracic Surgeon.

(e) *Division of Adhesions.*

Number of division of adhesions in cases of Artificial Pneumothorax—7.

(f) *Aspirations of Chest.*

Aspirations of Chest for Pleural effusions, etc., 18.

(g) *Aurotherapy.*

During the year we treated 11 patients by injections of gold salts (Aurotherapy).

(h) *Tuberculin Injections.*

During the year we have treated a number of non-Pulmonary Tuberculosis lesions by the above method.

This year we have been successful in obtaining the services of Mr. Ronald Belsey, M.S., F.R.C.S., of the Thoracic Surgery Unit, Frenchay Hospital, Bristol.

Now that we are equipped, minor surgery such as Adhesion Section and Phrenic Crushes are undertaken at the Sanatorium, and patients needing major surgery such as Thoracoplasty are temporarily transferred to Frenchay Hospital. This is a great advantage as all forms of modern treatment are now being given to our patients.

**Treatment Block.**

During this year B1 Block, a large Ward which was constructed during the war, was converted into a Treatment Block which consists of an X-ray Department, Operating Theatre Dental Surgery and Examination Room.

*X-ray Department.*—This new Department was opened on the 23rd April, 1946, with the installation of a Watson Rontgen 4 X-ray Unit with rotating Anode Tube and R50 Tilting Couch.

This installation has greatly increased the scope and safety of collapse therapy, and at present about 40% of our patients are undergoing collapse therapy.

We are now able to undertake bilateral Artificial Pneumothorax work and Pneumo-Peritoneum work on an extensive scale.

The number of X-ray photographs taken from the date of installation until the end of the year was 570, and the number of Screen examinations was 1,120.

I may say that all members of the staff are X-rayed at least every six months.

*Operating Theatre.*—We now have a modernly equipped Theatre and we were fortunate in obtaining much of our equipment from Manadon U.S. Emergency Hospital.

*Dental Clinic.*—The Treatment Block is also equipped with a Dental Clinic complete with a Ritter Unit.

Mr. A. Maughan, L.D.S., attends at the Sanatorium for one day each fortnight, and all new cases have a dental inspection and appropriate dental treatment is given.

*Examination Room.*—This Block also contains an Examination Room in which patients are interviewed and examined.

*Ear, Nose and Throat Treatment.*—We have also had the services of Mr. Howarth, the Ear, Nose and Throat Specialist, who visits the Institution at least once a month.

*Ward Kitchens.*—Since the construction of the Treatment Block we have been able to release the rooms on the various Wards that were used for medical and dental treatment and these rooms have now been converted into Ward Kitchens and Duty Rooms.

This improvement has greatly helped our catering facilities and the Nurses in their work on the Wards.

During the year electrical sterilizers have been installed in the Ward Kitchens and in the main pantry in order that all patients' crockery and utensils may be sterilized.

**Nurses' Training.**

During the month of November we were inspected by a representative of the General Nursing Council and passed as a Training School within the comprehensive training scheme for the Municipal Hospitals.

**Occupational Therapy.**

As the patient's health improves, the urge and desire comes to undertake something to relieve the boredom of bedrest, and to this end a programme is evolved to encourage the patient to interest himself or herself in handicraft work and thus proceed through easy stages to a return to normal working life.

When the patient is considered fit enough, he or she is permitted to undertake interesting handicraft work under the experienced guidance of our Handicrafts Instructor. For the first stage the patient is invited to choose a handicraft of a light nature which may be undertaken while the patient rests in bed, such as tapestry work, rug-making, leatherwork, soft toy-making and needlecraft of all kinds. When the patient is fit enough to get up all day he commences a further stage which entails more exercise with the ultimate object of being able to undertake a normal working life on his discharge from the Sanatorium.

The work undertaken by the men patients included repairs to articles of furniture, minor repairs to buildings and huts, e.g. locks, bolts, window sashes, flooring and roofing. During this year in particular the patients renewed over 70 square feet of flooring, including new joists, etc., in one of the cubicles on E Block.

The patients also make new bed-rests, bed tables, screens and other items of furniture for the Sanatorium use.

Of special mention was the fitting out by the Handicrafts Department of the Ward Kitchens with plate racks and cupboards, the equipping of Duty Rooms with dressers and medicine cupboards and the fitting up of the sluices with toilet racks.

The patients also made new fire appliance lockers throughout the Institution.

Classes are given for the women patients each afternoon. Instruction is given in light woodwork, and the patients have made such articles as light tables, small cupboards, fire-screen stands, photograph frames, small boxes of various shapes and wooden toys.

The women are keenly interested in this type of work and are more than pleased with the articles they have been allowed to make, especially as they are permitted to purchase their own handiwork at cost price for the materials used.

**Patients' Entertainment.** Patients' entertainment has been well catered for this year.

With the accrued dividends of the Bolitho Trust Fund we purchased a Gaumont British Sound Film Projector of the latest type at a cost of £250 including accessories, and we are now able to give weekly film exhibitions for the patients and staff.

The patients express a decided preference for film shows to concert parties. We have, however, had on an average one concert party per month arranged by Mr. S. F. Gale, the Methodist Lay Reader, to whom we should like to express our appreciation for his efforts.

A mixed Whist Drive is held for the patients every fortnight. The cost of the prizes, which are given in the form of Savings Stamps, is defrayed by the Patients' Canteen Fund.

Many comforts for our patients such as bed jackets, various articles of clothing, handicraft material, cigarettes and honey have been supplied by the British Red Cross Society and Order of St. John and the W.V.S.

The representative of the British Red Cross Society visits the patients at least once a week.

Many comforts for our Service patients have also been supplied through the kind offices of Major C. S. Griffin, O.B.E., the Military Registrar for this District.

He or his representative visits the Institution once a week and helps or advises where necessary, all our Service cases.

**Redecoration and Building Construction.** During the year we have redecorated all the Male Patients' Wards, the Men's Recreation Room, the Kitchens and the ground floor of A Block which is occupied by women patients.

**Staff Bungalows.** Owing to the difficulty in obtaining staff and being unable to offer accommodation to married men, the Committee purchased a field opposite the Sanatorium and on the site eight four-roomed bungalows are in course of construction.

We feel that this innovation will greatly help us in obtaining staff.

For many years we have felt that our greatest difficulty in obtaining good staff was due to the fact that we could not offer accommodation for married men.

# The City General Hospital

## REPORT OF THE MEDICAL SUPERINTENDENT.

The following table summarises certain statistics of a general nature on the work of the City General Hospital during the year ended 31st December, 1946 :—

|      |  |     |     |     |     |            |
|------|--|-----|-----|-----|-----|------------|
| (1)  | Number of admissions, including infants born in the Hospital | ... | ... | ... | ... | 6007       |
| (2)  | Number of discharges   | ... | ... | ... | ... | 5452       |
| (3)  | Number of deaths   | ... | ... | ... | ... | 526        |
| (4)  | Patients treated to a conclusion                             | ... | ... | ... | ... | 5978       |
| (5)  | Duration of stay of patients treated to a conclusion :       |     |     |     |     |            |
|      | (a) Under four weeks   | ... | ... | ... | ... | 5281       |
|      | (b) Over four weeks and under thirteen weeks                 | ... | ... | ... | ... | 582        |
|      | (c) Thirteen weeks or more                                   | ... | ... | ... | ... | 115        |
| (6)  | In-patient days  | ... | ... | ... | ... | 120,594    |
| (7)  | Average duration of stay                                     | ... | ... | ... | ... | 20.08 days |
| (8)  | Number of available beds                                     | ... | ... | ... | ... | 450        |
| (9)  | Number of beds occupied :                                    |     |     |     |     |            |
|      | (a) Average  | ... | ... | ... | ... | 330.39     |
|      | (b) Highest—on 11/12/46                                      | ... | ... | ... | ... | 368        |
|      | (c) Lowest—on 5/6/46   | ... | ... | ... | ... | 302        |
| (10) | Number of women confined in Hospital                         | ... | ... | ... | ... | 814        |
| (11) | Number of live births  | ... | ... | ... | ... | 784        |
| (12) | Number of stillbirths  | ... | ... | ... | ... | 46         |
| (13) | Deaths of newly born (under 4 weeks)                         | ... | ... | ... | ... | 53         |
| (14) | Number of maternal deaths                                    | ... | ... | ... | ... | 6          |
| (15) | Number of surgical operations                                | ... | ... | ... | ... | 2163       |
| (16) | Number of X-ray investigations                               | ... | ... | ... | ... | 4008       |
| (17) | Number of pathological investigations                        | ... | ... | ... | ... | 4923       |
| (18) | Number of patients treated in Dental Department              | ... | ... | ... | ... | 48         |

**Nurses' Training School.** The following results were obtained in the Nurses' Training School during the year:—

(A) STATE REGISTRATION EXAMINATIONS.

|                             | <i>Entered.</i> | <i>Passed.</i> | <i>Re-entries.</i> |
|-----------------------------|-----------------|----------------|--------------------|
| Preliminary Examination ... | 26              | 24             | 4                  |
| State Final Examination ... | 16              | 15             | 3                  |

(B) CERTIFICATE OF THE CENTRAL MIDWIVES BOARD. PART I.

| <i>Entered.</i> | <i>Passed.</i> | <i>Re-entries.</i> |
|-----------------|----------------|--------------------|
| 53              | 44             | 7                  |

STATISTICAL TABLES.

|  |      |
|--|------|
| Patients remaining in hospital—1st Jan., 1946 ...  | 295  |
| Patients admitted ...                              | 5223 |
| Births ...   | 784  |
|  | 6302 |
| Patients discharged ...                            | 5452 |
| Patients died ...                                  | 526  |
|  | 5978 |
| Patients treated to a conclusion ...               | 5978 |
| Patients remaining in hospital—31st Dec., 1946 ... | 323  |

ADMISSIONS—AGE AND SEX DISTRIBUTION.

|                  | <i>Male.</i> | <i>Female.</i> | <i>Total</i> |
|------------------|--------------|----------------|--------------|
| Births ...       | 408          | 376            | 784          |
| Under 1 year ... | 180          | 77             | 257          |
| 1-3 years ...    | 53           | 39             | 92           |
| 3-5 years ...    | 60           | 38             | 98           |
| 5-11 years ...   | 354          | 251            | 605          |
| 11-16 years ...  | 134          | 128            | 262          |
| Adults ...       | 1255         | 2654           | 3909         |
|                  | 2444         | 3563           | 6007         |

Thus of 4,193 patients admitted for treatment during the year (excluding maternity cases and births); 1,314 were under the age of 16 years (31.33%) and 1,052 were under the age of 11 years (25.08%).

## ANALYSIS OF DEATHS IN AGE GROUPS.

Total number of deaths=526.

| <i>Ages.</i>        | <i>Male.</i> | <i>Female.</i> | <i>Total.</i> |
|---------------------|--------------|----------------|---------------|
| Under 1 year ... .. | 70           | 33             | 103           |
| 1 to 5 „ ... ..     | 4            | 2              | 6             |
| 5 to 10 „ ... ..    | —            | 2              | 2             |
| 10 to 15 „ ... ..   | 5            | 1              | 6             |
| 15 to 25 „ ... ..   | 1            | 5              | 6             |
| 25 to 35 „ ... ..   | 5            | 7              | 12            |
| 35 to 45 „ ... ..   | 9            | 11             | 20            |
| 45 to 55 „ ... ..   | 16           | 14             | 30            |
| 55 to 65 „ ... ..   | 57           | 31             | 88            |
| 65 to 75 „ ... ..   | 56           | 53             | 109           |
| Over 75 „ ... ..    | 66           | 78             | 144           |
|                     | 289          | 237            | 526           |
|                     | 289          | 237            | 526           |

Deaths within 24 hours of admission—98=18.63%.

*Causes* :—

Neonatal ... .. 25

Terminal—

Acute disease ... .. 40

Chronic Disease ... .. 33



## ANALYSIS OF WORK OF DEPARTMENTS.

**General.** The inset table gives details of the work of all the departments of the hospital in the form of a classification of all patients treated to a conclusion.

### OPERATIONS IN MAIN THEATRE:

|                                       |     |     |     |      |
|---------------------------------------|-----|-----|-----|------|
| Abdominal: Major                      | ... | ... | ... | 333  |
| Gynæcological:                        |     |     |     |      |
| Major                                 | ... | ... | ... | 238  |
| Minor                                 | ... | ... | ... | 307  |
| Cæsarean Operations                   | ... | ... | ... | 87   |
| Genito-Urinary:                       |     |     |     |      |
| Major                                 | ... | ... | ... | 67   |
| Minor                                 | ... | ... | ... | 119  |
| Ear, Nose and Throat                  | ... | ... | ... | 581  |
| Minor operations not included above   | ... | ... | ... | 403  |
| Others:—Thoracic                      | ... | ... | ... | 20   |
| Amputations                           | ... | ... | ... | 8    |
| Emergency operations                  | ... | ... | ... | 359  |
| (22.7%, excluding E.N.T. operations). |     |     |     |      |
| Total number of surgical operations   | ... | ... | ... | 2163 |

### MATERNITY DEPARTMENT.

|   |     |     |                    |
|---|-----|-----|--------------------|
| Number of available beds                  | ... | ... | 36                 |
| Number of patients admitted               | ... | ... | 1030               |
|   |     |     | (including babies) |
| Number of patients delivered by:          |     |     |                    |
| (a) Midwives                              | ... | ... | 653                |
| (b) Doctors                               | ... | ... | 161                |
| Number of patients discharged undelivered |     |     | 93                 |

#### *Mothers:*

814 mothers gave birth to 832 children. There were 18 cases of twin birth. 528 mothers received gas and air analgesia.

#### *How Admitted:*

|                           |     |     |     |
|---------------------------|-----|-----|-----|
| Through Ante-Natal Clinic | ... | ... | 649 |
| Emergency                 | ... | ... | 165 |

#### *Parous State:*

|           |     |     |     |
|-----------|-----|-----|-----|
| Primipara | ... | ... | 382 |
| Multipara | ... | ... | 432 |

**Presentations:**

|                           |     |
|---------------------------|-----|
| Vertex ... ..             | 751 |
| Breech—Complicated ... .. | 39  |
| „ Uncomplicated ... ..    | 37  |
| Shoulder ... ..           | 1   |
| B.B.A. ... ..             | 4   |

**Obstetrical Operations:**

|                                     |    |
|-------------------------------------|----|
| Instrumental deliveries ... ..      | 58 |
| Surgical induction of labour ... .. | 45 |
| Cæsarean operations ... ..          | 87 |
| Internal Version ... ..             | 1  |
| Maternal deaths ... ..              | 6  |

| <i>Whether Admitted from A.N. Clinic.</i> | <i>Mode of Delivery.</i> | <i>Cause of Death.</i>  | <i>Number of Cases.</i> |
|---|--------------------------|---|-------------------------|
| No.                                       | Cæsarean delivery.       | Cardiac failure. Pulmonary embolism following Cæsarean operation for shoulder presentation... | 1                       |
| No.                                       | Cæsarean                 | Toxæmia of pregnancy. Hysterotomy; hypostatic pneumonia ...                                   | 1                       |
| No.                                       | Undelivered.             | Sepsis. Placenta prævia. Pelvic thrombophlebitis ... ..                                       | 1                       |
| No.                                       | Undelivered.             | Eclampsia. Bilateral necrosis of kidney ... ..  | 1                       |
| Yes.                                      | Undelivered.             | Shock. Concealed accidental hæmorrhage ... ..   | 1                       |
| Yes.                                      | Hysterotomy.             | Cerebral hæmorrhage. Hyperpiesia. Chronic nephritis ... ..                                    | 1                       |

Number of cases of puerperal pyrexia among women confined in the hospital=32.

*Infants.*

Births:—

|                      |     |
|----------------------|-----|
| (a) Premature ... .. | 149 |
| (b) Mature ... ..    | 683 |

Survivals:—

|                              |            |
|------------------------------|------------|
| (a) Born and survived ... .. | 733        |
| (b) Born and died:—          |            |
| (i) within 4 weeks ... ..    | 53 (6.37%) |
| (ii) within 10 days ... ..   | 34 (4.08%) |

Stillbirths ... .. 46 (5.52%)

Thus of 532 infants born, 53 died and 46 were stillborn. Of 786 infants born alive, 53 died.

Causes of neonatal deaths (i.e. within ten days of birth) :—

|                        |     |     |     |     |    |
|------------------------|-----|-----|-----|-----|----|
| Prematurity            | ... | ... | ... | ... | 21 |
| Obstetrical traumatism | ... | ... | ... | ... | 4  |
| Atelactasis            | ... | ... | ... | ... | 2  |
| Malformations          | ... | ... | ... | ... | 2  |
| Rh. factor             | ... | ... | ... | ... | 2  |
| Congenital syphilis    | ... | ... | ... | ... | 2  |
| Fœtal distress         | ... | ... | ... | ... | 1  |

(A) ANTE-NATAL DEPARTMENT.

|  |     |     |     |      |
|--|-----|-----|-----|------|
| Number of sessions                               | ... | ... | ... | 136  |
| Number of attendances                            | ... | ... | ... | 5047 |
| Number of attendances per session                | ... | ... | ... | 37.0 |
| Number of expectant mothers seen                 | ... | ... | ... | 1343 |
| Average number of attendances made by each       | ... | ... | ... | 4    |
| Number referred for X-ray examination...         | ... | ... | ... | 228  |
| Number referred to Consultant Obstetrical Clinic | ... | ... | ... | 40   |
| <i>Consultant Obstetrical Clinic :</i>           |     |     |     |      |
| New Cases  | ... | ... | ... | 155  |
| Total attendances                                | ... | ... | ... | 186  |

(B) POST-NATAL DEPARTMENT.

|                          |     |     |     |     |
|--------------------------|-----|-----|-----|-----|
| Number of Sessions       | ... | ... | ... | 39  |
| Number of new cases      | ... | ... | ... | 718 |
| Number of attendances... | ... | ... | ... | 758 |

(C) ANTI-STERILITY CLINIC.

|  |     |     |     |     |
|--|-----|-----|-----|-----|
| Number of Sessions                                   | ... | ... | ... | 24  |
| Number of attendances                                | ... | ... | ... | 183 |
| Number of attendances per session                    | ... | ... | ... | 7.5 |
| Number of patients seen                              | ... | ... | ... | 92  |
| Average number of attendances made by each           | ... | ... | ... | 2   |
| Number of patients referred for in-patient treatment | ... | ... | ... | 18  |
| Number of patients referred for X-ray examination    | ... | ... | ... | 55  |

CLASSIFICATION OF IN-PATIENTS WHO WERE TREATED  
TO A CONCLUSION IN THE CITY HOSPITAL DURING  
THE YEAR ENDED 31ST DECEMBER, 1946.

