Contributors

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CITY OF DURBAN

Annual Report

OF

CITY MEDICAL OFFICER OF HEALTH

YEAR ENDING 30th JUNE, 1946

HAYNE & GIBSON (PTY) LTD., DURBAN 1947



CITY HEALTH DEPARTMENT.

1

1st August, 1946.

TO HIS WORSHIP THE MAYOR AND

CITY COUNCILLORS OF THE CITY OF DURBAN.

LADIES AND GENTLEMEN,

I have the honour to present the Forty-fifth Annual Report of the activities of the City Health Department during the year ended 30th June, 1946.

CLIMATIC DATA. Latitude : 30 degrees. Longitude : 31 degrees.

Temperature : (Statistics kindly supplied by the City and Water Engineer) :--

| | | | | Mean Temperature | Humidity | Rainfall |
|-----------|------|------|------|---------------------|------------------|----------|
| 1945 : | | | | | | |
| August | | | | 64.7 | 80.0 | 0.58 |
| September | | | | 70.5 | 80.3 | 0.53 |
| October | | | | 70.2 | 80.0 | 1.71 |
| November | | | | 73-3 | 77.0 | 1.05 |
| December | | | | 76/0 | 72.0 | 2.84 |
| 1946 : | | | 1000 | and start and the | DO L MATCHINE CO | |
| January | | | | 78-7 | 85.0 | 4.47 |
| February | | | | 77.0 | 73.0 | 3.29 |
| March | | | | 76-2 | 80.0 | 5.79 |
| April | | | | 73.7 | 81.9 | 4.10 |
| May | | | | 64.6 | 76.0 | 0.43 |
| June | | | | 61.1 | 77.0 | 0.57 |

AREA OF MUNICIPALITY. The area of Durban and suburbs, inclusive of townlands, is 44,889 acres. The City is built on ground rising from sea level and backed by hills running north and south, the soil of the valleys being very fertile.

| ANNUAL RATEABLE VALUE : | ANNU | AL R | ATEA | BLE V | VALUE : |
|-------------------------|------|------|------|-------|---------|
|-------------------------|------|------|------|-------|---------|

| Gross value of land | £31,421,430 | (£21,371,930) |
|---|-------------|---------------|
| Gross value of buildings | £36,971,640 | (£35,386,100) |
| TOTAL (including agricultural and undeveloped areas) | £68,393,070 | (£56,758,030) |

For the year under review, the rates imposed were 7¹/₂d. on land and 3¹/₄d. on buildings (including water rate).

REPORT "A."

1 .--- VITAL STATISTICS (Figures in brackets represent previous year) :---

POPULATION :

| Europe Colour Native Asiatic | ed | | | · · · · · · · · · · · · · · · · · · · | | | Census May, 1946 124,792 10,206 108,866 113,440 | Estimate as at 30th June, 1946 125,056 10,249 108,930 113,901 |
|---------------------------------------|----|-----|---|---------------------------------------|------|------|---|---|
| | T | OTA | L | | | | 357,304 | 358,136 |

The principal Vital Statistics for the year, corrected for outward transfer and adjusted to the Census figure are as follows :---

| | European | Coloured | Native | Asiatic | TOTAL |
|---|-----------|-----------|------------|-----------|-----------|
| Population Estimate 30/6/46 | 125,056 | 10,249 | 108,930 | 113,901 | 358,136 |
| Estimate 30/6/45 | (109,460) | (8,986) | (71,856) | (99,156) | (289,458) |
| Birth Rates | 18·42 | 48 · 59 | 25.07 | 42 · 59 | 28·99 |
| | (21·32) | (48 · 96) | (33.23) | (46 · 36) | (33·71) |
| Death Rates | 9·27 | 19·32 | 27 · 54 | 16·92 | 17·55 |
| | (9·48) | (23·60) | (40 · 43) | (19·72) | (21·11) |
| Infantile mortality Rates per 1,000 live births | 32·50 | 102·08 | 359 · 18 | 90·83 | 151·12 |
| | (29·99) | (131·81) | (388 · 70) | (99·19) | (155·02) |
| Percentage of Illegitimate to live births | 3.05 | 31·32 | 57 · 77 | 1·99 | 18-41 |
| | (3.64) | (30·91) | (58 · 85) | (1·26) | (17-25) |
| Death Rate Pulmonary T.B. per 1,000 of population | 0·37 | 4·29 | 4·25 | 2·15 | 2·23 |
| | (0·38) | (4·78) | (6·21) | (2·19) | (2·58) |

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| | | | Europeans | Coloureds | Natives | Asiatics | TOTAL |
|---------------------------|------|------|------------------|--------------|------------------|------------------|-------------------|
| Local Births | | | 2,304 (2,334) | 498 (440) | 2,371 (2,388) | 4,851 (4,597) | 10,384 (9,759) |
| Local Illegitimate Births | | | 82 (85) | 156 (136) | 1,578 (1,405) | 97 (58) | 1,913 (1,684) |
| Still Births | | | 55 (67) | 11 (25) | 314 (264) | 267 (204) | 647 (560) |

BIRTHS. The following births were registered in Durban during the year (figures for previous year in brackets) :---

| Europeans | Coloureds | Natives | Asiatics | TOTAL |
|-----------|-----------|---------|----------|---------|
| 18·42 | 48.59 | 25·07* | 42.59 | 28.99 |
| (21·32) | (48.96) | (33·23) | (46.36) | (33.71) |

* This figure is inaccurate and unreliable owing to incomplete registration of births.

Rates of natural increase, being the excess of births over deaths in proportion to population are as follows :---

Illegitimacy accounted for 3.64 (2.7) per cent. of the total European births, 31.4 (15.4) for Coloureds, 56.7 (60.1) for Natives and 1.5 (0.6) for Asiatics.

DEATHS (figures for 1944/45 in brackets) :---

| | | | European | Coloured | Native | Asiatic | TOTAL |
|------------------------|-------------|------|----------------------|--------------|------------------|------------------|------------------|
| Local Deaths, all ages | ··· .·· | | 1,159 (1,038) | 198 (212) | 3,000 (2,905) | 1,927 (1,956) | 6,284 (6,111) |
| Non-local Residents | | | 241 (222) | 20 (20) | 1,678 (1,620) | 140 (155) | 2,079 (2,017) |

DEATH RATES :

| | European | Coloured | Native | Asiatic | TOTAL |
|--|----------|----------|--------|---------|--------|
| the sheat the set of t | 9·27 | 19·32 | 27·54 | 16-92 | 17·55 |
| | (9·4) | (23·6) | (40·4) | (19·7) | (21·1) |

| INFANTILE MORTALITY : | | | | | | | |
|--|----------|----------|--------|---------|---------|--|--|
| | European | Coloured | Native | Asiatic | TOTAL | | |
| Local Deaths | 76 | 46 | 947 | 412 | 1,481 | | |
| | (70) | (58) | (929) | (456) | (1,513) | | |
| for confinement or were brought in suffering | (15) | 2 | 320 | 24 | 354 | | |
| from illness which caused death | 8 | (5) | (524) | (24) | (568) | | |

The European infantile mortality rate per 1,000 for the year is 32.98 (29.99), Coloured 92.36 (131.81), Native 346.75 (388.70) and Asiatic 84.93 (99.19).

Causes of death were as follows :---

| and the second second | European | Coloured | Native | Asiatic | TOTAL |
|-----------------------------|---|-----------|---------------|---------------|---------------|
| Congenital Causes | $\begin{array}{cccc} 12 & (16) \\ 27 & (24) \\ 10 & (6) \\ 8 & (10) \\ 19 & (14) \end{array}$ | 11 (8) | 232 (118) | 67 (103) | 322 (245) |
| Prematurity | | 11 (8) | 44 (80) | 46 (47) | 128 (159) |
| Diarrhoea, etc | | 9 (18) | 291 (281) | 79 (70) | 389 (375) |
| Bronchitis and Pneumonia | | 7 (12) | 263 (330) | 147 (171) | 425 (523) |
| Others | | 8 (12) | 117 (120) | 73 (65) | 217 (211) |
| and the state | 76 (70) | 46 (58) | 947 (929) | 412 (456) | 1,481 (1,513) |
| Births : Male | 1,198 (1,217) | 268 (233) | 1,337 (1,234) | 2,474 (2,335) | 5,277 (5,019) |
| Female | 1,106 (1,117) | 230 (207) | 1,394 (1,154) | 2,377 (2,262) | 5,107 (4,745) |
| Infantile Deaths : Male | 43 (41) | 25 (32) | 536 (486) | 209 (218) | 813 (777) |
| Female | 33 (29) | 21 (26) | 411 (443) | 203 (238) | 668 (736) |
| Still Births : Local | 55 (67) | 11 (25) | 314 (264) | 267 (204) | 647 (560) |
| Imported | 6 (4) | 1 (2) | 205 (170) | 15 (6) | 227 (182) |
| Illegitimate Births : Local | 82 (85) | 156 (136) | 1,578 (1,405) | 97 (58) | 1,913 (1,684) |
| Imported | 13 (8) | 17 (11) | 1,099 (1,068) | 6 (4) | 1,135 (1,091) |

The following tables indicate the percentage of all deaths in age groups :---

| | I | European | n | (| Coloure | d | | Native | | Asiatic | | | TOTAL | | |
|--|-----------------------------------|-----------------------------------|---|--------------------------------|--------------------------------|--|--------------------------------------|-------------------------------------|---|---------------------------------------|--------------------------------------|---|--|--|--|
| | Male | Fem'le | % | Male | Fem'le | % | Male | Fem'le | % | Male | Fem'le | % | Male | Fem'le | % |
| Under 1 1- 2 2- 5 | 60 9 5 | 36 7 3 | 8·3 0·7 1·3 | 16 6 2 | 25 9 1 | 20·7 7·5 1·5 | 594 184 44 | 479 176 53 | 35.8 12.0 3.2 | 235 91 49 | 228 109 52 | $24 \cdot 1 \\ 10 \cdot 4 \\ 5 \cdot 2$ | 905 290 100 | 768 301 109 | 26-6 9-4 3-3 |
| 0— 5 5—15 15—25 25—45 45—65 Over 65 | 74 4 18 76 217 301 | 46 4 14 61 129 215 | ${}^{10\cdot3}_{\begin{array}{c}1\cdot3\\2\cdot7\\11\cdot8\\29\cdot9\\44\cdot0\end{array}}$ | 24 4 9 26 32 13 | 35 1 5 28 11 10 | $29 \cdot 7$ $2 \cdot 5$ $7 \cdot 1$ $27 \cdot 3$ $21 \cdot 7$ $11 \cdot 7$ | 822 49 147 437 219 63 | 708 51 128 231 90 55 | 51.0 3.3 9.2 22.3 10.3 3.9 | 375 54 118 131 199 161 | 389 44 100 135 138 83 | $39 \cdot 7$ $5 \cdot 1$ $11 \cdot 3$ $13 \cdot 8$ $17 \cdot 5$ $12 \cdot 6$ | 1,295 111 292 670 667 538 | 1,178 100 247 455 368 363 | 39·3 3·3 8·6 17·9 16·5 14·4 |
| Total | 690 | 469 | - | 108 | 90 | - | 1,737 | 1,263 | al sto se. | 1,038 | 889 | - | 3,573 | 2,711 | - |

DEATHS FROM CERTAIN MAIN CAUSES : EUROPEANS.

| DISEASE | Number of Deaths | Percentage of Total Deaths |
|--|---|---|
| Infective intestinal diseases (Enteric Fever, Dysentery, Diarrhoea and Enteritis) Cancer | 23 (12) 169 (148) 372 (289) 79 (99) 53 (86) 56 (61) 52 (42) 2 (1) 71 (72) | $\begin{array}{c} 1 \cdot 9 & (1 \cdot 2) \\ 14 \cdot 6 & (14 \cdot 3) \\ 32 \cdot 1 & (27 \cdot 8) \\ 6 \cdot 8 & (9 \cdot 5) \\ 4 \cdot 6 & (8 \cdot 3) \\ 4 \cdot 8 & (5 \cdot 8) \\ 4 \cdot 5 & (4 \cdot 0) \\ 0 \cdot 2 & (0 \cdot 09) \\ 6 \cdot 1 & (6 \cdot 8) \end{array}$ |

MAIN CAUSES OF DEATH : CITY CASES ONLY (figures for 1944/45 in brackets) :--

| State of the State | | European | Coloured | Native | Asiatic |
|--|------|---|--|--|--|
| 1. Cancer : Site of Disease : Buccal Cavity and Pharynx Oesophagus | | $\begin{array}{c} 5 & (1) \\ 5 & (5) \\ 43 & (60) \\ 11 & (5) \\ 11 & (7) \\ 10 & (5) \\ 8 & (-) \\ 3 & (7) \\ 21 & (7) \\ 12 & (8) \\ 12 & (8) \\ 6 & (5) \\ 12 & (6)$ | $\begin{array}{c} \hline \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $ | $\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 4 \\ 2 \\ 12 \\ 4 \\ 1 \\ 2 \\ 12 \\ 4 \\ 1 \\ 1 \\ 2 \\ 12 \\ 1$ | |
| Breast Brostate Male Genital Organs Male and Female Urinary Or Other Organs | gans | $\begin{array}{cccc} & 1 & (4) \\ & 1 & (1) \\ & 8 & (12) \\ & 11 & (11) \\ \end{array}$ | | $ \begin{array}{c} 1 & (1) \\ -1 & (-) \\ 1 & (6) \\ 3 & (3) \end{array} $ | $\begin{array}{c} - & (2) \\ - & (-) \\ 2 & (3) \\ 2 & (4) \end{array}$ |
| TOTAL | | . 169 (148) | 6 (11) | 38 (28) | 25 (38) |
| 2. Diseases of the Heart | | $\begin{array}{c} 56 & (62) \\ 3 & (1) \\ -2 & (2) \\ 52 & (42) \\ 16 & (23) \\ 36 & (55) \\ 49 & (41) \\ 17 & (21) \\ 14 & (11) \\ 7 & (5) \\ 23 & (55) \end{array}$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| 14. Suicide : Poisoning | | $\begin{array}{c} 4 & (2) \\ 9 & (-) \\ 4 & (-) \\ 2 & (-) \end{array}$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Railways | | $\begin{array}{c} 6 \\ 15 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $ | | $\begin{array}{c} 10 & (3) \\ 15 & (20) \\ 1 & (1) \\ 14 & (15) \\ 3 & (1) \\ 1 & (1) \\ 11 & (17) \\ 10 & (8) \\ 5 & (9) \end{array}$ | $\begin{array}{c} 1 \\ 4 \\ 1 \\ 34 \\ - \\ - \\ 2 \\ 13 \\ - \\ 13 \\ - \\ - \\ 1 \\ - \\ - \\ 1 \\ - \\ - \\ - \\ -$ |

CAUSES OF DEATH.

| 0.1 | DIFFARE | | BORG | DUGH | | | IMP | ORTEI | > |
|------------|---|---------|-------------|-------------|----------|---------|---|-------------|----------------|
| Code | DISEASE | Eur. | Col. | Native | Asiatic | Eur. | Col. | Native | Asiatic |
| | Infective and Parasitic Diseases : | | | | | | | | |
| 001 008 | Typhod Fever | - | E | 38 | 92 | - | - | 34 | 1 |
| 011 | Whooping Cough | 1 | - | 5 | ĩ | - | - I | i | 1 |
| 012 | Diphtheria | 7 | 1 | 7 | 10 | - | - | 5 | -0 |
| 014 015 | Tuberculosis of Respiratory System | 47 | 44 | 14 461 | 8 245 | 10 | 4 | 361 | 1 29 |
| 015 | | 2 | | 22 | 10 | | 1 | 10 | |
| 017 | " " Intestines & Peritoneum | 2 | - | 10 | 3 | 22 | - | 10 | 20 |
| 018 | | 1 | - | 2 | | - | - | 2 | - |
| 019 020 | ", ", Other Bones and Joints Skin | = | E | Ξ | 1 | = | Ξ | 1 | T |
| 021 | " " Lymphatic System … | - | - | 1 | - | | - | - | - |
| 023 | Other Organs | - | - | 2 | - | - | - | - | - |
| 024 025 | " " Acute Miliary " " Chronic Miliary … | 32 | 1 | 10 | 1 | - | 1 | 5 | 1 |
| 032 | Dysentery, Bacillary | 2 | 2 | 76 | 13 | - | _ | 65 | 2 |
| 033 | " Amoebic | 1 | 4 | 116 | 7 | - | - | 70 | Ĩ |
| 035 | " Other Protozoal | 1 | | - | - | - | | - | 5.00 |
| 036 042 | Malaria | 4 | = | 2 | - | - | - | 1 | 1 |
| 043 | Congenital Syphilis | _ | _ | 18 | 1 | _ | _ | 15 | 1 |
| 044 | Other Forms | 1 | 2 | 10 | 3 | - | - | 27 | - |
| 047 | Others | - | - | 1 | - | - | - | - | - |
| 048 | Influenza with respiratory complications specified | 2 | 3 | - | - | - | - | - | - |
| 049 | Influenza without Respiratory complicat- ions specified | 1 | - | 4 | - | 1 | 1725 | 1002 | |
| 050 | Smallpox | | _ | 2 | _ | - | 2 | - | - |
| 053 | Acute Poliomyelitis and Polioencephalitis | | - | - | 2 | - | - | 1 | - |
| 054 065 | Acute Lethargic (or endemic) Encephalitis Typhus unspecified | 2 | - | = | - | = | = | 3 | 1 |
| 071 | Bilharzia | - | = | - | 1 | 1 | - | 1 | - |
| | Cancer and Other Tumours : | | | | - | | | - | |
| 100 | Cancer and other malignant tumours of | | | | | 172 200 | aive | In Test | |
| 101 | the bucal cavity—Pharynx Oesophagus | 5 | - | - | - | | 1 | 1 | |
| 102 | Stomach and Duodenum | 43 | _ | 4 | 10 | 12 | 1000 | 5 | 2 |
| 103 | Rectum | 11 | - | 42 | - | 2 | - | 538 | - |
| 104 | Liver | 11 | - | 12 | - | - | - | | - |
| 105 106 | Other Digestive Organs | 10 8 | = | 4 | = | 3 | | 4 | - |
| 107 | Larynx | 3 | - | - | - | 1 | - | 1220 | - |
| 109 | Lung | 21 | - | 2 | 3 | 3 | - | - | - |
| 110 | Uterus | 12 | 2 1 | 2 3 2 | 325 | 1 | 1 | 2 2 1 | - |
| 112 | Breast Male or Female | 13 | 2 | 4 | ĩ | 2 | 1 | ĩ | - |
| 113 | Prostate | 1 | ĩ | 1 | - | 22 | - | 3 | 2 |
| 114 | Other Male Genital Organs | 1 | - | - | - | | | - | - |
| 115 | Male and Female Urinary Organs Brain and other parts of the Nervous Sys. | 8 | = | 1 | 2 | 3 | - | 1 | = |
| 118 | Bones | 3 | - | 3 | 1 | - | - | | 1 |
| 119 | Other and Unspecified Organs | 7 | - | 3 | 2 | - | - | 1 | - |
| | Tumours : | | | | | | pet Pag | 1000 | |
| 134 135 | Other Female Genital Organs Brain and other parts of Nervous System | 2 | 1 | 1 | - | - | - | 1 | - |
| 136 | Other and Unspecified Organs | 4 | - | - | 2 | - | - | i | 14 <u>-</u> 14 |
| 100 | Rheumatism, Diseases of Nutrition and of | | | | | | | - Reading | 191 A |
| 1203 | the Endocrine Glands, other General | | | | | | | alma | |
| 149 | Diseases and Vitamin-deficiency Diseases: Acute Rheumatic Fever | 1 | 1 | 2 | 1 | 10 | - | 5 | - |
| 149 | Chronic Rheumatism | - | | ĩ | i | - | 1 | - | 1000 |
| 152 | Diabetes | 16 | 2 3 1 | 2 | 12 | 4 | - | | 23 |
| 163 | Malnutrition | 1 | 1 | 80 | 31 | - | 1 | 103 | 3 |
| 164 167 | Other General Diseases Beri-beri | - | - | 26 | 1 | _ | - | 13 | 1000 |
| 168 | Pellagra | | - | _ | - | - | - | 2 | - |
| 169 | Rickets | - | - | - | 6 | - | - | - | - |
| 203 | Diseases of the Blood : | 2 | | 2 | , | | | 10000 | 1 |
| 203 | Pernicious Anaemia Other and Unspecified Anaemias | 3 | | 3 | 4 | 10120 | 1234 | 5 | - |
| 207 | Leukaemic | 4 | - | - | 4 | 3 | - | 21 | - |
| 210 | Banti's Disease | - | - | - | - | - | - | 1 | - |
| 211 | Other Diseases of the Spleen Chronic Alcoholism | 1 | Ξ | _ | 1 | 2 | T | 1 | Ξ |
| 251 | Chronic Alcoholism | | | | | - | and the second se | | |

| Code | DISEASE | | BORG | DUGH | - | UICI | IMP | ORTEI |) |
|--|---|----------|---------|---|-----------|----------------|--------|--------|--------|
| | | Eur. | Col. | Native | Asiatic | Eur. | Col. | Native | Asiati |
| 201 | Diseases of the Nervous System : | 01 . | | | | al to be | 30 00 | 14 | 1000 |
| 301 302 | Encephalitis-Other Forms Meningitis Pneumococcal | 2 | - | - | - 1 | (teter) | 10000 | - | 1 |
| 303 | Other Forms | 4 | | 2 9 | | 1 | | | - |
| 304 | Diseases of the Medulla on Spinal Cord | 1 | - | 9 | 10 | 1 | | 3 | 4 |
| 305 | Cerebral Haemorrhage | 36 | 3 | 16 | 31 | | - | 6 | |
| 306 | Cerebral Embolism | 36 27 | 2 | 8 | 31 12 | 10 | - | 1 | - |
| 307 | Hemiplegia | 1 | | _ | 10 | 3 | | | |
| 308 | Mental Disorders and Deficiency | - | | _ | 1 | - | | | |
| 309 | Epilepsy | 1 | - | 4 | 1 4 | 2 | | | |
| 310 | Convulsion in Children under 5 years | | | 2 | 4 | | | 6-1 | |
| 312 | Neuritis (non-Rheumatic) | - 1 | | - | 10000 | 3-11 | | - | - |
| 313 315 | Paralysis Agitans | 5 | = | the second se | - | | - | | |
| 317 | Diseases of the Ear and the Mastoid | | - | | | 1 | | - | 1 |
| 514 | Process | 2 | | 1 | 2 | | - | 121 | - |
| 100 | | - 1 | | - | | , | | | |
| | Diseases of the Circulatory System : | _ | 1.1.1. | | | | 10.000 | 1 | 1.00 |
| 351 | Other Pericarditis | - | - | 2 | - | | 1 | | - |
| 352 353 | Acute Endocarditis | 6 | - | 3 | 8 | 1000 | | 3 | - |
| 333 | of Rheumatic Fever | 3 | _ | 2 | 6 | 100.00 | 10000 | | 1.00 |
| 354 | Other Forms | 13 | 2 | 8 | 13 | 1 | - | 1 5 | - |
| 355 | Acute Myocarditis | -13 | - | - | 5 | | | 1 | - |
| 356 | Chronic Myocarditis | 7 | 4 | 15 | 30 | 7 | | 7 | 1 |
| 357 | Other Chronic Myocarditis | 109 | 5 | 66 | 74 | 21 | | 15 | |
| 358 | Diseases of Coronary Arteries | 2 | 1 | - | 11 | | | | 2 |
| 359 | Heart Disease specified as Rheumatic | 6 | | 5 | 8 | | - | | - |
| 360 361 | Not specified as Rheumatic Aneurysm except of Heart | 20 | 1 | 8 | 8 | | | | 1 |
| 362 | Arterio-Sclerosis | 131 | 6 | 18 | 40 | 13 | - | 28 | 1 |
| 363 | Gangrene | - | - | 3 | 1 | | | | î |
| 364 | Other Diseases of the Arteries | 6 | - | 1 | | 2 | | 3 | - |
| 366 | Diseases of the Lymphatic System | - | - | 3 | - | - | - | 1 | |
| 367 | High Blood Pressure | | - | | 18 | - | - | - | - |
| 368 | Other Diseases of the Circulatory System | 59 | 4 | 23 | 40 | 8 | - | 29 | 12 |
| - | Diseases of the Respiratory System : | - | | - | | 2 million | | 0 | 100 |
| 400 | Diseases of the Nasal Fossae and Annexia | _ | - | - | 1 | 1 | - | - | - |
| 401 | Diseases of the Larynx | - | - | 4 | - | - | - | | - |
| 402 | Acute Bronchitis | 5 | - | 14 | 100 | | - | 1 | 1 |
| 403 | Chronic Bronchitis | 8 | | 9 | 57 230 | 2 | - | 1 | 1 |
| 404 405 | Broncho Pneumonia | 26 12 | 16 2 | 489 | 89 | 8 | 1 | 176 | 7 |
| 405 | Pneumonia Unspecified | 5 | - | 9 | 9 | - | | 24 | 2 |
| 407 | Empyema | | 2 | _ | - | 1 | | | |
| 408 | Other Unspecified Forms of Pleurisy | 2 | _ | 4 | | - | - | - | |
| 409 | Haemorrhagic Infection of Lungs | | | 9 | 4 | 2 | _ | 1 | |
| 410 | Chronic or Unspecified Congestion of | | | and all | Lastica | 1053 10 | | 11 2 1 | |
| | Lungs | 9 | 1 | 27 | 10 | 2 | - | 2 | - |
| 411 | Asthma | 20 | | 8 | 28 | 1 | - | 1 | 2 |
| 413 | Miners' Phthisis without Tuberculosis | 6 | 10000 | - 1 | | 1 10 | 1000 | | - |
| 414 415 | Miners' Phthisis with Tuberculosis Other Occupational respiratory Diseases | 2 | 1 | | 1 | - | - | 1 | - |
| 417 | Abscess of the Lung | 2 | | 5 | i | | | 7 | |
| 418 | Other Diseases of the Respiratory System | - | | - | | 1 | | | |
| 1200 | (non-Occupational) | 3 | | 3 | 1 | 2 | - | 04 | |
| | THE REAL PROPERTY OF | 0 | | A second second | 1 | | | 16 | |
| 450 | Diseases of the Digestive System : Diseases of the Teeth and Gums | 13 - 20 | 1 | _ | 2 | - | _ | | 100 |
| 452 | Other Diseases of the Pharynx & Tonsitis | - 1 | _ | 1 | ĩ | | 0 | - | |
| 454 | Diseases of the Oesophagus | 2-1 | - | | - | - | | 2 | |
| 455 | Stomach Ulcer | 5 | - | 1 | 3 | 1 | - | - | 1 |
| 456 | Duodenum " | 7 | - | 1 | 4 | 3 | - | 1 | - |
| 457 | Other Diseases of the Stomach | | - | 506 | 122 | 7 | 2 | 172 | 6 |
| 458 459 | Diarrhoea Enteritis (under 2 years) Diarrhoea Enteritis (2 years and over) | 18 2 | 92 | 506 23 | 122 | - | - | 172 | 0 |
| 459 | Diarrhoea Enteritis (2 years and over) Ulceration of the Intestines | - 4 | | 23 | 24 | | | 2 | 1 |
| 461 | Appendicitis | 2 | | 2 | 2 | | | ĩ | 3 |
| 462 | Hernia | 1 | 2 | 3 | 2 | 1 | 0 to 1 | -31 | |
| 463 | Intestinal Obstruction | 2 | - | 4 | 2 | | - | 3 | |
| 465 | Other Diseases of the Intestines | _1 | 2 | 4 | - | alle | 13-10 | - | - |
| T | Cirrhosis of Liver : | | 1 | and the second | 1 | and the second | 2 | 2 - | |
| 466 | With mention of Alcoholism | 3 | - | 5 | 1 | 1 | - | - | |
| 467 | Without mention of Alcoholism | 8 | - | 6 | 10 | - | - | 4 | - |
| 468 | Acute Yellow Atrophy of the Liver | 1 | 1 | 3 | 3 | 2 | 1 | 25 | - 75 |
| 469 | Other Diseases of the Liver | 2 | | 3 | 8 | 1 | - | 2 | |
| 471 | Cholecystitis without record of Biliary Calculi | 1 | abin bi | 1000 | | - | | 1 | - |
| And in case of the local division of the loc | | 2 | | _ | _ | - | | i | 1 |
| 472 | Diseases of the Pancreas | | 2 | | 4 | 1 | | 4 | |

| Code | DISEASE | | BORG | UGH | | | IMP | ORTED |) |
|------------|--|-------|-----------------------|------------------|-------------------|-------------|---|--------|------------|
| Coue | DISEASE | Eur. | Col. | Native | Asiatic | Eur. | Col. | Native | Asiatic |
| 500 | Diseases of the Urinary and Genital Systems: | 10 | 1 | 12 | 29 | 3 | 2000 | 12 | - |
| 500 | Acute Nephritis | 39 | 4 | 25 | 34 | 10 | | 12 20 | 23 |
| 502 | Nephritis not stated to be Acute or | | | | 000000 | 10 | (Spartie) | | 1000 |
| | Chronic | 4 | 2 | - | - | 1 | | 3 | - |
| 503 | Pyelitis, Pyelonephritis and Pyelocystitis | 4 | | 4 | 1 | 1 | | 2 | |
| 504 | Others | 9 | - | 1 | 2 | 1 | | 4 | Courses- |
| 505 506 | Calculi of the Urinary Passages Cystitis | 1 | = | 1 | 2 | 1 | = | - | 1 Unit |
| 509 | Hypertrophy | i | _ | - | ĩ | and and | CI LLES | 17-1 | 1000 |
| 510 | Others | 2 | 2 | - | - | - | - | - | 1 |
| 511 | Diseases of other Male Genital Organs | - | - | 1 | 1 | - | | - | 1000 |
| 512 | Diseases of the Ovaries, Fallopian Tubes Other Diseases of the Female Genital | 1 | 1 | 2 | 2 | | | - | |
| 515 | Organs | - | Same | 1 | and the second | - | 15 mar | 1 | 230 |
| 550 | Post Abortive Infection-Spontaneous | | Ran I | i | 1 | 1 | 1-1-10 | 0 | 1000 |
| 551 | Abortion induced for reasons other than | 2 | | | | - | 010002 | 1 | |
| | Therapeutic | - | - | - | - | - | - | 1 | - |
| 552 | Abortion without mention of Septic | | - | | and the second | - | Automatica and | | |
| 554 | conditions Ectopic Gestation | 1 | _ | 2 | _ | rn bours | 1 | 1 | 120 |
| 555 | Haemorrhage from Placenta Praevia | | - | - | 1 | 1 should be | 1.1 | 1 | 100 |
| 556 | Haemorrhage from premature separation | | | 1.000 | 12.00 | No. | Labore | 19.00 | 353 / |
| | of Placenta | | | - | 2 | 1 | - | - | - |
| 557 | Other Haemorrhage of Pregnancy | - | - | - | 1 | 1 | - | 2 | - |
| 558 | Eclampsia of Pregnancy | - | - | 4 | 6 | - | - | 1 | 2 |
| 560 561 | Acute Yellow Atrophy of Liver pregnancy Other Toxaemias of Pregnancy | I | - | 1 | - | | - | 1 | 1227 |
| 562 | Other Diseases & Accidents of Pregnancy | | _ | i | 1 | 1000 | | - | 2000 |
| 565 | Other Haemorrhages during Childbirth | | - | 11-1-1 | 2 | | - | 1 | 1 |
| 566 | Other Haemorrhages after Childbirth | 1 | - | 4 | - | | - | 1 | 100 |
| 567 | General or Local Puerperal Infection | 1 | - | - | - 1 | - | | - | - |
| 570 | Puerperal Eclampsia | | 2 | - | | - | | - | 1000 |
| 573 574 | Other Puerperal Toxaemias Other Accidents of Childbirth | -4 | - | 37 | 1 | | - | 2 9 | 3 |
| 3/4 | Other Accidents of Childon uf | | - | ' | 0 | 1 100 | | 10 | 3 |
| | | | | - | 100 | opert b | politing. | 115 | 1100 |
| 1 | Diseases of the Skin and Cellular Tissues : | | and the second second | CODINIA | | NO ITEL | 0001.220 | 10 | 1040 |
| 600 | Carbuncle Boils | - | | - | 3 | - | - | - | 1 |
| 601 602 | Cellulitis, Acute Abscess Other Diseases of the Skin | 2 | 1 | 1.170 | 2 | 10 Mar | 1000 | 3 | 2 |
| 002 | Other Diseases of the Skin | 4 | 1000 | 60.000 | 1.1.1 | 1 | - | 3 | 4 |
| | and shared the strend of the strend of | | | | - 100000 | a add | 1 10455 | 10 E | |
| 1 | Diseases of the Bones-Organs of Movement: | | | 1 | | | 100 00 | 20.0 | |
| 650 | Osteomyelitis and Periostitis | _ | - | - | 2 | - | - | - | The second |
| 651 | Other Diseases of the Bones | - | - | - | | 1 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 1 | 200 |
| | | | 1.5 | 1 | Sadara | Walt I | (reached) | 13 1 | |
| 1000 | Congenital Malformations : | 1 | 1 | 122 | 1.000 | 1 | 00201 | 13. 1 | |
| 701 | Spina Bifida and Meningoccle | 1 | 2 | 2 | | | 2 | - | - |
| 702 709 | Congenital Malformations of Heart Unspecified Congenital Malformations | | - | - | 2 | - | | 1 | 019 |
| 105 | Ouspecified Congenital Mailousations | 10 11 | | 1. | | | an dat | 1 | 1.1 |
| | | | | 10.2 | 1. 11. | | annet | 16.5 | |
| | Diseases Peculiar to the First Year of Life : | | | 245 | | 1000 | 3.000 | 01 | 1 |
| 750 | Congenital Debility | 5 | 6 | 245 | 75 | | - | 86 | 52 |
| 751 7.52 | Premature Birth | 30 | 11 | 58 | 42 | 2 | 2 | 32 | 2 |
| 152 | due to Injury at Birth | 4 | 3 | 9 | 5 | 1 | 31200 | 8 | and a |
| 753 | Other Birth Injuries | ĩ | - | 3 | - | - | 0-0 | - | - |
| 7.54 | Asphyxia during or after Birth | - | | 3 | 6 | - | - | 1 | - |
| 758 | Other Specified Diseases | 6 | 1 | 29 | 22 | 1 | 1 | 7 | |
| | and a stand of the | | | Provide State | an de | Contra 1 | a freeday | a al | |
| | Senilitay, Old Age : | | Chego T | St Zere | and the second | To testa | er Din | 170 | |
| 800 | Senility (age 65 and over) | 33 | 3 | 15 | 34 | 3 | | 16 | 1 |
| | | | | 1 1 1 | 1 | -really | | a. | |
| | Violent or Accidental Deaths : | 1 | | at the second | 18 orth | 1300 | 1 | 0 | |
| 850 | Suicide by Poisoning (corrisve substances) | 5 | 1 | 4 | 8 | 1 | | 2 | |
| 851 | Analgesic, narcotic and Sporific Drugs | - | i | an <u>ti</u> n a | 3 | | | -C | |
| 852 | Other unspecified Poisons (liquid or solid) | 2 | - | - | | - | | 1 | - |
| 854 | Motor Exhaust Gases | 2 | - | - | - | - | - | | - Frank |
| 855 856 | Other Poisonous Gases Hanging or Strangulation | 1 | - | 2 | 6 9 | 2 | 1 | E | 125 |
| 857 | Drowning | - | _ | Î | 3 | - | 1 | 10-11 | -2.60 |
| 858 | Firearms and Explosives | 4 | - | - | - | 1 | - | - | - |
| 859 | Cutting or Piercing Instruments | i | _ | - | - | î | - | 1 | 1 |
| 860 | Jumping from High Places | i | | 1 | - | | 10-10 | 2 | - |
| 863 | Other or Unspecified Means | - | 1 | 1 | - | - | - | - | |
| 865 | Homicide by Firearms | 3 | - | | - | 1 | - | - | - |
| 866 | Homicide by Cutting or Piercing Instru- | 2 | 3 | 55 | 2 | 1 | 1 | 14 | aller. |
| 867 | Homicide by Other or Unspecified Means | | | 8 | 2 | - | in the second | 14 | 213 |
| 868 | Accidents on Railways | 6 | | 16 | ĩ | 1 | | 2 | - |
| 869 | Collisions with Trains | - | | - | - | - | 1 | - | |
| | | | A DESCRIPTION OF | NUMBER OF STREET | CARD OF THE OWNER | Carl True ? | A DECK DECK DECK DECK DECK DECK DECK DECK | 1000 | |

| Code | DISEASE | | BORG | DUGH | | | IMP | ORTEE |) |
|------------|--|-----------------------|---------|--------|---------|-------|--------------------|----------|--------|
| Code | DISEASE | Eur. | Col. | Native | Asiatic | Eur. | Col. | Native | Asiati |
| 870 | Collisions with Motor-driven Road | | | | | 100 | 1948 | 2 | 2. 18 |
| | Vehicles | - | - | 1 | - | - | - | 2 | |
| 871 | Other Accidents | 15 | 2 | 15 | 4 | 3 | - | 14 | 1 |
| 872 | Collisions with Trains | | - | 2 | - | THE | | | - |
| 873 | Collisions with Trams, Trolleybuses | 1 | - | 4 3 | - | | - | 3 | - |
| 874 | Other Accidents | 3 | 1 | 3 | 1 | | - | 7 | - |
| 875 | Collisions excluding Motor-driven Road | | | | | | | Sec. 1 | 1.17 |
| 077 | Vehicles | - | - | 1 | - | - | - | _ | |
| 877 | Other Accidents (including pedal cycles) | - | - | 1 | - | - | - | - | |
| 881 | Accidents in Quarries | - | - | - | | - | - | 1 | - |
| 887 | Accidents caused by Machinery | 2 | - | -7 | - | - | - | 1 | - |
| 888 | Food Poisoning | - | | 4 | - | - | - | - | |
| | Accidental absorption of Poisonous Gases | and the second second | 1 | 1 | - | 2 | | - | - |
| 889 891 | Other Acute Accidental Poisoning | - | -4 | 1 | 1 | | | | - |
| | Accidental Burns | 5 | 1.1.1.1 | 14 | 34 | - | - | 6 | 6 |
| 892 893 | Accidental Mechanical Suffocation | 4 | - | 2 | 3 | | - | 3 | - |
| 893 | Accidental Drowning | | 3 | 10 | 13 | 10 | 2 | | 1 |
| 895 | Accidental Injury by Firearms | - | - | 3 | - | - | - | 10000 | 2 |
| 895 | Accidental Injury by Cutting or Piercing | 2 | | | | | and a start | alling a | |
| 896 | Instrument | 12 | 1 | 111 | | - | 1 | - | |
| 896 | Accidental Injury by Fall | 12 | 1 | 3 | 2 | 4 | | 3 | - |
| 902 | Accidental Injury by Landslide Excessive Heat | | _ | 3 | | - | - | 1 | - |
| 902 | | - | 1000 | 1 | 1 | - | 10000 | | - |
| 903 | Lightning | 1 | _ | 1 | | - | - | 0.000 | |
| 905 | Attack by Venomous Animals | _ | | 1 | 1 | - | - | | - |
| 906 | | 1 | _ | 1 | - | 12291 | 1 | 12 | - |
| 908 | Other and Unspecified Accidents | - | _ | i | - | _ | Contraction of the | 120100 | |
| 950 | Sudden Death | = | = | - | | 1 | - | - | 1 |
| 951 | THE LC ALCONNER | 7 | 1000 | 19 | 39 | - | 2 | 12 | 5 |
| 952 | Found Dead—Causes Unknown | 1 | 1 | 3 | | | 4 | 12 | 3 |
| 953 | Other Deaths from Unknown or Unspe- | | | 3 | | - | | 3 | |
| 155 | fied Causes | 1 | 1 | | 11 | 1000 | 2 | - | 1 |
| No. of | | | - | | | | - | 1.10001 | |
| | TOTALS | 1,159 | 198 | 3,000 | 1,927 | 241 | 20 | 1,678 | 140 |

TOTAL DEATHS—Borough ... 6284. TOTAL DEATHS.—8363.

Imported ... 2,079.

٩.

and the second s

| 2.—INFECTIOUS | DISEASES NOTIFIED | DURING THE | YEAR (figures for | 1944/45 in brackets) : |
|---------------|-------------------|------------|-------------------|------------------------|
|---------------|-------------------|------------|-------------------|------------------------|

| | -} | | 3 | -1 | | Euro | pean | Colo | ured | Nat | tive | Asi | atic |
|---|---------------|------|---|----|----|-----------------|-----------------------------|-------------------|----------------------------------|------------------------|------------------------------|--------------------|---------------------------|
| 1. Enteric or Typhoid Fever Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | 18 21 | (17) (16) (2) (1) | 71 | (5) (1) (1) (1) | 113 122 38 34 | (62) (34) (19) (32) | 39 13 9 1 | (28) (9) (6) (6) |
| 2. Cerebro-Spinal Meningin Local Cases Imported Cases Deaths (Local) Deaths (Imported) | tis : | | | | | 10 1 | (11) (2) () | 1 - - | | 26 8 1 1 | (25) (10) () | 6 1 2 - | (13) (1) (2) () |
| 3. Scarlet Fever : Local Cases Imported Cases | | | | | :: | 99 12 | (131) (12) | 1 | (5) (—) | 1 5 | (4) (1) | E | |
| 4. Diphtheria : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | 154 39 7 | (255) (49) (6) (3) | 17 2 1 — | (36) (5) (1) () | 64 33 7 5 | (116) (33) (9) (11) | 38 9 10 | (37) (14) (2) () |
| 5. Erysipelas : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | 10 4 — | (17) (17) | 1111 | IIIe | 2 2 | []e]] | HH | |
| 6. Poliomyelitis : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | 3 2 2 | (55) (28) (3) (2) | 1 | () () () () () () | 3 | (26) (13) (5) (1) | 5 2 | (11) (4) (4) (3) |
| 7. Gon. Ophthalmia : Local Cases Imported Cases | | | | | | 1 | (6) () | = | (2) (—) | 12 | (56) (—) | 3 | (27) (—) |
| 8. Leprosy : Local Cases Imported Cases | | | | | | LI | | | | 5 4 | (7) (2) | | (1) (—) |

| | | | | | 12 | Europ | ean | Colo | ured | Nat | tive | Asia | atic |
|-----|---|---------|------|------|----|--------------|------------------------------|-------------------|----------------------------|---------------------------|--------------------------------|--------------------|------------------------------------|
| 9. | Puerperal Sepsis : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | 4 1 | IIIC | 1 | III | 52 - | 00J00 | 3 1 | (12) (12) (8) (12) (8) |
| 10. | Trachoma : Local Cases Imported Cases | | | | | | | | (1) () | ī | () (3) | = | (<u>_)</u> (2) |
| 11. | Typhus : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | 11 9 — | Jele | IIII | III | | (6)(4) (2) | $\frac{2}{3}{1}$ | 2000 |
| 12. | Encephalitis : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | III: | 1 | III | 4 | IIIe | = - 1 | IsII |
| 13. | Smallpox : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | BBÎB | IIII | (17) (2) (6) (1) | 6 12 2 2 | (114) (178) (39) (53) | 2 3 — | (195) (25) (47) (9) |
| 14. | Relapsing Fever : Local Cases Imported Cases | | | | | Ξ | (<u>)</u> | I | () (1) | | E | = | 5 |
| 15. | Ophthalmia Neonatorum Local Cases Imported Cases | n : | | | | <u>16</u> | | 4 | | 62 1 | | 33 | |
| 16. | Amoebic Dysentery : Local Cases Imported Cases Deaths (Local) Deaths (Imported) | | | | | | (429) (110) (2) (1) | 45 7 4 - | (27) (30) (2) (_) | 1,419 538 116 70 | (828) (85) (186) (93) | 81 15 7 1 | (34) (5) (7) (5) |
| 17. | Polioencephalitis : Local Cases Imported Cases | | | | | 1 | | = | | = | | T | |

DEATH RATES FOR DYSENTERY AND GASTRO ENTERITIS FOR THE PAST FIVE YEARS :

| | 1.1.1. | | | | 5 | | - | European | Coloured | Native | Asiatic | All Races | Non-Eu |
|------|--------------|-----|------|------|------|------|---|----------|----------------|----------|---------|--------------|---------|
| Duse | ntery : | 100 | | | 194 | | | | 1 | New York | 111111 | A Strange | - |
| | 1942 | | | | | | | •11 | ·82 | 3.14 | •36 | 1.02 | 1.56 |
| | 1943 | | | | | | | .25 | 2.45 | 5.66 | 2.01 | 2:30 | 3.55 |
| | 1944 | | | | | | | •14 | 1.03 | 6.11 | -76 | 1.90 | 2.95 |
| | 1945 | | | | | | | ·03 | 1.00 | 4.08 | -23 | 1.13 | 1.80 |
| | 1946 | | | | | | | ·04 | •61 | 1.87 | •19 | •67 | 1.01 |
| Gast | ro-Enteritis | (u | nder | 2 ye | ars) | : | | | Contraction of | | (5.0 | normal utili | 10 |
| | 10.10 | | | | | | | -24 | 2.59 | 5.47 | 1.53 | 2.12 | 3-25 |
| | 1943 | | | | | | | .12 | 2.92 | 6.62 | 2.46 | 2.31 | 4.32 |
| | 1944 | | | | | | | .11 | 2.51 | 7.76 | 1.41 | 2.54 | 4.01 |
| | 1945 | | | | | | | .05 | 2.56 | 6.44 | .91 | 2.01 | 3.20 |
| | 1946 | | | | | | | •16 | .93 | 4.93 | 1.17 | 1.98 | 2.94 |
| Gast | ro-Enteritis | (2 | vear | s an | d ov | er): | | | | | | - | and the |
| | 1010 | | | | | | | ·05 | .47 | -65 | .60 | .40 | .62 |
| | 1010 | | | | | | | .07 | -58 | - 80 | .78 | -51 | .79 |
| | | | | | | | | .02 | .11 | 1-45 | .61 | -57 | .93 |
| | 10.10 | | | | | | | .01 | ·ii | -84 | .21 | -23 | .47 |
| | 1946 | | | | | | | .02 | ·21 | -22 | -23 | •16 | .22 |
| AH I | Dysenteries | | | | | • | | | | | 2 | Ophillion of | T. Com |
| | 1942 | | | | | | | •40 | 3.88 | 9.28 | 2.49 | 3-54 | 5.43 |
| | 1943 | | | | | | | .44 | 5.95 | 13.08 | 5.25 | 5.12 | 8.66 |
| | 1944 | | | | | | | .27 | 3.65 | 15.24 | 2.77 | 5.00 | 7-89 |
| | 1945 | | | 1 | | | | .09 | 3.67 | 11.36 | 1.35 | 3.37 | 5.47 |
| | 1946 | | | / | | | | .22 | 1.75 | 7.02 | 1.59 | 2.81 | 4.17 |

CITY CASES ONLY.