(EXCLUDING PATIENTS TREATED UNDER THE EMERGENCY MEDICAL  
SERVICES SCHEME)

| <i>Disease Groups.</i>   | <i>Children</i>          |              | <i>Adults</i>            |              |
|--|--------------------------|--------------|--------------------------|--------------|
|  | <i>Dis-<br/>charged.</i> | <i>Died.</i> | <i>Dis-<br/>charged.</i> | <i>Died.</i> |
| Acute Infectious Disease ...   | 4                        | —            | 1                        | —            |
| Influenza ... ..   | 2                        | —            | 6                        | —            |
| Tuberculosis—  |                          |              |                          |              |
| Pulmonary ... ..   | 7                        | 2            | 37                       | 7            |
| Non-pulmonary ...  | 6                        | 5            | 6                        | 2            |
| Malignant disease ...  | —                        | —            | 66                       | 82           |
| Rheumatism—  |                          |              |                          |              |
| Acute rheumatism (rheu-<br>matic fever) together with<br>sub - acute rheumatism<br>and chorea ... ..                                     | 12                       | 1            | 4                        | —            |
| Non-articular manifesta-<br>tions of so-called " rheu-<br>matism " (muscular rheu-<br>matism, fibrositis, lum-<br>bago and sciatica) ... | —                        | —            | 5                        | —            |
| Chronic arthritis ...  | —                        | —            | 10                       | —            |
| Venereal disease ... ..  | 6                        | —            | 505                      | —            |
| Puerperal Pyrexia  |                          |              |                          |              |
| Patients confined in hospital  | —                        | —            | 33                       | —            |
| Patients confined at home  | —                        | —            | 35                       | —            |
| Other diseases and accidents<br>connected with pregnancy<br>and childbirth ... ..  | 24                       | 74           | 384                      | 6            |
| Mental diseases—   |                          |              |                          |              |
| (a) Senile Dementia ...  | —                        | —            | 3                        | —            |
| (b) Others ... ..  | —                        | —            | 12                       | —            |
| Senile decay ... ..  | —                        | —            | 16                       | 14           |
| Accidental injury and vio-<br>lence ... ..   | 105                      | —            | 221                      | 14           |
| In respect of cases not in-<br>cluded above :—   |                          |              |                          |              |
| Disease of the Nervous Sys-<br>tem and Sense Organs ...  | 59                       | 3            | 71                       | 55           |
| Disease of the Respiratory<br>System ... ..  | 121                      | 19           | 144                      | 40           |
| Disease of the Circulatory<br>System ... ..  | 13                       | 2            | 101                      | 142          |
| Disease of the Digestive Sys-<br>tem ... ..  | 172                      | 10           | 392                      | 30           |
| Disease of the Genito-urinary<br>System ... ..   | 25                       | 1            | 530                      | 17           |
| Disease of the Skin ... ..   | 92                       | —            | 68                       | —            |
| Diseases not classified ...  | 8                        | —            | 8                        | —            |
| Tonsil and Adenoid patients  | 527                      | —            | 3                        | —            |
| Nursery Children ... ..  | 53                       | —            | —                        | —            |
| Patients discharged from<br>Maternity Ward   |                          |              |                          |              |
| Mothers ... ..   | —                        | —            | 808                      | —            |
| Infants ... ..   | 747                      | —            | —                        | —            |
| <b>TOTALS ...</b>  | <b>1983</b>              | <b>117</b>   | <b>3469</b>              | <b>409</b>   |



|                                     |                                     |      |
|-------------------------------------|-------------------------------------|------|
| <b>Radiological<br/>Department.</b> | Total Radiographic Examinations ... | 4008 |
|                                     | Chest Radiographs ... ..            | 1859 |
|                                     | Lipiodol Examinations ... ..        | 67   |
|                                     | Opaque Meal Examinations ...        | 187  |
|                                     | Opaque enemata ... ..               | 42   |
|                                     | Cholecystograms ... ..              | 34   |
|                                     | Intravenous pyelograms ... ..       | 75   |
|                                     | Retrograde pyelograms ... ..        | 14   |

|                               |                          |     |
|-------------------------------|--------------------------|-----|
| <b>Dental<br/>Department.</b> | Patients examined ... .. | 48  |
|                               | Patients treated ... ..  | 32  |
|                               | Teeth extracted ... ..   | 159 |
|                               | Anæsthetics—local ... .. | 18  |
|                               | general ... ..           | 9   |
|                               | Appliances ... ..        | 1   |

### ANNUAL PATIENT STATISTICS.

|                                       | <i>Year ending<br/>31/12/44</i> | <i>Year ending<br/>31/12/45</i> | <i>Year ending<br/>31/12/46</i> |
|---------------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Admissions ... ..                     | 2616                            | 4047                            | 5223                            |
| Births ... ..                         | 327                             | 626                             | 784                             |
| <b>TOTALS ...</b>                     | <b>2943</b>                     | <b>4673</b>                     | <b>6007</b>                     |
| Discharges ... ..                     | 2499                            | 4056                            | 5452                            |
| Deaths ... ..                         | 438                             | 572                             | 526                             |
| <b>TOTALS ...</b>                     | <b>2937</b>                     | <b>4628</b>                     | <b>5978</b>                     |
| Patient days ... ..                   | 93,029                          | 104,731                         | 120,594                         |
| Daily average Beds<br>occupied ... .. | 254.17                          | 287.14                          | 330.39                          |
| Highest Number ...                    | 298                             | 323                             | 368                             |
| Lowest Number ...                     | 205                             | 235                             | 302                             |
| <b>Average duration of stay</b>       | <b>31.6 days</b>                | <b>22.41 days</b>               | <b>20.68 days</b>               |

## Comments by the Medical Superintendent.

The number of patients treated during the year 1946, is the highest recorded for the hospital ; the average length of stay, 20.1 days, is the lowest yet achieved. It is unlikely to go lower as there is a steadily increasing demand for accommodation for long-stay cases.

### **Chronic Sick.**

The return of its inhabitants to Plymouth and the difficulties of housing have brought the problem of the care of chronic sick and the aged infirm back to what it was before the War. There are, indeed, prospects of its aggravation, with the additional difficulty that damage to the hospital by enemy action has lessened the accommodation available. The problem, though now receiving more widespread attention, is not a new one ; it has been the subject of reference in Annual Reports before the War, and has, for a long time, been very real to those who have most frequently encountered it.

Last year it was reported that plans had been made to increase the accommodation for the aged sick. Unfortunately this increase has not yet been found possible, though a great deal has been done to improve the wards at present in use. By alterations in the lay-out of the wards, by improved lighting, heating and ventilation, and by bright decoration, two wards have been much improved and a third is in the process of being renovated. This reconstruction will continue until all the wards in the building now known as Wards 14/15, have been completed. The pre-War accommodation will thus be restored ; it is likely to prove insufficient in the winter period when demands for such accommodation are invariably heavy.

The problem is not merely one of bed accommodation, however. Equally pressing is the recruitment of adequate nursing staff. This question, which is a National one, has been the subject of official and unofficial enquiry, newspaper comment and debate for so long that its many difficulties are well known. Efforts are being made to bring back into Nursing on a part-time basis, trained Nurses who have hitherto been lost to the profession in consequence of their outside responsibilities.

**Maternity  
Department :  
Ante-Natal and  
Post-Natal  
Clinics.**

The attendances at these Clinics are now regulated on an Appointments basis with considerable improvement in the comfort and convenience of the arrangement. There is still room for improvement, however, but it waits largely upon structural developments.

**Structural  
Developments**

14/15.

No new buildings have been erected. Reference has been made to the reconstruction of Wards

Plans have been made for the reconstruction of Wards 5 and 7 which were in part destroyed by enemy action in 1941. These wards will be reconstructed on modern lines for infants and children. The work should be completed in 1947.

**Rehabilitation.** The Physiotherapy Department has been rehoused and a Short Wave Therapy Set installed.

An Occupational Therapist has been added to the Staff. Adequate accommodation for both these Departments is a pressing need.

The value of Rehabilitation in the complete restoration to normal of the sick or injured individual is now more widely understood and appreciated. Under present circumstances the Hospital cannot develop its facilities so fully as it should.

**Nursing  
Staff.**

Miss N. Nicholls joined the Staff as Matron of the Hospital in September, 1946.

**Nurses'  
Memorial  
Bursary.**

This was awarded for the year 1946 to Nurse B. Wright.

I should like to thank all members of the nursing staff, both female and male, for their willing and efficient labours in the duties of the hospital. It would be invidious to individualise, but I am conscious of, and should like to draw attention to, the specially arduous work of the Maternity Department and the Operating Theatre. In each the volume of work has been beyond the resources of the Department and has put a severe strain on the Staff.



# Port Health Department

REPORT OF THE SENIOR ASSISTANT PORT MEDICAL OFFICER

DR. W. N. M. MASON.

## I. AMOUNT OF SHIPPING ENTERING THE PORT DURING THE YEAR.

One thousand two hundred and twenty-six vessels, with a total tonnage of 1,035,809, visited the Port during 1946. Eighty of the vessels carried passengers.

Seventy of the vessels were inspected by the medical officers, and nine hundred and sixty-five by the inspector.

TABLE A.

AMOUNT OF SHIPPING ENTERING THE PORT DURING THE YEAR 1946.

|                              | No.  | Tonnage.  | No. Inspected. |                               | No. reported to be defective. | No. of vessels on which defects were remedied. | No. of vessels on which defects were found and reported to Ministry of Transport Surveyors. | No. of vessels reported as having or having had during the voyage infectious diseases on board. |
|------------------------------|------|-----------|----------------|-------------------------------|-------------------------------|--|---|---|
|                              |      |           | By the M.O.    | By the Port Health Inspector. |                               |  |   |   |
| Foreign Steamers             | 159  | } 587,236 | 70             | 197                           | 22                            | 19   | -   | 12  |
| Motor                        | 108  |           |                |                               |                               |  |   |   |
| Sailing                      | -    |           |                |                               |                               |  |   |   |
| Fishing                      | -    |           |                |                               |                               |  |   |   |
| Total Foreign                | 267  | 587,236   | 70             | 197                           | 22                            | 19   | -   | 12  |
| Coast-wise Steamers          | 604  | } 448,573 | -              | 768                           | 41                            | 35   | 2   | 1   |
| Motor                        | 355  |           |                |                               |                               |  |   |   |
| Sailing                      | -    |           |                |                               |                               |  |   |   |
| Fishing                      | -    |           |                |                               |                               |  |   |   |
| Total Coast-wise             | 959  | 448,573   | -              | 768                           | 41                            | 35   | 2   | 1   |
| Total Foreign and Coast-wise | 1226 | 1,035,809 | 70             | 965                           | 63                            | 54   | 2   | 13  |

## II. CHARACTER OF THE TRADE OF THE PORT.

(a) *Passenger Traffic.* The number of persons passing through the Port was 3,976, including 1,006 Aliens. The number of passengers embarked during the year was 1,218, and the number of passengers landing was 3,976.

(b) *Cargo Traffic. Coastwise.* General cargoes of foodstuffs arrive regularly from London, Bristol, Liverpool and Glasgow, and coal from the North-East and Bristol Channel Ports.

*Foreign.* Cargo traffic consisted mainly of timber from Canada, Sweden and Germany; fertilizers from Holland, and Phosphates from Holland and North Africa.

TABLE B.

(a) PASSENGER TRAFFIC DURING THE YEAR 1946.

|                 | <i>No. of Passengers.</i> |
|-----------------|---------------------------|
| Inwards ... ..  | 3,976                     |
| Outwards ... .. | 1,218                     |

(b) CARGO TRAFFIC.

The principal imports were :—

*Foreign.*

Phosphates from North Africa and Antwerp.

Grain and Timber from Canada and Sweden.

Fertilizers from Antwerp.

Fuel Oil from Abadan.

Timber from Hamburg.

Iron Ore from Canada and Africa.

Potash from Antwerp.

Fruit from Palestine and West Indies.

Fruit from Antwerp, South Africa and Australia.

Root Crops from Amsterdam.

*Coastwise.*

Coal from South Wales and North-east Ports.

Vapourising Oil from Southampton, Fowey, Dartmouth, Thameshaven and Hull.

Fertilizers from Blyth, Middlesbrough, London, Hull and Grimsby.

China Clay from Cornwall.

Grain from Exmouth, Truro, Avonmouth, Sharpness and Cardiff.

Flour from Bristol, Penzance, Cardiff and Avonmouth.

Cement from London.

Sugar from London and Falmouth.

Timber from Tyne.

Basic Slag from Grimsby, Boston and Middlesbrough.

Petroleum from Hamble and Truro.

Wool from Liverpool.

Phosphates from Middlesbrough, Hull, Liverpool, Birkenhead and Portsmouth.

Potash from London, Liverpool and Avonmouth.

Peas, Apricots, Sugar, Biscuits, Salt, Fats, Flour and Margarine from Liverpool.

Syrup, Tea, Flour, Barley, Oats, Mustard and Sugar from London.

Coffee from Belfast and Glasgow.

Apples from Glasgow and Belfast.

Potatoes from Belfast.

(c) FOREIGN PORTS FROM WHICH VESSELS ARRIVE.

| <i>Asia &amp; Australasia.</i> | <i>Europe,</i> | <i>America.</i> | <i>Africa.</i> |
|--------------------------------|----------------|-----------------|----------------|
| Haifa.                         | Ghent.         | River Plate.    | Sousse.        |
| Huelva.                        | Amsterdam.     | Porto Delgada.  | Beira.         |
| Curacao.                       | Cartagena.     | Halifax, N.S.   | Sfax.          |
| Calcutta.                      | Kotka.         | Buenos Aires.   | Matadi.        |
| Sydney.                        | Antwerp.       | New York.       | Camerat.       |
| Hongkong.                      | Brest.         | Trinidad.       | Zanzibar.      |
| Abadan.                        | Le Havre.      | Newport.        | Oran.          |
| Wabana.                        | Rotterdam.     | Baltimore.      | Freetown.      |
| Singapore.                     | Gothenburg.    | St. Johns, N.B. | Alexandria.    |
| Newcastle.                     | Emden.         | Vancouver.      |                |

*Asia & Australasia. Europe.*

*America.*

*Africa.*

|              |               |                  |
|--------------|---------------|------------------|
| Colombo.     | Copenhagen.   | Port Churchill.  |
| Bombay.      | Lisbon.       | Monati (Cuba).   |
| Istanbul.    | Bremen.       | Campbeltown.     |
| Port Arthur. | Sundsvaal.    | New Westminster. |
| Mersina.     | Pitea.        | Las Palmas.      |
|              | Munksend.     | Houston.         |
|              | Hankepudas.   | Newark.          |
|              | Stockholm.    |                  |
|              | Carlsborg.    |                  |
|              | Kristenhaven. |                  |
|              | Hamburg.      |                  |
|              | Kristisham.   |                  |
|              | Hudiksvaal.   |                  |
|              | Bremerhaven.  |                  |
|              | Oldenburger.  |                  |
|              | Gdynia.       |                  |
|              | Stettin.      |                  |
|              | Dublin.       |                  |

MEDICAL INSPECTION OF ALIENS.

ANNUAL RETURN BY THE MEDICAL INSPECTOR OF ALIENS FOR THE YEAR ENDED 31ST DECEMBER, 1946.

|  | TOTAL. | Number inspected by the Medical Inspector. | Number subjected to detailed examination by the Medical Inspector. | Certificates Issued   |                                   |                           |  |   | Transmigrants. |
|--|--------|--|--|-----------------------|-----------------------------------|---------------------------|--|---|----------------|
|  |        |  |  | Lunatic idiot or M.D. | Undersirable for Medical reasons. | Physically incapacitated. | Suffering from acute infectious disease. | Landing necessary for adequate medical examination. |                |
| (a) Total number of Aliens landing at the Port ...               | 1006   | 1006                                       | 180  | -                     | -                                 | -                         | 1  | -   | -              |
| (b) Aliens refused permission to land by Immigration Officer ... | -      | -  | -  | -                     | -                                 | -                         | -  | -   | -              |
| (c) Transmigrants ...  | -      | -  | -  | -                     | -                                 | -                         | -  | -   | -              |
| Total Aliens arriving at the Port ...                            | 1006   | 1006                                       | 180  | -                     | -                                 | -                         | 1  | -   | -              |

Total number of vessels carrying Alien passengers : 41.

Number of vessels dealt with by the Medical Inspector : 41.

### III. WATER SUPPLY.

#### (1) *Source of Supply.*

(a) *For the Port* (Great Western Docks, Cattedown and Sutton Harbour). Plymouth Corporation Water Department from hydrants on the wharves.

(b) *For Shipping.* The City's supply mains extend to the Port, and there are hydrants on the wharves for the use of shipping.

(2) *Water Boats.* The only water boat supplying fresh water to shipping in the Port is the *Ena*. The tanks were found to be in a clean and wholesome condition.

### IV. PORT HEALTH REGULATIONS, 1933 and 1945.

#### (1) *Arrangements for dealing with Declarations of Health.*

Declarations of Health are inspected and collected by the Boarding Medical Officers in the case of passenger liners and vessels from infected ports. In the case of other vessels, the Declarations of Health are inspected and collected by the Port Health Officer or by Officers of H.M. Customs, who forward the forms immediately to the Port Health Authority Office.

#### (2) *Boarding of Vessels on Arrival.*

All mailboats and passenger vessels from foreign ports are boarded by the Port Medical Officer on arrival. The Medical Officer normally goes off in the G.W.R. tender with the Customs Officers and other Port Officials. On boarding the vessel, the Medical Officer investigates any case of reported sickness before the other shore officials go on board, and takes appropriate action. If no case of infectious disease is reported, and the Boarding Medical Officer is satisfied that all is well, the other shore officials board from the tender.

All vessels reporting illness of an infectious nature are boarded in the Sound by the Medical Officer and the Inspector, who go off in the Port Health launch ready to land any cases if necessary. Vessels also request the services of the Port Medical Officer for cases of illness other than infectious disease, and services are readily given.

Vessels from infected ports are either boarded in the Sound by the Port Medical Officer from the Port Health launch, or on berthing.

Cargo vessels entering the Port are boarded by an officer of Customs or by the Port Health Inspector.

(3) *Notification to the Authority of Inward Vessels requiring special attention.*

(a) *Wireless Messages.* Vessels landing passengers, and any vessels requiring the attention of the Port Medical Officer, usually wireless their time of arrival at the Port and the state of health on board to the Agents. The latter then inform the Port Health Authority, and in the case of vessels landing passengers, give the time that the tender will be leaving the wharf.

(b) *Pilots.* The Chief Pilot is sent weekly a list of the infected ports. Usually the tender leaves the wharf with the Medical Officer before the Pilot has boarded the vessel outside the Breakwater.

(c) *Customs Officers.* A list of infected ports is supplied weekly to the Customs Officers, who do not issue pratique until vessels arriving from such ports are boarded by the Port Medical Officer. Shipping arrivals are notified daily to the Department by the Customs.

(4) *Mooring Stations designated under Article 10.*

(a) Within the Docks.

(b) Outside the Docks.

Jennycliffe Bay is used as a mooring station in the case of vessels which intend entering the Docks. As the larger liners "lie off" in Cawsand Bay, or just inside the Breakwater, the usual anchorage is regarded as a mooring station.

(5) *Particular of any standing exemptions from the provisions of Article 14.*

A standing exemption from detention has been granted in respect of vessels with infectious disease on board other than Cholera, Plague, Yellow Fever, Typhus and Smallpox, and for vessels otherwise clean arriving from ports in areas listed under Article II.

(6) *Experience of working Article 16.*

No difficulty has been experienced in the working of Article 16.

(7) (a) *Premises and Waiting Rooms for medical examination.*

No special waiting rooms or premises are provided for medical examination at the Plymouth Docks, but can, if necessary, be carried out at the Port Health Department's offices in the Docks.

(b) *Cleansing and disinfection of ships, persons, clothing and other articles.*

When cases of infectious disease are removed from ships in the motor launch *Golden Hind* to hospital ashore, the quarters on board are disinfected with Formalin. Clothing, bedding, etc., are conveyed to the City Isolation Hospital, Swilly, for disinfection. Facilities are provided at the Exmouth Road Cleansing Station for the cleansing of persons.

(c) *Premises for the temporary accommodation of persons for whom such accommodation is required for the purposes of the regulations.*

Cases of acute infectious disease requiring isolation are accommodated at the City Isolation Hospital.

(d) *Hospital accommodation available for Plague, Cholera, Yellow Fever, Smallpox and other infectious diseases.*

Beds can be made available at the City Smallpox Hospital, Lee Mill, near Plymouth.

(e) *Ambulance Transport.*

Cases of infectious disease are brought ashore in the Authority's launch *Golden Hind*, and conveyed to the City Isolation Hospital in the Health Department Ambulance. Other cases are removed by the St. John Ambulance Brigade.

(f) *Supervision of Contacts.*

If a case of infectious disease is landed from a vessel, all persons on board are regarded as contacts, and are kept under surveillance throughout the incubation period during their stay in port. When there are persons landing, their names and addresses are taken and forwarded to the Medical Officer of Health of the district to which they are proceeding, so that they may be kept under observation until the quarantine period has elapsed. Reply cards are issued to the contacts so that they may notify any change of address to the Department's office.



In the case of Smallpox, unless in the opinion of the Medical Officer the contact is recently protected by vaccination or by a previous attack of Smallpox, the following procedures are available :—

- (a) the person be offered vaccination and placed under surveillance for a period not exceeding fourteen days after the date of arrival of the ship, or
- (b) be placed under surveillance for the said period without vaccination, or
- (c) be offered vaccination and isolated until the result of the vaccination is known, and thereafter kept under surveillance until the fourteenth day after the date of arrival of the ship, or
- (d) be isolated for a period of fourteen days after the date of arrival of the ship.

8. *Arrangements for the bacteriological examination of Rats for Plague.*

These examinations are carried out by the City Pathologist at the Prince of Wales's Hospital, Greenbank, Plymouth.

9. *Arrangements for other bacteriological or pathological examinations.*

The City Pathologist carries out all other bacteriological or pathological examinations required such as water samples, sewage effluents, shellfish samples, throat swabs and other clinical material.

10. *Arrangements for the diagnosis and treatment of Venereal Disease among Sailors under International arrangement.*

All ships coming into the Docks are boarded by the Port Medical Officer or Inspector, and where necessary, any information is supplied concerning venereal diseases. Pamphlets are provided to seamen setting out the times and days of the Venereal Disease Clinics at the City Hospital, together with directions showing the route from the Docks to the Clinic.

11. *Arrangements for the interment of dead.*

Agents make their own arrangements for the interment of the dead.

Where deaths have occurred from any of the five major diseases, cremation is advised.

12. *Other matters, if any, requiring or receiving attention.*

A Clinic for the treatment of Scabies and the cleansing of verminous persons is available for seamen daily between the hours of 9 a.m. and 12 noon, excepting Sundays.

*Parrots (Prohibition of Import) Regulations, 1930.*

Four Orders were issued during 1946, three of which were served on members of the crews of H.M. Ships, and one on the master of a private yacht.

TABLE C.  
CASES OF INFECTIOUS SICKNESS LANDED FROM VESSELS.

| <i>Disease.</i>   | <i>No. of cases during the year.</i> |              | <i>No. of vessels concerned.</i> | <i>Average No. of cases for previous 5 years.</i> |
|-------------------|--------------------------------------|--------------|----------------------------------|---|
|                   | <i>Passengers.</i>                   | <i>Crew.</i> |                                  |   |
| Pneumonia ...     | 1                                    | —            | 1                                | —   |
| Typhoid ...       | —                                    | 1            | 1                                | —   |
| Malaria ...       | —                                    | 2            | 2                                | 1   |
| Scarlet Fever ... | —                                    | 1            | 1                                | —   |
| Dysentery ...     | —                                    | 1            | 1                                | —   |
| Tuberculosis ...  | 1                                    | —            | 1                                | —   |

TABLE D.  
CASES OF INFECTIOUS SICKNESS OCCURRING ON VESSELS DURING THE VOYAGE BUT DISPOSED OF PRIOR TO ARRIVAL.

| <i>Disease.</i>  | <i>No. of cases during the year.</i> |              | <i>No. of vessels concerned.</i> | <i>Average No. of cases for previous 5 years.</i> |
|------------------|--------------------------------------|--------------|----------------------------------|---|
|                  | <i>Passengers.</i>                   | <i>Crew.</i> |                                  |   |
| Pneumonia ...    | —                                    | 1            | 1                                | —   |
| Malaria ...      | 2                                    | 2            | 3                                | —   |
| Tuberculosis ... | 1                                    | —            | 1                                | —   |
| Smallpox ...     | —                                    | 1            | 1                                | —   |

**Infectious  
Diseases.**

On 29th April, 1946, H.M.S. *Fencer* arrived in the Sound with a ship's company and passengers on board totalling 1,200. Of these, 5 civilians and 87 naval ratings for demobilization were due to land at Plymouth.

On 19th April, 1946, a naval rating had been disembarked at Port Said said to be suffering from Dengue Fever or Plague, but subsequently reported on 26th April, 1946, as having died of Smallpox. Vaccination of all personnel on board commenced on this date at Gibraltar.

As the vessel arrived on the tenth day, and vaccination had not been carried out until seven days after the case had been landed, and as personnel were due to land for dispersal or demobilization, it was considered that an exceptional risk of introduction of Smallpox into the country existed.

In consultation with the Naval Health Officer, the Commander-in-Chief was advised to quarantine the ship until the 3rd May, 1946, fourteen days from the date of disembarking the case at Port Said. The quarantine passed uneventfully, no cases of Smallpox being detected in the daily medical inspection of all persons on board. The Medical Officers of Health of districts to which personnel landing at Plymouth were proceeding, were notified of the circumstances, but no cases of Smallpox were reported.

During the year vessels reporting infectious disease on board were as follows :—

*Cases landed at the Port.*

On 21st January one case of Pneumonia on board the S.S. *Noah Webster* was removed to the City Isolation Hospital.

On 22nd February one case of Malaria and Mental Depression was removed to Ford House from the S.S. *Copacabana*.

On 11th May a seaman from the Russian ship *Krileon* was removed to the Prince of Wales's Hospital, Plymouth, suffering from a Pyrexia of unknown origin, which was subsequently diagnosed as Typhoid Fever. All the ship's drinking water was chlorinated, and the seamen's quarters disinfected. No further cases developed.

On 22nd May one case of Dysentery was removed from the S.S. *Modasa*.

On 26th July a seaman was landed from the American ship *Fort La Traite*, and removed to the City Isolation Hospital suffering from Malaria.

On 19th September the "Bosun" of the L.C. 21 was landed suffering from Streptococcal Tonsillitis, and removed to City Isolation Hospital.

On 4th October a female British passenger suffering from Pulmonary Tuberculosis was landed from the American ship *Washington* and admitted to Mount Gold Hospital, Plymouth.

On 29th December a seaman from the British ship *Chemong* was landed suffering from Scarlet Fever. Disinfection of the crew's quarters was carried out.

*Cases of non-infectious disease* were dealt with as follows :—

One seaman was landed from the British ship *Fort St. Croix* suspected of suffering from Appendicitis, and removed to the Prince of Wales's Hospital, Plymouth.

One of the crew of the British vessel *Empire Springfjord* suffering from Hæmatemesis was landed and removed to hospital.

One male passenger suffering from Coronary Thrombosis was landed from the S.S. *Washington* and removed to Hospital.

During the year 21 British seamen and 40 Foreign seamen were treated at the Venereal Disease Clinic.

The nationalities were as follows :—

|           |     |     |    |              |     |     |   |
|-----------|-----|-----|----|--------------|-----|-----|---|
| British   | ... | ... | 21 | Danish       | ... | ... | 2 |
| American  | ... | ... | 11 | Swedish      | ... | ... | 2 |
| Russian   | ... | ... | 5  | Spanish      | ... | ... | 1 |
| Greek     | ... | ... | 5  | Estonian     | ... | ... | 1 |
| Indian    | ... | ... | 5  | Chinese      | ... | ... | 1 |
| Norwegian | ... | ... | 3  | West African | ... | ... | 1 |
| Dutch     | ... | ... | 2  | Lithuanian   | ... | ... | 1 |

Total : 61.

Two seamen were treated for Scabies.

## V. MEASURES AGAINST RODENTS.

### (1) *Steps taken for the detection of Rodent Plague.*

(a) *In Ships in the Port.* Ships from infected ports are subjected to close enquiries by the Port Health Inspector. Dead rats recovered during the working of the cargo are collected by the ratcatcher and sent to the City Pathologist for detailed microscopical examination.

(b) *On Quays, Warehouses, Wharves in the Vicinity of the Port.* Frequent visits were made to warehouses during the year for the purpose of ascertaining the rat prevalence and the condition of the rat population. A percentage of rats found killed, poisoned or trapped by the ratcatcher are sent to the City Pathologist for examination for Plague.

### (2) *Measures taken to prevent passage of rats between ship and shore.*

All vessels found to be rat infested are required to have rat guards fixed on all mooring ropes from ship to shore. Plague infected or suspected vessels may be required to undergo a preliminary fumigation to destroy rats before commencing to discharge cargo. After discharge, a complete and thorough fumigation is carried out. During discharge the following precautions are enforced :—

- (a) Vessels to be moored not less than six feet from the quay.
- (b) Efficient rat guards to be fixed to all mooring ropes or hawsers and ropes wrapped with canvas and freshly tarred every night.
- (c) One gangway only to be used, which must be well lighted at night.
- (d) Gangways used for the discharge of cargo to be removed when the vessel is not working.

### (3) *Methods of Deratisation.*

(a) *On Ships.* Six ships were found to be infested with rats during the year. Two were fumigated with HCN by private firms, and the remainder by trapping or poisoning.

(b) *Premises in the vicinity of docks or quays.* During the year rat campaigns were carried out by the Authority's staff with considerable success along the foreshore, including sea walls, cliffs, beaches, warehouses and premises in the following areas: Ocean Quay, Richmond Walk, Newport Street, Devil's Point, Stonehouse Pool and Creek, Sutton Harbour and Coxside. A thorough survey was made to find runs and holes suitable for baiting points. These points were then pre-baited for four days, and if there were satisfactory takes the bait was then poisoned. All the sewers in these areas were dealt with in a similar manner. The total number of rats killed as a result of these campaigns was 699, and subsequent visits confirmed that the rat population had been reduced to a minimum.

Very little rat infestation occurred in the sheds and warehouses in the Millbay Dock area. Slight infestations occurred from time to time, and where this was evident, pre-baiting and poisoning were carried out.

Daily visits continue to be made to warehouses and premises in order to ascertain whether rat infestation is existent.

(4) *Measures taken for the detection of rat prevalence in ships and on shore.*

All ships berthing at the various wharves are visited by the Port Health Inspector, and questions are asked of officers and crews regarding evidence of rat infestation. Information is also obtained from stevedores, and where the rat population is suspected to be large, the vessel is thoroughly searched by the ratcatcher. Periodical inspections are made of all warehouses by the Port Health Inspector and ratcatcher for evidence of rat infestation.

(5) *Rat-Proofing.*

(a) *To what extent are docks, wharves, warehouses, etc., rat-proof.* The majority of warehouses which have been damaged by enemy action in the Millbay Docks area are not rat-proof. The grain silo is a concrete structure with raised concrete loading platforms, and designed on most up-to-date lines to prevent the ingress of rats.

(b) *Action taken to extend rat-proofing.*

(i) *Ships.* In the course of routine inspection of vessels, the Port Health Inspector gives advice concerning any particular part

in need of rat-proofing. There must be no place where rats may remain undisturbed and make their nests, and no available food or water supply. Rats should not be allowed to travel freely from one part of a vessel to another. In order to accomplish this, advice has been given regarding the fixing of expanded metal around pipes, electric cables, etc., where they pass through bulkheads from one compartment to another. Masters have been instructed to rat-proof provision rooms and other compartments where found to be necessary.

(ii) *On Shore.* It has been found to be impracticable to rat-proof many of the damaged buildings in the dock area. Rebuilding will be necessary in many instances. The Port Health Inspector makes periodical inspections of stores to ensure that they are kept clean and tidy, and that no rubbish is allowed to accumulate.

### RATS DESTROYED DURING YEAR.

TABLE E.—(1) ON VESSELS.

| <i>No. of Rats.</i>         | <i>Jan.</i> | <i>Feb.</i> | <i>Mar</i> | <i>Ap.</i> | <i>May</i> | <i>June</i> | <i>July</i> | <i>Aug.</i> | <i>Sept.</i> | <i>Oct.</i> | <i>Nov.</i> | <i>Dec.</i> | <i>Total<br/>in<br/>year.</i> |
|-----------------------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------------------------|
| Black ...                   | 9           | 7           | 29         | —          | —          | —           | 1           | —           | —            | —           | 1           | —           | 47                            |
| Brown ...                   | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |
| Species not<br>recorded ... | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |
| Examined ...                | —           | 2           | 3          | —          | —          | —           | —           | —           | —            | —           | —           | —           | 5                             |
| Infected with<br>Plague ... | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |

### TABLE F.

(2) IN DOCKS, QUAYS, WHARVES, WAREHOUSES.

| <i>No. of Rats.</i>         | <i>Jan.</i> | <i>Feb.</i> | <i>Mar</i> | <i>Ap.</i> | <i>May</i> | <i>June</i> | <i>July</i> | <i>Aug.</i> | <i>Sept.</i> | <i>Oct.</i> | <i>Nov.</i> | <i>Dec.</i> | <i>Total<br/>in<br/>year.</i> |
|-----------------------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------------------------|
| Black ...                   | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |
| Brown ...                   | 50          | —           | 440        | 40         | 10         | 8           | 4           | 1           | 116          | 10          | 20          | —           | 699                           |
| Species not<br>recorded ... | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |
| Examined ...                | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |
| Infected with<br>Plague ... | —           | —           | —          | —          | —          | —           | —           | —           | —            | —           | —           | —           | —                             |

TABLE G.

MEASURES OF RAT DESTRUCTION ON PLAGUE "INFECTED" OR "SUSPECTED" VESSELS OR VESSELS FROM PLAGUE INFECTED PORTS ARRIVING IN THE PORT DURING THE YEAR.

| <i>Total No. of such Vessels arriving.</i> | <i>No. of such Vessels Fumigated by SO<sub>2</sub>.</i> | <i>No. of Rats killed.</i> | <i>No. of such Vessels Fumigated by HCN.</i> | <i>No. of Rats killed.</i> | <i>No. of such Vessels on which Trapping, Poisoning, etc., were employed.</i> | <i>No. of Rats killed.</i> | <i>No. of such Vessels on which Measures of Rat Destruction were not carried out.</i> |
|--|---|----------------------------|--|----------------------------|---|----------------------------|---|
| 1  | 2   | 3                          | 4  | 5                          | 6   | 7                          | 8   |
| 11   | -   | -                          | -  | -                          | 2   | 38                         | 9   |

TABLE H.

DERATISATION CERTIFICATES AND DERATISATION EXEMPTION CERTIFICATES ISSUED DURING THE YEAR.

| <i>Net Tonnage.</i>                 | <i>No. of Ships</i> | <i>No. of Deratisation Certificates Issued.</i> |                 |                          |                                       |   | <i>Total.</i> | <i>No. of Deratisation Exemption Certificates issued.</i> | <i>Total Certificates Issued.</i> |
|-------------------------------------|---------------------|---|-----------------|--------------------------|---------------------------------------|---|---------------|---|-----------------------------------|
|                                     |                     | <i>After fumigation with</i>                    |                 |                          | <i>After Trapping Poisoning, etc.</i> |   |               |   |                                   |
|                                     |                     | <i>HCN.</i>                                     | <i>Sulphur.</i> | <i>HCN. and Sulphur.</i> |                                       |   |               |   |                                   |
| 1                                   | 2                   | 3   | 4               | 5                        | 6                                     | 7 | 8             | 9   |                                   |
| Ships up to 300 tons                | 5                   | -   | -               | -                        | -                                     | - | 5             | 5   |                                   |
| Ships from 301 to 1,000 tons ...    | 6                   | -   | -               | -                        | -                                     | - | 6             | 6   |                                   |
| Ships from 1,001 to 3,000 tons ...  | 9                   | 1   | -               | -                        | -                                     | 1 | 8             | 9   |                                   |
| Ships from 3,001 to 10,000 tons ... | 8                   | -   | -               | -                        | 1                                     | 1 | 7             | 8   |                                   |
| Ships over 10,000 tons ...          | -                   | -   | -               | -                        | -                                     | - | -             | -   |                                   |
| TOTALS ...                          | 28                  | 1   | -               | -                        | 1                                     | 2 | 26            | 28  |                                   |



## VI. HYGIENE OF CREWS' SPACES.

TABLE J  
CLASSIFICATION OF NUISANCES.

| <i>Nationality of vessel.</i> | <i>No. inspected during year.</i> | <i>Defects of original construction.</i> | <i>Structural defects through wear and tear.</i> | <i>Dirt, vermin and other conditions prejudicial to health.</i> |
|-------------------------------|-----------------------------------|--|--|---|
| British ... ..                | 704                               | 16                                       | 63   | 103   |
| Other Nations ...             | 261                               | 9  | 8  | 15  |

Sixty-three vessels were found to have defects during 1946. Seven of these vessels were fumigated for bug infestation, and eleven were disinfested after being found to be heavily infested with cockroaches.

Conditions found in most of the older type of coasting vessels visiting the Port during the year were similar to those reported last year. Very little has been done to improve the standard of crews' accommodation. A few of the vessels inspected, which previously had oil lamps in the sleeping accommodation, have recently had electric lighting installed. Some improvement in the cleanliness of bedding was noticed, but in the majority of the ships no sheets, mattress covers or pillow-slips were provided. The following two tables have been prepared giving details concerning the result of the inspection of 177 British ships and 40 Foreign ships. 159 British ships of under 2,000 tons net register were inspected, and 17 were found to be without electric light. Only two of the 36 foreign ships of this tonnage inspected were without electric light. 43 of the British ships were without separate messrooms, and 47 were without wash-places.