DEATH AND INCIDENCE RATE PER 1,000 OF THE POPULATION FOR ENTERIC AND DIPHTHERIA.

| | Euro | pean | Cold | oured | Nat | ive | Asia | atic | All F | Races | Non- | Eur. |
|--|-------------------------------------|--|--------------------------|--|---------------------------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|-----------------------------------|---------------------------------|---|
| | Death Rate | Incid. Rate | Death Rate | Incid. Rate | Death Rate | Incid. Rate | Death Rate | Incid. Rate | Death Rate | Incid. Rate | Death Rate | Incid. Rate |
| Enteric : 1942 1943 1944 1945 1946 | ·09 ·06 ·05 ·02 | 1 · 17 · 64 · 34 · 15 · 16 | ·12 ·23 ·11 | 1 · 42 1 · 17 · 34 · 58 · 72 | ·54 ·46 ·51 ·51 ·37 | 2.28 2.13 1.49 .86 1.10 | ·11 ·16 ·11 ·11 ·09 | ·24 ·75 ·47 ·28 ·37 | ·22 ·21 ·19 ·19 ·14 | 1.15 1.09 .69 .39 .53 | ·29 ·23 ·28 ·27 ·14 | 1 · 1 · 1 · 1 · 1 · 3 · · · · · · · · · |
| Diphtheria : 1942 1943 1944 1945 1946 | ·02 ·09 ·06 ·05 ·07 | $2 \cdot 48$ 2 \cdot 77 3 \cdot 84 2 \cdot 33 1 \cdot 34 | ·12 ·23 ·11 ·10 | 3.07 2.81 8.44 4.01 1.75 | ·05 ·03 ·22 ·12 ·07 | ·85 ·60 1·01 1·61 ·62 | -03 -02 -02 -09 | ·03 ·01 ·09 ·37 ·36 | 1.03 1.30 2.09 .07 .07 | ·29 ·23 ·28 1·55 ·82 | ·02 ·04 ·11 ·07 ·09 | ·5 ·4 1·0 1·0 ·5 |

INFECTIOUS DISEASES ADMITTED TO CITY FEVER HOSPITAL, CONGELLA, DURING THE YEAR.

| | | | | Eur | opean | Cold | oured | Native | Asiati | c T(| OTAL |
|---------------------------------------|----|-----|-----|-----|---------------|-------|-----------------|-------------------|--------------|-----------------|----------------|
| C.S. Meningitis | | | | 8 | (22) | - | () | - (3) | | 1) 8 | (26) |
| Chickenpox Diphtheria and Suspects | | *** | *** | 67 | (44) (300) | - | (9) | - (159) - (10) | | 6) 67 | (218) (323) |
| Measles | | | | 29 | (57) | | B | - (10) | = 8 | 8) 211 1) 29 | (124) |
| Mumps | | | | 21 | (13) | - | B | - (7) | | -) 21 | (20) |
| Pertussis | | | | 3 | (20) | - | (4) | - (20) | - (| 1) 3 | (45) |
| Rubella | | | | 6 | (1) | - | (\rightarrow) | - (-) | 1 | -) 6 | (1) |
| Scarlet Fever and Suspec | ts | | | 95 | (128) | - | () | - (-) | | -) 95 | (128) |
| Smallpox | | | | - | (1) | - | (20) | 20 (233) | 5 (20 | | (458) |
| Smallpox Suspects | | *** | *** | - | (1) | - | (4) | 11 (126) | 2 (1 | | (150) |
| Smallpox Contacts | | *** | *** | - | () | - | (10) | 19 (145) | | 8) 20 | (213) |
| Trachoma | | | | 9 | (7) | | B | 22 | = 6 | 1) 2 -) 9 | (1) |
| Typhus Whooping Cough | | | | 8 | (10) | | B | | $ = \Sigma$ | 5 1 10 | (10) |
| Gonoccocic Infection | | | | 3 | () | 1 2 1 | (L) | = = | = { | 6 . | (- |
| TOTALS | | | | 462 | (604) | - | (52) | 50 (769) | 8 (29 | 9) 520 | (1,724) |

AMBULANCE REMOVALS :

The following table sets out the number of cases conveyed in the Infectious Diseases Ambulance :

| | Europ | | | Coloured | | Native | | Asiatic | | TAL |
|---|---------------------|------------------------|-----------|----------------------|--------|-------------------------|-----------------|---------|-------------------|---------------------------|
| City Fever Hospital Government Hospital Other Hospitals | 391 57 56 | (546) (109) (28) | 128 85 | (49) (86) (23) | 378 | (391) (562) (351) | 6 125 204 | (196) | 408 688 580 | (1,278) (953) (529) |
| TOTALS | 504 | (683) | 213 | (158) | 624 (1 | 1,304) | 335 | (615) | 1,676 | (2,760) |

DISINFECTING STATION AND LAUNDRY :--

| Municipal Departments- | | | | | | |
|-----------------------------|----------------------|------|------|-----|-----------|-------------|
| 201 - Y2 - 1 - 1 | Disinfections | | | | 44,227 | (38,109) |
| | Articles laundered | | | | 114,848 | (182,555) |
| and the state | Articles laundered | | | | 57,860 | (66,874) |
| Ocean Beach | Articles laundered | | | | 44,052 | (42,669) |
| Other Departments | Articles laundered | | | *** | 104,156 | (87,049) |
| TOTALS | | | | | 365,143 | (417,256) |
| (a) Routine : | | | | | | |
| | Disinfection of Art | cles | | | 85,978 | (109,822) |
| Private Premises | Disinfection of Ros | | | | 3,641 | (3,294) |
| (b) Contract : | | | | | | |
| | Articles laundered | | | | 6,483 | (4,999) |
| | Disinfections | | | | 3,888 | (5,880) |
| | Disinfections | | | | 217,650 | (239,205) |
| Y II THE YEAR OLD THE | Articles laundered | | | | 59,574 | (63,679) |
| King Edward VIII Hospital | Articles laundered | | | | 1,295,421 | (1,290,819) |
| King Edward VIII Hospital | Disinfections | | | | 50,232 | (48,158) |
| King George V Hospital | Articles laundered | | | | 148,165 | (167,547) |
| S.A.W.A.S. Residential Club | b Articles laundered | | | *** | 164,034 | (435,830) |
| TOTALS | | | | | 2,835,066 | (2,369,251) |

3. TUBERCULOSIS :

1.-VITAL STATISTICS-

(a) Notifications :

| | Benth Internet | | | | Eur | ropean | Co | Coloured | | Native | | siatic | TOTAL | |
|-----|---|------|------|------|-----------|---------------|---------|---------------|------------|----------------|-----------|---------------|-----------------|---------------------|
| (a) | Notifications : (i) Pulmonary : Local Imported | | | | 118 53 | (131) (53) | 66 5 | (105) (19) | 945 820 | (952) (667) | 527 58 | (453) (53) | | 6 (1,641 6 (792) |
| | (ii) Non-Pulmona Local Imported | | | | 2 | (10) (1) | 10 | (7) (3) | 55 102 | (88) (175) | 32 5 | (41) (7) | 99 107 | |
| (b) | Deaths : (i) Pulmonary : | | | | 10 | | | | | | in | | 1 Alars SARY | |
| | Local | | | | 47 10 | (42) (14) | 44 | (43) | 461 | (446) | 245 | (233) | 797 | (764) |
| | Imported | | •••• | •••• | 10 | (14) | 4 | (1) | 361 | (314) | 29 | (22) | 404 | (351) |
| | (ii) Non-Pulmone | wy : | | | 10 | | | 1.8 | | | 0 | | 0581 | |
| | Local | | | | 10 | (1) (3) | 1 | (6) (1) | 51 29 | (40) | 16 | (25) | 78 | (72) |
| | | | | | 4 | (3) | 2 | (1) | 29 | (39) | 1 | (5) | 36 | (48) |

Realising the urgent need for additional Tuberculosis beds, particularly for non-European patients, the City Council, during the early part of the war, resolved to provide 200 additional Tuberculosis beds for Native and Indian patients. Whilst the City Council undertook to provide these beds, it was arranged that they would be administered by, and in conjunction with, existing Government hospitals. For various reasons, unpredictable at the time, it was found necessary to modify the original scheme repeatedly, until eventually the provision of these additional wards became impracticable because firstly, building costs had risen to a prohibitive figure ; secondly, the war appeared to be drawing to an end, thus offering reasonable prospects of obtaining military hospitals for civilian purposes ; and thirdly, a very acute shortage of nurses had developed during the war years.

Since the termination of hostilities, the Union Government has assumed responsibility for providing further hospital accommodation for Tuberculosis, and has acquired Springfield Military Hospital which is now administered in conjunction with King George V Hospital.

How many beds does Durban require for its own City cases? This may best be assessed by adopting the well-known formula applicable to European countries, viz. : One bed for every death occurring the previous year. During the year 1945/46, there were 875 " City " deaths and 440 " Imported " deaths in Durban. Allowing for a modification in this formula and for the preponderance of non-European cases, it is safe to state that Durban requires 1,000 Tuberculosis beds for City cases only. As there are already in existence approximately 270 beds for City patients, a further 730 are required for City cases only.

In planning Tuberculosis hospital requirements in Durban, however, it is essential to make provision for imported cases as well, and as hospital facilities in Durban improve, the proportion of imported cases to City cases is certain to increase. During the year, approximately 600 Tuberculosis cases left Durban. Most of these were imported cases and one of the main reasons for their leaving Durban was the lack of hospital accommodation. Add this number to the 440 " imported " deaths which occurred last year and we find that approximately a further 1,000 beds will be required. If provision is not made for these imported cases, there will not be sufficient accommodation for City cases.

To sum up, approximately 1,600 more beds are required over and above the existing number.

It would appear likely that the acquisition of military hospitals for Tuberculosis patients will go a long way towards remedying the position. For instance, it is probable that Springfield Military Hospital will provide an additional 800 beds.

At the outbreak of war, the main difficulty regarding Tuberculosis control was the shortage of hospital beds. During the war years, however, a progressive shortage of civilian nurses developed, and the termination of hostilities did nothing to relieve the situation. It would appear therefore that the main deficiency during the next few years is likely to be the shortage of nurses rather than a shortage of beds.

Tuberculosis Staff and Activities.—The staff of the Tuberculosis Section of the City Health Department has remained the same numerically as in the previous years, viz. : One Medical Officer, two Clerks, one Typist, four European Health Visitors, four Indian and four Native Health Assistants.

The Health Visitors and Health Assistants have visited every notified City case (1,755) and also quite a large number of cases for whom the City is not financially liable. Every notified case is entered in the Register, and a personal file kept for each patient's records. The majority of the home contacts of these cases have been induced to attend the various clinics for fluoroscopy of X-raying, and in this way numerous early, and not a few advanced, cases have been located.

Of late, more attention has been paid to patients' contacts at their places of employment. This introduces a very wide field of examination, which can only be dealt with practically and economically when our miniature radiography is in full operation.

In recent years City notifications have been more than double the City deaths in number. Last year the figures were 1,755 and 875 respectively. This means that the total number of patients requiring attention, mainly by the Health Visitors, is increasing at a rapid rate. The work of the Health Visitors is increased by the number of active cases who require to remain on the hospital waiting lists for prolonged periods. Inadequate hospital facilities is taking a heavy toll among the non-European community whose facilities for home isolation are practically non-existent.

European members of the staff are members of the Care Committee of the Natal Anti-Tuberculosis Association. This Committee meets once or twice monthly and dispenses relief to patients and their dependants, mainly in the form of cash-grants towards rents or in the form of foodstuffs.

Applications for assistance are increasing each year, and, in consequence, available funds are proving inadequate. During the last year, Native patients have become more aware of the fact that they are entitled to some form of assistance so that demands from Native cases can be expected to show a sharp rise in future.

Health visitors also make the necessary arrangements for having child contacts admitted to the Preventoria in Queenstown and in Pietermaritzburg. During the year the Health Education section of this Department has given 1,273 health talks and 20 filmshows on the dangers and control of Tuberculosis. These have been given mainly to non-Europeans, who evince a keen appreciation of this type of education and propaganda. Assisted by the Native Health Assistants of the Tuberculosis Section, they have also successfully "put over" several talks to Native patients in hospital wards with the object of preventing Native patients from absconding from hospital.

| | European | | pean | Colo | ured | Na | tive | Asi | atic | All I | Races | Non-Eur. | |
|---------------------------------|----------|---------------|---------------------------|---------------|---------------------------|---------------|---------------------------|---------------|---------------------------|---------------|---------------------------|------------------|----------------------------|
| | | Death Rate | Notifi- cation Rate | Death Rate | Notifi- cation Ratee |
| Pulmonary 1946 1945 | | · 37 · 38 | ·94 1·19 | 4·29 4·79 | 6·44 11·68 | 4·25 6·26 | | 2·15 2·35 | 4.63 4.57 | 2·23 2·64 | 4.62 5.67 | 3·22 4·0 | 6.60 8.39 |
| Non-Pulmonary : 1946 1945 | | ·01 ·01 | ·01 ·09 | -01 -66 | ·98 ·77 | ·47 ·55 | ·55 1·23 | ·15 ·25 | ·29 ·41 | ·22 ·22 | ·28 ·51 | ·21 ·39 | ·41 ·76 |
| All Forms : 1946 1945 | | ·38 ·39 | ·95 1·28 | | 7·42 12·45 | 4·72 6·81 | 9·26 14·48 | 2·30 2·60 | 4·92 4·98 | 2·45 2·86 | 4·90 6·18 | 3 · 43 4 · 39 | 7·01 9·15 |

DEATHS AND NOTIFICATION RATES (City Cases Only): TUBERCULOSIS.

DEATHS FROM PULMONARY TUBERCULOSIS IN AGE GROUPS (City Cases only) :--

| | | | | | | European | | Coloured | | Native | | Asiatic | | TO | TAL |
|---------|---|------|-----|---------|------|----------|------|----------|------|--------|-------|---------|-------|-----|-------|
| Under 1 | | | | | | 1 | () | 3 | (3) | 10 | (7) | 2 | (3) | 16 | (13) |
| 1-2 | | | | | | | (1) | 3 | (3) | 26 | (21) | 7 | (3) | 36 | (28) |
| 3- 5 | | | | | | - | (1) | 3 | (2) | 14 | (17) | 5 | (9) | 22 | (29) |
| 6-15 | | | | | | - | () | - | (4) | 25 | (22) | 12 | (25) | 37 | (51) |
| 6-25 | | | | | | 5 | (3) | 6 | (10) | 83 | (82) | 96 | (82) | 190 | (177) |
| 26-45 | | | | | | 12 | (13) | 15 | (15) | 223 | (203) | 95 | (91) | 345 | (322) |
| 16-65 | | | | *** | | 23 | (14) | 11 | (5) | 65 | (83) | 25 | (17) | 124 | (119) |
| Over 65 | | | | | | 6 | (10) | 3 | (1) | 15 | (11) | 3 | (3) | 27 | (25) |
| | 1 | TOT/ | ALS | | | 47 | (42) | 44 | (43) | 461 | (446) | 245 | (233) | 797 | (764) |

TUBERCULOSIS:

City Health (T.B.) Clinic,-This building was designed in 1941, building operations commenced in 1943 and were completed in April, 1945.

The X-ray set was ordered from overseas in 1942. A portion of this, the power unit, arrived about the middle of 1944, and the remaining portion, the camera section, was delivered in July, 1945. By October, the set was fully installed, tested and found to be working properly. The set is designed to undertake both full-size and 35 m,m radiography, but it is intended, later on, to substitute the camera portion for a 70 m.m. film unit.

Although the X-ray set had arrived, there was delay in delivery of the dark-room equipment. This was eventually installed in February, 1946.

Most of the other equipment-medical, laboratory and furniture-has now arrived.

Staffing of the Clinic has presented considerable difficulty. In July, 1945, the City Council approved the proposal that King George V Hospital should provide the medical, radiological and radiographical staffs on a part-time basis, and that the City Health Department would administer the Clinic and provide the balance of the staff, viz. : administrative, clerical, clinical and health-visiting.

Negotiations with the Government on this point were rather protracted. In November the Secretary for Public Health indicated that the Government had certain far-reaching proposals to make regarding the control of Tuberculosis generally and requested the City Council to hold in abeyance its proposals regarding the staffing of the Clinic.

In March, 1946, as no progress had been made, further representations were mady by the City Council to the Minister of Health and Housing. As a result, meetings were convened where the future administration of the Clinic was discussed, firstly the Under-Secretary of Health in April, and subsequently with the Minister of Health and Housing in May, 1946.

At these meetings between the City Council and the Government, it was agreed to give consideration to two proposals, firstly that the Government should purchase the City Health Clinic from the City Council, and secondly that the sectional, medical and health-visiting staff of the City Health Department engaged in Tuberculosis work should be given an opportunity of transferring to the Government service as part of the clinic establishment. No finality has yet been reached in this connection.

Present Clinic Facilities .- As in previous years, the following routine Out-Patient Clinics were held in Durban for both City and Imported cases :--

Catered For Total Attendan

| Addington | European Coloured | 2,542 2,165 |
|------------------------------|----------------------|----------------|
| Hospital King Edward VIII | | |
| McCord's | Natives | |

In addition to the above, unofficial clinics have been conducted each week at King George V Hospital. These have been much appreciated by patients as well as by this Department.

In April, 1946, the Provincial Secretary requested that the Clinics at the Provincial Government Hospitals Addington and King Edward VIII be transferred to the new City Health Clinic. As the Clinic had not yet commenced to operate, this request could not be complied with.

In May, 1946, the Clinic at King Edward VIII Hospital was suddenly closed down. Fortunately, this Department was able to refer City cases to the McCord Clinic, but the closure of the King Edward VIII Clinic meant that numerous ex-City out-patients were deprived of free X-ray facilities.

In June, this Department was notified that it was intended also to close down the Addington Hospital Clinic at the end of July, 1946.

Present Hospital Facilities .-- The total number of tuberculosis hospital beds in and around Durban is much the same as previously :---

| Hospital | Cases Admitted | | T.B. Beds |
|-----------------|------------------------------------|------|-----------|
| King George V | Europeans, Coloureds, Asiatics | | 129 |
| McCord's | Natives, Asiatics | | 60 |
| | Natives, Asiatics | | 94 |
| | Asiatics | | 12 |
| | Natives, Asiatics | | 20 |
| Fosa Settlement | Asiatics | | 44 |
| | TOTAL (approx.) | | 359 |

In May, 1946, King George V Hospital acquired a number of beds at the adjacent Springfield Military Hospital, and commenced admitting Native patients to these wards. Most of these admissions were drawn from the wards at King Edward VIII Hospital.

All the beds referred to above are for both City and ex-City. Usually, a little more than half of the total number of beds are occupied by City cases.

A few City patients are also accommodated temporarily at Addington and King Edward VIII Hospitals in Durban and occasional cases are sent to Nelspoort, Springkell, Nongoma and other institutions outside Durban. The number of cases sent to hospitals outside Durban is negligible, owing to the long waiting lists for these hospitals. But apart from this fact, the large majority of cases, particularly non-Europeans, are very averse to leaving Durban and prefer to await their turns for admission to hospitals in Durban itself.

General Remarks Regarding Tuberculosis Hospital Accommodation in Durban.—For many years the number of hospital beds available for Durban cases has been hopelessly inadequate. During these years the City population has steadily increased whilst, on the other hand, the number of Tuberculosis beds remained stationary. Then came the war, and with it a further population increase due to a large influx of European and Native war workers, evacuees, etc. The resultant overcrowding coupled with the scarcity and high costs of protective foods have played a very large part in increasing the already high incidence rate of Tuberculosis particularly non-Europeans.

doimention, King Edward VIII

on and are being well attended,

ion both at Addington and Conortality moveded. This is mainly by the interiore method, whereby

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NOTIFICATIONS AND DEATHS-TUBERCULOSIS -ALL FORMS-CITY AND IMPORTED 1930-1946

(Corrected for outward transfer only)

| | | | 13 |
|-----------|--------------|----------|---|
| | Deaths | Imported | 179 331 331 346 346 2414 2322 3392 3392 3392 3392 3392 |
| RACES | De | City | 320 343 343 343 340 570 570 576 576 575 549 575 549 575 |
| ALL R | Notification | Imported | 109 1666 1666 1113 936 933 933 933 933 933 |
| | Notifi | City | 553 770 869 889 889 889 889 889 1,165 1,165 1,787 1,787 1,787 |
| | ths | Imported | r82044004 |
| TICS | Deaths | City | 81288 128 128 128 128 128 128 128 128 12 |
| ASIATICS | cation | Imported | 86837-458888 |
| | Notif | City | 160 231 263 263 277 288 288 277 288 277 288 277 288 277 288 277 288 277 288 277 288 277 288 277 288 277 288 277 288 277 287 28 |
| | Deaths | Imported | 193 351 351 351 274 316 316 321 323 333 333 330 |
| IVES | De | City | 162 149 101 187 262 255 246 255 246 255 255 255 255 255 255 255 255 255 25 |
| NATIVES | Notification | Imported | 91 130 130 13 13 13 13 13 13 13 13 13 13 13 13 13 |
| | Notif | City | 287 402 376 427 427 427 427 427 426 636 636 636 1,000 |
| | aths | Imported | 1 1 640 600 |
| REDS | Det | City | 442433825338 442433825338 |
| COLOUREDS | Notification | Imported | 0000000 <u>0</u> =80 |
| | Notif | City | 38 86 86 86 86 87 86 78 112 112 |
| 13 | Deaths | Imported | 117 117 117 117 117 117 117 117 117 117 |
| EANS | De | City | 848844888 84888 84888 8488 8488 8488 8 |
| EUROPEANS | Notification | Importec | 888222288888 |
| | Notif | City | 88 109 111 112 113 113 113 113 113 113 113 113 |
| | YEAR | | 1937 |

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4.---VENEREAL*DISEASES.

The European and Coloured V.D. Clinics (both out- and in-patients) are situated in the Special V.D. block at Addington Hospital and are staffed by the Provincial Authorities. A lady Health Visitor from the City Health Department is in charge of the preventive side of the work including the "follow-up" of contacts and defaulters.

The Non-European Clinics (out-patients) are conducted by the City Health Department at the City Fever Hospital, Congella, where, with the exception of the City Venereologist, the entire staff is non-European. These latter include three Bantu trained nurses, two Dispensers, three Orderlies, five Clerks and Cleaners and one Indian. and five Bantu Health Assistants. The Bantu Medical Officer also works full-time at the Clinic.

The non-European in-patient clinic is conducted by the Provincial Administration, King Edward VIII Hospital, Congella.

During the year special clinics have been instituted for Coloureds at Addington and are being well attended. In-patient facilities for female Europeans and Coloureds is lacking owing to shortage of nursing staff. At Congella about 80 patients of each sex are accommodated in the V.D. Wards.

Evening clinics for workers unable to attend during the day are in operation both at Addington and Congella. At certain times of the day, the Congella non-European Clinic is uncomfortably crowded. This is mainly due to the fact that all the in-patients (daily average 160) are being treated by the intensive method, whereby they receive an injection every day instead of once a week as formerly.

Patients from outside the City boundaries further congest the Clinic. They constitute about one-fourth of the total. These patients frequently by-pass other hospitals, District Surgeons, Clinics, etc., and come down to the City even when only out-patient treatment is needed. Ever-increasing numbers of patients attend the clinics.

Effects of the health educational programme are evident in the numerous patients who present themselves for examination or request a blood test because they have learnt that their sexual partners are under treatment. Another increasing class of patient is that of women have have failed to bear children or who have had a series of miscarriages and who come to ask for injections following successful results amongst their friends. Others have heard the daily routine V.D. talks given over the loud-speaker unit by the City Health Department. The treatment of V.D. has radically improved within the last few years, firstly with the introduction of the sulpha group of drugs which are a great advance on the older methods, secondly with the intensive methods of the treatment of syphilis and, thirdly, with the advent of penicillin which has proved to be a cure both for gonorrhoea and syphilis. As soon as ample, regular and cheap supplies of the drug become available, Penicillin will become the rountine method of treating gonorrhoea. Representations have been made to the Union Health Department to put it on the list of drugs supplied free to V.D. Clinics.

During the year, several requests were received from industrial firms, orphanages and schools to conduct mass blood-testing surveys of their employees or inmates. On several occasions a mobile injection team from the Clinic has been sent out under the supervision of the European V.D. Health Visitor. Many employers, commercial and domestic, send their servants for examination and certification before engaging them.

The V.D. Department continues to work in the closest co-operation with numerous outside organisations —Child Welfare, Educational, Native Affairs, etc.—besides the other City Health Departments, the South African and City Police in connection with criminal cases of rape and variously under the Children's Act, the Social Welfare Services to whom are reported cases of juvenile sexual delinquency, the various hospitals who refer patients from their wards or out-patient departments, the Prisons Department, the Local Health Commission and other health centres from and to whom patients are referred with details of diagnosis and previous treatment.

In spite of all these agencies, the "social " education of the non-European is going to be a long and arduous task before effective results are achieved. Few highly educated and civilised nations have yet made much impression on the volume of venereal disease in their countries. In South Africa with its backward population the task is still more difficult.

In the urban areas and to an increasing degree in the rural areas, sexual promiscuity seems to be almost the universal practice with hardly any inhibitions, religious or traditional. The attitude of the average Bantu patient, male or female, towards V.D. seems to be one of amusement, indignation against the offending partner is rarely expressed and fear of the consequence of infection is rarely a source of anxiety. The remedy for this state of affairs is not by any means entirely a medical or public health responsibility, economic factors, housing, recreational facilities and elementary education must all form part of the programme for controlling these diseases.

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|---------------------------------|----------------------------|---------------------------------|-----------|--------|---|----------------------|---------------|--|---|
| | | E | | Female | 3,648 (3,772) | 2,072 (1,895) | | 23,080 (24,687) | TOR ACTION CLEDIN. |
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| | V.D. STATISTISTICS-1945-46 | Addington European and Coloured | Imported | | | | 1 | 100 | |
| | e l | pu | E | Male | 502 (490) | EF | PHILE PA | 976 (1,785) | |
| second statement and the second | > | n | | N | | 1000 | | 5 | |
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| | | Congella Native and Asiatic | Imported | Male | $ \begin{array}{c} 1,758 \\ (2,138) \end{array} $ | 1,259 (811) | | 13,241 4,304 (10,462) (10,183) | |
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| | ALC: N | ati | - Carlo | le | -6 | 20 | 535 (459) | -9 | |
| | | Z | | ma | 1,971 (2,056) | 732 (759) | | 46,24 | |
| | | ella | D | Female | -9 | CONTRACT OF | | 13 | |
| | | Buc | City | - | - 0 | -0 | | | |
| | COMP | Ŭ | Distant I | Male | 5,527 (4,625) | $1,750 \\ (1,954)$ | 1 1 1 2 | 27,786 (20,222) | |
| | | | | M | 5,6 | 10 | 10000000 | 20, | |
| | a the | | - | - | | 150.00 | | | |
| | and and | 1.0 | | 121 | | Ward Admissions | - | | |
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| | 17910 | Charte | | 211 | U | Y | 12 | Outpatient Attendar | non-active to active to an |
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46 STATISTISTICS-1945 V.D.

5.-FIELD HYGIENE SECTION.

The year under review was most interesting from a pest control point of view as immediately following the cessation of hositilities many anti-pest preparations—poisons, sprays, insecticides—appeared on the market. All were carefully investigated and recorded. Researches on cockroach control were of particular interest. Since August, 1938, over 300 separate experiments, using advertised products, have been carried out in all types of foci and on all species of roaches.

Field Hygiene programmes were directed mainly against rodents, cimex, mosquitoes and roaches and were integrated with the findings of the District Health Inspection Staff.

Plague and Rodent Control.—A close watch for Plague infection was maintained throughout the year. A trained staff of Indian Field Assistants (6) sampled the entire industrial and commercial areas by means of trapping and gassing ; special attention being given where rodent carcases were found in and near harbourages. It is doubtful if a plague-infected rat will take bait, but trapped specimens were nevertheless examined for both B. Pestis and "flea" index.

During the year systematic poison-baiting of drainage schemes in built-up areas was maintained and these, together with beach-front rubbles, open spaces, Victoria Embankment, etc., were treated every three months. Hitherto such baits as bread and mealie-meal with barium carbonate or phosphorous have been used. The wheat shortage, however, enforced the use of mealie-meal, prepared as dry porridge ("putu") and Barium Carbonate. Following a visit and demonstration by the Senior Ecologist, S.A.I.M.R., it is intended to adopt pre-baiting as a rountine procedure.

It is noteworthy that rat complaints diminish in the wake of quarterly poison-baiting programmes.

The by-laws have now been amended to proivde that rodent-free certificates must be furnished before any building may be demolished.

Statistical :

| Total rodents destroyed | | | | | | | |
|--------------------------------------|-------|-------|-----|------|------|------|------------|
| Total Number of poison baits laid | | | | | | | |
| Total number of traps set | | | | | | | 18,843 |
| Total number of premises trapped for | | | | | | | 930 |
| Total number of rodents examined in | n Ial | borat | ory | | | | 961 |

* These carcases were picked up.