TABLE I.

|  | Ships under 500 tons<br>nett register. |     |     |      |     |     | Ships between 501 and 2,000 tons<br>nett register. |     |      |     |      |     | Ships over 2,000 tons<br>nett register. |      |      |      |      |      |
|--|--|-----|-----|------|-----|-----|--|-----|------|-----|------|-----|---|------|------|------|------|------|
|  | Br.                                    | Du. | Sw. | Bel. | Nr. | Fr. | Da.  | Br. | Gk.  | Sw. | Rus. | Fr. | Nr.                                     | Du.  | Br.  | U.S. | Nr.  | Du.  |
| Number inspected ... ..  | 87                                     | 13  | 4   | 1    | 1   | 2   | 2  | 72  | 1    | 7   | 1    | 1   | 2                                       | 1    | 18   | 2    | 1    | 1    |
| No. with crew's accommodation<br>under forecastle ... ..                                 | 41                                     | 8   | 2   | -    | 1   | 2   | 2  | 23  | -    | 5   | -    | 1   | -                                       | -    | 1    | -    | -    | -    |
| No. with crew's accommodation<br>under amidships ... ..                                  | 4                                      | -   | -   | -    | -   | -   | -  | 4   | -    | 1   | -    | -   | -                                       | -    | -    | 2    | -    | -    |
| No. with crew's accommodation<br>aft ... ..  | 42                                     | 5   | 2   | 1    | -   | -   | -  | 45  | 1    | 1   | 1    | -   | 2                                       | 1    | 17   | -    | 1    | 1    |
| No. with messrooms separate<br>from sleeping quarters ... ..                             | 56                                     | 8   | 4   | -    | 1   | -   | 1  | 60  | 1    | 6   | 1    | 1   | 2                                       | 1    | 18   | 2    | 1    | 1    |
| No. without separate messrooms ...   | 31                                     | 5   | -   | 1    | -   | 2   | 1  | 12  | -    | 1   | -    | -   | -                                       | -    | -    | -    | -    | -    |
| No. with clothes drying rooms ...  | 21                                     | 2   | -   | 1    | -   | -   | -  | 28  | -    | 1   | -    | -   | 2                                       | 1    | 13   | 2    | -    | 1    |
| No. with separate sleeping accom-<br>modation for each watch or<br>2-berth cabins ... .. | 34                                     | 5   | 4   | -    | 1   | -   | -  | 39  | 1    | 5   | 1    | -   | 1                                       | -    | 17   | 2    | 1    | 1    |
| No. without separate sleeping<br>accommodation for each watch                            | 53                                     | 8   | -   | 1    | -   | 2   | 2  | 33  | -    | 2   | -    | 1   | 1                                       | 1    | 1    | -    | -    | -    |
| No. with wash-places ... ..  | 53                                     | 11  | 3   | 1    | 1   | 1   | -  | 59  | -    | 5   | 1    | 1   | 2                                       | 1    | 18   | 2    | 1    | 1    |
| No. without wash-places ... ..   | 34                                     | 2   | 1   | -    | -   | 1   | 2  | 13  | 1    | 2   | -    | -   | -                                       | -    | -    | -    | -    | -    |
| No. without water laid on in<br>wash-places ... ..                                       | -                                      | -   | -   | -    | -   | -   | -  | 2   | -    | -   | -    | -   | -                                       | -    | -    | -    | -    | -    |
| No. provided with electric light ...   | 70                                     | 12  | 4   | 1    | 1   | 2   | -  | 72  | 1    | 7   | 1    | 1   | 2                                       | 1    | 18   | 2    | 1    | 1    |
| No. lit by oil lamps ... ..  | 17                                     | 1   | -   | -    | -   | 2   | 2  | -   | -    | -   | -    | -   | -                                       | -    | -    | -    | -    | -    |
| No. heated by coal bogeys ... ..   | 33                                     | 8   | -   | -    | -   | 2   | 2  | 18  | -    | -   | -    | -   | -                                       | -    | 1    | -    | -    | -    |
| No. with central heating ... ..  | 54                                     | 5   | 4   | 1    | 1   | -   | -  | 54  | 1    | 7   | 1    | 1   | 2                                       | 1    | 17   | 2    | 1    | 1    |
| No. with ice box or refrigerator<br>for food ... ..                                      | 20                                     | 5   | 4   | 1    | -   | -   | -  | 47  | 1    | 7   | -    | 1   | 2                                       | 1    | 18   | 2    | 1    | 1    |
| No. without above ... ..   | 67                                     | 8   | -   | -    | 1   | 2   | 2  | 25  | -    | -   | 1    | -   | -                                       | -    | -    | -    | -    | 1    |
| Average nett. registered tonnage<br>of vessels inspected ... ..                          | 268                                    | 182 | 266 | 305  | 345 | 140 | 268  | 935 | 1698 | 655 | 998  | 891 | 1273                                    | 1684 | 3950 | 4160 | 5074 | 2020 |
| Average number of crew carried ...   | 11                                     | 8   | 13  | 12   | 14  | 6   | 9  | 22  | 29   | 19  | 27   | 27  | 24                                      | 38   | 43   | 40   | 40   | 39   |

TABLE II

|   | <i>Ships under<br/>500 tons<br/>nett register.</i> |                 | <i>Ships between<br/>500 and 2,000<br/>tons nett<br/>register.</i> |                 |
|---|--|-----------------|--|-----------------|
|   | <i>British.</i>                                    | <i>Foreign.</i> | <i>British.</i>  | <i>Foreign.</i> |
| No. of ships inspected ... ..                                   | 87   | 23              | 72   | 13              |
| Without separate messrooms ...                                  | 36%  | 39%             | 16%  | 8%              |
| Without separate sleeping accom-<br>modation for each watch ... | 61%  | 56%             | 46%  | 38%             |
| Without wash-places ... ..                                      | 39%  | 26%             | 18%  | 23%             |
| With coal bogeys for heating accom-<br>modation ... ..          | 38%  | 52%             | 25%  | 100%            |
| Without ice box or refrigerator for<br>food storage ... ..      | 77%  | 56%             | 34%  | 7%              |

## VII. FOOD INSPECTION.

(1) During 1946 there were 69 vessels dealt with under the Public Health (Imported Food) Regulations, 6 from foreign ports and 63 coastwise. The total amount of foodstuffs voluntarily surrendered and condemned as unsound, unwholesome and unfit for human consumption was 5 cwt. 1 qr. 26 lbs

No action was taken under the Public Health (Imported Milk) Regulations, 1926, and Public Health (Preservatives, etc., in Food) Regulations, 1925 to 1940.

There were no samples of food taken during the year.

(2) *Shell-fish.* Under the Public Health (Shell-fish) Regulations, 1934, the following are prohibited areas for taking of mussels, cockles, winkles, limpets and other shell-fish :—

Hooe Lake.  
The Hamoaze, including West Mud.  
St. John's Lake.  
Off Torpoint Institution.  
Weston Mill Lake.  
Off Rat's Island.  
Mouth of St. Germans River.  
Off Saltash.  
River Tamar and its tributaries.

Notice Boards are fixed in these areas warning persons not to gather shell-fish from these polluted areas.

Two samples of mussels and one of cockles, gathered outside the area of the Port but offered for sale in Plymouth were submitted to the Bacteriologist for examination. Of the mussels one sample contained 25 Bacillus Coli, and the other 180 plus Bacillus Coli. The content of the cockles was 180 plus Bacillus Coli.

The Medical Officer of Health of the area in which the shellfish were gathered was informed of the likelihood of pollution.

# School Health Service

REPORT OF THE SENIOR MEDICAL OFFICER.

DR. T. H. HARRISON.

The work of the School Health Service was somewhat hampered during 1946 by both shortage and changes of medical, dental and clerical staffs.

The numbers of children on the registers of schools maintained by the Authority when the schools closed in December for the Christmas vacation were as follows:—

|   |     |     |       |     |     |        |        |
|---|-----|-----|-------|-----|-----|--------|--------|
| Primary Schools   | ... | ... | ...   | ... | ... | ...    | 14,150 |
| Secondary Schools—Grammar Schools                         | ... | ... | 2,551 |     |     |        |        |
| Technical Schools   | ... | ... | 322   |     |     |        |        |
| Modern Schools  | ... | ... | 5,410 | }   |     | 8,283  |        |
| Day Special Schools—For Educationally Sub-normal Children | ... | ... | 288   |     |     |        |        |
| Open Air—For Delicate Children                            |     |     | 126   | }   |     | 434    |        |
| For Deaf and Partially Deaf Children                      | ... | ... | 20    | }   |     |        |        |
| Total   | ... | ... | ...   |     |     | 22,867 |        |

This compares with a total of 22,371 at the same date in 1945, showing an increase of 496 children during 1946.

Various decisions affecting the Service were made by the Authority during the year.

In January it was decided to appoint a Senior Dental Officer, the first appointment of such an officer, additional to the four dental officers already employed. It was also decided to make an agreement with the Devon County Council that Plymouth boys on remand should be accommodated at the Devon County Remand Home at Ashburton, and to convert the Plymouth Remand Home, "Plymleigh," at Laira, on the outskirts of the City into a boarding home for educationally subnormal boys, with accommodation for 22. It was also decided that the Open Air School at Efford should not meet in future on Saturdays.

In April it was agreed, on application from the Governors, to extend medical inspection and treatment to the pupils attending the Notre Dame High School for Girls, a direct grant Grammar School. It was also decided to confer with Cornwall, Devon and Exeter Education Authorities on the provision of Child Guidance facilities in the area.

In September it was decided to provide free medical treatment through the School Health Service for all pupils maintained by the Authority at direct grant Grammar Schools. It was also agreed to send representatives to a conference at Exeter of Local Education Authorities in the South-West region and the Ministry of Education on the provision of special school, particularly boarding school, accommodation for handicapped pupils.

In November it was decided to enter into agreements with the two Plymouth Voluntary Hospitals, viz. the Prince of Wales's Hospital, Plymouth, and the Plymouth Royal Eye Infirmary for the provision of medical treatment at these hospitals for pupils for whom the Authority are responsible, including at the Plymouth Royal Eye Infirmary the treatment of defective vision and other conditions at present carried out at the Ophthalmic Clinic at the School Health Department, which will be discontinued.

In December it was decided, with the Cornwall, Devon and Exeter Education Authorities, to purchase "Ravenscroft," at Harrowbeer, Yelverton, as a joint Remand Home for Girls, with accommodation for approximately 20. This, however, was not approved by the Minister of Education.

**Staff.** The Senior Medical Officer continued the duties of Acting Deputy Medical Officer of Health and Port Medical Officer, in addition to his duties in the School Health Service, until May, when he returned to whole-time duty in the School Health Department. One of the permanent whole-time assistant school medical officers, Dr. Carter, who returned from military service in October, 1945, was engaged part-time during the year on public health duties. Another permanent assistant medical officer, Dr. Harvey, returned from military service in May, to his normal duties, part-time in the School Health Service and part-time on public health duties. Three temporary medical officers gave varying time to the Service during the year. The total time

given by all medical officers was approximately equivalent to that of three and a half whole-time medical officers, the size of the normal peace-time medical staff. This medical staff had become somewhat inadequate before the recent war and the clinics were becoming overcrowded and more sessions were necessary. With the extension of the Service to scholars at all types of schools by the Education Act, 1944, and at the same time extension of the scope of treatment made available through the Service it was found impossible in 1946 with the medical staff available to carry out all the examinations required. The clinics became too overcrowded for proper attention to be given to the number of children attending, and the special examinations of handicapped children became increasingly delayed. The Education Committee considered the position in January, 1947, and decided to appoint an additional whole-time Assistant School Medical Officer from 1st April, 1947.

A Senior Dental Officer, Mr. John A. Smyth, L.D.S., was appointed by the Education Committee in September, to commence duty on 1st January, 1947. The temporary part-time assistant dental officer resigned in June and the temporary whole-time officer in August, and two permanent whole-time assistant dental officers were appointed to replace them, Mr. R. A. Currie, L.D.S., who commenced duty in July, 1946, and Mr. F. R. Maynard, L.D.S., in September, 1946, completing the normal peace-time staff of 4 assistant dental officers. The dental staff during the year was approximately equivalent to three and three-quarter whole-time officers. Four dental attendants were engaged whole-time during the year.

Two of the ten nurses retired on reaching the age limit during the year. It was found impossible to obtain nurses with Health Visitor's qualifications, and two State Registered Nurses were eventually appointed to replace them. A temporary nurse was engaged during the interval. The time given to the Service by all the nurses was equivalent to that of nine and a half whole-time nurses throughout the year. Two of the nurses hold a Health Visitor's qualification. Two nursing assistants were engaged whole-time during the year, mainly in the clinics.

One of the three Physiotherapists retired on reaching the age limit in September and was not replaced before the end of the year.

A whole-time Speech Therapist, Miss M. McCombie, was appointed in April, 1946, replacing the temporary part-time Speech Therapist, who had resigned.

The part-time Specialists continued to attend the Ophthalmic, Ear, Nose and Throat, and Orthopædic Clinics as previously.

**Routine Medical Inspection.** Every school and department was visited for routine medical inspection during the year and all children in attendance who were due for routine inspection in their age group at the time of the visit were medically examined. It was not, however, possible with the medical staff available to visit all the Secondary Schools in time to examine all Leavers before they left school, particularly those who left school before the end of the school year in July, nor was it possible to all do the re-examinations required. Each infant school was visited once during the year, and all children not previously inspected as Entrants were examined, but it was not possible to visit each infant school each term, which is necessary if Entrants are to be examined as soon as possible after their admittance. Some difficulty was experienced in following up for re-inspections Leavers from Primary Schools because they transferred to various Secondary Schools and it would be more satisfactory if these children were examined as Entrants to Secondary Schools instead of as Leavers from Primary Schools.

Six thousand nine hundred and ninety-one children were given a routine medical inspection during the year, comprising 3,021 Entrants to Primary Schools, 2,089 Leavers at Primary Schools, and 1,881 Leavers at Secondary Schools. The total of 6,991 compares with 5,469 in 1945 and 3,068 in 1944. Parents were present at 4,141 of the 6,991 examinations.

Three thousand three hundred and thirteen re-examinations were made at schools by the medical officers, compared with 416 in 1945.

Special inspections, most of them at clinics, totalled 15,752, compared with 15,029 in 1945.



## RESULTS OF ROUTINE MEDICAL INSPECTION.

Of the 3,021 Entrants to Primary Schools examined at routine medical inspections, 844 or 27.9% were found to have one or more defects requiring treatment, and of the 2,089 Leavers at Primary Schools, there were 632 or 30.2%, and of the 1,881 Leavers at Secondary Schools there were 370 or 19.7%. Of the total of 6,991 children examined 1,846 or 26.4% were found to require treatment, compared with 37.1% in 1945 and 30.9% in both 1944 and 1943.

The following table gives the numbers of the various defects found during 1946 to require treatment and the numbers per 1,000 children inspected in 1946, 1945 and 1944.

| <i>Disease.</i>   | <i>Number of defects requiring treatment.</i> |                                      |        |        |
|---|---|--------------------------------------|--------|--------|
|   | <i>Number found in 1946</i>                   | <i>Per 1,000 children inspected.</i> |        |        |
|   |   | 1946                                 | 1945   | 1944   |
| <b>SKIN</b>   |   |                                      |        |        |
| Ringworm—Scalp ... ..   | 0   | 0                                    | 0.55   | 0.35   |
| Body ... ..   | 10  | 1.43                                 | 2.19   | 4.20   |
| Scabies ... ..  | 40  | 5.72                                 | 7.28   | 14.33  |
| Impetigo ... ..   | 15  | 2.14                                 | 6.58   | 6.64   |
| Other Skin Diseases (Non-tubercular)                            | 176   | 25.17                                | 38.95  | 18.18  |
| Total Skin Defects ... ..                                       | 241   | 34.46                                | 55.55  | 43.70  |
| <b>EYE</b>  |   |                                      |        |        |
| Blepharitis ... ..  | 77  | 11.01                                | 8.04   | 5.25   |
| Conjunctivitis ... ..   | 33  | 4.72                                 | 8.41   | 3.85   |
| Keratitis ... ..  | 1   | 0.14                                 | 0.18   | 0.35   |
| Corneal Opacities ... ..  | 0   | 0                                    | 0      | 0      |
| Other conditions (excluding Defective Vision and Squint) ... .. | 42  | 6.00                                 | 4.55   | 4.54   |
| Defective Vision (excluding Squint)                             | 184   | 26.32                                | 13.53  | 10.14  |
| Squint ... ..   | 80  | 11.44                                | 19.56  | 21.68  |
| Total Eye Defects ... ..  | 417   | 59.63                                | 54.27  | 45.81  |
| <b>EAR</b>  |   |                                      |        |        |
| Defective Hearing ... ..  | 17  | 2.43                                 | 7.86   | 3.85   |
| Otitis Media ... ..   | 43  | 6.15                                 | 7.86   | 5.94   |
| Other Ear Diseases ... ..                                       | 26  | 3.72                                 | 3.27   | 5.94   |
| Total Ear Defects ... ..  | 86  | 12.30                                | 18.99  | 15.73  |
| <b>NOSE AND THROAT</b>  |   |                                      |        |        |
| Chronic Tonsillitis only ... ..                                 | 255   | 36.47                                | 73.69  | 54.89  |
| Adenoids only ... ..  | 28  | 4.00                                 | 9.69   | 16.08  |
| Chronic Tonsillitis and Adenoids ... ..                         | 155   | 22.17                                | 43.15  | 46.85  |
| Other Conditions ... ..   | 65  | 9.30                                 | 29.62  | 4.90   |
| Total Nose and Throat Defects                                   | 503   | 71.94                                | 156.15 | 122.72 |

| Disease.  | Number of defects requiring treatment. |                               |        |        |
|---|--|-------------------------------|--------|--------|
|   | Number found in 1946                   | Per 1,000 children inspected. |        |        |
|   |  | 1946                          | 1945   | 1944   |
| ENLARGED CERVICAL GLANDS (Non-Tuberculous) ... ..   | 9                                      | 1.29                          | 10.42  | 22.37  |
| DEFECTIVE SPEECH ... ..   | 23                                     | 3.29                          | 2.55   | 2.45   |
| HEART AND CIRCULATION   |  |                               |        |        |
| Heart Disease—Organic ... ..  | 7                                      | 1.00                          | 0.91   | 4.20   |
| Functional ... ..   | 15                                     | 2.14                          | 0.91   | 2.10   |
| Anæmia ... ..   | 99                                     | 14.16                         | 29.12  | 10.62  |
| Total Heart and Circulation Defects ... ..  | 121                                    | 17.30                         | 30.94  | 19.92  |
| LUNGS.  |  |                               |        |        |
| Bronchitis ... ..   | 75                                     | 10.73                         | 9.50   | 13.28  |
| Other Non-Tuberculous Diseases ...  | 48                                     | 6.86                          | 4.94   | 4.54   |
| Total Lung Defects ... ..   | 123                                    | 17.59                         | 14.44  | 17.82  |
| TUBERCULOSIS  |  |                               |        |        |
| Pulmonary—Definite ... ..   | 0                                      | 0                             | 0      | 0      |
| Suspected ... ..  | 10                                     | 1.43                          | 2.01   | 2.10   |
| Glands ... ..   | 5                                      | 0.71                          | 0.36   | 3.15   |
| Bones and Joints ... ..   | 0                                      | 0                             | 0      | 0      |
| Skin ... ..   | 0                                      | 0                             | 0      | 0      |
| Other forms ... ..  | 0                                      | 0                             | 0.18   | 0.35   |
| Total Tuberculosis Defects ...  | 15                                     | 2.14                          | 2.55   | 5.60   |
| NERVOUS SYSTEM  |  |                               |        |        |
| Epilepsy ... ..   | 2                                      | 0.29                          | 0.18   | 0.70   |
| Chorea ... ..   | 3                                      | 0.43                          | 0      | 0.35   |
| Other conditions ... ..   | 32                                     | 4.58                          | 5.10   | 1.75   |
| Total Defects of Nervous System ... ..  | 37                                     | 5.30                          | 5.28   | 2.80   |
| DEFORMITIES   |  |                               |        |        |
| Rickets ... ..  | 15                                     | 2.14                          | 4.02   | 4.90   |
| Spinal Curvature ... ..   | 133                                    | 19.02                         | 28.52  | 11.20  |
| Others ... ..   | 302                                    | 43.20                         | 103.13 | 49.30  |
| Total Deformities ... ..  | 450                                    | 64.36                         | 135.67 | 65.40  |
| OTHER DEFECTS AND DISEASES (excluding defects of nutrition, uncleanliness and dental diseases ... | 263                                    | 37.62                         | 29.12  | 13.62  |
| GRAND TOTAL OF ALL DEFECTS ...  | 2268                                   | 324.42                        | 516.36 | 384.26 |

From the above figures it will be seen that of the 2,268 defects found to require treatment the largest numbers were 503 defects of the Nose and Throat, mainly chronic tonsillitis, with and without adenoids, or 22.2% of the total, 450 deformities mainly posture and flat feet, or 19.8%, 417 eye defects, or 18.4%, and 241 skin defects, or 10.6%, the four groups accounting for 71% of all defects found to require treatment.

Compared with 1945 and 1944, there was an increase in the number of eye defects found to require treatment for each 1,000 children examined, mainly defective vision with twice the numbers found in 1945, and a slight increase in blepharitis. There was also a slight increase in the number of cases of defective speech. Lung defects and defects of the nervous system were about the same as previously, but all other defects showed a decrease, particularly nose and throat defects and enlarged cervical glands.