Although Durban is surrounded by an area which is naturally free of rodents, the possibility of colonisation or invasion of multi-mammates or water-rats (Otomys) is carefully watched. Occasional infestations are found and speedily dealt with.

Mosquitoes.—Once again the City has enjoyed a year free from any threat of malaria, despite weather conditions which were perhaps more favourable to malaria propagation than previous years.

Anti-malaria measures included "species" sanitation as the first line of defence supported by routine programmes of oiling, ditching, draining and reclamation. Many of the old mosquito-breeding foci have been permanently eliminated and the fact that no malaria vectors were detected within the boundary limits indicates a most satisfactory position.

Development of the new airport on the southern boundary of the City called for a special survey of this zone for Yellow Fever vectors and other anti-amaryl measures. To date excellent progress has been maintained in this connection but much remains to be done. The close proximity of a large non-European housing scheme to the Aerodrome favours breeding of the Yellow Fever vector—" Ardes Aegypti."

During the year the following programmes were undertaken :---

| Drains cleared | | | | | | | | | |
|-----------------------|-----------|--------|-------|------|----|------|------|------|-------------------|
| Anti-malaria oil used | | | | | | | | | 7,856 gallons |
| Larvae examined in la | boratory | | | | | | | | 3,258 |
| Land cleared of veget | ation (su | ndry : | small | plot | s) | | | | 68 acres |
| | | | | | | | | | (approx.) |

Roaches.---A wide field of research and experiment has been covered in roach control and many new methods and preparations were submitted to field tests.

Although all four species are known in Durban two are predominant, *i.e.*, the Periplannetta Americana and Blatella Germanica. The latter is a prolific breeder and favours sewers for harbourage and feeding. It must be stressed, however, that the Germanica species are not confined to sewers. They are equally attracted to any moist and warm foci, hence their ready invasion of household kitchens. Conscientious roach control by householders is necessary to supplement the sewer control programme.

Control Measures .- Insecticides used in roach control can be divided into three groups :-

- (a) Liquid sprays;
- (b) Powders; and
- (c) Baits.

Liquids.—These are designed to act as " contact " sprays and as fumigants after atomisation or volatisation. A combination of both functions is sometimes achieved.

In assessing the efficiency of many practical tests carried out with liquid sprays, the criterion of suitability for field work is the factor contact with rapid "knockdown" qualities. Roaches do not re-act to residual films left by such sprays as were tested. In view of the fact that exposure to *at least* 180 grammes of Cyanide per 1,000 cu. ft. for 4 to 5 hours is required to kill roaches, it is clear that any such atomised spray to be effective as a roachicide must, at the same time, be too dangerous to use. However, it is understood that lethal "smokes" used, according to furnigation technique, may be available in the near future.

If no "knockdown" factor is present in the spray roaches will travel great distances before dying.

Powders.-Without exception, powder preparations are useless when damp or wet. The usual powder base is a scheduled posion (Sodium Silico Fluoride) and the powder type of insecticide is thus restricted to dry foci.

Baits.—The roach is essentially a nocturnal feeder and as such ranges far afield and favours a variety of feed. Any poison bait to be effective must first of all be attractive. If intended for use in sewers, it must withstand heat radiated from manhole covers and chemical interaction with sewer gas.

Equipment.—Of the many types of pumps and applicators, those characterised by simplicity of design and operation are preferable. Foci to be treated are often inaccessible and away from electric power, thus nar-rowing the field of choice to small hand-operated equipment.

Many liquid insecticides have cresyllic or carbolic acid as a base. Pumps must be made of a material not susceptible to the corrosive action of this acid and must be of simple design with spares available for replacement.

Summary,-With respect to :

- (a) Equipment.-Hand-operated, manageable pumps of simple type assuring a good "wetting" or "contact" spray are preferable; (7) Material.—Any liquid contact spray with a rapid "knockdown" factor is suitable.

Apathy on the part of the majority of householders in conducting regular and active roach control measures can only be explained on the assumption that existing methods are too "troublesome" for general adoption. Perhaps insecticidal "smokes" used as a fumigant may supply the answer.

Departmental control measures comprise regular and systematic spraying of foci such as sewers, storm-water drains, gutter-bridges, culverts and the many Municipal-owned and occupied premises.

Science has not yet provided private enterprise with the ideal means for solving this problem of the private householder. The Department's inspectional staff is every ready to advise and demonstrate control measures.

Statistical.

| Sewer-manholes sprayed | | | | | | | | | | 70,645 |
|------------------------------|----|---------|---------|-----|-----|---|-----|-----|------|---------|
| Stormwater-manholes spraye | ed | | | | | | | | | 82,507 |
| Gutter-bridges sprayed | | | | | *** | | | | | 49,508 |
| Water-valves sprayed | | | | | | | | | | 60,126 |
| D.C. premises treated | | | | | | | | | | |
| Private properties treated | | | | *** | *** | | | | | 21,932 |
| Gallons of spray fluid | | | *** | | | | *** | | | 5,776 |
| Total number of foci treated | | *** | | | | 1 | | *** | | 284,829 |

Having regard to the fact that upwards of a score of roaches are killed by each treatment, it will be appreciated that the control programme contributes materially in keeping down these pests, but again it must be emphasised :-

That the ready and constant co-operation of householders is necessary; and
 That the ideal insecticide has not yet been evolved or, at least, become available.

Cimex (Bed Bugs) .- The control of this pest relates to :-

- Actual work carried out departmentally; and
 Supervision of work carried out by private enterprise.

With regard to (1), activities are limited strictly to Municipally-owned or occupied premises, particularly in the Indian Sub-Economic housing schemes. In these schemes it is incumbent upon all tenants, immediately they are allotted a house, to have their furniture and personal effects furnigated by cyanide. The usual practice is to place these articles in one or two rooms of the house and treat with HCN (180 grammes per 1,000 cu. ft.).

The programme also includes control work in Native quarters, etc., attached to the larger Municipal institutions, such as beer halls and police barracks.

With regard to the supervision of private enterprise, the position is that before the promulgation of the present Government Hydrogen Cyanide regulations, the fumigator was obliged to give 24 hours notice of any intended fumigation.

At present, however, departmental supervision is confined to inspection of fumigation registers and the "follow-up" of particular operations selected for investigation. Private fumigators have, as a rule, co-operated with the Department in maintaining an efficient fumigation service.

D.D.T. and Kindred Preparations.—The Department continues to follow closely all literature and infor-mation in regard to these preparations. It is possible that highly important advances in technique and efficiency may be achieved by the use of D.D.T. and Gammexane "smokes" which are now under test overseas on a large scale.

Sectional equipment has been kept up-to-date to undertake any type of work entailing the use of these preparations.

With regard to the efficacy of D.D.T. preparations, sectional experiments have proved that it is an ideal material for the control of slow-moving pests whose harbourages or habitats are restricted to a short radius of personal environment. It is particularly useful in preventing re-infestation of Native quarters and, coupled with preliminary cyanide fumigation, has proved effective in treating recognised harbourages.

This Department carried out 153 HCN fumigation treatments whilst private enterprise catered for 4,356 cyanide fumigations.

The following is a summary of the Field Hygiene Section's activities during the year :---

| | | | | | | | | | | | | | 0.20 |
|-------|-------------------------------------|---|---------------------------------|--|---|--|--|--|---|-------------------|-------------------|-------------------|-------------------|
| | | | | | | | | | | | | | 930 |
| | | | | | | | | | | | | | 355,873 |
| | | | | | | | | | | | | | 18,843 |
| | | | | | | | | | | | | | 1,709 |
| | | | | | | | | | | | | | 6,223 |
| | | | | | | | | | | | | | 326 |
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| 1c | | | | | | | | | | | | | 7,8561 |
| | | | | | | | | | | | | | 600,318 |
| | | | | | | | | | | | | | 68 |
| | | | | | | | | | | | | | 281 |
| | | | | | | | | | | | | | 894 |
| | | | | | | | | | | | | | |
| partn | nent | al L | abora | itory | | | | | | | | *** | 3,258 |
| | | | | | | | | | | | | | |
| | | 10.10 | | | | | | | | | | | |
| | I. Town | It la I | hamas | 10000 | rst. | | | | | *** | | | 153 |
| City | Hea | ILL I | Depai | une | 115 | | | | | | | | 4,356 |
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| Sewer r | nanholes sp | raye | d | | | | | | | | | | 70,645 |
|--------------------------|---------------|-------|-------|-------|-------|------|--------|-----|----------|---|------|------|------------|
| | ater manho | | | ed | | | | | | | | | 82,507 |
| | bridges spra | | | | | | | | | | | | 49,508 |
| Corpor | ation prope | rties | spra | yed | | | | | | | | | 31 |
| Govern | ment prope | rties | spra | ived | | | | | | | | | 1 |
| Private | properties s | spray | ed | | | | | | | | | | 21,932 |
| | uid : gallo | ns | | | | | | | | | | | 5,865 |
| Powder | : Ibs | | | | | | | | | | | | 20 |
| Vehicles-M | lileage : | | | | | | | | | | | | |
| Anti-m | alaria Sanit | ation | . 7 | NDC | 739 | | | | | | | | 9,470 |
| | igue : ND | | | | | 1000 | | | 1000 | | | | 5,793 |
| General | | | | | | | | | | - | | | 24,135 |
| General Ass | | | | | | | | | | | | 1000 | 21,100 |
| Visits | istants . | | | | | | | | | | | | 22,703 |
| | | | | | | | | | | | | | 20,105 |
| Compla | ints Invest | igate | d : | - | | | | | | | | | |
| CONCERNMENT OF THE OWNER | Rodents | | | | | | | | | | | | 594 |
| 1 | Mosquitoes | | | | | | | | | | | | 262 |
| | Roaches | | | | | | | | | | | | 31 |
| | Flies | | | | | | *** | | | | | | 41 |
| 10.50 | Fleas and T | icks | | | | | | | | | | | 38 |
| Premise | s corrected | : | | | | | | | | | | | |
| | Rodents | | | | | | | | | | | | 186 |
| 21,932 | Mosquitoes | | | | | | | | | | | | 274 |
| 19006 | Roaches | | | | | | | | | | | | 8 |
| | Flies | | | | | | | | | | | | 30 |
| | Fleas and T | icks | | | | | | *** | | | | | 18 |
| Native Heal | th Assistan | ts : | | | | | | | | | | | |
| There is | Visits to Co | rpor | ation | n pre | mise | 8 | | | | | | | 6,463 |
| | Visits to not | | | | | | | | | | | | 9,814 |
| .014 | Control adv | ices | giver | 1 | | | | | | | | | 1,622 |
| | Control adv | ices | com | plied | with | 1 | | | | | | | 1,026 |
| | Tubes of lai | rvae | colle | cted | for e | exam | iinati | on | | | | | 677 |
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| | TOTAL | 878 674 5355 2555 7335 7335 7335 711 1944 1944 1944 1944 3 3 | 3,188 |
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| 18 | G.W.P. DNorth | 100 100 100 100 100 100 100 100 100 100 | 468 |
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A ... FPRINAMOLOGY - WORD

6.-EPIDEMIOLOGY : FORMIDABLE EPIDEMIC DISEASE.

The previous year's epidemic, when 327 local cases of Smallpox were notified, carried over into the present but tailed off rapidly. There were 8 cases in the first quarter, none thereafter. The collapse of the outbreak was due to the prompt isolation of cases to direct contact and the rise in mass immunity due to the successful completion of a mass vaccination programme. It is intended to maintain this immunity by means of systematic health education and regular monthly vaccinations at Native hostels and compounds. The Native Administration Department assist by inspecting all Bantu males appearing for registration and vaccinating those who require it.

Vaccinations (by courtesy of the Deputy Chief Health Officer).--The following vaccinations of infants and 12-year-old children were carried out during the year :---

| Vacci | nations : Infants (1945-46) | | | | | | | | | | | Durba |
|---------|---------------------------------|------|--------|------|--------|------|------|-------|-------|------|------|------------|
| | Births in Vaccination Register | | | | | | | | | | | 3,214 |
| | Successfully vaccinated | | | | | | | | | | | 1,084 |
| | | | | | | | *** | | | | | 59 |
| | | | | | *** | | | | | | *** | 14 |
| | Previously had Smallpox | | | | | | | •••• | | | | Nil 103 |
| | Deaths of infants under 2 year | s re | gister | eu | | | | | | | | 10. |
| Vacci | nation : 12-year-olds and other | s : | | | | | | | | | | |
| | Successfully vaccinated | | | | | | | | | | | : |
| | Insusceptible to vaccination | | | | | | | | | | | - |
| | Postponed owing to illness | | | | | | | | | | | |
| Infant | × • | | | | | | | | | | | |
| man | Exemption Certificates granted | | | | | | | | | | | 2 |
| | Exemption Certificates granted | | | | | | | | | | | - |
| | Exemption Certificates refused | in | | of | Sect | tion | 100 | (2) (| of th | e Pu | blic | |
| | Health Act No. 36 of 19 | | | | | | | | | | | 10 |
| | | | | | | | | | | | | |
| India | n Immigration Vaccination : | | | | | | | | | | | |
| | Births entered in Register | | | | | | | | | | | 4,330 |
| | Successfully vaccinated | | | | | | | | | | | 271 |
| | | | | | | | | | | | | |
| | Postponed owing to illness | | | | | | | | | | | 4 |
| | Deaths under 2 years (registere | (D: | | | | •••• | | | | | •••• | 721 |
| India | ns: 12 years old and others | | | | | | | | | | | |
| | Successfully vaccinated | | | | | - | | | 5 | - | | 1 |
| | | | | | | | | | | | | 120 |
| cinatio | ons by the Medical Officer, Na | tiv | e Adı | mini | istrat | ion | Dept | artm | ent, | were | as f | ollows |
| | Number of Natives examined | | | | | | | | | | | 91,259 |
| | | | | | | | | | | | | |
| | Number of Natives vaccinated | | | | | | | | | | | 33,958 |

Typhus.—Of the 8 cases notified during the year, 3 were vermin-infested and had had contact with one another. They were recorded as being of the epidemic variety, despite mildness of symptoms.

The remaining 5 cases were distributed irregularly over the year, gave no history of contact with previous cases and gave rise to secondary cases. It is now fairly certain, although in a few cases there was no supporting serological evidence, that these cases were of murine origin. The routine control measures for epidemic Typhus were instituted in every cases.

No notifications of Plague, Asiatic Cholera, Yellow Fever and African Sleeping Sickness were received during the year.

OTHER NOTIFIABLE DISEASES.

Typhoid Fever.—The incidence has risen from that of 112 local in 1944/45 to 175 this year and was sporadic except for two localised outbreaks involving 2 and 4 cases respectively. The former was caused by drinking contaminated water and the latter through " case-contact " in a general hospital.

The majority of cases occurred as the result of unhygienic conditions in the outer areas where non-Europeans squat under conditions of serious congestion and insanitation, which aggravate as time marches on and housing lags behind. Comparing the incidence in Chesterville Location with that in its immediate environs, one realises that, given proper housing and sanitary conditions, the non-European will rarely contract the disease.

Sporadic cases occur in built-up areas abutting bushlands as a result of faecal fouling of the bush by vagrants

Typhoid Incidence per 1,000 Population :

| European | Coloured | Native | Asiatic | All Races |
|----------|----------|--------|---------|-----------|
| 0.16 | 0.72 | 1.10 | 0.37 | 0.53 |

District Incidence (Durban Borough) :

| DISTRICT | | No. of Cases | Incidence per 1,000 population |
|----------------------|---------|--------------|-----------------------------------|
| Old Borough | ··· ··· | 52 | 0·28 |
| Greenwood Park | | 12 | 0·46 |
| Sydenham | | 22 | 0·59 |
| Mayville | | 56 | 0·94 |
| Umhlatuzana | | 16 | 0·92 |
| South Coast Junction | | 17 | 0·44 |

Diphtheria.—The local incidence of this disease has dropped most substantially this year, there being a total of 295 cases as compared with last year's figure of 444. This has happened at the end of a war when local residents are being thoroughly intermingled with persons from overseas, the City population is increasing rapidly. Natives are migrating into the town in large numbers, and all dwellings, whether hotels, boarding houses, flats or private houses, are filled to capacity.

These factors favour increased incidence yet the reverse has happened. Before attributing this favourable result to the expanding immunisation programmes it must be kept in mind that Diphtheria tends to appear in waves and the present period might well be at the bottom of the incidence curve. Racial incidence of the disease during the past eight years :--

| | 1 | YEA | R | | European | Coloured | Native | Asiatic | TOTAL |
|------------|---|-----|---|------|----------|----------|--------|---------|-------|
| 1939 | | | | | 266 | 21 | 24 | 29 | 340 |
| 940 | | | | | 194 | 21 | 16 | 23 | 254 |
| 941 | | | | | 228 | 18 | 42 | 8 | 296 |
| 942 | | | | | 262 | 26 | 63 | 14 | 365 |
| 942 943 | | | | | 295 | 24 | 44 | 15 | 378 |
| 944 | | | | | 416 | 74 | 73 | 36 | 599 |
| 945 | | | | | 255 | 36 | 116 | 37 | 444 |
| 946 | | | | | 165 | 18 | 74 | 41 | 298 |

Amoebic Dysentery.—Notifications showed little difference from those for the six months ending June, 1945, indicating this to be a typical endemic disease. In view of the persistently high incidence, the "follow-up" of persons employed in handling food for public consumption was attempted as an experiment. Private practitioners or patients themselves have been offered courses of Diodequin in an attempt to clear up the "carrier" state as judged by disappearance of symptoms and of E. Histolytica in the stools.

Co-operation of European stall holders at the City Market was sought to begin with. They were interviewed, fully acquainted with modes of transmission of the disease and offered free service in regard to examination of stools and treatment. However, the experiment failed through lack of co-operation, thus serving to emphasise the environmental and health educational aspects of control.

With regard to the part played by hospitalisation in the control of Amoebiasis, the position is—according, to the weight of medical opinion—that hospitalisation plays an insignificant, if any, part in *preventing* the spread of Amoebic Dysentery because :—

- (a) The acute state of the disease (dysenteric) is not the infectious stage; and
- (b) the infectious case is not the acute case which seeks admission to hospiatl to obtain treatment, but instead is the "cyst-passer" who in the majority of cases, enjoys normal health.

If " cyst-passers " could be admitted to hospital for the purpose of undergoing some treatment which would render them " cyst-free," then only could a clear-cut preventive function be claimed for hospitalisation.

Nevertheless, many patients suffering from dysentery, whether Amoebic or Bacillary, do require hospital treatment because they are ill and weak and have no facilities for home-nursing. Therefore, it must be conceded that hospitalisation has a useful function to fulfill in any anit-amoebic programme. But there is from the medical viewpoint, the anomaly that this function in the case of Amoebic Dysentery is curative and not preventive in purpose.

According to Section 26 of the Public Health Act, which regulates the matter, the purpose of hospitalisation authorised by that section is essentially preventive.

The fact remains, however, that the Government have decided to regard hospitalisation of Amoebic Dysentery as coming within the ambit of Section 26 of the Act.

Assuming that the hospitalisation of Amoebic Dysentery is a necessary feature of a control programme, it does not follow that it is necessary to the extent shown in the returns from local hospitals. In existing circumstances, doubtless it is necessary to the extent disclosed, but it is considered that the adoption of oral, ambulant treatment would greatly reduce the numbers seeking in-patient treatment. The oral treatment in question is that which employs tablets of diodoquin alone or supplemented by tablets of emetine-bismuth-iodide. The former drug is equally useful in controlling acute bacillary dysentery.

Because of the scarcity and high cost of diodoquin, it has not yet been possible to organise out-patient clinical treatment for Amoebic Dysentery but the question of hospital costs is most materially affected by the possibility that such treatment will greatly reduce the number of acute and debilitated cases requiring hospital treatment.

Thus, clinical out-patient treatment of Amoebic Dysentery is likely to take first place in the control programme in the near future. It becomes a preventive measure in the sense that it will obviate the need for many sufferers to seek admission to hospital and, as a corollary, the need to set aside hospital space—already overcrowded—for the receiption of such cases.

It may well be that, to begin with, the cost of oral, ambulant treatment would equal, if not exceed, that of hospitalisation, but this initial stage of high cost would inevitably be succeeded by a phase of diminishing costs tending in a few years to the irreducible minimum.

From this viewpoint, a local authority would be justified in favouring expenditure on positive rather than upon doubtful measures of prevention. At the same time if a properly co-ordinated programme of prevention was being undertaken by all concerned, few local authorities would hesitate to accept the fractional liability which hospitalisation would then represent.

On the evidence of his local researches, Dr. B. F. Sampson, Consulting Pathologist, estimates that approximately 50 per cent. of local Bantu may harbour the infective " cyst " of Amoebiasis. For the other racial groups the percentages are : Indian 9 European 15. Even if hospitalisation could render a " cyst-passer " no longer infectious, systematic prevention could not be achieved by such means.

Dr. Sampson also estimates that probably less than 50 per cent. of cases notified from hospitals as Amoebaisis actually manifest symptoms of that disease, although they are "cyst-passers."

The disease is spread by passage of "cysts" from a "carrier" to another person directly or indirectly through the medium of food or water. It is a typical food-borne disease which can be prevented by measures designed to influence both the environment and personal factors concerned in its transmission. As with Tuber-culosis, however, poverty, ignorance and insanitation play important parts in the process of spread. Like

Tuberculosis, Amoebiasis may be described fairly as a "social" disease which defies control merely by isolation of sufferers in hospital and which, equally with Tuberculosis, requires the largest measure of financial support from the Government in order to ensure control and prevention.

On the subject of the free hospitalisation policy in respect of infectious diseases which has for so long obtained in Durban, attention must be drawn to the altered circumstances of to-day. Protection by immunisation against such diseases as Diphtheria, Scarlet Fever, Whooping Cough and Typhoid is now available at free public clinics. The difficulty and cost of maintain isolation hospital services have greatly increased in recent years. It is considered that the re-organised and strengthened City Health Department could sustain the additional administrative and field work which would be involved in (a) control of home-isolation for cases of a type formerly hospitalised, and (b) recovery of costs from persons liable in terms of the Public Health Act, the Master and Servants Act and the Indian Immigrants Act.

To recapitulate ----

- (1) Hospitalisation does play an important part in the control of Amoebiasis although not by way of limiting or preventing the spread of infection but by way of suitably dealing with sufferers from the dysenteric type of the disease who are ill weak and have no facilities for home-nursing or treatment.
- (2) There is need for the organisation of "out-patient" or "ambulant sick" clinics in conjunction with general hospitals and at other strategic points for the purpose of administering oral curative treatment to early or mild cases of Amoebic and Bacillary Dysentery in order that severe and debilitated cases may be prevented and the demand for hospitalisation lessened.
- (3) The acceptance by a local authority of liability for hospitalisation of its local cases of Amoebic Dysentery should be made under cover of a general programme of Amoebic Control for its own and adjacent areas concerted unde rthe aegis and with the powerful financial support of the Central Government (or the Provincial Administration acting on its behalf) whereunder all aspects of Amoebic Control will be developed and co-ordinated.

Durban Incidence :

| | European | Coloured | Native | Asiatic | TOTAL |
|------------------------------|----------|----------|--------|---------|-------|
| Six months ending June, 1945 | 429 | 27 | 828 | 34 | 1,318 |
| July, 1945, to June, 1946 | 816 | 54 | 1,583 | 88 | 2,541 |

Acute Anterior Poliomyelitis.—Following up on the epidemic of 1944/45, this disease has shown only sporadic incidence during the twelve months under review. In no instance could "case contact" be established as a cause in the spread, cases, in fact, were distributed widely apart.

| European | Coloured | Native | Asiatic | TOTAL | |
|--------------|----------|--------|---------|-------|--|
| 5 | - 1 | 2 | 6 | 14 | |

Other Infectious Diseases .- The incidence of other infectious diseases has remained consistently low.

Plague.—There were no cases or suspect cases of human or animal Plague during the year. The customary control of premises on the Maydon Wharf zone were carried out and the firms concerned were advised on all measures to be taken regarding the elimination of rat harbourages (existing and potential), rodent destruction and rodent-proofing of premises.

Generally, the firms concerned have been co-operative but some difficulties were experienced on premises other than food stores.

Mr. Davis, Chief Rodent Officer for the Union of South Africa, inspected the area in June and stated that the rodent population was not as high as he had expected. He confirmed the policy of requiring that every new building erected in the area should conform in every detail with rodent-proofing specifications and that rodent destructive measures, including poison-baiting and gassing, should be employed in yards, warehouses, drains and sewers. In older premises, reliance should be placed on regular trapping and correct stacking of goods. These measures are in line with the policy of the City Health Department and will continue to be effectively maintained.

Beneath the Maydon Wharf itself, Mr. Davis found extensive rat colonisation. In this connection Dr, F, W. P. Cluver, Deputy Chief Health Officer, Union Health Department, stated that the Union Government were giving a high priority rating to reconstruction of the Wharf such that conversion of the dock into a solid rodent-proof structure should not be long delayed.

7.-IMMUNISATION.

The work of this section has expanded considerably during the year, thanks partly to the acquisition of the Mobile Immunisation Clinic, and the issue of Immunisation Badges.

Mobile Immunisation Clinic.—A single-decker bus was converted into a Mobile Clinic which included the following facilities : A large medicine cupboard, wash-hand basin with tank and drainage, an enamelled table, a couch and seating accommodation for the staff.