**Ascertainment  
of Handicapped  
Pupils.**

Included in the 15,752 Special Inspections carried out during the year are 262 special examinations under Section 34 of the Education Act, 1944. A hundred and thirty-three of the children were examined for a disability of mind. Sixteen were found not to require special educational treatment. Eighty-seven were ascertained to be Educationally Subnormal Pupils, 19 of them requiring special educational treatment in ordinary schools, 61 education in a Day Special School for Educationally Subnormal Pupils, and 7 in a Boarding Special School for Educationally Subnormal Pupils. Three children were ascertained to be Maladjusted Pupils requiring education in a Boarding Special School for Maladjusted Pupils. Three were found to require further examination and in the meantime were temporarily incapable of receiving education at school. Twenty children were found to be permanently incapable of receiving education at school and required reporting to the Local Authority for the purposes of the Mental Deficiency Act under Subsection 3. The 4 remaining children were referred for further opinion to a psychiatrist or a pædiatrician.

Of the 129 other children specially examined 30 were ascertained to be Physically Handicapped Pupils, 19 of them requiring admission to Mount Gold Orthopædic Hospital School, 4 education in a Boarding Open Air School, 4 education in a Boarding Special School for Cripples, 1 education at home under Section 56 of the

Education Act, 1944, and 2 were unfit for any form of education. One child was ascertained to be an Epileptic Pupil, two children to be Partially Sighted Pupils, and 2 Deaf Pupils, all requiring education in Special Schools. Two were ascertained to be Partially Deaf Pupils requiring Special Educational Treatment in ordinary schools. Fifty-seven children were ascertained as Delicate or Physically Handicapped Pupils requiring education in a Day Open Air School. Thirty-six children were found not to be Handicapped Pupils and appropriate advice was given on various questions raised in connection with them.

The parents were invited to be present at the examinations and the advice given to the authority by the medical officers was communicated to them. No certificates were required by parents or the authority.

The total number of children of school age in the City at the end of the year ascertained as handicapped pupils in the various categories and the numbers per 1,000 registered pupils were as follows :—

|  | <i>Numbers<br/>of<br/>Children.</i> | <i>Per 1,000<br/>Registered<br/>Pupils.</i> |
|--|-------------------------------------|---|
| A. Blind Pupils ... ..                                   | 12                                  | 0.52  |
| B. Partially Sighted Pupils ...                          | 5                                   | 0.22  |
| C. Deaf Pupils ... ..                                    | 13                                  | 0.57  |
| D. Partially Deaf Pupils ... ..                          | 9                                   | 0.39  |
| E. Delicate Pupils ... ..                                | 88                                  | 3.85  |
| F. Diabetic Pupils ... ..                                | 0                                   | 0   |
| G. Educationally Subnormal Pupils                        | 335                                 | 14.65                                       |
| H. Epileptic Pupils ... ..                               | 3                                   | 0.13  |
| I. Maladjusted Pupils ... ..                             | 11                                  | 0.48  |
| J. Physically Handicapped Pupils...                      | 48                                  | 2.10  |
| K. Pupils Suffering from Speech<br>Defects ... ..        | 0                                   | 0   |
| L. Pupils Suffering from Multiple<br>Disabilities ... .. | 12                                  | 0.52  |
|  | 536                                 | —   |

**Inspections by School Nurses.** Routine cleanliness inspections were continued by the nurses at all schools under the same arrangements as before and as described in last year's report. The nurses also continued the annual surveys and vision testing on the same lines as previously and paid special visits to schools when required in connection with infectious and contagious diseases. The usual following up of defects was also continued as previously.

The following is a summary of the work of the nurses :—

|   |     |     |         |
|---|-----|-----|---------|
| Number of cleanliness inspections made at school                                      | ... | ... | 142,021 |
| Number of individual pupils found unclean   | ... | ... | 3,020   |
| Number of children cleansed by nurses   | ... | ... | 78      |
| Average number of visits paid to every school during the year for uncleanliness, etc. | ... | ... | 18.7    |
| Number of surveys carried out at school   | ... | ... | 8,401   |
| Number of children referred from surveys to medical officers, at clinics              | ... | ... | 845     |
| Number of vision tests carried out at school  | ... | ... | 13,361  |
| Number of children referred from vision tests to medical officers at clinics          | ... | ... | 692     |
| Number of children specially inspected at school for infectious disease, etc.         | ... | ... | 1,609   |
| Number of visits to homes, for following up defects, neglect, etc.                    | ... | ... | 4,766   |

The number of individual children found unclean during the year, 3,020, was 13.2%, compared with 8.3% in 1945 and 9.9% in 1944.

## MEDICAL TREATMENT

### A. HOSPITAL TREATMENT.

The arrangements with the Public Health Committee for the provision of all forms of In-Patient and Out-Patient Hospital Treatment at the City (General) Hospital and Mount Gold Orthopaedic Hospital worked satisfactorily throughout the year and the numbers of school children who were treated were as follows :—

|                                 |     |     |     |
|---------------------------------|-----|-----|-----|
| City Hospital—In-patients       | ... | ... | 788 |
| Out-patients                    | ... | ... | 364 |
| Mount Gold Hospital—In-Patients | ... | ... | 105 |
| Out-Patients                    | ... | ... | 176 |

No arrangements had been made with the Plymouth Voluntary Hospitals by the end of the year.

## B. MINOR AILMENT CLINICS.

At the Central Clinic a new medical officer's inspection room was made by conversion of a shed adjoining the old inspection room, which was too small and cramped.

The minor ailment treatment clinic at Honicknowle School was transferred in October to a new clinic made by the Public Health Committee at Crownhill by conversion of the former Gas Cleansing Station there. The Crownhill clinic is used jointly with the Maternity and Child Welfare Service, on separate sessions, being open as a School Clinic on four afternoons and Saturday mornings. The arrangements are not entirely satisfactory as the room used for the treatment of minor ailments is not available on a Wednesday, and on the other days dressings and equipment have to be put out at the beginning of the session and cleared away at the end. A separate treatment room for minor ailments is required and the conversion of one of the rooms for this purpose is being considered.

The Honicknowle minor ailment clinic has been converted into a dental clinic to accommodate the dental surgeon who has been transferred from the Central Dental Clinic, which is required for the Senior Dental Officer.

The North Prospect Clinic gets very congested, particularly on the medical officer's days, and re-arrangement of the rooms is required involving removal of a partition wall and the provision of a new dental recovery room. It may not, however, be possible to do the alterations until 1948.

There were no other changes in the arrangements at the clinics.

Four thousand six hundred and thirteen new cases were seen at these clinics during the year by the medical officers as follows :—

|                     |     |     |     |       |
|---------------------|-----|-----|-----|-------|
| Ringworm of Scalp   | ... | ... | ... | 38    |
| Ringworm of Body    | ... | ... | ... | 102   |
| Scabies             | ... | ... | ... | 257   |
| Impetigo            | ... | ... | ... | 161   |
| Minor Injuries      | ... | ... | ... | 428   |
| Other skin diseases | ... | ... | ... | 343   |
| Ear diseases        | ... | ... | ... | 190   |
| Eye diseases        | ... | ... | ... | 253   |
| Miscellaneous       | ... | ... | ... | 2,841 |
|                     |     |     |     | —     |
|                     |     |     |     | 4,613 |
|                     |     |     |     | —     |

Fifty-three of the children were referred to a private doctor, hospital, etc.

Sixteen of the 38 cases of ringworm of the scalp were treated by X-ray by the Authority's Specialist at Torquay. The clinical diagnosis was confirmed in all cases, chiefly by Wood's Glass, and child contacts were examined.

Scabies cases were referred to the Special Scabies Clinic at Exmouth Road where 1,677 attendances were made by school children.

Five thousand nine hundred and six new cases were treated at the Minor Ailments Clinics, and a total of 66,680 attendances made during 1946 compared with 69,875 in 1945.

#### C. OPHTHALMIC CLINIC.

There were no changes in the arrangements at the Ophthalmic Clinic during the year.

One hundred and forty sessions were held by the School Oculist and 2,957 refractions were done and 701 other defects treated. Spectacles were prescribed for 904 children and supplied by the Authority to 759.

#### D. EAR, NOSE AND THROAT CLINIC.

There were no changes in the arrangements at the Ear, Nose and Throat Clinic during the year. 76 sessions were held by the Authority's Ear, Nose and Throat Surgeon who saw 858 new cases and 929 old cases.

Four hundred and fifty-six children were admitted to the City (General) Hospital for operative treatment for the removal of tonsils and adenoids under the Authority's Tonsil and Adenoid Scheme on the recommendation of the Ear, Nose and Throat Surgeon. 62 other children were also admitted for operative or other treatment of other defects of the Ear, Nose and Throat. The total of 518 admittances for all Ear, Nose and Throat conditions is included in the total of 788 children admitted as In-Patients to the City (General) Hospital for all conditions. In addition 121 children received other forms of treatment at the Ear, Nose and Throat Clinic.

## E. ORTHOPAEDIC CLINIC.

Mr. C. M. Kennedy, F.R.C.S., the Authority's Orthopædic Surgeon, retired at the end of May, and Mr. G. J. Lillie, F.R.C.S., was appointed to replace him both at the School Orthopædic Clinic at Hartley House and at Mount Gold Orthopædic Hospital. With the appointment of Mr. Lillie it was decided that the Orthopædic Surgeon should attend the clinic twice a month to see all cases referred to the Clinic instead of the Senior Medical Officer seeing all cases and selecting certain of them for further examination by the Orthopædic Surgeon.

Five hundred and five new orthopædic cases were examined at the clinic during the year and 836 re-examinations were made. This compares with 587 new cases and 841 re-examinations in 1945.

The number of children treated at the clinic for orthopædic defects was 707. The following is a summary of the defects treated :—

|  |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|
| Flat feet ; Valgus ankles                          | ... | ... | ... | ... | 306 |
| Poor posture ; Kyphosis ; Scoliosis ; Lordosis     | ... | ... | ... | ... | 270 |
| Genu valgum ; Genu varum                           | ... | ... | ... | ... | 99  |
| Hallux valgus ; Hammer toes                        | ... | ... | ... | ... | 25  |
| Defective Gait                                     | ... | ... | ... | ... | 10  |
| Infantile Paralysis                                | ... | ... | ... | ... | 7   |
| Erb's Paralysis                                    | ... | ... | ... | ... | 1   |
| Hemiplegia   | ... | ... | ... | ... | 2   |
| Pes Cavus  | ... | ... | ... | ... | 9   |
| T.B. Spine   | ... | ... | ... | ... | 1   |
| Torticollis  | ... | ... | ... | ... | 2   |
| Talipes ; Tight Tendo Achilles                     | ... | ... | ... | ... | 7   |
| Schlatter's Disease ; Apophysitis                  | ... | ... | ... | ... | 2   |
| Crooked fingers ; Curved toes ; Over-riding toes ; |     |     |     |     |     |
| Curved Tibia                                       | ... | ... | ... | ... | 18  |
| Fibrositis ; Sprains ; Injuries                    | ... | ... | ... | ... | 10  |
| Other defects                                      | ... | ... | ... | ... | 4   |

Plasters were applied in 37 cases, and 24 celluloid splints were made and 9 repaired at the clinic.

Two hundred and sixty-seven children were also treated at the clinic by ultra-violet light for a variety of conditions including anæmia, debility, adenitis, asthma, bronchitis, alopecia, chilblains, dermatitis, blepharitis, etc. Special breathing exercises were given for chest conditions.



Ninety-five children were examined for ringworm of the scalp under the Wood's glass.

The total attendances at the clinic during the year were 19,539 compared with 20,637 in 1945, and the total number of treatments 24,342 compared with 27,979 in 1945.

#### F. SPEECH THERAPY.

The temporary part-time Speech Therapist continued to hold classes twice a week at three of the school clinics until the schools closed for Easter. With the appointment at the end of April of Miss M. McCombie as whole-time Speech Therapist on the staff of the School Health Service in accordance with Administrative Memorandum No. 101, it was decided that she should continue the same classes until the end of the year and spend the remainder of her time on a speech survey of all children in infants schools.

*The following report has been made by Miss McCombie :—*

“ The Speech Clinics opened on a full-time basis on April 29th, 1946 : one at Rowe Street, one at High Street, Stonehouse, and one at North Prospect.

The clinics are closed during the school holidays, providing time for home visiting, admissions for the following term, and treatment for a few special cases.

The number of patients admitted and attending regularly has maintained a steady level, and progress has been good in many cases. The children are admitted on a three months' probation ; if, during that time, their attendance and/or progress are unsatisfactory, and there is obviously no chance of success in treating them, then they are discharged.

Stammerers form the bulk of the patients, but there are also Cleft Palate cases and various types of Speech Defects (Sigmatism, Excessive Nasality, etc.). Most of the children attend twice a week—the stammerers in small groups of not more than five for forty-five minutes' treatment, and the other cases either individually or in small groups for treatment of twenty to thirty minutes ; all groups are classified according to age as well as the particular speech defect or disorder.

The children, accompanied by their mother or guardian, are first interviewed by the Speech Therapist. If they have not been

recommended by one of the School Doctors or Specialists, they are referred for medical approval and for any other treatment which may be necessary; they are also referred to the School Doctor for discharge. During the interview with the Speech Therapist, the plan of treatment is outlined, and the necessity for home practice and co-operation is emphasized; both parents are invited to attend the clinic at least once (the possible temporary embarrassment to the children being balanced by the chance of helping in the parents' understanding of the treatment). Some parents have responded favourably, the children showing correspondingly good progress.

Both the homes and schools are visited regularly, close contact between the Speech Therapist, parents and teachers being essential, particularly with younger children, if successful results are to be achieved within a reasonable period.

#### *General Clinical Analysis.*

|                                 |       |  |
|---------------------------------|-------|--|
| On Register 29/4/46 ...         | 29    | (18 Stammerers ; 3 Cleft Palate ; 8 Speech Defects).   |
| Admitted ... ..                 | 30    | (17 Stammerers ; 2 Cleft Palate ; 11 Speech Defects).  |
| Discharged ... ..               | 23    | (12 Stammerers ; - Cleft Palate ; 11 Speech Defects).* |
| On Register 31/12/45...         | 36    | (23 Stammerers ; 5 Cleft Palate ; 8 Speech Defects).   |
| Total number attended ... ..    | 59    |  |
| Total number sessions ... ..    | 177   |  |
| Total number attendances ... .. | 1,459 |  |

*\*Stammerers.*

*Speech Defects.*

|                              |                              |
|------------------------------|------------------------------|
| 4 cured.                     | 6 cured.                     |
| 2 left school.               | 1 left school.               |
| 1 transferred to Cornwall.   | —                            |
| 5 unsatisfactory attendance. | 4 unsatisfactory attendance. |

#### *School Survey.*

During the period April 29th-December 31st, 1946, twenty-four Infant Departments were visited and approximately 3,500 children were examined—373 being in need of treatment. Most of these cases have speech defects of a purely functional nature, but there are also a number of serious Delayed Speech cases, a few

Stammerers, and two Cleft Palate cases. The schools having the greatest number of children in need of speech treatment are those in the slum-clearance areas such as Swilly and parts of St. Budeaux.

After a preliminary selection from May-July, when nine schools were visited, treatment of 125 children was commenced in September ; owing to the difficulties involved in clinical attendance for these small children, it was decided that the treatment should be given in the schools, and as only Tuesday of each week could be allotted to this (the rest of the week being divided between the regular Speech Clinics and the continued School Survey), it was not possible to visit each school more than three times, at intervals of about four weeks, during the period September-December, 1946.

This time limitation made help from the home most necessary ; although the teachers' help can be a considerable factor in treatment, it is in the home that real assistance and encouragement can be given as a complement to the Speech Therapist's work. It was decided, therefore, to invite each mother to the school at the beginning of the treatment for a practical demonstration of the exercises to be done at home, and for some advice as to how to help the child to overcome his speech difficulty. The parents were requested to make every endeavour to attend, and an alternative appointment was suggested should it be inconvenient to attend on the date stated. Failure to respond would seem to indicate complete indifference, and, consequently, a minimising in the chances of successful treatment.

The response of the parents was about equal in all areas, eighty attending, most showing interest and willingness to help, with the following results in the children (eighteen of whom had a serious disorder of speech) :—

|                                   |     |     |     |     |     |                   |
|-----------------------------------|-----|-----|-----|-----|-----|-------------------|
| 35 cured                          | ... | ... | ... | ... | ... | No serious cases. |
| 26 improved                       | ... | ... | ... | ... | 9   | „                 |
| 14 no improvement                 | ... | ... | ... | ... | 4   | „                 |
| 2 absent for subsequent treatment |     |     |     | ... | 2   | „                 |
| 3 clinical treatment              |     | ... | ... | ... | 3   | „                 |

(In the case of the last three children, the parents were prepared to guarantee regular clinic attendance and, owing to the severity of the defect, arrangements were made for their admission.)

Of the forty-five parents who did not respond, where eleven of the children had a serious disorder of speech :—

- None cured
- 13 improved
- 27 no improvement (11 serious cases.)
  - 1 absent for subsequent treatment
  - 4 had left school

These results showed that, with good home practice and encouragement, it is possible to correct a slight functional speech defect within three months with only occasional supervision by the Speech Therapist. In the case of the more pronounced Speech Defects and serious Speech Disorders, a better arrangement is definitely needed. Even with the best practice and encouragement at home, these children still need skilled treatment at regular and frequent intervals to enable them to overcome their speech difficulty as quickly as possible. Often, too, the parents, although anxious to help, may, for many reasons, only be able or capable to give a little aid, which is lost unless balanced by the Speech Therapist's constant supervision of the children.

Where parents have not responded it has been possible to help only the slight cases—very little could be done for the others, but with more frequent treatment some response might occur—although indifference at home would always prove a barrier to any final cure.

In all cases the children should be seen at least twice each week—the serious cases either individually or in pairs—most of those now under treatment have to be in larger groups owing to time limitation.

Of the 248 children waiting for treatment, arrangements have been made for the really serious cases, including the two Cleft Palate cases, to receive clinical treatment where possible; the majority will probably have to wait for three months before anything can be done for them, since 83 of the original 125 children need continued treatment.

Several Infant Departments remain to be visited—four main and seven smaller ones. When all these children have been examined, it is hoped that a Survey of the Junior and Senior Schools can be made, and the Infant Departments will, of course, have to be visited regularly for re-examinations as new children enter the schools.”

**Dental Inspection and Treatment.** As the number of dental surgeons employed during the year was equivalent to only three and three-quarter whole-time officers, each dental surgeon was responsible for rather more than 6,000 children on the average, and the arrangements recommended in Circular 1523 were therefore continued.

Sixteen thousand three hundred and two children received a routine dental inspection at school compared with 14,065 in 1945. In addition 723 were inspected as specials, at the dental clinics, making a total of 17,025 inspected or 74.4% of the children on the registers. 10,299 children or 60.5% of those inspected were found to require treatment.

Three dental clinics were open whole-time throughout the year, and a fourth half-time until the end of June, after which it was open whole-time. 7,096 children were actually treated at the clinics giving an acceptance rate of 68.9% of those requiring treatment. 13,521 attendances were made, an average of 1.9 attendances per child, 7,110 fillings were done, approximately 1 per child treated, 13,171 extractions were done, or 1.8 per child treated and 4,820 general anæsthetics administered. 6,476 permanent teeth were filled and 2,748 extracted, a ratio of 2.4 teeth saved for each one lost. The average attendance per session was 7.4 children and the average number of cases completed per session 3.9.

The consent of the Minister of Education was received in January, 1946, to the supplementation of the dental scheme by the provision of orthodontic treatment. Some orthodontic treatment had previously been given by means of suitable extractions, and during the year this was supplemented by the fitting of a limited number of appliances, mostly of a simple type.

*The following report was given by Mr. J. A. Smyth, after a survey of the School Dental Service which he made shortly after commencing duty in January, 1947, as the first Senior Dental Officer to be employed by the Authority :—*

“ This Survey is intended to give as briefly as possible a factual statement of the condition of the School Dental Service, including some suggestions for further improvement.

## CLINICS.

### I. *General.*

In view of the difficulties of the present situation the five clinics used for the dental treatment of school children are reasonably satisfactory. Some equipment will need renewal or replacement in the next few years, and a good deal could be and is being done to render the surgeries and waiting rooms more cheerful for children and parents.

In some areas (for example Laira and Devonport) children have to go some way to the nearest dental clinic. The disadvantage of this is not so apparent in such clinics as Medical minor ailment ones, and those for casual dental cases, but during the routine treatment of schools a great deal of school time is lost in going to and from school and clinic. Experience also shows that, generally speaking, the nearer the dental clinic is to the school the higher is the acceptance rate and the better the attendance of children for appointments. Branch clinics with portable equipment for part-time use are often a useful solution where the needs of a district do not justify a fully equipped permanent clinic. One set of portable equipment might well serve three or four such clinics, which could be used only when the schools in those areas were receiving their annual routine treatment. The dental needs of the schools need consideration in any future building plans, and in particular infants deserve special consideration, since parents with large families are often deterred from bringing them if the distance is considerable, unless they are actually in pain.

### II. *Rowe Street Clinic.*

The surgery and recovery room are well adapted for their respective uses, and the installation of one of the American Dental Units brings the equipment up-to-date. The waiting-room is most depressing, but essential renovations are to be undertaken.

### III. *High Street, Stonehouse.*

Surgery, recovery room and waiting room are convenient for the purpose, but much of the equipment is out of date and the rooms are gloomy and shabby, and the building is dilapidated. The only approach and exit is by a wooden staircase, and in the event of fire children might be trapped. An entirely new clinic is required for this area.

#### IV. *North Prospect.*

Plans have been prepared to change over the medical and dental clinics. The resulting dental rooms should prove satisfactory, but some new equipment will be needed.

#### V. *City Hospital.*

This clinic is loaned by the Public Health Committee. The surgery is a good room and reasonably equipped, but there is no recovery room and gas cases are done at Rowe Street at one weekly session. The iron staircase by which it is approached would in any case be rather dangerous for children to descend after gas.

#### VI. *Honicknowle.*

The surgery has been well equipped with the outfit from the dental van presented to the City early in the war and loaned to Cornwall County Council. It serves a rapidly expanding area. The waiting room is small, dark and cold, but it could be improved greatly if transposed with the lavatory. There is no recovery room, and gas cases are done at North Prospect during one weekly session.

#### *Staffing and Treatment.*

A dental officer cannot give complete treatment to more than 2,000 children per year, evenly distributed over all the age groups. Where many children over 14 are treated, the number drops to 1,700 or 1,800. That is to say that each officer's area should include about 3,500 children, allowing for 75% needing treatment annually and 70% of these accepting it. The minimum satisfactory establishment for Plymouth is 6 dental officers at present, and with the raising of the school leaving age and the expected increase in the population of the City, 7 will be needed by the end of the year and probably 8 within the next two or three years. Although there is now a larger staff than at any time in the past, Plymouth is still understaffed, with the result that a fully satisfactory dental service cannot be given.

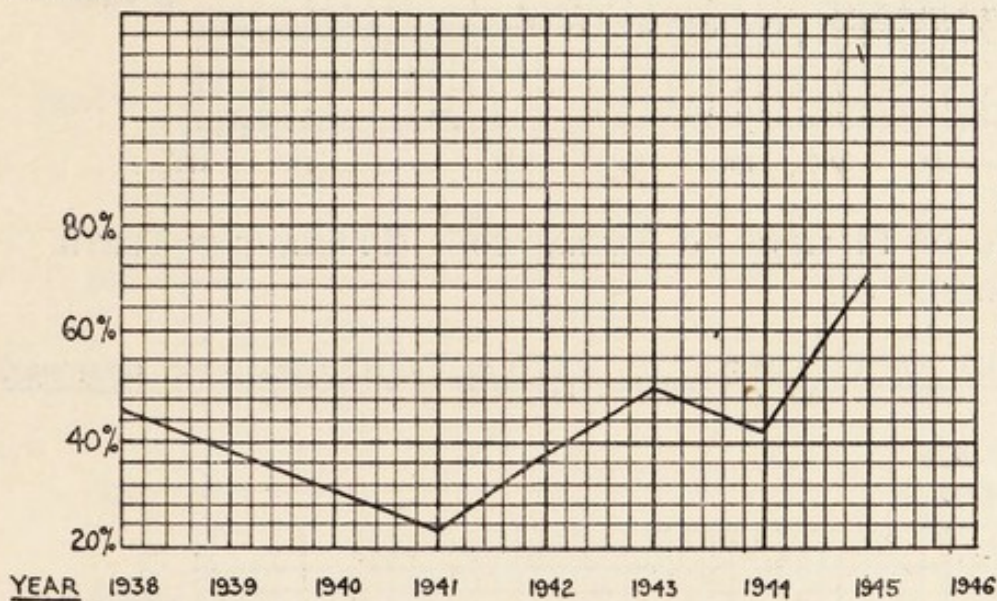
As has been pointed out in the Annual Reports of the School Medical Officer, the understaffing in past years has been serious, and the results of this inadequacy are shown in graph form. Up to 1940 the interval between dental inspections at schools was sometimes as long as three years. After that the policy recommended for understaffed areas by the Board of Education Circular 1523 was

adopted, and most schools were inspected annually, urgent cases being treated, extractions given priority and conservative work being done for a limited number only. In the circumstances this was clearly right, but the effect of it on the children's teeth is seen in Graphs II, III and IV. The teeth lost per child rise steadily up to 1946, whereas it is agreed that children's teeth have greatly improved during the war, and statistics for most areas where staffing was adequate show a steady drop in teeth lost per child from 1940 onwards. Similarly, the proportion of permanent teeth lost to those saved is bad, and deteriorated during the war.

I. APPROXIMATE PERCENTAGE OF CHILDREN INSPECTED.

I APPROXIMATE PERCENTAGE OF CHILDREN INSPECTED.

PERCENTAGE

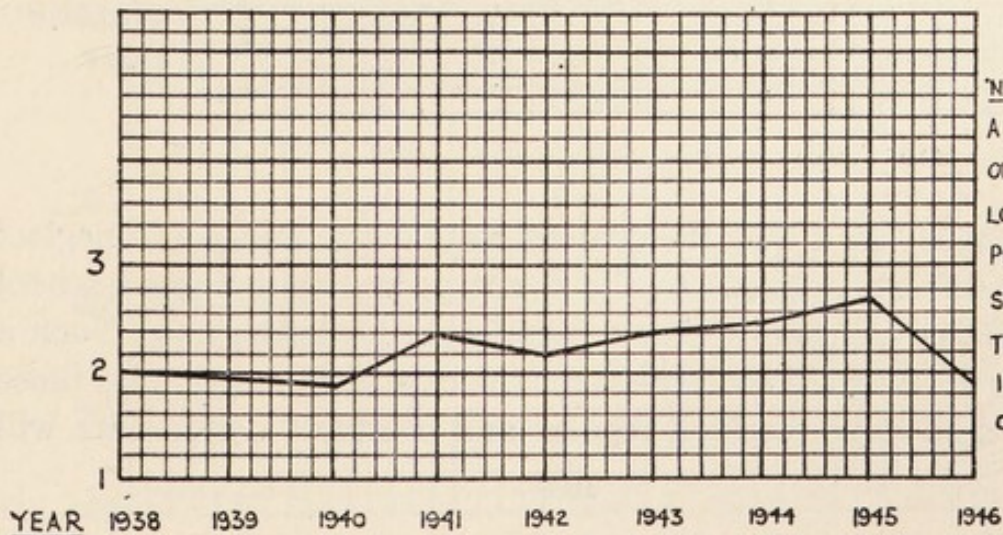


NOTE: LESS THAN 95% CANNOT BE CONSIDERED AS SATISFACTORY

II. AVERAGE NO. OF TEETH LOST PER CHILD.

II AVERAGE NUMBER OF TEETH LOST PER CHILD.

EXTRACTIONS PER CHILD



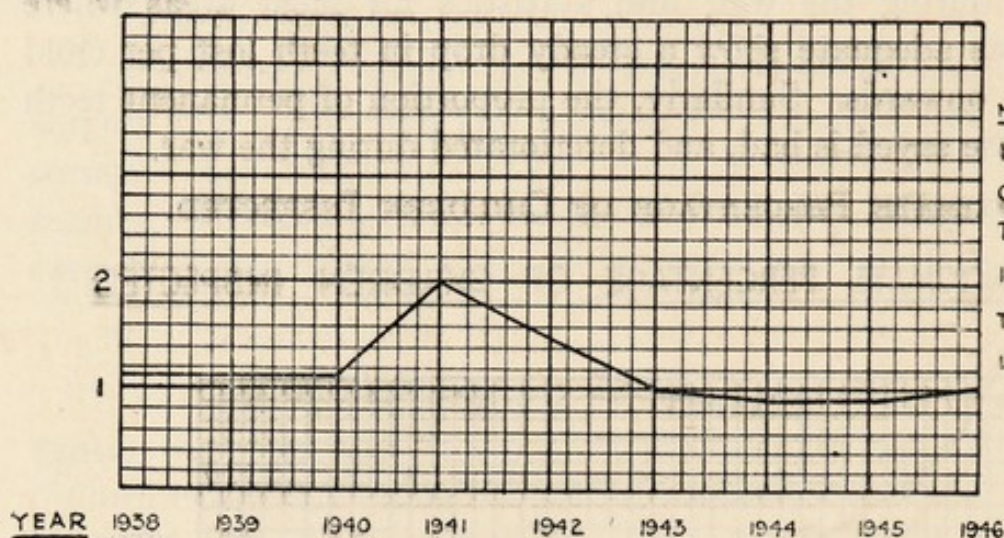
NOTE: PRE-WAR AN AVERAGE OF 1.5 TEETH LOST PER CHILD PER YEAR WAS SATISFACTORY. THE DROP IN 1946 IS ENCOURAGING.



### III. AVERAGE NO. OF TEETH SAVED PER CHILD.

#### III AVERAGE NUMBER OF TEETH SAVED PER CHILD

FILLINGS  
PER CHILD.

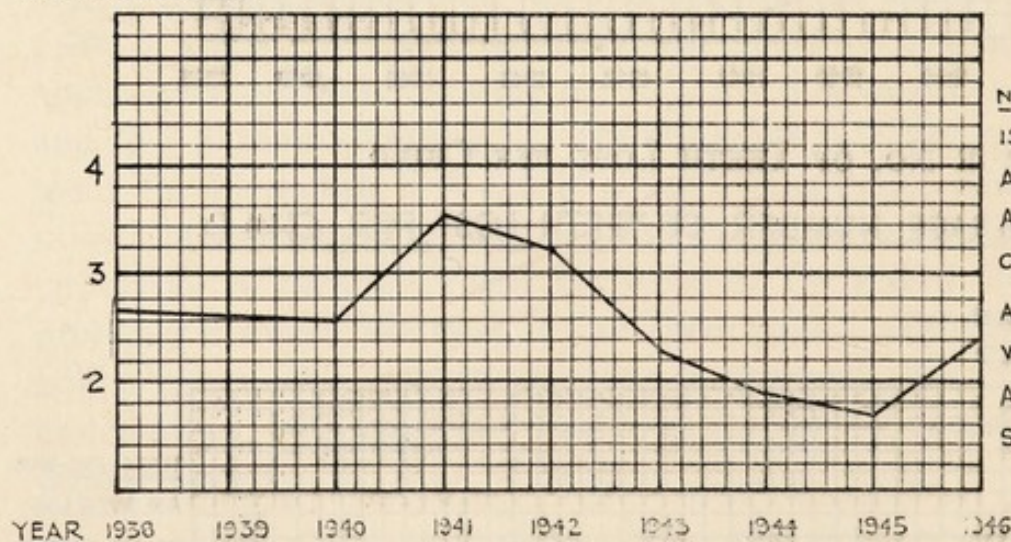


NOTE: THE DROP  
IN FILLINGS  
CORRESPONDS  
TO THE RISE  
IN EXTRACTIONS.  
THE 1941 LEVEL  
IS GOOD.

### IV. RATIO OF FILLINGS TO EXTRACTIONS (PERMANENT TEETH ONLY).

#### IV RATIO OF FILLINGS TO EXTRACTIONS (PERMANENT TEETH ONLY)

RATIO OF FILLINGS  
TO EXTRACTIONS.



NOTE: THIS  
IS BAD,  
A RATIO OF  
AT LEAST 1:8  
CAN BE  
ACHIEVED  
WITH  
ADEQUATE  
STAFF.

It is recognised that the present state of ignorance and neglect of the teeth is a disgrace to the country, and that a good school dental service can help to lay a foundation for better care. Such a service is the best advertisement for the care of the teeth, and those children who have received regular and complete dental care will

be more likely to value their teeth in later life. The condition of the teeth of young men and women has been shown by the inspection of Army recruits, where 93-98% were found to need dental treatment, much of it extensive (Teviot Report). Many regretted that their teeth had been neglected in childhood, and are now determined that their own children shall be better cared for in this respect.

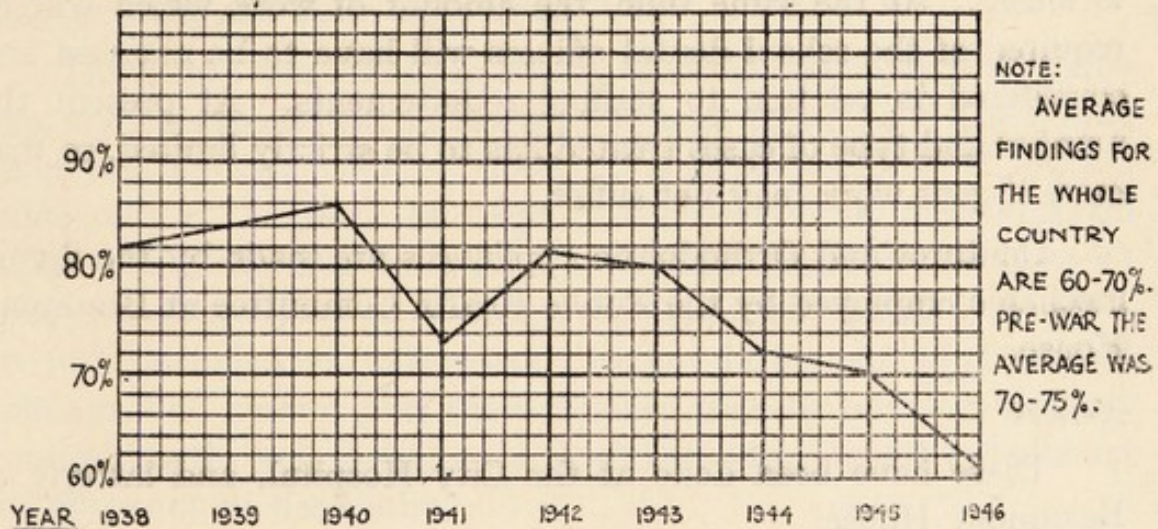
*Results of Inspection.*

The following graphs give a picture of the finding of the dental officers at inspections and the percentage treated of those who needed it.

V. PERCENTAGE REFERRED FOR TREATMENT AT INSPECTIONS.

V PERCENTAGE REFERRED FOR TREATMENT AT INSPECTIONS

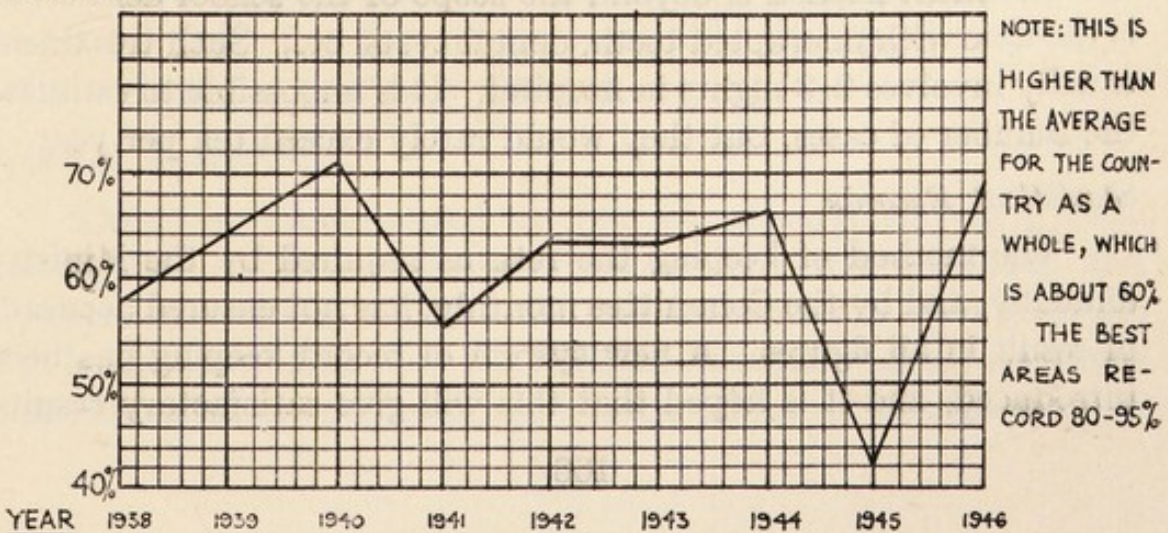
PERCENTAGE.



VI. PERCENTAGE ACTUALLY TREATED OF THOSE REFERRED.

VI PERCENTAGE ACTUALLY TREATED OF THOSE REFERRED.

PERCENTAGE



### *Orthodontics.*

Little or no orthodontic treatment with appliances has been done in the past, though it should be recognised that a great deal has been done wherever possible by means of suitable extractions. A limited number of appliances are now being fitted, mostly of a simple type. Orthodontics is a complex subject, demanding special experience and training, and it is possible to do a great deal more harm than good in many cases, if appliances are used wrongly. There is a growing demand for this type of treatment, but parents rarely realise the length of time needed to treat all but the simplest cases of irregularity and the expert knowledge which is required in making a correct diagnosis of the case, and advising suitable treatment. There is a great need for the services of a consulting orthodontist, if the problem of irregularities of the teeth is to be tackled seriously. At the same time, the amount of work which will be required of the school dental officers will have to be assessed and considered in relation to staffing requirements. At present the number and type of cases treated has to be strictly limited, so that more urgent work may not suffer.

Dentures and Orthodontic appliances are made by the dental mechanic employed by the Public Health Committee at Beaumont House.

### *X-rays.*

These have been done at the City Hospital, and latterly at Beaumont House.

### *Hospital Treatment.*

A few cases have been treated at the City Hospital by the surgeons there—e.g. sarcoma of the jaw. Provision is required for the services of a dental surgeon specializing in oral surgery, where the treatment needed is beyond the scope of the school dentist, as is the case with unerupted teeth, dental cysts, etc. Such treatment usually involves 2-3 nights in hospital. It is impossible to estimate the number of cases, but they would rarely exceed ten per year.

### *Statistical Records.*

The method of keeping the returns required by the Ministry annually, and by the Committee monthly, has not ensured accuracy of result in all figures. A new system of record keeping has been introduced, and it is hoped that this will give satisfactory results.

### *Record Cards.*

No particulars of transfers of children from one school to another have been available, so that the record cards for each school do not correspond with the children in the school except immediately after a dental inspection. As a result of this lack of information many children have three or four cards in different schools. The position can only be described as chaotic at the moment, and will be hard to remedy except by special measures. If a full-time clerk were to be employed in sorting all record cards, and finding missing cards by reference to the admission registers of schools, the records could be really satisfactorily put in order. It is estimated that this would take at least a month. At present valuable treatment records are being lost, and the cards of untraced children probably amount to thousands. Most of these are now in other schools, where they may or may not have new cards.