A waiting room is provided in the rear compartment where parents are interviewed. The exterior of the bus is painted in cream with blue beading, and displays captions in three languages descriptive of the services rendered by the Mobile Clinic.

Apart from the health education value of the captions, the Mobile Clinic has been extremely useful in the suburbs and on school premises.

"Imadi" Badges.—Neat badges were designed by a member of the City Health Department staff with the idea of stimulating children's interest in protection against diphtheria. The badge may be worn only by those who have been completely immunised and thenceforth they become members of the IM=(Immunised); A= (Against); DI=(Diphtheria) CLUB.

Badges for Coloured, Asiatic and Bantu children are in course of preparation.

The routine programmes maintained by the Immunisation Section includes :----

(i) Collection of serum for Vi-testing from-

- (a) Dairy personnel;
 (b) employees in milk-bars, tea rooms;

(c) prospective foodhandlers who have recently suffered from Typhoid Fever.

(ii) Free immunisation of Durban residents against Diphtheria, Typhoid, Smallpox, Whooping Cough.

(iii) Personal canvassing at private homes (anti-Diphtheritic immunisation) where-

- (a) There are new-born children;
 (b) children have not appeared for second or third inoculation.

(iv) Making appointments for immunisation with-

- (a) Schools (anti-Diphtheritic).
- Locations (vaccination, anti-Diphtheritic, anti-Typhoid) ; (6) (c) dairies and other food-handling premises (Vi-testing, anti-Typhoid).
- (v) Keeping of records.

Statistical.--(a) Over the past 3 years the numbers of persons immunised against Diphtheria, are as follows :

| | | | | European | Coloured | Native | Asiatic | TOTAL |
|--|------|------|------|-------------------------|-------------------|--------------------|-------------------|--------------------------|
| July, 1943—June, July, 1944—June, July, 1945—June, | 1945 | | | 2,894 3,696 3,391 | 254 877 882 | 39 1,800 917 | 5 646 6,026 | 3,192 7,019 11,216 |

| General.—(b) | Progress | is reflected | in the | following | table : |
|--------------|----------|--------------|--------|-----------|---------|
|--------------|----------|--------------|--------|-----------|---------|

| | European | Coloured | Native | Asiatic | TOTAL |
|---|------------------------------|---------------------|--------------------------------|----------------------------|----------------------------------|
| Constant in the second | 4,244 (5,528 3,391 (2,741 | | 1,612 (78) 917 (31) | 7,954 (39) 6,026 (13) | 14,950 (6,347) 11,216 (3,037) |
| Constate | 1,025 (1,715 394 (276) | | 79 () 25 () | 53 (8) 18 (1) | 1,297 (1,819) 498 (281) |
| Constate | 146 (859) 405 (259) | 35 (46) 131 (14) | 1,002 (8,995) 3,522 (2,332) | 149 (4,188) 1,140 (857) | 1,332 (4,088) 5,198 (3,462) |
| Vi-tests | 103 (3) | - (2) | 1,755 (834) | 169 (36) | 2,027 (875) |
| Diphtheria Swabs | 275 (517) | 50 (71) | 23 (41) | 52 (41) | 400 (670) |
| Vaccinations | 1,992 () | 147 () | 13,846 () | 389 () | 16,374 (36,129 |

8.—UMGENI WATER SCHEME.

A .- Table Mountain.

B .- Durban Heights.

A.—During the year, four general inspections were made by a Medical Officer and staff of the City Health Department. The following matters received particular attention :—

Housing.—At the permanent camps the old "beehive" type of corrugated iron hut, which was badly ventilated and lighted, has been gradually replaced by the wattle and daub type with thatched roof. These look presentable and are eminently suited to the local climate.

Special huts were erected for cooking the main meals, but despite repeated warnings the Native finds it hard to discard his ingrained habit of lighting fires in the living quarters.

The "beehive" hut is still retained as temporary accommodation for gangs employed on road work or on the pipeline.

Enteric Control.—(a) Latrines: A special type of privy for non-Europeans was designed and put into operation at the camps. Although lids were provided they disappear as fast as they are fixed into position, the reason being that they offer a readily available source of firewood. It has been suggested that metal covers be used instead.

Nevertheless the hygiene overseer, Mr. Dubois, has kept a watchful eye on the latrines in general and limed them thoroughly every week and had new pits dug whenever necessary.

(b) In October, 1945, a large number (633 non-Europeans and 6 Europeans) were inoculated against Enteric Fever by the Mobile Immunisation Unit. No form of compulsion was used. All foodhandlers, *i.e.*, cooks, were inoculated.

Malarial Control.-Throughout the year pools were sprayed with anti-mosquito oil, the programme being intensified during the summer months. No outbreaks of malaria occurred.

Typhus Control.—Two disinfectors, lent by the City Health Department, were used fairly regularly for disinfestation purposes (one was loaned to the Contractors). No lice were discovered during inspections but it proved impossible to inspect every employee. Monthly disinfestation of all non-European clothing during the winter season was insisted upon. No cases of Typhus were reported.

Rodent Control.—Stores, shed and the bush were closely examined for rat harbourage. Advice has reguarly been given as to the necessity for correct stacking of goods and the practice of proper trapping and poisoning methods.

The Hygiene Overseer has kept up-to-date with his bush-clearing programme and also attended to rodent elimination in dwellings.

Non-European Nutrition.—During the early part of 1945 it was evident that the dietary scale of the non-European employees was neither balanced nor adequate. It was decided to obtain meat from Durban and deliver it to the various camps, and to plant a vegetable garden sufficient to meet all local requirements for fresh vegetables.

By October, 1945, the meat distribution scheme was in full swing, but owing to the lateness of the rains, ploughing and the planting of vegetables had only just been begun. During the next two months the local store, where Native employees were in the habit of supplementing their diet, was unable to obtain supplies of vegetables owing to a general shortage.

As a result, the City Health Department was called upon, in January, 1946, to investigage an outbreak of deficiency disease. On 11th January an inspection was carried out and between 14 and 20 cases of scruvy were detected.

Large supplies of Vitamin C tablets were forwarded to the dam and distributed to all Native labourers. The outbreak subsided by the 25th January, 48 cases in all having been reported.

Vitamin tablets were regularly issued until about the end of February by which time the garden was producing sufficient vegetables to cope with the demands of all camps at Table Mountain. Meanwhile the Resident Engineer was fully informed as to which vegetables should be cultivated in quantity and how they should be cooked in order to preserve the maximum content of Vitamin C.

First Aid Equipment.—At the tunnel camps, where men are employed on outlying hazardous jobs, it was obvious that complete first-aid outfits were essential. With the much appreciated assistance of the St. John Ambulance Division C.P.S. boxes at the City Stores Department were equipped and dispatched along with manuals to the Umgeni Dam.

At present there is one first aid box at each tunnel face (excepting where tunnel faces are in juxtaposition) and the Hygiene Overseer is responsible for ensuring that the full equipment is stocked.

Hospital Admission Rates.—These are only available for the six months ending 30th June, 1946. There is no record of the number of working days lost per patient. Nevertheless the following figures give some idea of the general state of health among the Bantu employees :—

| Admitted | e monthly number of non-European labourers | |
|----------|---|--|
| | Annual admission rate $=\frac{108 \times 100}{1036} = 10.4$ per cent. | |
| | o hospital during 6 months ending June, 1946 (ordinary illness) 74 nission number would therefore approximate 148 148×100 | |
| | Annual admission rate $=\frac{140 \times 100}{1036}=14.3$ per cent. | |

B.—Durban Heights : Two inspections were carried out during the year, the first on 7th February, 1946, and the second on 17th May, 1946.

Housing.-On the whole, housing was fairly satisfactory, but in a few instances recommendations had to be made regarding insufficient ventilation and floor space in the temporary hutments.

Latrines and Water Supply .- Were both satisfactory.

Rodent Control.—It was explained that materials in the lumber room and foodstore should be stacked so that inspection and control could easily be carried out and that doors, wall-plates and skirtings should be suitably proofed against rodents.

Hygiene Assistants.—Two non-Europeans were given an intensive two weeks course of instruction at the City Health Department in the prevention and eradication of rodents, flies, bugs, lice and mosquitoes. The Resident Engineer states that they have carried out their duties admirably and have been a distinct asset to the works.

Immunisation.-The entire staff were inoculated against Typhoid Fever by the Mobile Immunisation Unit on 17th and 28th May. During the previous year, all were vaccinated against Smallpox.

Nutrition.-The City and Water Engineer was provided with minimum ration scales for non-European labourers. No cases of malnutrition from this area have been reported.

Health Education .- Pamphlets on nutrition, infectious disease, etc., were supplied to the foremen for distribution.

First Aid Equipment.—As in the case of the Table Mountain scheme a fully equipped first aid box, complete with instructions, was issued to the Engineer in charge.

9.-HEALTH EDUCATION.

An Assistant Medical Officer of Health (Dr. H. S. Edwards) was put in charge of this section of Public Health activities which was revived and re-organised two years ago. More extensive programmes of lecturefilm demonstration were developed for Bantus and Asiatics.

"Visual" education has been a weekly feature covering the subjects of Sex Hygiene for adolescents, Personal Hygiene, Isitshimuyana, and Diphtheria in addition to the routine subjects of V.D., T.B., Infectious Diseases, Domestic Hygiene and Nutrition.

The loudspeaker unit continues to prove itself a publicity medium per excellence and so well is it now known that wherever it is stationed appreciative crowds gather and listen intently to some new aspect of the prevention of disease and the promotion of health.

The Unit has undoubtedly been responsible for improving attendances at the various clinics. In addition to its "Wayside " sessions for industrial groups, talks were given to beerhall customers and foodhandler groups both domestic and commercial.

Several radio broadcasts were given on nutrition and the care of cripples.

Films on Nutrition and Malaria have been acquired for the Film Library-village halls, parks and open spaces were utilised for demonstration purposes.

Numerous pamphlets on V.D., T.B., Flies, Fleas, Lice, Mosquitoes, Worms, Sneeze, Refuse, Nutrition and Food Hygiene were distributed.

Durban's pioneering efforts in health education are earning recognition far afield as borne out by letters of appreciation from Cape Town to Rhodesia. The field of opportunity is still far from being fully exploited. It is intended to integrate visual educational methods more closely with all sectional activities, particularly Family Health Service (Child Hygiene) as soon as suitable films are available.

DISTRICT SANITATION.

Inspectional Dispositions.—Under the Departmental re-organisation scheme approved by the City Council on 28th September, 1945, the City has been divided into eighteen health districts. Each district will be staffed by a Health Inspector assisted by a junior Health Inspector or Health Assistant. Health visiting programmes will, incidentally, be more or less, similarly organised.

Food Shops.—During the period of hositilities, the Department was obliged to modify its high pre-war standard of structural requirements in connection with food shops to meet prevailing conditions relating to shortage of materials, building control policy and temporary absence of staff on active service.

Concurrent with the return of more settled conditions in regard to labour and material factors, the Department will press forward with a programme designed to bring such premises up to the desired structural standard.

Demolition of Buildings: Anti-Rodent Measures.—In terms of a recently promulgated amendment to the City Building By-laws, no person may proceed to demolish any building unless a certificate has first been obtained from the City and Water Engineer certifying freedom from rodent infestation.

The City and Water Engineer is guided in the issue of certificates by the advice of this Department, and the close contact maintained between the two departments has already been productive of satisfactory results in preventing the dispersal of rodent population of buildings undergoing demolition.

Waste Water Disposal.--Considerable difficulty continues to be experienced in the suburban areas in the disposal of domestic waste waters.

The greater part of the outer areas is, as yet, unsewered. Although the City and Water Engineer is prepared to render every assistance by permitting discharge of domestic waste water into the Corporation's stormwater drainage system, after suitable filtration, the fact remains that stormwater drains in many localities are non-existent. Where the soil is of an impermeable character, generally in non-European occupied areas, waste water disposal is, in present circumstances, the cause of persistent sanitary nuisance due to stagnation on the property concerned or discharge into the surface drainage ditches of roads.

Sanitary Conveniences for Builders' Employees.—Investigation of fly and other sanitary nuisances in a number of instances disclosed that the source of the trouble emanated from failure of certain building contractors to make the requisite latrine accommodation for non-European employees, resulting in the extensive fouling of vacant lands.

Apart from representations to the offenders the aid of the City and Water Engineer was invoked with the object of preventing future occurrences of the kind.

Deterioration of Housing .- During the past five or six years, there has been steady deterioration of many dwelling premises in the City.

Rigid control of corrugated iron, still in extremely short supply, has enforced continuous patching of roofs which, in normal times, would have long since been renewed and a goodly percentage of roofs are literally on " their last legs." The position is well illustrated by the fact that, immediately following upon rainfall, the Department is inundated with complaints regarding leaking roofs. A vast amount of dwelling reconstruction or re-conditioning is accumulating and even after return to normal in the supply of essential building materials, some considerable time must elapse before the arrears can be overtaken.

Overcrowding of Dwellings and Illegal Use of Structures for Human Habitation.—Although complaints concerning overcrowded dwellings are being received with ever-increasing frequency, the prohibiting legislation is unenforceable in the existing chronic stage of housing shortage.

It is now common to find garages, sub-floor and sub-stair spaces being utilised for the accommodation of human beings, generally Natives, and such action as is possible is taken to secure vacation of this type of improvised housing, wherever discovered.

Food Wastage.—An analysis of 60 cubic yards of domestic refuse from a typically middle-class residential district of the City, carried out by the City and Water Engineer, revealed that it contained the following foorstuff which could be classified as suitable for human consumption :—

| Brown bread Assorted vegetables | | | | | 33 Ibs. 31 Ibs. |
|------------------------------------|------|------|------|------|--------------------|
| Cheese Mealie meal | | | | | ‡ lb. 1½ lbs. |

When it is realised that the City produces 17,000 cubic yards of refuse monthly, of which 11,000 cubic yards derive from middle class suburbs and similar localities, the extent of food wastage is obvious.

| | 1 | 1 | | | | | | |
|-----------------------------|-------------|-------------------------------------|--|------------------------|-----------------|-------------------------------------|--|--------------------|
| TOTALS | Films | 147 | 4 00 | | 22 | = | 16 8 | 192 134 |
| TO | Talks | 7,360 1,826 | 341 80 | 213 61 | 265 58 | 260 43 | 486 179 | 8,925 2,247 |
| D.S. | Talks | 74 | 21 | 11 | - | - | 11 | 109 |
| Shiman | Talks | = | - | - 1 | 4 | 4 | 11 | 21 |
| ripples | Talks | 4 | = | 9 | 3 | = | S | 146 — |
| Care Cripples Diphtheria | Films | 29 | ~ | 11 | 11 | 1 | ~ | ス |
| Vi- testing | Talks | 24 | ~ | 11 | 11 | 1 | 11 | - 56 |
| Domes. Hygiene | Talks | 8 8 | in vi | 0.0 | 94 | 4 | 4 0 | 51 |
| Worm | Talks | m | 4 | 15 | 13 | ч | ~ | 42 |
| Sex Hygiene | Talks | 4 | 11 | | ~ | - 1 | e | = |
| Personal Hygiene | Films | ~ | 11 | 11 | 11 | 14 | - 1 | 9 |
| Pers | Talks | 53 | 24 | 61 | - 1 | 9 | ~ | 2 |
| tion | Films | 22 | " | - 1 | - | - 1 | 66 | 33 |
| Nutrition | Talks | 53 4 | 81 | - 19 | 45 | 24 | 38 | 202 6 |
| trol | Films | 11 | 11 | 11 | -1 | - 1 | <u>د</u> | 12 |
| Control | Talks | 128 | 6 20 | 19 | 16 | 40 | 213 | 211 |
| dler | Films | 10 | 11 | 11 | 4 | 11 | 11 | 6 |
| Handler | Talks | 1,483 | 4- | 30 | 25 5 | 35 | 58 18 | 1,675 |
| nisa- | Films | 16 | 14 | - | 66 | ~ | -12 | ลล |
| Immunisa- tion | Talks Films | 1,539 | 69 | 33 | 35 | 85 9 | 38 88 | 396 |
| tious | Films | 28 | 14 | 1- | m 14 | ~ | 00 | 33.28 |
| Infectious Disease | Talks Films | 1,515 | 39 | 35 16 | 35 11 | 53 | 5.4 | 1,762 |
| Tuberculosis | Talks Films | 30 | 14 | 11 | | 64 | | 34.29 |
| Tuber | Talks | 1,130 | 24 6 | 0.4 | 26 5 | 21 1 | 30 63 | 1,273 |
| Venereal Disease | Films | 30.8 | 14 | 11 | -17 | ۳ | -0 | 35 |
| Venereal Disease | Talks Films | 1,345 | 38 | 19 | 28 6 | 37 6 | 78 27 | 1,545 |
| 1 | | 12: | 4/45 | :: | :: | 45 | nn /45 | 11 |
| (13 | | 944/ | k 194 | 1944/45 | /45 | 944/ | st Junction do, 1944/45 | |
| VENUE | | the the | d Par | 1944 | | ina, | do, | 1944/45 |
| N | | Borou | 00ML | nham, | ille, | latuza | th Coa Do. | ALS, |
| | | Old Borough Old Borough, 1944/45 | Greenwood Park Greenwood Park 1944/45 | Sydenham, Sydenham, | Mayville, 1944/ | Umhlatuzana Umhlatuzana, 1944/45 | South Coast Junction Do. do, 1944/4 | TOTALS, TOTALS, |

JULY-1945-1946-JUNE

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ATTENDANCES :

| | European | Coloured | Native | Asiatic | TOTAL |
|-----------------------------|--------------|--------------|-------------------|-----------------|-------------------|
| Old Densuch 1044/45 | 810 1,334 | 925 639 | 136,684 35,173 | 1,216 3,359 | 139,635 40,505 |
| Greenwood Bark 1044/45 | 58 80 | | 14,494 4,124 | 1,434 387 | 16,041 4,591 |
| Sudanham 1044/45 | = | 40 | 7,664 1,016 | 3,048 89 | 10,752 1,105 |
| Manuilla 1044/45 | | 50 20 | 26,133 2,438 | 2,540 2,295 | 28,723 4,753 |
| Imblaturana 1044/45 | 36 75 | 20 30 | 20,190 411 | 895 385 | 21,141 901 |
| muth Coast Innation 1044/45 | 60 | 180 | 20,965 7,541 | 3,354 1,976 | 24,559 9,517 |
| POTATE IGAA/AE | 964 1,489 | 1,270 689 | 226,130 50,703 | 12,487 8,491 | 240,851 61,375 |

10.—INDUSTRIAL HYGIENE.

Miscellaneous.

Factories.—Cloakroom and restroom facilities provided at factories visited throughout the year have on the whole been well maintained. Improvements in regard to cleanliness, repainting and minor repairs have been taken up with works managers concerned.

Shops.—In the central area, firms have maintained a good standard of cleanliness and comfort throughout the year. Smaller concerns also maintained a good standard. Where rebuilding or renovation programmes were contemplated, efforts have been made to keep temporary accommodation as clean as possible.

Public Conveniences .-- The maintenance of these premises has been generally good.

- (a) A survey of Native eating-houses was made in order to arrange food-handler talks to the Bantu employees. A report on conditions found was made to the Chief Health Inspector.
- (b) Part-time driving was done earlier in the year on the loud-speaker unit and several talks were given at the Cato Manor and Springfield Indian Housing schemes on flies, food handling and general cleanliness.
- (c) Some of the larger food factories have been visited and immunisation talks given to employees.
- (d) Hotels and tearooms throughout Durban have been visited and pilot talks given prior to the immunisation units arrival in connection with anti-typhoid protection of employees.
- (e) Butcheries, poultry dealers' and fishmongers' premises throughout the town have been visited to distribute foodhandler pamphlets and to arrange for a lecture-film demonstration to these non-European foodhandler groups.
- (f) Nursing homes have been visited to distribute pamphlets on Anti-Diphtheria immunisation to expectant and nursing mothers.
- (g) At several large clothing factories, food handling and general domestic hygiene talks have been given to female employees.
- (h) Bantu and Asiatic schools have been visited and Domestic Hygiene talks given. All such schools were covered during the year. A start has been made with a talk on Sex Hygiene at Bantu Schools for girls over 14 years of age. Similar talks have been given to two European student-groups and to a group of women.
- (i) Daily appointments were made for the Bantu health assistant lecturer.
- (j) General assistance was given in connection with "Diphtheria Week "—in connection with advertising window display and various other items.
- The attached figures show the number of talks and approximate number of listeners at lecture-demonstrations during the past year.

| NATIVES A | | ASIA | TICS | COLO | UREDS | FOOD H | ANDLERS | EUROPEANS | | |
|-----------------|---------------------|----------------|-------------------|------------------|------------------|----------------|----------------|----------------|----------------|--|
| Adults | Children | Adults | Children | Adults | Children | Adults | Children | Adults | Children | |
| 2 talks • 65 | 17 schools 3,533 | 8 talks 545 | 10 schools 875 | 8 talks 1,020 | 2 schools 500 | 2 talks 210 | 8 talks 264 | 3 talks 150 | 5 talks 335 | |

HEALTH TALKS.

TOTAL: 7,497 persons.

11.-CLEANSING SECTION (by courtesy of City and Water Engineer).

The following information is supplied in respect of Cleansing Services in the City for the past year :---

Cemeteries.—The Municipal Cemeteries have been properly conducted and maintained in good order. An additional 50 acres of ground has been acquired at Red Hill and 9 acres at Stellawood are also being purchased, thus ensuring the prolonged life of these cemeteries for many years. Private cemeteries have been strictly supervised and burials and cremations have generally been well conducted and the cemeteries properly maintained.

Interments.---6,798 burials took place in Municipal and 1,161 in private cemeteries. The total of 7,959 compares with 8,405 in the previous year.

Free Burials.-The free burials authorised by the Department totalled 200, consisting of 14 Europeans, 3 Mixed, 1 Asiatic and 182 Native compared with 226 in the previous year.

Cremations.--507 cremations, 340 European and 167 Asiatic were carried out compared with 489 in the previous year.

Cleansing Services.--All the Cleansing Services were carried out regularly and efficiently during the past year.

Conservancy.-The service continues to expand, and the figure of 11,597 pails at present in use shows an increase of 473 over the previous year's 11,124 pails.

Refuse Removal and Disposal.—The total amount of refuse collected and tipped shows a decrease of 1,101 cubic yards on that of the previous year, viz.: 215,458 cubic yards in 1945/46 as against 216,559 cubic yards in 1944/45. This is undoubtedly due to the gradual return to normal after the war years.

The practice of disposing of a small portion of household refuse at the Point Destructor continues, but the major part of the disposal was distributed over the three main tip sites : J. M. Harris Park, Brickfield Road and Argyle Road. Reclamation of land at these sites is proceeding satisfactorily, and it is anticipated that in the not too far distant future suitable playing fields will be available for the community in general.

The Department is still able to afford facilities for the disposal of Trade and Industrial wastes at J. M. Harris Park.

Street Cleansing.—This was continued as in previous years. Council approval has been obtained for the Department to carry out a more extensive cleansing programme and it is hoped to launch a campaign shortly embracing the provision of additional street litter receptacles, propaganda and a small amount of street washing.

Dead Animals .- During the past year 296 carcases were removed and disposed of compared with 384 in the previous year.

Barracks Management.—No change has taken place in the housing conditions in the various barracks used for the accommodation of Corporation Indians. The Council has authorised the expenditure of £40,000 for the improvement of sanitary conditions at the Magazine Barracks by installing individual sanitary and bathing facilities for each flat. It is anticipated that the work in this connection will be commenced early in the next financial year.

Acting on behalf of the Social Welfare Department of the Government, the Barracks Supervisor, assisted by certain members of his stalf, has sold large quantities of foodstuffs at very reasonable prices to the inmates of the barracks.

The library, which was requested by the Durban Indian Municipal Employees' Society was erected some time ago, but has not yet commenced to function, although arrangements are in hand for the provision of equipment and staff.

The Medical Clinic at the Magazine Barracks is functioning satisfactorily and is proving a great benefit to the inmates, especially women and children.

In so far as entertainments are concerned, the Drama Hall at the Magazine Barracks is fulfilling a very useful purpose. During the day it is being used as a school and frequent use is made of it during the evenings for concerts, etc.

Public Conveniences.-There were no new Public Conveniences erected during the past year, but those under the control of the Department were maintained in a satisfactory condition.

Meat Supplies .- The number of animals slaughtered during the year was as follows :--

| Mercola dona S.A. Annia allas asseyed a | Bovines | Swine | Sheep and Goats |
|---|-----------------|-----------------|-------------------|
| Slaughtered | 72,603 (62,796) | 52,231 (65,496) | 240,124 (258,519) |
| Whole Carcasses Condemned | 2,611 (1,835) | 3,776 (2,898) | 1,387 (1,180) |

Portion of Carcasses, Weight in lb.-This includes the viscera of the carcasses treated in terms of Government Notice No. 1455 of 1933.

| Bovines | Swine | Sheep and Goats |
|------------------|--------------|-------------------|
| 735,286 (74,107) | 11,817 (822) | 580,705 (238,589) |

Routine health supervision over butcher's shops, cold storages, markets, meat transport vehicles continues to be maintained at high level of efficiency.

12 .- MILK SUPPLIES.

Despite unsatisfactory conditions, more particularly in respect of the difficulty of obtaining certain food concentrates and the high price of food-stuffs generally, dairy stock has been kept in remarkably good condition.

Matters were made more difficult for the dairymen in that replacements and additions to herds were made only at much enhanced prices and additional animals increased feeding costs—the milk supply was maintained by tapping more distant areas in the milk-shed.

Three producer-distributor dairymen changed over to pasteurisation and two more closed down altogether. This trend away from raw milk to the pasteurised trade is noted in other large Union centres and is attributable to economic forces which favour open range dairying practice. Of the amount of milk consumed in Durban, some 19,000 gallons daily, 15,000 gallons is pasteurised, and of the remaining 4,000 gallons, 1,200 is heat-treated, leaving 2,800 gallons consumed in the raw state.

In the near future, the milk produced at five other dairies, amounting to approximately 1,000 gallons daily will also be pasteursied thus leaving 1,800 gallons unprocessed.

Fly Development.—At dairies has been less prevalent than in previous years, thanks to proper disposal of manure, attention to breeding places and the use of residual D.D.T. insecticide.

MILK EXAMINATIONS.

Sediment Disc Test.—1,960 supplies of milk received at the various depots from rural producers have been tested by this method. Much improvement in cleanliness is manifest since the inauguration of this test as judged by the amount of visible dirt in the prepared discs. While previously only some 50 per cent, could be classed as clean, to-day the proportion is over 80 per cent.

Personal supervision has a great bearing on the factor of cleanliness. Unless milk production is efficiently supervised at all times, the best results cannot be obtained.

Phosphates Test.—259 samples of milk were subjected to this test, which ascertains whether the pasteuring process was efficient. In 14 instances, the milk was found to be insufficiently treated, and the causes were investigated and remedied. Unfortunately, owing to the non-arrival of essential testing materials which had long been on order from America, this work had to be abandoned for about 3 months.

Bacterial Examinations.—Of 280 bacterial tests made during the year by means of the plate count, 27 per cent were satisfactory in respect of both total organisms and coliform counts. 42 per cent. did not comply with either standard, but in these the bacterial content was fairly low in the great majority of cases. Of the remaining 31 per cent. the larger number of about 26 per cent. failed in respect of the coliform count. Upon investigation, the cause was found to be due largely to insufficiently cleansed milk utensils.

The condition of any milk utensil that has not been properly cleansed and sterilized can be readily detected by means of the Carbol-Fuchsim Stain test.

Breed-count or Direct Microscopic Count.—597 milk smears have been examined by this method, which is most useful and can be readily carried out. Bacteria counts, to be a reliable guide to the cleanliness and keeping quality of milk, should be frequently and regularly made. The plate count for this purpose is somewhat cumbersome and expensive, and further, owing to the time-factor involved (48 hours) the requisite information is belated. Nor does this test identify the types of bacteria which may be present, whether thermaduric or pathogenic.

For this purpose the Breed-count is eminently satisfactory and can be applied daily with ready results. It is valuable for tracing troubles in the production line of the plant, from production through the various stages to distribution.

The lack of supervision among dairymen is not uncommon as is shown by the results of milk analysis which are uniformly good when the element of personal supervision is in evidence and the reverse when it is lacking.

When supervision is left to employees, satisfactory results cannot be expected.

Grading.—All incoming "producer" supplies were regularly submitted to the Sediment Disc Test, which affords a good guide as to the methods practised at the various sources of production. Dirty discs are evidence of faulty handling of milk, leading to the production of an inferior or low grade product, unfit in some instances for processing and pasteurising.

It is considered that such a state of affairs could be remedied by grading all supplies and fixing prices in accordance with quality grades.

The Disc Test could be used as a " pilot " test to be supplemented by the Breed-count and the Acidity test. There is at present no price incentive for a low-grade producer to improve his supplies.

VETERINARY.

Tuberculosis.—The position regarding this disease can be considered satisfactory. All 93 samples of milk taken from various producer-distributor dairies and subjected to the Biological Test during the year have produced negative results. A similar position has obtained for the past three years.

Milk from producer-distributor dairies is subjected to this test twice yearly. Further, no animal has been removed from any of the dairies on account of exhibiting clinical symptoms of the disease. No doubt, this disease exists but could only be made apparent by the application of a Tuberculin test. In the case of reactors, lesions would be of a localised and limited character.

Mastitis.—As far as advanced clinical cases are concerned this condition has been much less frequent as owners have found that treatment is uneconomical unless taken in hand at the earliest stages of the disease. If treatment is delayed, structural alteration takes place in the udder, with destruction of the milk-secreting membrane. The damaged mammary tissue is replaced by fibrous material resulting in part or whole destruction of one or more quarters of the udder. It is found that the causal organism is much more common than was supposed. It is confined to a diseased udder, but is present in many samples of milk obtained from apparently healthy quarters giving apparently normal milk. In the majority of cows, the presence of the mastitis organism in the udder would not cause any disturbance during the lifetime of the animal, but on the other hand it might become active and flare up to cause a mastitis at any time, this being dependent upon the power of resistance to disease possessed by the animal. It is considered that prophylactic or preventive measures are of more importance than curative.

13.—OTHER FOODSTUFFS.

Ice Cream Distribution.—The use of unsatisfactory galvanised trays by ice cream manufacturers and vendors in the distribution of ice cream is now being eliminated in favour of trays made of stainless steel. It is hoped that, before the end of the year, the use of galvanised trays will be completely abolished. Stainless steel is still in short supply. All firms concerned have placed their orders for stainless steel trays.

Vi-testing.—All employees engaged in the handling and distribution of producer-distributor supplies of milk and also of ice cream re Vi-tested as a routine procedure for the detection of the Enteric Carrier state and immunised against Enteric Fever.

FOOD HYGIENE SECTION.

Condemnations City Market :

| Beans, green | | 597 | pockets | Cauliflowers | | | 1 crate, 11 lots |
|---------------|------|---------|---------|--------------|---------|---------|--------------------|
| Beans, green | | 5 | bags | Carrots | | | 3 bags, 2 pockets |
| Brains, Sheep | | | | Cucumbers | | *** | 75 pockets, 3 bags |
| Cabbages | | 1 | bag | Chillies | *** | | 15 pockets |

| Ducks, dressed | | | | 52 | Cafe-au-lait | | | 3 | 2 tins |
|---|--------|-------|------|-------------------|---|------|-----|----------|-------------------|
| Eggs | | | | 86 dozen | Ducks, dress | ed | | | |
| Fruit, dried | | | | 23 cases | Duck, Bomb | | | | bale |
| ., crystalised | | | | 1 carton | Dates | | | | 2 cases |
| Fowls, dressed | | | | 814 | Fish, pickled | | | |) caks |
| W2 | | | | 8 | Fowls, dresse | | | . 330 | |
| Wanter Dave | | | | 51 | With the state of | | | | cases 3 packets |
| Clifford | | | | 15 lots | Gravy Powde | | | | carton |
| Channe dillor | | | | 4 trays | Groceries | | | | 2 cartons |
| Hame | | | | 4 | Golden Syru | | | | bottles |
| TImmeric | | | | 2 boxes | Hams, cooke | | | | 1 lbs. |
| Marchanter | | | | 1 box, 1 lot | Incumba infa | | | | |
| O. in . | | | | 1 bag | Jellies | | | | cases |
| TD: | | | | 13 | | *** | | | s packets, 1 ctn. |
| These states | | | | 1404 bags | Liver Polony | | | | Ibs. |
| The decidence of the second | *** | | | | Mortella | | *** | | l lbs. |
| | *** | | ••• | 1 bag | Maltabella | | | | cartons |
| a court for court of the court | | ••• | | 40 bags | Mealie Meal | | *** | | lbs. |
| | | | | 261 pockets | | | | _ | tin |
| | | | | 48 lbs. | Milk, Horlick | | | 720 |) bottles |
| | | | | 6 | Meal, unsifte | d | | .] | pocket |
| | | | | 63 | Muscatels | | | . 8 | s packets |
| | | | | 1 tray | Maize | | | .] | bag |
| | | | | 2,176 lbs. | Milk, conden | ised | | . 12 | tins . |
| Venison, carcases | | *** | *** | 25 | Oatmeal | | | . 1 | packet |
| Condemnations-N | in the | - 11 | Inch | Market | Potatões | | | . 3 | bags |
| | aur | NO IN | | | Onions, pickl | led | | . 8 | bottles |
| Beef | | | | 500 lbs. | Piccallili | | | . 1 | bottle |
| | | | - | | Pilchards | | | . 24 | tins |
| Foodstuffs Surrend | erec | 1 for | Exa | amination and | Pickles, mixed | d | | . 19 | bottles |
| Condemned : | | | | | Purce, Tomat | | | . 20 |) tins |
| Apricot Jam | | | | 1 tin | Raisins | | | . 3 | cases |
| Apricots, canned . | | | | 1 tin | Silver Side | | | . 24 | + lbs. |
| Brono Gravy Powe | | | | | Sweets | | | . 30 | lbs. |
| and the second se | | | | | Sweets | | | . 4 | cases |
| Biscuits | | | | 2 tins | Sweets | | | | packets |
| | | | | | Soup, hydrate | | | | tin |
| Decession and and | | | | | Condinas | | | | tins |
| C1 | | | | | C | | | 20 | tins |
| 0-0- | | | | | 0 | | | · · | pockets |
| Channe | | | | | | | | | bag, 1 box |
| Courses diamond | | | | | | | | | lbs. |
| Contrast Develop | | | | | | | | | cases |
| Charalter | | | | 8 ctns., 12 boxes | | | | | tin |
| Complement | | | | | III and him | | | | packets |
| Cornnour | •• | | | 1 case | moctory | ••• | | | packets |

Outbreak of Food-poisoning Among Natives.-Between 9th and 16th May, some 120 Natives were admitted to Durban hospitals suffering from acute gastro-enteritis of a type usually associated with food-poisoning.

The symptoms, although acute at the outset, rapidly subsided and patients were discharged after two or three days' residence in hospital. There were no after-effects.

There were only a few female cases, the vast majority being adult males housed in compounds and receiving a cash allowance in lieu of rations.

The cause of the outbreak was obviously an irritant ingested in food or drink a short time before the onset of symptoms.

Both ordinary and substitute foodstuffs of the cereal type favoured by Natives were subjected to both chemical and pathological examination with negative results for metallic, mineral, alkaloidal or ptomaine poisons except for a suspicious result in the biological tests on an extract of malted millet seed. Field data appeared to strengthen the suspicion to a point justifying the seizure and detention of all stocks of malted millet.

Later investigations, however, weakened the malted millet theory of causation and pointed strongly to contamination of a brew or series of brews of "Isitshimiyane" prepared in the Greenwood Park district and consumed mainly in that district and in the Sydney Road area. It is known that dangerously toxic substances such as Carbide Wood Spirit, etc., are sometimes added to "Isitshimiyane" in order to add "potency."

The probability, however, is great that it is probable that the use of this " brew " was abandoned as soon as its toxic effects became manifest.

In February last, a somewhat similar outbreak occurred in a section of the Witwatersrand caused by municipal beer brewed from malted mabela. The mabela in question was found to be contaminated with an organism which possibly could have caused the symptoms. No connection could be traced between this particular consignment of mabela and stocks of this cereal held in Durban.

It is on record that in nearly 50 per cent. of food-poisoning outbreaks, the causative factor defies positive identification.

Control measures included the detention, storage and testing of millet stocks.

Destruction will be resorted to only if evidence of toxic contamination emerges on test.

The assistance of the Government Mycologist (Dr. Wager) in connection with the search for toxic weeds or fungi among cereal samples is gratefully acknowledged.

In the course of the investigation, appreciable quantities of lead were found in the discharges of certain "control" patients not suffering from gastro-enteritis. Although a small variable quantity of lead is a normal constituent of the human tissues, the quantities found raised the suspicion that some degree of lead absorption was associated with the use of lead-lined petrol tins commonly used by Natives as food and drink containers. At least one recent case of death from lead poisoning was attributed to this cause.

Immediate steps were taken to reiterate a warning to Natives by means of the "loud-speaker" van and radio, against the use of such containers as food utensils.

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The outbreak appeared to have burnt itself out by Thursday, 16th May, and although it is believed that a number of cases did not seek admission to hospital, there were no known fatalities.

Field investigations to identify the ultimate cause are still proceeding, but with no positive result so far.

Twenty-three special chemical analyses of cereals, discharges, etc., some being very complicated, were undertaken by the City Analysts (Messrs. Harding-Kloot and Martin). The toxic agent has not, however, bee positively identified.

SAMPLES OF FOODSTUFFS TAKEN (Food and Drugs Act 13 of 1929) :

| and the family which he are | Number Taken | Number Genuine | Number Defective | ACTION TAKEN |
|-----------------------------|--|--|--|---|
| Ice Cream | 19 | 15 | 4 | 2 cases warned, 1 repeat sample taken, 1 fined £3. |
| Strawberry Jam | 1 | 1 | - | _ |
| Sausages | 19 | 17 | 2 | 2 Prosecuted, fined £5 each. |
| Farm Butter | 9 | 9 | | |
| Sausage Preservative | 1 | _ | 1000 | Unofficial. |
| Tomato Sauce | 1 | 1 | The second s | - Chomesan |
| Sandwich Paste | 1 | | | The second se |
| | Sector Street | Contraction of the local division of the loc | And the Party of States of States | Unofficial. |
| Sardines | 1 | - | - | |
| Pea Flour | 3 | 2 | strain card on | Referred to Union Health, incorrectly labelled. |
| Coffee Mixture | 4 | 4 | 100 C | CONTRACTOR AND A REAL PROPERTY AND AND A REAL PROPERTY. |
| Mealie Meal | 1 | 1 | | |
| Curry Powder | ż | 2 | | the black to contain the same off |
| Mustard | ĩ | ĩ | | |
| Potato and Butter | and the second sec | The second second | and the same | Unofficial. |

OUTBREAK OF (FOOD-POISONING) GASTRO-ENTERITIS : 10/5/46.

Samples taken :

| Isitshimyane | | | | | | | | 1 |
|--------------|-------|---|------|---------|-----|---------|------|----|
| Urine | | | | | | | | 14 |
| Native Beer | | | | *** | | | | 5 |
| Bird Seed Mi | xture | 8 | | | *** | *** | | 3 |

WATER UPPLY.

Chemical and Bacteriological Analysis :

- (a) Bacteriological.-The usual high standard was maintained throughout the year. Regular weekly bacteriological examinations are made at the Government Laboratory involving 208 samples.
- (b) Chemical (results expressed in parts of 100,000) :

| Colour-Good. Sedin | ent | | | | | nil. |
|-----------------------|-----|------|------|---------|-----|-----------|
| Turbidity-nil. Re-act | | | | | | |
| Total Solids | | | | | | 11.40 |
| Loss on Ignition | | | | | | 1.84 |
| Choline | | | | | | 2.84 |
| Nitrites and Nitrates | | | | | | nil. |
| Saline Ammonia | | | | | | |
| Albuminoid Ammonia | | | | | | |
| Total Hardness | | | | | | |
| Permanent Hardness | | | | | | 1.43 |
| Iron | | | | | | |
| Poisonous Metals | | | | *** | *** | nil. |

52 Samples were submitted to the City Analyst for chemical exmination during the year and the usual high standard was maintained.

14 .- FAMILY HEALTH SERVICES.

The figures in the statistical report show that much work passes through the Family Health (Child Hygiene) Section of the City Health Department. They show, *inter alia*, that the infantile death-rate, which is taken as an index of infant morbidity, continues to be low.

The real proof of the value of Child Health activities is to be found, not in the number of clinics scattered over the City, or in the numbers of children attending such clinics, but in the condition of health of children at the school-entrance age.

Last year in the provinces of Natal, Cape and the Transvaal almost half the number of European school children examined showed evidence of one or other of the following : Malnutrition, defects of teeth, ear, nose and throat, eyes and vision, skin, heart and spleen, anaemia, bilharzia, verminous conditions and defective intelligence.

This number does not include those suffering from one decayed tooth or minor postural defects, all of which are minor manifestations of malnutrition. It does not include children in orthopaedic and other hospitals suffering from the sequels of Tuberculosis and other constitutional diseases, nor does it take into account the number of children who have died in the period from birth to school age, *i.e.*, from 4 to 6 per cent. It is simply a record of the condition of health of the surviving children who are in a condition to attend school. The defects enumerated are all preventable.

This means that in the pre-school age-group, although practically every baby is born healthy, the care they receive is such that about 5 out of every 100 babies born have died and about 50 of every 100 remaining children are physically or mentally defective in some degree.
Thus, unless further measures are taken to secure a basic foundation of health timeously, the country must expect to multiply the number of curative institutions to deal with preventable diseases.

There is a pressing need for amalgamating all activities which deal with the health of children and to revise training of health visitors.

The first essential in securing an efficient service and adequate staff training is to have all activities administered by one authority or, alternatively, to have all activities co-ordinated through one institution such as an Institute of Child Health.

In the present state of national health service, it would seem that hospitals must play so important a role that they should be used as the basis for developing better health services.

A service which has as its basic idea the establishment of the positive condition of health must be one which cares for the health of children through all the periods of growth from conception to adolescence.

The present system of child care was started " in the middle " with school inspection. Much ill-health was noted in schools. As the causes could be traced back to the care of the baby, services were started to deal with infant care. Wherever such activities have been organised, they have lowered the local infant mortality rate. The health of school entrants has, however, shown little improvement because the child at its most important period of growth—from 2 to 7 years—is virtually " neglected " from a health point of view.

This constitutes a missing link in the present chain of child health activities.

Another is the fact that midwifery has been carried out as a separate activity, not as part of a co-ordinated scheme of health service. A third concerns the training of health visitors.

The present system of child care includes :---

- (a) Care for the Expectant Mother.—Expectant mothers go to hospitals to be medically examined and to a Child Health Clinic to receive instruction in the hygiene of pregnancy and the art of preparing for the proper care of the coming baby. The important subject of physical culture for expectant mothers is largely neglected by both institutions.
- (b) Care of the Mother at the Time of Confinement.—In hospitals and nursing homes, care is given to the mothers but, during their tendays stay in hospital, they receive little or no instruction in the handling of their babies. The unsatisfactory results of this omission are seen daily at Child Health Clinics.
- (c) Care of the Baby and Toddlers.—Child Health clinics are supposed to care for children from birth to school age. Actually they do excellent work with babies and toddlers up to about eighteen months in which branch the staff has usually been efficiently trained.
- (d) Care of the Pre-school Child.—No special provision is made for the child at this stage of growth. Nursery schools are not officially recognised as being a necessary part of a child health scheme. Lack of care at this most important period of growth destroys the value of the whole system.
- (e) Care of the School Child.—School clinics are largely concerned with patching up defects which would not have occurred had there been an efficient service dealing with the pre-school child.

Training of the Clinic Staff.—Health visitors are the backbone of a Child Health Service. Therefore, their training for this work must be one which makes them competent health instructors.

It is recognised that ill-health is largely the outcome of inadequate health knowledge. But the training of health instructors at present is concentrated on ill-health rather than as it should be upon conceptions of positive health.

Present Training of Health Visitors.—Many health visitors hold four certificates, *i.e.*, general nursing, midwifery, mothercraft and public health. It takes about six years to get these qualifications, at the end of which they fall short of being ideal health instructors by reason of the following defects in their training :—

 General Training.—In this four years' course, pupils are instructed in anatomy and physiology and in the diseases which affect the human body and how to nurse them. They become efficient nurses, but they have yet learned little about the condition of positive health. They have nursed people through acute illnesses, but not through the period of convalescence.

Pupil nurses are instructed in invalid cooking, but neither school girls nor nurses are trained in general dietetics, in household management, in wise spending, in physical culture, in mothercraft or in social welfare.

There is little in this four year's course of training which enables nurses to be instructors in positive *health*.

 Midwifery.—A six months' course for a general trained nurse. Pupil midwives learn the physiology of pregnancy, how to conduct a normal confinement and to detect abnormalities of pregnancy. They learn enough about infant feeding to carry a mother through the first ten days after her confinement.

While such midwives are able to conduct a maternity case successfully, they have little knowledge of the important household details in which mothers—especially those of first babies —require instruction, such as preparation of clothes, cots, baths, etc. They would not be able to instruct an expectant mother to deal with the different emergencies connected with the feeding of a baby.

Many midwives pass through their training without—(a) Having handled a case of abortion or of puerperal sepsis as these cases are nursed in general wards; or (b) seeing an ante-natal case of venereal disease, Ophthalmia Neonatorum and Pemphigus Neonatorum, because these cases are treated in another department.

They appear to be taught very little about the feeding and care of premature babies, or of babies up to 18 months of age.

Midwives are therefore not equipped to function as health instructors.

 Mothercraft.—In this four months' course, pupils are taught about the physical health of the child from conception. Mothercraft-trained nurses can teach the hygiene and care of pregnancy and the feeding and care of babies up to eighteen months, including that of the premature baby.

Mothercraft-trained nurses are equipped for health instruction, but only for one growth period.

4. Public Health .-- (The Health Visitors' and School Nurses' Certificate).-- In this twelve months' part-time course, students receive a smattering of knowledge of general hygiene and sanitation.

As students, they visit various clinics, e.g., Child Health, Tuberculosis, Venereal Disease, School Medical, etc. The course is mainly theoretical—no practical knowledge of the subject is imparted. There is but little instruction in social welfare.

The course is a useful one. It enables nurses to assist doctors in clinical work, but does not teach the nurse to be a health instructor.

Wherein the Knowledge of Health Visitors is Still Defective.—Health visitors, who have had nearly six years of study, are equipped to help in any medical clinic in carrying out the directions given by the doctor. Where no doctor is in charge, they are competent to advise in the feeding and care of infants and toddlers up to eighteen months.

More than that, however, is required by the modern health visitor. Health visitors should be able to give detailed instruction to mothers on all matters concerning the physical and mental health of the child at clinics and in the homes.

Despite her six years' training, a health visitor is not equipped to help mothers with household care management, with wise buying for a family or with general dietetics and cookery. Similarly with child guidance and physical culture.

Such defects in training are crucial in their effects in practice. As a result mothers are searching round for assistance which is not forthcoming. In desperation they buy abstruse books on psychology and "try it out" on their children-with results which are often disastrous.

The Remedy.—There must be some remedy other than adding domestic science, child psychology and physical culture on to a course which already lasts six years.

It is suggested that a comprehensive and efficient Child Health Service, including the training of efficient health visitors could be organised in conjunction with the following services and institutions :---

 A Maternity Service.—This service would have as its pivot a Maternity Hospital with general maternity wards, wards for treating venereal disease cases during pregnancy and at confinement —including treatment for Ophthalmia Neonatorum, wards for ante-natal treatment such as toxaemias of pregnancy, abortion, etc., wards for puerperal sepsis and other infections.

Connected with the hospital would be :---

An Ante-natal Clinic dealing with the health of the expectant mother and her instruction in mothercraft.

A Post-natal Clinic where all cases would be examined at certain intervals after confinement.

A Family Spacing Clinic so necessary for the rearing of healthy families.

- A Physical Culture Clinic for expectant and nursing mothers.
- A District Service.
- 2. A Service for Infants and Toddlers up to 18 Months.-This service would have as its pivot a Mothercraft Institution having dietetic wards for babies up to eighteen months.

Connected with this institution would be a series of Infant Clinics for babies up to eighteen months.

From these clinics home visiting would be carried out for the purpose of following-up all patients from the Maternity Hospital or Mothercraft Home and for giving home instruction in infant feeding and care and in general hygiene.

The staff of this section would be responsible for the running of all homes catering for children up to 18 months, such as Day Nurseries, etc.

 A Children's Service.—This service would have as its pivot a Children's Hospital, having wards for all diseases peculiar to childhood. The hospital would have an out-patient department for treating minor ailments and for diagnosing the more serious diseases.

Connected with this hospital would be a clinic for pre-school children, where a check-up on the health of pre-school children would be conducted at stated intervals and a Clinic for school children for checking up in the same way—the ailments so found could be treated in the out-patient department.

There would be Nursery Schools connected with this service. There would also be a Posture Clinic with physical culture suitable for all ages and a Psychological or Child Guidance Clinic.

From these clinics and hospitals, home visiting of pre-school children not attending nursery schools would be carried out and through amalgamation with the Hospital Almoners' Service, all cases leaving hospital would be followed-up in their homes and attended to till well.

At both the Mothercraft Institution and the Children's Hospital, immunisation would be carried out as a routine.

The staff of this section would be responsible for the running of all institutions, hostels, etc., taking in children over 18 months of age.

 A Dental Service.—This service would have as its pivot a Dental Clinic for attention to mothers and children and from which dental hygiene would be taught to health visitors.

Nurses trained in such a series of services would make valuable health instructors, especially if the entrance qualifications was made the matriculation certificate taken in domestic science.

All pupil midwives would have instruction in mothercraft while working in the dietetic wards and would also be able to have experience of infant clinics and the home visiting of babies up to 18 months.

While in the Children's Hospital student nurses would receive training in Child Health and Psychology and by attending the various clinics attached to the hospital would be able to see and work in a complete health service for children as well as learning to nurse children, not only through an illness, but right back to health.

They would receive instruction in Social Welfare through the Social Service connected with the hospital through an Almoner's office. With a service such as this, it would be possible to keep all children's homes under supervision or preferably to control all institutions in which children are housed.