The Education Office are hoping to supply particulars of transfers, and this should enable cards to be kept up-to-date. Unless the cards are first set in order, however, such lists will be of limited value only. The work of keeping record cards of 20,000-25,000 children in order and up-to-date is considerable, and if it is to be done efficiently a part-time clerk is required. The dental attendants are fully occupied on routine work, except during part of the school holidays, and cannot give the necessary time to transfers without diminishing the help given to the dental surgeons, and thus reducing the efficiency of the clinics.

### *Casuals.*

The Board of Education have in the past recommended that casuals should be as far as possible confined to a special session. Recently, the end of each afternoon has been reserved for such cases, but except in cases of special urgency, they are now required to attend at 9-30 on Saturday mornings, so that the week may be fully utilized for routine treatment.

### *General Anaesthetics.*

These are administered by the dental surgeons, each clinic having one gas session per week normally. Nitrous Oxide and Oxygen administered with a Walton machine are used entirely. For longer anæsthesia than is given by a "straight" gas, continuous nasal administration is desirable for older children, and for younger

ones Vinyl Ether is largely used in many places with most satisfactory results. Nitrous oxide is not a good anæsthetic for children under 6 years of age.

#### *Consent for Treatment.*

Forms requesting consent for treatment and for gas are sent by the teachers to all children's homes before the routine inspection of the school. This system appears to be favoured in preference to sending forms after the inspection to those who require treatment only, and has certain advantages. A form of consent for dental treatment during the child's whole school life has been found advantageous in many places, and has much to commend it when entrants are inspected with their parents present.

#### *Inspection of Entrants.*

The Education Act, 1944, requires all new admissions to schools to be inspected with the parents present as soon after admission as possible. Normally it would appear that an inspection of entrants to infant schools should be made each term, but this is impossible at present. Parents of entrants are requested to attend at the routine inspections, and the response is not unsatisfactory.

#### *Conclusion.*

Sir Wilson Jameson aptly summed up the policy which should be pursued in a school dental scheme when he said : ' The aim of the school dental service should be to secure that as many children as possible shall leave school without the loss of permanent teeth, free from dental disease and trained in the care of the teeth.' This is the criterion on which the success of any service may be judged, and the end to which our policy should be directed."

#### **Nutrition, Milk and Meals.**

The percentage of children examined at routine medical inspections at school who were considered by the medical officers to be of subnormal nutrition was 8.9% in 1946 compared with 8.76% in 1945, 13.08% in 1944, and 18.69% in 1943. 6,991 children were inspected in 1946, 3,021 Entrants in their first year of school life, 2,089 Leavers from Primary Schools, and 1,881 Leavers from Secondary Schools, and it seems that the apparent improvement in nutrition in recent years was maintained during 1946.

When a return was made to the Ministry of Education on the number of pupils taking meals and milk at Primary and Secondary Schools on a day in October, 1946, 4,675 or 22.2% of the 21,014 children in attendance on that day were taking dinners and 19,968 or 95% were taking milk at school, compared with 20% taking dinners and 76.4% taking milk in 1945. 3,877 of the 4,675 dinners were supplied from former Ministry of Food Cooking Depots now belonging to the Education Authority, and 4 Schools or Departments were served from 3 School Canteens.

All the milk supplied to schools was pasteurised milk approved by the Medical Officer of Health, and the dietary, preparation, cooking, transport and serving of the meals were supervised by the School Meals Organiser and inspected from time to time by the Medical Officer of Health and the Senior Medical Officer.

**Special Schools.**

There were no changes in the medical arrangements at the Day Open Air School, the two Day Special Schools for Educationally Subnormal Children, and the Day Special School for Deaf and Partially Deaf Children, and the children were kept under constant supervision by the medical and nursing staffs. 6,509 treatments for minor ailments were given at these schools by the nurses.

At the Day Special Schools for Educationally Subnormal Children, all the children were re-examined during the year and in 19 cases the Education Authority were advised to issue a report under Section 57 (5) of the Education Act, 1944, to the local authority for the purposes of the Mental Deficiency Act, 1913, that these children might require supervision after leaving school and in 7 cases to report under Section 57 (3) that the children had been found incapable of receiving education at school.

The children at the Day Open Air School were re-examined each term, and at the Day Special School for Deaf and Partially Deaf Children once during the year.

**Boarding Home for Educationally Subnormal Boys.**

The former Remand Home for Boys, "Plymouth," at Laira, was converted into a Boarding Home for Educationally Subnormal Boys early in 1946. The boys attend the Day Special School for Educationally Subnormal Boys and the Boarding Home is in charge of a Warden, who is also a

teacher at the Day Special School, and a Matron. It fulfils an urgent need, admitting boys who would otherwise be waiting two or three years for admittance to a Boarding Special School. The boys and the home were kept under constant supervision during the year, being visited weekly by a school nurse and whenever necessary by a medical officer, and medical attention provided when required.

**Children's Home.**

There were no changes in the medical arrangements at the Children's Home at Astor Hall, Stoke, during the year, none being required as a result of consideration of the Curtis Report. The majority of the children were of school age and attended nearby day schools. The home was kept under constant supervision being visited and inspected by a school nurse at least weekly, and by a medical officer once a month, when all the children in the home were medically examined, and at other times when necessary.

**Infectious Diseases.**

There was no serious outbreak of any infectious disease in any school in the City during 1946, but seven schools were specially visited in connection with infectious and contagious diseases, two Primary Schools for diphtheria where odd cases had occurred at intervals of several weeks, two for scarlet fever similarly, one for scabies, and two Secondary Grammar Schools for Girls for plantar warts. A total of 1,609 children was specially examined at the 7 schools.

Fifty-six cases of diphtheria in children attending maintained schools were notified in 1946, compared with 86 in 1945 and 103 in 1944, and 137 cases of scarlet fever compared with 209 in 1945 and 138 in 1944.

Diphtheria immunisation was carried out in schools by the medical officers under the same arrangements as previously, and 2,392 injections were given in 1946 compared with 989 in 1945, and 398 Schick Tests were done compared with 1,137 in 1945. 928 children were completely immunised during 1946.

Scabies decreased still further, and only 257 new cases were seen at the clinics during 1946 compared with 527 in 1945 and 753 in 1944.

Impetigo also decreased, 161 new cases being seen at the clinics in 1946 compared with 272 in 1945 and 282 in 1944.

**Miscellaneous.** Children were specially examined at the clinics for fitness for employment out of school hours under the Bye-Laws made under the Children's and Young Persons Act, 1933, and also for entertainment licenses under the same act. The numbers are included in the total of 15,752 special examinations done during the year.

Adult trainees taking courses at the Plymouth and Devonport Technical Colleges under the Ministry of Labour Scheme for the Training of Disabled Persons were kept under medical supervision by special request of the Ministry of Education.

Lectures and informal talks on the School Health Service were given by the Senior Medical Officer to Nurses training as Queen's Nurses with the Three Towns Nursing Association and to students from Teachers' Training Colleges, etc., and visits were arranged to various clinics and schools.

The schools nurses assisted at a Nursing Exhibition held in the City in December, and exhibited a model showing the work of the school nurses and their part in the School Health Service.



MINISTRY OF EDUCATION  
MEDICAL INSPECTION AND TREATMENT RETURNS

TABLE I.

MEDICAL INSPECTION OF PUPILS ATTENDING MAINTAINED PRIMARY AND SECONDARY SCHOOLS.

A.—ROUTINE MEDICAL INSPECTIONS.

(1) No. of Inspections :—

|                  |     |     |     |     |     |     |       |      |
|------------------|-----|-----|-----|-----|-----|-----|-------|------|
| Entrants         | ... | ... | ... | ... | ... | ... | ...   | 3021 |
| Second Age Group | ... | ... | ... | ... | ... | ... | ...   | 2089 |
| Third Age Group  | ... | ... | ... | ... | ... | ... | ...   | 1881 |
|                  |     |     |     |     |     |     | Total | 6991 |

|                                      |     |     |     |     |     |     |             |      |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-------------|------|
| (2) No. of other Routine Inspections | ... | ... | ... | ... | ... | ... | ...         | —    |
|                                      |     |     |     |     |     |     | Grand Total | 6991 |

B. OTHER INSPECTIONS.

No. of Special Inspections and Re-Inspections ... .. 19,065

TABLE II.

CLASSIFICATION OF THE NUTRITION OF PUPILS INSPECTED DURING THE YEAR IN THE ROUTINE AGE GROUPS.

| <i>Number of Pupils Inspected.</i> | A.                  |          | B.               |          | C.                            |          | D.           |          |
|------------------------------------|---------------------|----------|------------------|----------|-------------------------------|----------|--------------|----------|
|                                    | <i>(Excellent).</i> |          | <i>(Normal).</i> |          | <i>(Slightly Sub-Normal).</i> |          | <i>(Bad)</i> |          |
|                                    | <i>No.</i>          | <i>%</i> | <i>No.</i>       | <i>%</i> | <i>No.</i>                    | <i>%</i> | <i>No.</i>   | <i>%</i> |
| 6991                               | 2180                | 31.18    | 4189             | 59.92    | 618                           | 8.84     | 4            | .06      |

TABLE III.

GROUP I. TREATMENT OF MINOR AILMENTS  
(excluding uncleanness).

Total Number of Defects treated or under treatment  
during the year under the Authority's Scheme ... 5906

GROUP II. TREATMENT OF DEFECTIVE VISION AND SQUINT.

|  | <i>Under the<br/>Authority's<br/>Scheme.</i> |
|--|--|
| ERRORS OF REFRACTION (including Squint) ...  | 2957   |
| Other defect or disease of the Eyes (excluding<br>those recorded in Group I.) ... .. | 701  |
| Total ...  | <hr/> 3658                                   |
| Number of pupils for whom Spectacles were :—   |  |
| (a) Prescribed ... ..  | 904  |
| (b) Obtained ... ..  | 759  |

GROUP III. TREATMENT OF DEFECTS OF NOSE AND THROAT.

|  | <i>Under the<br/>Authority's<br/>Scheme.</i> |
|--|--|
| Received Operative Treatment ... ..      | 456  |
| Received other forms of Treatment ... .. | 121  |
| Total number treated                     | <hr/> 577                                    |

TABLE IV.  
DENTAL INSPECTION AND TREATMENT.

|     |   |     |     |     |     |     |       |
|-----|---|-----|-----|-----|-----|-----|-------|
| (1) | Number of pupils inspected by the Dentist:—           |     |     |     |     |     |       |
|     | (a) Routine Age Groups                                | ... | ... | ... | ... | ... | 16302 |
|     | (b) Specials  | ... | ... | ... | ... | ... | 723   |
|     | (c) Total (Routine and Specials)                      | ... | ... | ... | ... | ... | 17025 |
| (2) | Number found to require treatment                     | ... | ... | ... | ... | ... | 10299 |
| (3) | Number actually treated                               | ... | ... | ... | ... | ... | 7096  |
| (4) | Attendances made by pupils for treatment              | ... | ... | ... | ... | ... | 13521 |
| (5) | Half-days devoted to—                                 |     |     |     |     |     |       |
|     | Inspection  | ... | ... | ... | ... | ... | 113   |
|     | Treatment   | ... | ... | ... | ... | ... | 1817  |
|     |   |     |     |     |     |     | 1930  |
|     | TOTAL   | ... | ... | ... | ... | ... | 1930  |
| (6) | Fillings—   |     |     |     |     |     |       |
|     | Permanent Teeth                                       | ... | ... | ... | ... | ... | 6476  |
|     | Temporary Teeth                                       | ... | ... | ... | ... | ... | 634   |
|     |   |     |     |     |     |     | 7110  |
|     | TOTAL   | ... | ... | ... | ... | ... | 7110  |
| (7) | Extractions—  |     |     |     |     |     |       |
|     | Permanent Teeth                                       | ... | ... | ... | ... | ... | 2748  |
|     | Temporary Teeth                                       | ... | ... | ... | ... | ... | 10423 |
|     |   |     |     |     |     |     | 13171 |
|     | TOTAL   | ... | ... | ... | ... | ... | 13171 |
| (8) | Administrations of general anæsthetic for extractions |     |     |     |     |     | 4820  |
| (9) | Other Operations—                                     |     |     |     |     |     |       |
|     | Permanent Teeth                                       | ... | ... | ... | ... | ... | 1790  |
|     | Temporary Teeth                                       | ... | ... | ... | ... | ... | 42    |
|     |   |     |     |     |     |     | 1832  |
|     | TOTAL   | ... | ... | ... | ... | ... | 1832  |

TABLE V.

VERMINOUS CONDITIONS.

|   |         |
|---|---------|
| (i) Total number of examinations of pupils in the Schools by School Nurses or other authorised persons ... .. | 142,021 |
| (ii) Number of individual pupils found unclean ...  | 3,020   |

TABLE VI.

SCHOOL MEDICAL AND DENTAL STAFF.

| <i>Names of Medical Officers.</i>                                 | <i>Proportion of whole time (expressed as a percentage) devoted to</i> |                       |
|---|--|-----------------------|
|   | <i>School Health Service.</i>  | <i>Public Health.</i> |
| S.M.O. Dr. T. Peirson ... ..                                      | 20%  | 80%                   |
| Senior A.S.M.O.<br>Dr. T. H. Harrison ... ..                      | 81.0%  | 19.0%                 |
| A.S.M.O's.<br>Dr. G. B. Carter ... ..                             | 86.3%  | 13.7%                 |
| Dr. A. L. Thorburn (Temporary), resigned 17.8.46 ... ..           | 84.6%  | 15.4%                 |
| Dr. D. I. Lishman (Temporary), left 4.5.46, resumed 9.9.46 ... .. | 86.1%  | 13.9%                 |
| Dr. H. M. Teitze (Temporary), left 4.5.46 ... ..                  | 30.2%  | 69.8%                 |
| Dr. M. S. Harvey, returned from Military Service 6.5.46 ... ..    | 60.0%  | 40.0%                 |

| <i>Names of Dental Officers.</i>                           | <i>Proportion of whole time (expressed as a percentage) devoted to</i> |                       |
|--|--|-----------------------|
|  | <i>School Health Service.</i>  | <i>Public Health.</i> |
| Senior Dental Officer ... ..                               | —  | —                     |
| Assistant Dental Officers                                  |  |                       |
| Mr. E. Williams ... ..                                     | 100%   | —                     |
| Mr. F. J. Gray ... ..                                      | 100%   | —                     |
| Mrs. M. Owen (Temporary Part-Time),<br>left 30.6.46 ... .. | 54.4%  | —                     |
| Mr. G. E. Moore (Temporary), resigned<br>17.8.46 ... ..    | 100%   | —                     |
| Mr. R. A. Currie as from 1.7.46 ...                        | 100%   | —                     |
| Mr. F. R. Maynard as from 1.9.46 ...                       | 100%   | —                     |

| <i>Nurses.</i>            | <i>Number of Officers.</i> | <i>Aggregate of time given to School Health Service work in terms of whole-time Officer.</i> |
|---------------------------|----------------------------|--|
| School Nurses ... ..      | 10                         | 10 whole time.   |
| District Nurses ... ..    | —                          | —  |
| Nursing Assistants ... .. | 2                          | 2 whole time.  |
| Dental Attendants ... ..  | 4                          | 4 whole time.  |

# INDEX

| A  |     |      |                    | <i>Page</i>     |
|--|-----|------|--------------------|-----------------|
| Accommodation for Nursing Staff              | ... | ...  | ...                | 90              |
| Adoption of Children (Regulation) Act, 1939  | ... | ...  | ...                | 33-34           |
| Adulteration, milk                           | ... | ...  | ...                | 61-62           |
| Allowances and Grants—Tuberculosis           | ... | ...  | ...                | 98-99           |
| Analysis—Chemical                            | ... | ...  | ...                | 50, 61, 62      |
| „ Bacteriological                            | ... | ...  | 15, 16, 51, 58-60, | 109, 132        |
| Ante-natal                                   | ... | ...  | ...                | 39-40           |
| Area of City                                 | ... | ...  | ...                | 14              |
| Ascertainment of Handicapped Children—School | ... | ...  | ...                | 150-151         |
| B  |     |      |                    |                 |
| Bacteriological report                       | ... | ...  | ...                | 15, 46          |
| „ examination of milk                        | ... | ...  | ...                | 58-60           |
| „ examination of water                       | ... | ...  | ...                | 51              |
| Bed accommodation in hospitals and sanatoria | 77, | 101, | 107, 108, 109,     | 115             |
| Bed bugs—eradication                         | ... | ...  | ...                | 54              |
| Births and birth rates                       | ... | ...  | ...                | 11, 14, 22, 116 |
| Birth control                                | ... | ...  | ...                | 47              |
| Births, visitation of                        | ... | ...  | ...                | 37              |
| Blind school                                 | ... | ...  | ...                | 150-151         |
| Blind pupils                                 | ... | ...  | ...                | 150-151         |
| Boarding of vessels                          | ... | ...  | ...                | 129             |
| C  |     |      |                    |                 |
| Cancer                                       | ... | ...  | ...                | 12              |
| Carcases inspected and condemned             | ... | ...  | ...                | 63-64           |
| Care of Premature Infants                    | ... | ...  | ...                | 27-30           |
| Care of Illegitimate Children                | ... | ...  | ...                | 34              |
| Cargo Traffic—Port                           | ... | ...  | ...                | 125-126         |
| Causes of death—classified                   | ... | ...  | ...                | 18c             |
| Census                                       | ... | ...  | ...                | 14              |
| Child Life Protection                        | ... | ...  | ...                | 33              |
| Children's Home                              | ... | ...  | ...                | 170             |
| Child Welfare                                | ... | ...  | ...                | 22-48           |
| City Hospital—report                         | ... | ...  | ...                | 115-123         |
| „ accommodation                              | ... | ...  | ...                | 115             |
| „ admissions, discharges, births, and deaths | ... | ...  | 115-116,           | 117             |
| „ ante-natal clinic                          | ... | ...  | ...                | 120             |
| „ chronic sick                               | ... | ...  | ...                | 122             |
| „ classification of in-patients treated      | ... | ...  | ...                | 121a            |
| „ dental department                          | ... | ...  | ...                | 121             |
| „ maternity department                       | ... | ...  | ...                | 123             |
| „ Nurses' Memorial bursary                   | ... | ...  | ...                | 123             |
| „ puerperal pyrexia                          | ... | ...  | ...                | 121a            |
| „ post-natal clinic                          | ... | ...  | ...                | 120, 123        |
| „ radiological department                    | ... | ...  | ...                | 121             |
| „ reconstruction                             | ... | ...  | ...                | 122, 123        |
| „ rehabilitation                             | ... | ...  | ...                | 123             |
| „ surgery and anaesthetics                   | ... | ...  | ...                | 118             |
| „ sterility clinic                           | ... | ...  | ...                | 123             |
| City Isolation Hospital                      | ... | ...  | ...                | 77-86           |
| Climatological observations                  | ... | ...  | ...                | 17              |
| Clinics, list of                             | ... | ...  | ...                | 37, 37a         |
| Closet accommodation                         | ... | ...  | ...                | 54              |
| Committees, members of                       | ... | ...  | ...                | 5               |
| Complaints received                          | ... | ...  | ...                | 52              |
| Confinements                                 | ... | ...  | ...                | 22              |

|                                     | <i>Page</i>   |
|-------------------------------------|---------------|
| Consultations (Tuberculosis) ... .. | 96            |
| Council of Social Service ... ..    | 98            |
| Cremation ... ..                    | 58            |
| Crippled children—school ... ..     | 149, 150, 155 |