Conclusions.—An efficient Child Health Service could be carried on by amalgamating Child Health activities through a Child Health Institute staffed by experts from which the following services would work in conjunction :—

- (a) A Materinity service.
- (b) A Mothercraft service dealing with the dietetic difficulties in babies up to 18 months.
- (c) A Children's service dealing with the health of toddlers, pre-school children and school children.
 (d) A Dental service for mothers and children.
- The party second consideration of the states of the states of the states

All health visitors should be trained in every branch of the above services and would have to take as their entrance examination the matriculation certificate in domestic science.

All pupils training in midwifery should receive training in mothercraft as part of their midwifery training ; and a training for general and fever nursing should be carrried out as at present in hospitals for adults.

The training of doctors in this connection also needs revision.

The provision of health centres providing :--

- (a) All clinical services ;
- (b) Several materinity and children's beds;
- (c) Residential quarters for nursing staff;

would supply most of the necessary facilities for staff training as well as efficient Family Health Service facilities.

The following schedules reflect the activities of the Child Hygiene Section :--

| | EURO | PEAN C | LINICS | NON | -EURO | PEAN CI | INICS | |
|--------------------------------------|-------------|--|-----------------|-----------------------|--------|--|----------------|--------|
| | Gale | | | | | Brook | Grand | |
| | Succi | Cunics | | Coloured | Native | Asiatic | Total | Total |
| Total Number of Sessions | 284 | 533 | 817 | 114 | 192 | 535 | 841 | 1,658 |
| Fotal sessions for children | 247 | 533 | 780 | 102 | 192 | 440 | 734 | 1,514 |
| No. of ante-natal sessions | * 25 | | 25 | 12 | - | 95 | 107 | 312 |
| No. of post-natal sessions | 12 | | 12 | - | | and the second second | | 12 |
| Total Attendance at Clinics | 11,969* | 28,280 | 40,249 | 5,595 | 13,369 | 25,558 | 44,522 | 84,771 |
| New cases out of above number | 2,120 | 1,998 | 4,118 | 525 | 2,772 | 5,001 | 8,298 | 12,410 |
| No. of infants under 1 yr. attending | | | 1000 | | | | | 1 |
| clinic | 428 | 1,211 | 1,639 | 327 | 1,514 | 1,264 | 3,105 | 4,744 |
| Total attendance of infants | 5,496 | 11,160 | 16,656 | 1,856 | 5,719 | 7,453 | 15,028 | 31,684 |
| No. of toddlers and pre-school | 1000 | ALC: NOT THE OWNER OF THE OWNER OWNER OF THE OWNER | and the second | and the second second | | 10.000 | 1000 | |
| children attending clinic | 447 | 1,268 | 1,715 | 308 | 343 | 975 | 1,626 | 3,34 |
| fotal attendance of toddlers and | 1000 | 0.00 | | and the second | | A MACROSOFTIC | 100 3000 | |
| pre-school children | 3,478 | 10,375 | 13,853 | 2,375 | 1,993 | 8,223 | 12,592 | 26,444 |
| No. of nursing mothers attending | | 1. | | | | and the second | and the second | |
| clinic | 326 | 866 | 1,192 | 257 | 1,208 | 1,508 | 2,973 | 4,163 |
| Fotal attendance of nursing mothers | 2,681 | 6,741 | 9,422 | 1,316 | 5,657 | 6,591 | 13,564 | 22,986 |
| No. of expectant mothers attending | 10000000 | - 1 - 201 1 S. () | The subset | | | | 100 100 | |
| clinic | 102 | | 102 | 29 | | 2,847 | 2,876 | 2,978 |
| Total attendance of expectant | | | 1502 | | | 1 MORESCH | P. S. and | |
| mothers | 181 | - | 181 | 53 | | 3,291 | 3,344 | 3,525 |
| No. of post-natal cases attending | Sector 2010 | The Property of | a second second | Constant of | | 10101 | | |
| clinic | 58 | - | 58 | | - | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | 101 - T | 58 |
| Fotal attendance of post-natal cases | 100 | | 100 | - | - | - | - | 100 |
| No. of test feeds given | 242 | 394 | 636 | 58 | 36 | 79 | 173 | 809 |
| No. of mothers instructed in treat- | 1 2/35 | 1933 | 1003 | 1123.903 | | 100000 | 1000 | 2.2 |
| ment of minor ailments | 575 | 1,339 | 1,914 | 425 | 1,985 | 4,835 | 7,245 | 9,159 |
| No. of health talks and demonstra- | | | 1.032 | 1000 | | | | |
| tions given | 922 | 3,645 | 4,567 | 667 | 1,099 | 1,558 | 3,324 | 7,891 |

* Of this figure 804 were children attended to at Nursery Schools and Homes for Protected Infants.

IMMUNIZATION.

| | | EUROPEANS | | | |
|--|----------|------------|------------|--------|------------|
| | | Infants | Children | Adults | Total |
| No. of cases immunized against Diphtheria Of these the following completed the course | | 15 6 | 84 39 | 1 | 100 46 |
| Of these the following completed the second | 1000 | I | 74 32 | 130 | 74 32 |
| No. of cases who received combined Diphtheria and Cough Immunization | | 206 150 | 281 217 | 1 | 488 368 |
| No. of cases immunized against Typhoid | | 2 | 5 | 3 | 10 |
| No. of cases vaccinated against Smallpox | | 554 | 58 | 15 | 627 |

NUMBER OF CASES.

| | | | European | Coloured | Native | Asiatic |
|--|------|------|----------|--|----------------|--------------|
| to Doctors " Hospital " District Nurses " Societies or Day Nursery | | | | $\begin{array}{r} 4\\ 41\\ \hline 13\\ 7\end{array}$ | 334 13 7 | 1 549 |

ORTHOPAEDIC CASES.

(From July, 1945, to May, 1946.)

| First Vis | its | | | | | | European 142 |
|---------------------|-----|------|------|------|------|------|-----------------|
| Revisits Clinics | | | | | | | 803 159 |

EXAMINATION OF ENTRANTS TO SERVICE.

79 Female entrants to the Municipal Service were medically examined.

FOOD DISTRIBUTED.

| | Gale Street and Mobile Clinics | | et and Bro res and M Clinics | |
|---|---------------------------------------|--|------------------------------------|-------------------------------|
| | Europeans | Coloured | Native | Asiatic |
| Number of cases receiving dried milk free | 34 670 6 156 37 11,298 | 56 1,532 6 131 14 2,984 | 20 337 — — | 43 1,636 33 885 — |

Notifications :

| 100 | | | - | | - | |
|-----|-----|---|---|------|----|--|
| B | T i | æ | | 1 | | |
| | | | | | ., | |

| AND TELE LET'S MALL AN | European | Coloured | Native | Asiatic | Total |
|------------------------|----------|----------|--------|---------|--------|
| DURBAN | 1,610 | 202 | 1,248 | 1,105 | 4,165 |
| GREENWOOD PARK | 223 | 15 | 157 | 364 | 759 |
| SYDENHAM | 36 | 68 | 207 | 557 | 868 |
| MAYVILLE | 52 | 58 | 1,017 | 819 | 1,946 |
| UMHLATUZANA | 163 | 13 | 150 | 147 | 473 |
| SOUTH COAST JUNCTION | 201 | 50 | 314 | 768 | 1,333 |
| IMPORTED | 2,285 | 406 | 3,093 | 3,760 | 9,544 |
| | 349 | 18 | 2,057 | 173 | 2,597 |
| TOTAL | 2,634 | 424 | 5,150 | 3,933 | 12,141 |

Number of Illegitimate Births occurring among those notified :

| | | European | Coloured | Native | Asiatic | Total |
|----------------------|-----|----------|----------|--------|---------|-------|
| DURBAN | | 44 | 49 | 747 | 16 | 856 |
| GREENWOOD PARK | | 3 | 2 | 83 | 2 | 90 |
| SYDENHAM | | 1 | 13 | 125 | 8 | 147 |
| MAYVILLE | | 1 | 19 | 552 | 8 | 580 |
| UMHLATUZANA | | 2 | 1 | 75 | 6 | 84 |
| SOUTH COAST JUNCTION | ••• | 3 | 3 | 170 | 16 | 192 |
| | | 54 | 87 | 1,752 | 56 | 1,949 |
| IMPORTED | | 7 | 6 | 868 | 9 | 890 |
| TOTAL | | 61 | 93 | 2,620 | 65 | 2,839 |

Stillbirths-Notifications :

| | European | Coloured | Native | Asiatic | Total |
|----------------------|----------|----------|--------|---------|----------------------------|
| DURBAN | 34 | 5 | 92 | 43 | 174 |
| GREENWOOD PARK | 9 | - | 5 | 17 | 31 |
| SYDENHAM | - | 3 | 23 | 22 | 31 48 92 21 80 |
| MAYVILLE | | - | 66 | 26 | 92 |
| UMHLATUZANA | 4 | - | 12 | 5 | 21 |
| SOUTH COAST JUNCTION | 3 | 2 | 31 | 44 | 80 |
| | 50 | 10 | 229 | 157 | 446 |
| IMPORTED | 3 | - | 151 | 11 | 165 |
| TOTAL | 53 | 10 | 380 | 168 | 611 |

Number of Illegitimate Stillbirths occurring among those notified.

| a service of the second states of the second states of the | European | Coloured | Native | Asiatic | Total |
|--|----------|----------|-----------|---------|-----------|
| DURBAN | 3 | 2 | 53 2 | 2 | 60 2 |
| SYDENHAM MAYVILLE | = | 1 | 13 | _ | 14 43 |
| UMHLATUZANA | miz er | | 5 18 | | 5 19 |
| IMPORTED | | 3 | 134 59 | 3 | 143 59 |
| TOTAL | 3 | 3 | 193 | 3 | 202 |

Registrations :

| | European | Coloured | Native | Asiatic | Total |
|----------------------------|-----------------|----------------|--------|---------|--------|
| DURBAN | 1,645 | 222 | 952 | 1,099 | 3,918 |
| GREENWOOD PARK | 205 | 28 79 | 151 | 508 | 892 |
| SYDENHAM | 45 42 182 | 79 | 214 | 863 | 1,201 |
| MAYVILLE | 42 | 70 | 967 | 987 | 2,066 |
| UMHLATUZANA | 182 | 70 26 73 | 148 | 304 | 660 |
| SOUTH COAST JUNCTION | 185 | 73 | 299 | 1,090 | 1,647 |
| and submitted building and | 2,304 | 498 | 2,731 | 4,851 | 10,384 |
| IMPORTED | 360 | 37 | 2,567 | 189 | 3,153 |
| TOTAL | 2,664 | 535 | 5,298 | 5,040 | 13,537 |

| EL PART BALL | 1 1 1 | European | Coloured | Native | Asiatic | |
|--------------|-------|----------|----------|--------|---------|--|
| Birth Rate | | 20.8 | 53.6 | 27-5 | 47.5 | |

-

39

Number of Illegitimate Births occurring among those registered.

| | European | Coloured | Native | Asiatic | Total |
|----------------------|--------------|---------------|----------------|----------|----------------|
| DURBAN | 67 | 69 | 639 | 17 | 792 |
| SYDENHAM | 2 | 6 24 30 | 94 117 | 13 15 | 118 158 |
| UMHLATUZANA | 4 | 5 | 515 78 | 19 3 | 565 90 |
| SOUTH COAST JUNCTION | 3 | 22 | 135 | 30 | 190 |
| IMPORTED | 82 13 | 156 17 | 1,578 1,099 | 97 6 | 1,913 1,135 |
| TOTAL | 95 | 173 | 2,677 | 103 | 3,048 |

Stillbirths-Registered :

_

| | European | Coloured | Native | Asiatic | Total |
|----------------|------------|----------|------------|-----------|------------|
| DURBAN | 39 | 5 | 93 | 38 | 175 |
| GREENWOOD PARK | 7 | | 14 | 27 | |
| SYDENHAM | 1.0001 | 2 | 21 | 45 | 48 69 |
| MAYVILLE | - | 1 | 130 | 63 | 194 |
| UMHLATUZANA | 53 | 1 2 | 18 38 | 12 82 | 36 125 |
| IMPORTED | 55 6 | 11 | 314 205 | 267 15 | 647 227 |
| TOTAL | 61 | 12 | 519 | 282 | 874 |

Number of Illegitimate Stillbirths occurring among those registered :

| | - | European | Coloured | Native | Asiatic | Total |
|----------------|---|----------|----------|----------------------------------|----------|----------------------------------|
| GREENWOOD PARK | | 4 | | 67 10 15 73 10 19 | NI LI LI | 71 10 16 74 11 20 |
| | | 4 | 4 | 194 85 | Ξ | 202 86 288 |
| TOTAL | | 5 | 4 | 279 | - | 1 |

Stillbirth Rate or number of stillbirths per 1,000 live and stillbirths :

| RACE | Number of Stillbirths | Number of Live Births | Total | Stillbirth Rate |
|-----------|--------------------------|--------------------------|-------|--------------------|
| EUROPEANS | 55 | 2,304 | 2,359 | 23.3 |
| COLOUREDS | 11 | 498 | 509 | 21.6 |
| NATIVES | 314 | 2,731 | 3,045 | 103.1 |
| ASIATICS | 267 | 4,851 | 5,118 | 52-1 |

INFANTILE DEATHS.

| | European | Coloured | Native | Asiatic | Total |
|----------|-----------------------------|-----------------------------|-------------------------------------|-----------------------------------|--------------------------------------|
| DURBAN | 55 5 1 3 5 7 | 15 4 8 9 3 7 | 152 40 64 513 50 128 | 113 26 70 92 13 98 | 335 75 143 617 71 240 |
| IMPORTED | 76 8 | 46 2 | 947 320 | 412 24 | 1,481 354 |
| TOTAL | 84 | 48 | 1,267 | 436 | 1,835 |

•

| RACE | NUM | BER OF DE | ATHS | NUMBE | Mantality | | |
|---|------------------------|------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|
| RACE | Male | Female | Total | Male | Female | Total | Mortality Rate |
| EUROPEAN COLOURED NATIVE ASIATIC | 43 25 536 209 | 33 21 411 203 | 76 46 947 412 | 1,198 268 1,337 2,474 | 1,106 230 1,394 2,377 | 2,304 498 2,731 4,851 | 32.98 92.36 346.75 84.93 |

Infantile Mortality Rate or number of infant deaths per 1,000 live births :

Number of Infants who died who had previously attended clinic or had been visited by a health visitor :---

| | European | Coloured | Native | Asiatic |
|-----------------|----------|----------|--------|---------|
| an - Vallenters | 1 | 5 | 10 | 4 |

| | ATTENDED ONLY | | | | EALTH ONL | VISITEI Y | > | HEALTH VISITED AND ATTENDED | | | |
|--------|------------------|--------|---------|--------|--------------|--------------|---------|--------------------------------|------|--------|---------|
| Europ. | Col. | Native | Asiatic | Europ. | Col. | Native | Asiatic | Europ. | Col. | Native | Asiatic |
| - | - | 10 | 4 | - | 5 | - | - | 1 | - | - | - |

CAUSES OF INFANTILE DEATHS.

EUROPEANS :

WEEKS MONTHS CAUSE TOTAL 0-1 1-2 2-4 3-6 6-12 1-3 26 2 1 1 27 _ ----ALL IL 11 -2 | | | | | | | | | | 44 --4 1 ... 1 -61 2 1 9 _ 1 1 -1 1 -... 1 1 1 2 1 3 821 ... = 1 1 Tuberculous Meningitis... ... Diphtheria Encephalitis Meningitis Natural Causes Ill-defined Causes 1 _ 111 -= = 1 1 _ ż 1 1 1 -.... _ _ _ 1 TOTAL 41 4 7 14 10 76

COLOUREDS :

| CAUSE | - | WEEKS | THE | | TOTAL | | |
|--------------|------------------|-------|---------------|-----|-------|--------------------------------|-----------------------------|
| CAUSE | 0-1 | 1-2 | 2-4 | 1-3 | | | |
| Prematurity | 2 1 6 — | 1 | 2 | | | 14 | 11 2 2 9 1 9 |
| Malnutrition | III | | 1111 | | | $\frac{1}{3}$ $-\frac{1}{1}$ 1 | 1 7 2 1 1 |
| TOTAL | 19 | 1 | 2 | 9 | 4 | 11 | 46 |

NATIVES :

| CAU | ISE | | | Avenue | WEEKS | | 1 | MONTH | 5 | - |
|---------------------------------------|-----|--------|------|---------|-------|-----|-----|----------|--------------------|---------|
| Chi | JOE | | | 0-1 | 1-2 | 2-4 | 1-3 | 3-6 | 6-12 | TOTAL |
| Prematurity Intra-cranial Heamorrh | | | | 36 | 3 | 5 | - | - | - | 44 |
| Malaena Neonatorum | | | | 9 | 1 | - | 1 | - | | 11 |
| Congenital Malformati | in | | | 3 | 1 | 12 | | | 1 | 6 |
| Congenital Atelectasis | | | | 2 | 1 | - | 1 | | | 7 |
| Congenital Debility | | | | 122 | 34 | 18 | 27 | 8 | | 200 |
| Tetanus Neonatorum | | | | | 6 | 10 | | ALLER DA | 10/2 1 | 209 |
| Other Diseases peculiar | | | | 9 | 8 | 1 | 2 | | Contraction of the | 6 20 |
| Gastro Enteritis | | - mail | | 7 | 15 | 8 | 62 | 98 | 98 | 288 |
| Amoebic Dysentery | | | | - | | _ | 1 | - 20 | 20 | 200 |
| Other Diseases of the I | | | | | 100 | 100 | | 1 | î | 1 |
| Malnutrition | | | | | | 1 | 10 | 3 | 11 | 25 |
| Nutritional Oedema | | | | | - | _ | 1 | 2 | 7 | 10 |
| Bronchitis | | | | | 1 | | 4 | ĩ | 3 | 9 |
| Broncho Pneumonia | | | | 5 | 15 | 15 | 60 | 59 | 85 | 239 |
| Lobar Pneumonia | | | | | 1 | 3 | 4 | 5 | 2 | 15 |
| Pleurisy | | | | 1 | 1 | | | | ī | 3 |
| Tuberculous Meningiti | s | | | | - | | - | 2 | 2 | 4 |
| Pulmonary Tuberculos | is | | | - | | | | - | 8 | 8 |
| Tubercular Peritonitis | | | | - | - | - | 1 | | - | 1 |
| Miliary Tuberculosis | | | | | - | | | | 3 | 3 |
| Congenital Syphilis | | | | 4 | 1 | 1 | 5 | 2 | 1 | 14 |
| Diphtheria | | | | - | - | - | - | 1 | 2 | 3 |
| Whooping Cough | | | | | - | | - | | 1 | 1 |
| Meningitis | | | | 1 | - | | - | | 1 | 2 |
| Tetanus | | | | 1 | - | - | - | - | | 1 |
| Pericarditis | | | | _ | | - | | 1 | 1 | 1 |
| Infanticide | | | | 1 | 1000 | - | | - | - | 1 |
| Accidental Burns | | | | - | - | - | | - | 3 | 3 |
| Natural Causes | | *** | | 2 | | - | 1 | 1 | - | 4 |
| Ill-defined Causes | | | | 1 | | | - | 1 | and they | 3 |
| TOTAL | | | | 207 | 88 | 55 | 180 | 183 | 234 | 947 |

ASIATIC :

| Cut | in the second | | | | | WEEKS | - | 1 | MONTH | s | TOTA |
|---|---------------|------|------|------|---------|--------------|-----|-----|-------|------|------|
| CAU | SE | | | | 0-1 | 1-2 | 2-4 | 1-3 | 3-6 | 6-12 | TOTA |
| Prematurity | | | | | 33 | 6 | 2 | 5 | _ | - | 46 |
| ntra-cranial Haemorrh | age | | | | 6 | | | | | | 6 |
| | | | | | 3 | | | | - | | 3 |
| Congenital Malformation | ons | | | | 25 | | 1 | | 3 | | 6 |
| Congenital Ateleotasis | | | | | | - | - | | | | 5 |
| Congenital Debility | | | | | 30 | 12 | 7 | 5 | - | 1 | 55 |
| Other Diseases perculia | r to | Infa | ncy | | - | 2 | 1 | 2 | | | 5 |
| Gastro Enteritis | | | | | | | 5 | 18 | 22 | 30 | 75 |
| Bacillary Dysentery | | | | | - | | - | _ | - | 2 | 2 |
| Dysentery (unspecified) | | | | | - | | | _ | - | 1 | 1 |
| Amoebic Dysentery | | | | | - | | | | | 1 | 1 |
| Helminths | | | | | | | | | | 1 | 1 |
| Other Diseases of the In | | | | | _ | | | | | 1 | 1 |
| Nephritis | | | | | _ | _ | - | | | 1 | 1 |
| Malnutrition | | | | | | | 1 | 2 | 2 | 1 | 6 |
| Rickets | | | | | | | _ | _ | 1 | _ | 1 |
| Bronchitis | | | | | 3 | 3 | 1 | 13 | 17 | 18 | 55 |
| Broncho Pneumonia | | | | | 2 | 3 | 4 | 22 | 19 | 26 | 76 |
| obar Pneumonia | | | | | _ | _ | 2 | 4 | 2 | 8 | 16 |
| Pleurisy | | | | | 2 | | | 5 | 4 | 2 | 13 |
| Coryza | | | | | 4 | 2 | 2 | 2 | | | 10 |
| nfluenza | | | | | i | _ | | 1 | | - | 2 |
| Pulmonary Tuberculosi | | | | | - | 100 | _ | _ | 1 | | Ĩ |
| Tuberculosis Meningitis | 2 | | | | | | | _ | | 2 | 2 |
| Tuberculosis of Abdon | | | | | | 100 | _ | | 1 | - | 1 |
| Congenital Syphilis | | | | | 1 | a state in a | _ | | _ | 1 | i |
| ALL AND A | | | | | | | | | | 2 | 2 |
| | | *** | | | 100 | | | _ | 1 | 2 | 3 |
| | | | | •••• | | 1 | 1 | | 2 | | 4 |
| Diseases of the Skin | | | | | | - | i | _ | _ | | i |
| Present Courses | | | | | | 2 | 3 | 1 | _ | - | 6 |
| 11 1 0 1 0 | | | | | 1 | - | - | 2 | 1 | - | 4 |
| Il-defined Causes | *** | *** | •••• | •••• | 1 | 0.000 | | ~ | | | - |
| TOTAL | | | | | 92 | 31 | 31 | 82 | 76 | 100 | 412 |
| IUIAL | | | | | 94 | 51 | 51 | 02 | 10 | 100 | |

ENTERITIS :

FEEDING OF INFANTS WHO DIED FROM :

| | | | | | | | European | Coloured | Native | Asiatic | Total |
|------------------------|------|-----|------|-----|-------|-----|----------|----------|--------|----------|-------|
| Breast fed | | | | | 0 | | - | - | 5 | 11 | 16 |
| Breast fed and sweeter | | | | | | | _ | _ | _ | 2 | 2 |
| Breast fed and cereal | | | | | | | | | 2 | 1 | 3 |
| Breast fed and extras | | | | | | | - | | | 3 | 3 |
| Cow's milk | | | | | | *** | - | | 1 | 2 | 3 |
| Cow's milk and cereal | | | | | | | 2 | 3 | 2 | 1 | 8 |
| Dried milk | | | | | | | 4 | - | 4 | 1 | 9 |
| Dried milk and cereal | | | | | | | | - | 1 | A DECKST | 1 |
| sweetened condensed i | milk | | | | | | - | - | | 4 | 4 |
| sweetened condensed i | milk | and | COLO | sal | | | | 1 | | | 1 |
| Unable to trace | | | | | | | 3 | 5 | 273 | 50 | 331 |
| TOTAL | | | | | | | 9 | 9 | 288 | 75 | 381 |

MALNUTRITION, NUTRITIONAL OEDEMA AND RICKETS :

| | | | | European | Coloured | Native | Asiatic | Total |
|--|------|------|------|----------|----------|--------------|---------|--------------|
| Cow's milk and cereal Sweetened condensed milk Unable to trace | | | | | = | 1 1 33 | | 1 1 42 |
| TOTAL | | | | 1 | 1 | 35 | 7 | 44 |

MATERNAL MORTALITY:

| Termine | Number of Deaths From Causes Due To | Nur | nber of Bir | ths | Death Rate Calculated On Live Births | Death Rate Calculated On Live and |
|---|---|--------------------------------|------------------------|--------------------------------|--|---|
| | Childbirth | Live | Still | Total | TADAL | Stillbirths |
| Europeans Coloureds Natives Asiatics | 4 2 24 12 | 2,304 498 2,731 4,851 | 55 11 314 267 | 2,359 509 3,045 5,118 | 1.73 4.01 8.79 2.47 | 1.69 3.92 7.88 2.34 |

N.B.--Late Registration.--A European maternal (Puerperal Sepsis) which occurred during 1943 was registered during 1946.