### D

|   |                       |
|---|-----------------------|
| Dairies, cowsheds, milk-shops, etc. ... ..    | 54                    |
| Day Nurseries ... ..                          | 47                    |
| Deaf children—school ... ..                   | 148, 150–151          |
| Deaths—age distribution, all causes ... ..    | 18c                   |
| " of children between 1 and 5 years ... ..    | 20, 31–32             |
| " of infants ... ..                           | 14–15, 31             |
| " and death rates ... ..                      | 14                    |
| " causes of ... ..                            | 18c                   |
| " due to pregnancy and childbirth ... ..      | 45–46                 |
| " from Diarrhoea ... ..                       | 18c, 31               |
| " from Influenza ... ..                       | 18c                   |
| " from Measles ... ..                         | 18c                   |
| " from Puerperal Causes ... ..                | 18c, 46               |
| " from Tuberculosis ... ..                    | 18c, 95               |
| " from Whooping Cough ... ..                  | 18c                   |
| Defective children ... ..                     | 148–149               |
| Dental treatment ... ..                       | 38, 100, 121, 160–168 |
| Deratisation certificates ... ..              | 139                   |
| Designated milk ... ..                        | 58–60                 |
| Didworthy Sanatorium ... ..                   | 108–114               |
| Diphtheria ... ..                             | 73, 79                |
| " immunisation ... ..                         | 67, 72                |
| Dispensary (Tuberculosis) ... ..              | 95                    |
| District Medical Officers ... ..              | 8, 18                 |
| Doctors' fees ... ..                          | 44                    |
| Domiciliary Midwifery Service ... ..          | 43                    |
| Domiciliary treatment for Tuberculosis ... .. | 96                    |
| Drainage and sewerage ... ..                  | 53                    |

### E

|   |                    |
|---|--------------------|
| Ear, Nose and Throat Clinic—school ... ..       | 154                |
| Ear defects—school ... ..                       | 148, 151           |
| Education Committee, members ... ..             | 5                  |
| Epileptic children—school ... ..                | 149                |
| Evening Clinic (Tuberculosis) ... ..            | 96                 |
| Eye defects—school ... ..                       | 148, 151, 153, 154 |
| Examination of milk for Tubercle Bacilli ... .. | 60                 |

### F

|  |         |
|--|---------|
| Factories Act, 1937—inspections and defects ... .. | 57–58   |
| Fees paid to Doctors ... ..                        | 44      |
| Fevers—treatment of ... ..                         | 85–86   |
| Fish inspected and condemned ... ..                | 65      |
| Flete Maternity Home ... ..                        | 41      |
| Food advice service ... ..                         | 38      |
| Food and Drugs (Adulteration) ... ..               | 61      |
| Food Inspection—Port ... ..                        | 142–143 |
| Food samples analysed and inspected ... ..         | 62a     |
| Food Shops, Kitchens, etc. ... ..                  | 54      |
| Foodstuffs inspected and condemned ... ..          | 64      |
| Fried Fish Shops ... ..                            | 55      |

|                                  |     |     |     | <i>Page</i> |
|----------------------------------|-----|-----|-----|-------------|
| <b>G</b>                         |     |     |     |             |
| Gonorrhœa                        | ... | ... | ... | 79, 92a, 93 |
| Gynæcological Ward—City Hospital | ... | ... | ... | 119         |

|  |     |     |     | <i>Page</i> |
|--|-----|-----|-----|-------------|
| <b>H</b>                                   |     |     |     |             |
| Handicapped Pupils Regulations, 1945       | ... | ... | ... | 150-151     |
| Handicrafts Section—Didworthy              | ... | ... | ... | 112, 113    |
| Health Visitors                            | ... | ... | ... | 36, 37      |
| Heart Disease—School Children              | ... | ... | ... | 149         |
| Home Helps                                 | ... | ... | ... | 41-42       |
| Hospitals—General                          | ... | ... | ... | 12          |
| City (General)                             | ... | ... | ... | 115-123     |
| City Isolation                             | ... | ... | ... | 77-86       |
| Mount Gold Tuberculosis and Orthopædic     | ... | ... | ... | 101-107     |
| Housing                                    | ... | ... | ... | 56-57       |
| Houses—nuisances abated and works executed | ... | ... | ... | 53-55       |
| „ inspected and notices served             | ... | ... | ... | 53-55       |

|  |     |     |     | <i>Page</i>   |
|--|-----|-----|-----|---------------|
| <b>I</b>                               |     |     |     |               |
| Illegitimate births and deaths         | ... | ... | ... | 14, 22        |
| „ children, Care of                    | ... | ... | ... | 34            |
| Immunisation against Diphtheria        | ... | ... | ... | 67-72         |
| Imports—Port                           | ... | ... | ... | 125-127       |
| Infant Life Protection                 | ... | ... | ... | 33            |
| „ mortality                            | ... | ... | ... | 19, 21, 31    |
| „ Welfare Centres                      | ... | ... | ... | 37, 37a       |
| Infantile Diarrhœa                     | ... | ... | ... | 18c, 31       |
| Infectious Diseases—report             | ... | ... | ... | 11, 66-76     |
| „ incidence                            | ... | ... | ... | 66, 75        |
| „ notifications                        | ... | ... | ... | 74a           |
| „ port                                 | ... | ... | ... | 131, 133, 134 |
| „ schools                              | ... | ... | ... | 170           |
| Influenza                              | ... | ... | ... | 18c           |
| Inspection of Aliens                   | ... | ... | ... | 128           |
| „ Fish                                 | ... | ... | ... | 65            |
| „ Meat and Slaughterhouses             | ... | ... | ... | 63            |
| „ Premises                             | ... | ... | ... | 52a           |
| „ Ships                                | ... | ... | ... | 141           |
| Inspection by School Nurses            | ... | ... | ... | 152           |
| Institutional treatment (Tuberculosis) | ... | ... | ... | 97            |
| Isolation Hospital                     | ... | ... | ... | 77-86         |

|  |     |     |     | <i>Page</i> |
|--|-----|-----|-----|-------------|
| <b>L</b>   |     |     |     |             |
| Laboratory facilities                                  | ... | ... | ... | 15-16       |
| Laryngeal Diphtheria                                   | ... | ... | ... | 81          |
| Lee Mill Hospital                                      | ... | ... | ... | 77          |
| Licences under Milk (Special Designations) Order, 1936 | ... | ... | ... | 60          |

|                                    |     |     |     | <i>Page</i> |
|------------------------------------|-----|-----|-----|-------------|
| <b>M</b>                           |     |     |     |             |
| Marriages                          | ... | ... | ... | 14          |
| Maternal Mortality                 | ... | ... | ... | 19, 44      |
| Maternity and Child Welfare        | ... | ... | ... | 22-48       |
| Maternity Department—City Hospital | ... | ... | ... | 118-120     |
| Maternity and Nursing Homes        | ... | ... | ... | 44          |



|   | <i>Page</i>  |
|---|--------------|
| Measles ... ..                                | 18c, 66, 75a |
| Meat destroyed as unsound ... ..              | 64           |
| Meat inspection ... ..                        | 63           |
| Medical Assistance—Midwives ... ..            | 43-44        |
| Medical Inspection—Aliens ... ..              | 128          |
| "    "    —Schools ... ..                     | 147-150, 172 |
| "    Treatment—Schools ... ..                 | 152-159      |
| Medical Officer of Health, letter ... ..      | 11-13        |
| Medical Outdoor Relief ... ..                 | 18           |
| Medical Staff ... ..                          | 6-9          |
| Meteorological observations ... ..            | 17           |
| Midwives Act—Doctors' fees ... ..             | 44           |
| Midwives—Supervision of ... ..                | 42           |
| Milk—Adulteration ... ..                      | 61-62        |
| "    bacteriological examination ... ..       | 58-60        |
| "    examination for tubercle ... ..          | 60           |
| "    in schools ... ..                        | 168-169      |
| "    (Special Designations) Order, 1936... .. | 60           |
| Moral Welfare ... ..                          | 34-36        |
| Mortality from Infective Diseases ... ..      | 74           |
| Mothers' Advice Clinic ... ..                 | 47           |
| Mount Gold Hospital ... ..                    | 101-107      |
| "    Orthopædic Hospital School ... ..        | 106          |
| Municipal Midwifery Service ... ..            | 43-44        |

#### N

|                                   |       |
|-----------------------------------|-------|
| Notices served ... ..             | 53-55 |
| Notifications of Births ... ..    | 22    |
| "    Infectious Diseases ... ..   | 75a   |
| "    Tuberculosis ... ..          | 94    |
| Nuisances—Port ... ..             | 141   |
| Nursing—Isolation Hospital ... .. | 78    |
| Nursing Homes—Registration ... .. | 44    |
| Nursery Students ... ..           | 48    |
| Nurses' Training School ... ..    | 116   |
| Nurses' Memorial Bursary ... ..   | 123   |

#### O

|   |                   |
|---|-------------------|
| Obstetric Clinic ... ..                             | 120               |
| Occupational Therapy, institutions ... ..           | 106, 112-113, 123 |
| Offensive Trades ... ..                             | 55                |
| Officers—list of ... ..                             | 6-9               |
| Operating Theatre—Mount Gold Hospital ... ..        | 103               |
| Ophthalmia Neonatorum ... ..                        | 32                |
| Ophthalmic Clinic—School ... ..                     | 154               |
| Orthopaedic Hospital ... ..                         | 101-106           |
| "    Clinic—(School) ... ..                         | 155-156           |
| "    Hospital School ... ..                         | 106               |
| "    Treatment (M. and C.W.) ... ..                 | 37                |
| Out-Patient Department (Mount Gold Hospital) ... .. | 104, 105          |
| Overcrowding ... ..                                 | 57                |

#### P

|   |              |
|---|--------------|
| Parrots—import of ... ..                    | 133          |
| Pasteurised milk ... ..                     | 58-60        |
| Pathological work ... ..                    | 15-16, 109   |
| Patients' Entertainment, Didworthy ... ..   | 113          |
| Patient Statistics, City Hospital ... ..    | 121a         |
| Physiotherapy ... ..                        | 105-106, 123 |
| Plague ... ..                               | 132, 136-139 |
| Polio-encephalitis, acute infectious ... .. | 18c          |

|   | <i>Page</i> |
|---|-------------|
| Poliomyelitis acute ... ..                          | 18c         |
| Population of the City ... ..                       | 14          |
| Port—Character of the trade of ... ..               | 125-127     |
| „ food inspection ... ..                            | 142-143     |
| „ hygiene of crews' spaces ... ..                   | 140-142     |
| „ infectious diseases ... ..                        | 134-135     |
| „ measures against rats ... ..                      | 136-139     |
| „ measures for dealing with arrival of ships ... .. | 129-133     |
| „ medical inspection of aliens ... ..               | 128         |
| „ passenger traffic ... ..                          | 125         |
| „ vessels inspected ... ..                          | 141         |
| „ water supply ... ..                               | 129         |
| Port Health Regulations ... ..                      | 129-133     |
| Post-natal Clinics ... ..                           | 41, 120     |
| Pregnancy, deaths due to ... ..                     | 44-46       |
| Premature infants ... ..                            | 27-30       |
| Premises inspected ... ..                           | 52a         |
| Principal contents ... ..                           | 3           |
| Prosecutions ... ..                                 | 52, 61      |
| Public Health Officers ... ..                       | 6-9         |
| Puerperal mortality ... ..                          | 46          |
| Puerperal Pyrexia ... ..                            | 47          |
| Pulmonary Tuberculosis ... ..                       | 94-99       |

### Q

|                             |    |
|-----------------------------|----|
| Queen's Gate Nursery ... .. | 48 |
|-----------------------------|----|

### R

|  |                             |
|--|-----------------------------|
| Radiological department—City Hospital ... .. | 121                         |
| Rainfall and temperature ... ..              | 17                          |
| Rateable value ... ..                        | 14                          |
| Rat destruction—Port ... ..                  | 136-139                     |
| Rats and Mice (Destruction) Act ... ..       | 55                          |
| Rats, plague-infected ... ..                 | 138-139                     |
| Regulation 33B ... ..                        | 80                          |
| Remand Home ... ..                           | 169                         |
| Residential Nursery ... ..                   | 48                          |
| Residential treatment (Tuberculosis) ... ..  | 84, 97-98, 101-107, 108-114 |
| Result of Service of Notices ... ..          | 53-54                       |
| Rickets ... ..                               | 103, 149                    |
| Ringworm ... ..                              | 148, 153                    |
| Routine Medical Inspections—School ... ..    | 147-150                     |

### S

|   |              |
|---|--------------|
| Samples submitted for analysis ... ..     | 62a          |
| „ not genuine ... ..                      | 61-62        |
| Sanatorium, Didworthy ... ..              | 108-114      |
| Sanitary Circumstances of the Area ... .. | 49-65        |
| Sanitary inspection ... ..                | 52           |
| Sanitary work effected ... ..             | 53-55        |
| Scarlet Fever ... ..                      | 79           |
| School Health Service—                    |              |
| Boarding Home ... ..                      | 169-170      |
| Children's Home ... ..                    | 170          |
| Dental inspection and treatment ... ..    | 160-168, 174 |
| Ear, Nose, and Throat Clinic ... ..       | 154          |
| Handicapped children ... ..               | 150-151      |
| Infectious diseases ... ..                | 170          |
| Inspection by School Nurses ... ..        | 152          |
| Medical Inspection ... ..                 | 147-150, 172 |

|  | <i>Page</i>         |
|--|---------------------|
| Medical Treatment ... ..                         | 152-159             |
| Minor ailments ... ..                            | 153, 173            |
| Nutrition, milk and meals ... ..                 | 168-169, 172        |
| Ophthalmic Clinic ... ..                         | ... 154             |
| Orthopædic Clinic ... ..                         | 155-156             |
| Remand Home ... ..                               | 169-170             |
| School Survey ... ..                             | ... 159             |
| Special Schools ... ..                           | ... 169             |
| Speech-training classes ... ..                   | ... 156             |
| Staff ... ..                                     | 145-147, 175-176    |
| Verminous Conditions ... ..                      | ... 175             |
| Shipping entering Port, amount of ... ..         | ... 124             |
| Ships' crews' quarters ... ..                    | 140-142             |
| Slaughterhouses, inspection of ... ..            | ... 63              |
| Social Welfare—Medical Outdoor Relief ... ..     | ... 18              |
| Special forms of treatment (Tuberculosis) ... .. | ... 96              |
| Special Services Sub-Committee ... ..            | ... 5               |
| Staff ... ..                                     | 6-9, 12-13          |
| „ Bungalows—Didworthy ... ..                     | 113-114             |
| Statistics and Social Conditions ... ..          | ... 14-15           |
| Still births ... ..                              | 14, 23-27, 115, 119 |
| Supervision of Midwives ... ..                   | ... 42              |
| Syphilis ... ..                                  | 87, 92a, 93         |

#### T

|   |                   |
|---|-------------------|
| Temperature and rainfall ... ..             | ... 17            |
| Tonsils and Adenoids—School children ... .. | 148, 154          |
| Training of Nurses ... ..                   | 78, 101, 112, 116 |
| Treatment of Fevers ... ..                  | ... 85-86         |
| <b>Tuberculosis—</b>                        |                   |
| Allowances and grants ... ..                | ... 98-99         |
| Attendances ... ..                          | ... 96            |
| Bacteriological Work ... ..                 | ... 96            |
| Consultations ... ..                        | ... 96            |
| Deaths ... ..                               | ... 95            |
| Dispensary ... ..                           | ... 95            |
| Domiciliary Visiting ... ..                 | ... 96            |
| Evening Clinics ... ..                      | ... 96            |
| Institutional treatment ... ..              | ... 97            |
| Notifications ... ..                        | ... 94            |
| Special forms of treatment ... ..           | ... 96            |
| Voluntary organisations ... ..              | ... 98            |
| X-Ray ... ..                                | ... 97            |
| Treatment at City Hospital ... ..           | ... 121a          |
| Treatment at City Isolation Hospital ... .. | ... 84            |
| Treatment at Didworthy Sanatorium ... ..    | 108-114           |
| Treatment at Mount Gold Hospital ... ..     | 101-107           |
| Treatment Block, Didworthy ... ..           | 110-111           |
| Typhoid ... ..                              | ... 107           |

#### U

|                           |        |
|---------------------------|--------|
| Unemployed persons ... .. | ... 14 |
| Urinals ... ..            | ... 54 |

#### V

|   |                   |
|---|-------------------|
| Vaccination ... ..                            | ... 76            |
| Venereal diseases ... ..                      | ... 87-93         |
| Vessels inspected—Port ... ..                 | 141-142           |
| Visiting by Health Visitors ... ..            | ... 36-37         |
| Vital Statistics ... ..                       | 14, 18a, 18b, 18c |
| Voluntary Organisations (Tuberculosis) ... .. | ... 98            |

|  | <b>W</b> | <i>Page</i>                |
|--|----------|----------------------------|
| Water closets ... ..                     |          | 54                         |
| Water—bacteriological examination ... .. |          | 51                         |
| „  chemical analysis ... ..              |          | 50                         |
| Water Boats—Port ... ..                  |          | 129                        |
| Water Supply ... ..                      |          | 49                         |
| Water Supply—Port ... ..                 |          | 129                        |
| Welfare Centres, Infant ... ..           |          | 37, 37a                    |
| Whooping Cough ... ..                    |          | 18c, 66, 74, 75, 75a       |
| Wireless messages—Port ... ..            |          | 130                        |
| <br><b>X</b><br>                         |          |                            |
| X-Ray examinations ... ..                |          | 97, 104, 110–111, 115, 120 |
| „  Treatment for Ringworm ... ..         |          | 154                        |

1001  
 1002  
 1003  
 1004  
 1005  
 1006  
 1007  
 1008  
 1009  
 1010  
 1011  
 1012  
 1013  
 1014  
 1015  
 1016  
 1017  
 1018  
 1019  
 1020  
 1021  
 1022  
 1023  
 1024  
 1025  
 1026  
 1027  
 1028  
 1029  
 1030  
 1031  
 1032  
 1033  
 1034  
 1035  
 1036  
 1037  
 1038  
 1039  
 1040  
 1041  
 1042  
 1043  
 1044  
 1045  
 1046  
 1047  
 1048  
 1049  
 1050  
 1051  
 1052  
 1053  
 1054  
 1055  
 1056  
 1057  
 1058  
 1059  
 1060  
 1061  
 1062  
 1063  
 1064  
 1065  
 1066  
 1067  
 1068  
 1069  
 1070  
 1071  
 1072  
 1073  
 1074  
 1075  
 1076  
 1077  
 1078  
 1079  
 1080  
 1081  
 1082  
 1083  
 1084  
 1085  
 1086  
 1087  
 1088  
 1089  
 1090  
 1091  
 1092  
 1093  
 1094  
 1095  
 1096  
 1097  
 1098  
 1099  
 1100

1101  
 1102  
 1103  
 1104  
 1105  
 1106  
 1107  
 1108  
 1109  
 1110  
 1111  
 1112  
 1113  
 1114  
 1115  
 1116  
 1117  
 1118  
 1119  
 1120  
 1121  
 1122  
 1123  
 1124  
 1125  
 1126  
 1127  
 1128  
 1129  
 1130  
 1131  
 1132  
 1133  
 1134  
 1135  
 1136  
 1137  
 1138  
 1139  
 1140  
 1141  
 1142  
 1143  
 1144  
 1145  
 1146  
 1147  
 1148  
 1149  
 1150  
 1151  
 1152  
 1153  
 1154  
 1155  
 1156  
 1157  
 1158  
 1159  
 1160  
 1161  
 1162  
 1163  
 1164  
 1165  
 1166  
 1167  
 1168  
 1169  
 1170  
 1171  
 1172  
 1173  
 1174  
 1175  
 1176  
 1177  
 1178  
 1179  
 1180  
 1181  
 1182  
 1183  
 1184  
 1185  
 1186  
 1187  
 1188  
 1189  
 1190  
 1191  
 1192  
 1193  
 1194  
 1195  
 1196  
 1197  
 1198  
 1199  
 1200



---

Underhill (Plymouth) Ltd  
Printers, Regent Street

---