Maternal Deaths attended by :

| | European | Coloured | Native | Asiatic | Total |
|----------------|----------|----------|--------|---------|-------|
| Doctor | | | | | |
| No particulars | | - 2 | 4 | 1 | 42 |

Causes of Maternal Deaths :

| | | | | European | Coloured | Native | Asiatic | Total |
|----------------------------------|------|-----|-----|----------|----------|--------|---------------------|-------|
| Puerperal Sepsis | | | | -: | - | 3 | 1 | 4 |
| Toxaemia | | | | | 1 | 2 | 1.000 | 4 |
| Anaemia of Pregnancy | | | | | | | 2 | 2 |
| Pernicious vomiting of Pregnancy | | | *** | - | - | 1 | | 1 |
| Eclampsia | | | | 1 | 1 | 3 | 2 | 7 |
| Ruptured Ectopic Pregnancy | | *** | | 1 | - | 4 | reda-start | 5 |
| Post Partum Haemorrhage | | | | - | | 2 | 2 | 4 |
| Placenta Praevia | | | | | - | 1 100 | and a second second | 1 |
| Abortion | | | | | - | 3 | | 3 |
| Septic Abortion | | | | - | | - | 1 | 1 |
| Caesarian Section Operation | | | | - | | 1 | - | 1 |
| Ruptured Uterus | | | | | _ | | 2 | 2 |
| Pulmonary Embolism | | | | 1 | | 1 | The second second | 2 |
| Post Partum Meningitis | | | | 1 | | | | 1 |
| Obstructed Labour | | | | - | - | 1 | - | 1 |
| Puerperal Mania | | | | - | | - | 1 | 1 |
| Tuberculosis | | | | | - | 1 | | 1 |
| Dysentery-Bacillary and Amoebic | | | | - | - 1 | 1 | - | î |
| TOTAL | | | | 4 | 2 | 24 | 12 | 42 |

43

SUPERVISION OF MIDWIVES.

| the property in the second in the second in the property is the | European | Coloured | Native | Asiatic | Total |
|---|----------|---------------------------------------|--------|--|-------|
| No. of trained midwives practising in Durban No. of trained midwives who have ceased to practise | 29 | 2 | - | | 31 |
| in Durban | 10 | | | | 10 |
| No. of trained midwives unable to trace | 1 | · · · · · · · · · · · · · · · · · · · | | TOR ML | 1 |
| No. of untrained midwives practising in Durban | 6 | 2 | | 145 | 153 |
| No. of untrained midwives who have ceased to prac- tise or who cannot be traced | | _ | - 10 | 7 | 7 |
| No. of untrained midwives whose names have been removed from the List | - | 1 | _ | _ | 1 |
| No. of untrained midwives deceased | - | | - | 5 | ŝ |
| No. of women practising midwifery who have been | | chuberos - | | and the second sec | 1.00 |
| warned not to do so unless they apply to have their names put on the List | (munit) | 1 | 2 | 7 | 10 |

Supervision of Midwives :

Midwives :

| | European | Coloured | Native | Asiatic | Total |
|---|----------|---------------------|--------|------------------------------|------------------------------|
| No. of midwives' appliances examined No. of midwives' bags replenished No. of midwives' dressings sterilised after septic cases No. of wisits to midwives at their homes or at patients' | 91 | 19 19 22 — | 1111 | 1,394 2,061 2,521 3 | 1,504 2,080 2,543 4 |
| houses | 15 | 11 | 1 | 71 | 98 |

Certificated practising midwives' registers are examined every three months and their appliances every six months.

Uncertificated practising European and Coloured midwives' appliances and registers are examined every three months.

Uncertificated practising Native and Indian midwives' appliances are examined every month.

Inspection of Registers of Nursing Homes and Lying-in-Homes :

| | | | European | Coloured | Native | Asiatic | Total |
|---|--|------|--------------|----------|--------|---------|----------|
| No. of homes No. of times homes visi | | | 15 44 | - | 3 7 | 1 3 | 19 54 |

Ante-natal Work :

| | | | | | | | European | Coloured | Native | Asiatic | Total |
|---|------------------------|---------------------|----------------|--------------|--------------|-----|--------------------------------|----------------------------------|--|---|--|
| No. of expectant mothers | atten | ding | e clini | ic | | 200 | 102 | 29 | NAME OF TAXABLE PARTY. | 2,847 | 2,978 |
| Total attendance | | | | | | | 181 | 53 | | 3,291 | .3525 |
| No. of ante-natal sessions | | | | | | | 25 | 12 | | 95 | 132 |
| No. of ante-natal visits | | | | | | | 307 | 12 87 | 548 | 760 | 1,702 |
| No. of post-natal visits | | | | | | | 10 | 6 | 8 | 19 | 43 |
| No. of cases of Puerperal 1 No. of visits to cases of Pt No. of maternal deaths No. of visits to maternal d No. of cases of Ophthalmi No. of visits to cases of Op No. of Stillbirths | leath a Ne phtha | s s s almi | torun a Neo | onat | orun | | 2 4 16 47 19 19 | 1 2 2 5 18 9 9 | 6 24 24 79 133 209 234 | 6 12 14 26 70 134 149 | 12 15 42 44 126 268 371 411 |

OPHTHALMIA NEONATORUM.

Confinements Attended by :

| | | | | | European | Coloured | Native | Asiatic | Total |
|-----------------------------------|-----|----|------|------|----------|----------|--------|---------|----------|
| Hospital or Nursing | Hom | ic | | | 8 | 5 | 42 | 8 | 63 |
| Doctor at Home Midwife at Home | | | | | 25 | - | = | 18 | 23 33 |
| No Skilled Attention | | | | | . í | | 32 | - | 33 |
| TOTAL | | | | | 16 | 5 | 74 | 26 | 121 |

| | | | | European | Coloured | Native | Asiatic | Total |
|--|------|------|------|----------|----------|----------|---------|----------|
| Of Syphilitic Origin | | | | 11/11 | 1 | - | _ | 1 |
| Of Gonorrhoeal Origin Cause Unknown | | | | 3 13 | -4 | 45 29 | 9 17 | 57 63 |
| TOTAL | | | | 16 | 5 | 74 | 26 | 121 |

Ophthalmia Neonatorum Rate or number of cases of Ophthalmia Neonatorum per 1,000 live births :

| | | | | Number of Cases of Ophthalmia Neonatorum | Number of Live Births | Rate Calculated on Live Births | |
|----------|-----|------|-----|--|--------------------------|-----------------------------------|--|
| European | | | | 16 | 2,304 498 | 6.9 | |
| | | | | 5 74 | 2,731 | 10·04 27·09 | |
| Asiatics | ••• | •••• | ••• | 26 | 4,851 | 5-35 | |

Infants Under 1 Year :

HEALTH VISITORS' WORK.

| | | | | European | Coloured | Native | Asiatic | Tota |
|----------------------------------|-------------------------------|------|------|-----------------------|-------------------|--------------------|-----------------------|-------------------------|
| First visits—Feeding | Breast Mixed Artificial | | | 1,023 96 179 | 368 42 60 | 3,589 193 73 | 1,462 123 66 | 6,442 454 378 |
| TOTAL | | | | 1,298 | 470 | 3,855 | 1,651 | 7,274 |
| | | | | European | Coloured | Native | Asiatic | Tota |
| Re-visits—Feeding | Breast Mixed Artificial | | | 1,479 771 1,985 | 370 131 444 | 658 758 92 | 3,180 2,623 766 | 5,687 4,283 3,287 |
| | | | | | | | | - |
| TOTAL | | | | 4,235 | 945 | 1,508 | 6,569 | 13,257 |
| | | | | 4,235 | 945 | 1,508 | 6,569 | 13,257 |
| TOTAL | | | | 4,235 European | 945 Coloured | 1,508 Native | 6,569 Asiatic | 13,257 |
| | | | | | | | | |
| Older Children : First Visits | | | | European 537 | Coloured 230 | Native 1,571 | Asiatic 1,719 | Total 4,057 |

| CONTRACTOR AND ADDRESS AND ADDRESS ADDR | European | Coloured | Native | Asiatic | Total |
|---|----------|----------|--|--|----------------|
| Infant Deaths | 19 | 7 | 59 | 39 | 124 |
| Infectious Diseases or Contacts | 12 | 7 | 6 | 22 | 47 |
| Reports on Insanitary Conditions No. of visits to Nursery Schools and Homes for | 7 | | 2 | ī | 10 |
| Protected Infants | 80 | | 100-10-10-10-10-10-10-10-10-10-10-10-10- | and the second s | 80 |
| Lectures and Demonstrations to Students | 48 | | 5 | · ······ | 53 |
| Lectures and Demonstrations to Expectant Mothers | 34 | - | - | | 80 53 34 |
| TOTAL | 200 | 14 | 72 | 62 | 348 |

| MURDIARU | European | Coloured | Native | Asiatic | Total |
|-------------------------------------|----------|----------|--------|---------|-------|
| No. of Infants under 1 year Visited | 1,492 | 675 | 4,030 | 2,038 | 8,235 |

TOTAL VISITS.

| First Visits-Infan | its | | | | | | | 7,274 |
|--------------------|-----|-----|----|------|-----|------|------|--------|
| Re-visits-Infants | | | | | | | | 13,257 |
| Older Children | | | | | | | | 23,828 |
| Other Visits | | | | •••• | ••• | | | 348 |
| E | | тот | AL | | | | | 44,707 |

Incont - Total

Dental Caries :

| | European | Coloured | Native | Asiatic | Total |
|---|----------|----------|--------|---------|-------|
| No. of children found to be suffering from dental | 85 | 40 | 50 | 39 | 214 |
| caries | 61 | 9 | 3 | 5 | 78 |

15.—PROSECUTIONS.

Summary for Year 1945/46.

| LEGISLATION CONTRAVENED | Brought Forward | New | Total | Guilty | Not Guilty | With- drawn | Pend- ing | Fin | cs | |
|---|--------------------|--------|--------------------|-----------------------|----------------|-------------------|--|-----------------------|-----|----|
| Public Health By-laws. | | | | | | | 1000000 | 1213650 | | |
| Nuisances : | 1. 1. 1. 1. 1. | | and and | | | parents in | 10 | | | |
| Use of Foodshops/Store for | 1 - N - | | | | 20.00 | A11 - 111 | 2 | | | |
| Sleeping | - | 3 | 3 | 3 | | _ | - | £18 | 0 | 0 |
| Unclean yards and drains | 6 | 12 | 18 | 18 | | | | 88 | | (|
| Unclean premises | - | 5 | 5 | 4 | | | 1 | 6 | | (|
| Defective drain | 2 | 4 | 6 | 5 | | 1 | | 16 | | |
| Defective privies | - | 7 | 7 | 5 | - | 1 | 1 | (1) 34 | | (|
| Defective dwellings | 4 | 21 | 25 | 23 | | - | 2 | (2) 135 | 10 | 1 |
| Discharge of foul water into | | | | | | | | | | |
| street | - | 1 | 1 | 1 | | | - | 3 | 0 | (|
| Inadequate water supply | | 1 | 1 | - | - | | 1 | | | |
| Fly Development | - | 9 | 9 | 9 | | | | 41 | 0 | (|
| Mosquito Development | - 1 | 2 | 2 | 2 | | | - | 8 | 0 | (|
| Keeping of animals so as | ALC: NUMBER | | a subscription of | 1.000 | | | The second | and the second second | | |
| to be a nuisance | | 2 | 2 | 2 | | | - | 12 | 10 | (|
| Disposal of carcase | - | 1 | 1 | 1 | | | - | 2 | 0 | (|
| | 1 | | - Children | margaret Frank | stone of a | | 726,32.3 | THURSDAY & | | |
| Manufacture, Storage and | Section 1 | | and the | | | | | | | |
| Sale of Food : | | | 1000 | 1.1.1 | - | | | 1.00 | | |
| Unhygienic handling | - | 15 | 15 | 14 | 1 | | | 44 | 0 | (|
| And the second se | | | | and the second second | | | | 1.5 | | |
| Hairdressers : | | | | | | - | | | | |
| Failure to wear overalls | - | 2 | 2 | 2 | - | - | - | 9 | 0 | (|
| | | | 1.1.1.1.1.1.1.1 | | 1.000 | | | | | |
| Dairies and Milk : | 1 | | 1000 | | | | | | | |
| Trading without Registration | - | 2 | 2 | 2 | - | - | - | 8 | 0 | (|
| Illegal introduction of milk | | | 1 | | | | | 100000000 | | |
| into Durban | - | 2 | 2 | - | - | - | 2 | - | | |
| Milk below bacterial standard | 4 | 32 | 36 | 34 | - | - | 2 | 88 | 10 | |
| | | | 0.00 | 1000 | | | 1. | | | |
| Building By-laws : | | | 10.000 | and the second second | | | | 1.1 | | |
| Unauthorised buildings as | | | 1 | | | | 200 | | 100 | |
| dwellings | 1 | 1 | 2 | 2 | - | - | | 9 | 0 | |
| Contraction of the second second second | 1000 | | | 1000 | | | | | | |
| Public Health Act : | | | and the second | | Colling of the | 1.1.1 | 3 | 100 00 | - | |
| Rodent infestation regulations | | 4 | 5 | 5 | - | | - | (3) 58 | 0 | |
| Fumigation regulations | 1 | - | 1 | 1, | - | | - | 5 | 0 | 1 |
| Infidences of the last a considered | and the second | | alere by | 1 | | The second second | Constanting of the | A share a | | |
| V.D. | a more | | | | | | | 10 10 | ~ | ١. |
| Failure to attend clinic | - | 1 | 1 | 1 | | 4 | 6 | (4) 10 | 0 | |
| Zonal regulations-slums | 21 | 103 | 124 | 114 | - | 4 | 0 | (5) 902 | 0 | 1 |
| The hardened in the second | 100.000 | | | N. Constant | 1 - 1 - 1 | 1.000 | A STATE | Less and | | |
| Foods, Drugs and Disinfectant | | | No. of Contraction | A CARGO AND | | | | Contraction of the | | |
| Act : | | 10.000 | | 2 | | | 1 | 0 | 0 | 1 |
| Milk below chemical standard | - | 3 | 3 | 2 | - | | 1 | 10 | | |
| Sausages below standard | 0.000 | 2 | 2 | 2 | - | - | 1 | 10 | 0 | |
| Ice cream below standard | - | 1 | 1 | - | | - | 1 | - | | |
| selling month and | 10 | 226 | 276 | 262 | 1 | 6 | 17 | 1,517 | 0 | - |
| TOTAL | 40 | 236 | 276 | 252 | 1 | | (40) | (1,509 | | 0 |
| | (21) | (239) | (260) | (204) | (7) | (9) | (40) | (1,509 | 0 | 1 |

(1) £20 suspended

(2) £5 suspended.

(3) £15 suspended.

(4) £10 or 6 weeks (fine not paid)

(5) £110 suspended.

16.-OTHER MATTERS OF HEALTH AND SANITATION.

Inspections by Health Inspectors :

| Hotels, boarding | g and | lodg | ing h | ouses | | | | | | | 3,364 |
|------------------|-------|------|-------|-------|------|------|------|-----|-----|-----|--------|
| Restaurants, tea | roon | and | eatin | g hou | uses | | | | *** | | 2,167 |
| Bakeries | | | | | | | | | | | 75 |
| Butcheries | | | | | | | | | | | 1,225 |
| Dairies and mill | k dep | ots | | | | | | *** | | | 1,997 |
| Laundries | | | | | | | | | | | 397 |
| Markets | | | | | | | | | | | 267 |
| Offensive trades | | | | | | | | | | *** | 161 |
| General | | | | | | | | | | *** | 28,463 |
| | | | | | | | | | | | |

| 3,364 | (1,992) |
|--------|-----------|
| 2,167 | (1,636) |
| 79 | (33) |
| 1,225 | (503) |
| 1,997 | (1,183) |
| 397 | (253) |
| 267 | (390) |
| 161 | (106) |
| 28,462 | (17,625) |
| | |
| 38,146 | (23, 721) |

| Complaints received and inv | estig | ated | | | | | 3,071 | (3,341) |
|-----------------------------|--------|------|------|------|------|------|--------|----------|
| Notices issued-Personal | | | | | | | 2,139 | (1,767) |
| Notices issued-Written | | | | | | | 4,184 | (3,066) |
| Reports on applications for | licent | ces | | | | | 11,605 | (11,019) |
| | | | | | | | | |
| | | | | | | | 20,999 | (19,193) |

Health Scrutiny of Building Plans .- There has been further increase in activity in regard to the building activities and the position is steadily improving.

In addition to numerous preliminary lay-outs, the number of plans officially submitted to this Department was 2,301 as compared with 1,838 plans during 1944/45. Final approval was given in respect of 1,965 plans (£3,555,965).

Values, however, show a continued increase, the relative figure being as follows :---

| | 1944/45 1945/46 | | | | •••• | | | £1,352,158 £3,555,965 |
|----------------|------------------------|--------|------|------|------|------|---------|------------------------------|
| istribution of | plans : | | | | | | | |
| | Old Boroug | h. | | | | | | 629 |
| | Greenwood | Park | | | | | | 494 |
| | Sydenham | | | | | | | 246 |
| | Mayville Umhlatuzan | | | | | | *** | 368 |
| | South Coast | | tion | | | | | 147 417 |
| | South Coas | t June | uon | | | | | 417 |
| | 1 | TOTA | L | | | | | 2,301 |

Normal site- and building-inspections were carried out in all parts of the City, often in co-operation with architects, owners and co-officials of the Municipal Service. Many building schemes in embryo have been examined.

Co-operation with other officials and property owners has been a prime factor in attaining improvements, sometimes on matters outwith the scope of by-laws and regulations.

LABORATORY SERVICES (by Consulting Pathologist) :

D

During the year consultation took place with the Medical Officer of Health on many subjects connected with public health, quite apart from conferences called for the purpose of determining the cause of outbreaks of illness of food poisoning type, and of discussing what could be done about the heavy carrier rate of amoebiasis in the Bantu people in and outside the City. In fact, as time went on, consultation was sought not only by the Medical Officer of Health, but by his heads of departments on many subjects, ranging from the reaction of vaccination to questions of specificity of the Wassermann reaction. During outbreaks of illness such as Glanular Fever, Enteric and Food Poisoning, consultation took place almost daily.

The Pathologist also went over the whole plant of water purification in and outside the City, and issued a report thereon.

Amoebic Dysentery.—In a survey carried out by the Pathologist among Natives working in, and those employed outside, the City, a carrier rate of 17 per cent. was found. As this was a single stool survey, it is necessary to treble the percentage found in order to approximate the true rate. By this means we arrive at the figure of 51 per cent. Now when it is realised that the Bantu population is always on the move in and out of the City, some idea of the difficulty of dealing suppressively with this disease can be imagined. In fact, it becomes evident that the best we can do will be to test the obvious type of food handler, and if positive, have the individual treated.

But far greater co-operation by the public is necessary for carriers of a disease like amoebiasis, than it is for a disease like diphtheria. In other words, it is much easier to take a swab than to get a stool specimen from an individual who is not ill.

In the matter of the treatment of a carrier, Diodoquin, unfortunately, is a little expensive, but it remains to be shown what is better than two courses of this compound, for a person who does not wish to be put off work, nor to be put to any inconvenience whatsoever.

One often hears it stated by certain medical practitioners that nine out of every ten Europeans in Durban, or 90 per cent., have amoebiasis. But in the survey above-mentioned only 5 per cent. of Europeans were found to harbour the pathogenic species E. histolytica. This finding has since been amply confirmed by thousands of stool examinations carried out at the Government Laboratory, since the survey was completed. If, of course, by amoebiasis they include the species E. Coli, the percentage would have to be considerably raised, but that addition would not bring it anywhere near 90 per cent.

Diseases of Food Poisoning Type in the Bantu.—Periodic outbreaks of exhaustive diarrhoea and vomiting are not uncommon in these people, but it is often exceedingly difficult to nail down the cause. One of the reasons is that they are inveterate drinkers of strong spiritous liquor, and besides the fact that they are not particular over the containers they brew it in, they often add ingredients that no human bowel could possibly tolerate. Finally, it is useless to try to find out how they made any particular brew. They know it is illegal, and wik therefore divulge as little as possible. Sometimes, it is due to the action of the spirit on the lead lining of the containers, and in one outbreak we were able to prove this.

The consumption of spiritous liquor often precipitates acute amoebic dysentery in those who previously harboured the parasite in an asymptomatic form. Sometimes they indulge even when the disease is in an advanced stage, and are then very liable to get a perforation.

It is interesting to speculate how much of the general illness among Natives in this Province has this consumption of augmented spiritous liquor as the underlying cause. Coupled with their unbalanced diet it must sure be not inconsiderable.

Enteric.—There would appear to be some evidence that Typhoid Fever is a much less serious illness to-day than it was, say, 40 years ago. That does not mean that fatal or severe cases are not seen to-day. But taken all over, and considering the fact that so many have only a mild illness, one gets the impression that the disease is losing virulence, somewhat in the same way as we know has happened with Scarlet Fever.

Furthermore, there appears to be some reason for saying that the carrier rate is falling also. There is no doubt that Vi positives are not so numerous to-day as they were five years ago.

Whether the subsidence in virulence and in the carrier rate is only apparent and not real one cannot be sure. We certainly treat the disease far better to-day than formerly, but for all that there still remains the impression that it has become milder in virulence. One cannot help but notice what a large number of cases there are which become afebrile at the end of the second week, even in the uninoculated. We may, in fact, be ascribing to the efficacy of treatment what in reality has another explanation altogether. Laboratory.—During these twelve months, the post of Consulting Pathologist did not carry any obligation to carry out laboratory tests in his private laboratory. But in spite of this, 1,094 specimens were examined, and before the post was changed in character, this total had grown to over 1,200. These tests were almost entirely confined to Vi-tests for Enteric carriers. The remainder were for Diphtheria carriers, and tests on millet for suspected vegetable poison.

| me, 1945.) | LOTAL | Value | £ 307,483 557,584 557,584 557,584 557,584 557,584 107,064 190,596 190,596 403,903 166,253 166,253 166,253 166,253 113,573 | 3,555,965 |
|---|--|-------|--|-----------|
| d 30th Ju | | No. | 124 177 253 164 164 212 212 212 212 212 212 248 248 | 1,965 |
| (See page 80 year ended 30th June, 1945.) | tions to Clubs, Halls and Hotels | Value | £ 24,108 1,864 3,575 3,575 3,575 90 1,860 1,800 6,905 13,507 | 66,471 |
| (See page | Additions Halls Hot | No. | Suwan- ******* | 35 |
| | bs, Halls I Hotels | Value | £ 128,560 9,614 75,437 30,281 75,437 30,250 104,390 104,390 8,180 8,180 3,350 | 415,662 |
| | Clubs, and P | No. | - 14464 60 1 - | 26 |
| 1 | is to Stores, s, Offices Factories | Value | £ 23,062 13,062 18,215 9,754 4,188 4,188 27,460 19,062 19,062 19,062 12,795 12,795 | 319,544 |
| 30.0 | Additions Shops, and Fa | No. | 33°85555 40128 | 188 |
| | Stores, Shops, Factories and Offices | Value | £ 54,883 74,000 64,164 64,164 64,164 64,164 64,164 64,164 64,100 65,861 74,190 55,120 55,120 55,124 19,287 132,665 | 614,715 |
| | Store | No. | 4-11 0 40000 | 74 |
| No. I St. | Additions to Dwellings and Flats | Value | £ 8,699 4,038 16,701 11,834 7,570 11,834 14,642 8,409 8,813 8,813 8,813 19,966 | 158,564 |
| 24 | Add Dwel | No. | 252 256 1126 258 258 258 258 258 253 253 253 253 253 255 256 256 256 256 256 256 256 256 256 | 847 |
| | Flats | Value | £ 14,000 15,227 15,227 133,777 21,400 66,900 26,900 26,900 26,900 26,900 26,900 26,900 26,900 20,570 10,695 | 493,869 |
| | 25.99 | No. | 040 400-0- | 35 |
| | Dwelling | Value | £ 78,279 66,305 66,305 317,044 106,811 145,975 78,637 78,637 141,477 53,712 141,477 54,148 61,148 61,148 | 1,148,142 |
| | á | No. | 37 37 37 33 37 33 37 33 37 33 37 33 37 33 37 33 37 33 37 33 37 33 37 33 37 37 | 762 |
| | Month | | 1945 : July August Sept October Nov 1946 : January February March March March June | TOTAL |

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TABLE SHOWING PARTICULARS OF PLANS, 1945-46.

17.-STAFF LISTS :

The establishment of the Department consists of :--

Administration :

- 1 City Medical Officer of Health

- 6 Senior Clerks 6 Senior Clerks 14 Clinical Assistants 2 Lady Assistants 1 Chief Typist 1 Senior Typist 9 Typists 1 Encourter Clerk

- 1 Enquiry Clerk.

Epidemiology and Endemiology :

- 1 Assistant Medical Officer of Health (& T.B. Officer) Hooper, Dr. D. H., M.B., Ch.B., D.P.H.

 1 Radiographer (Senior)

 1 Radiographer (Junior)

 1 General Assistant.

 5 Indian Health Assistants

- 5 Indian Health Assistants 1 Indian Messenger 6 Bantu Health Assistants.

Disinfecting (and Ambulance) Station and Laundry :

- 1 Superintendent 7 General Assistants.

Health Inspection :

Veterinary Hygiene :

Health Visiting :

- 1 Chief Health Visitor

- 1 Senior Health Visitor 29 Health Visitors 1 Health Visitor (Orthopaedic) 8 Clinic Assistants

Family Health Service :

Laboratory Services :

Field Hygiene :

- 1 Health Inspector

- 1 Senior Assistant Supervisor 1 Assistant Supervisor (Field) 5 General Assistants (1st Grade) 8 General Assistants (2nd Grade)

Non-European Health and Medical Services :

Non-European :

- 1 Indian Health Assistant 6 Bantu Health Assistants 2 Bantu Clerks 4 Bantu Nurses (Female)
- Bantu Dispenser
- 3 Bantu Orderlies 1 Bantu Cleaner.

Health Education :

European staff drawn from other sections. Non-European :

2 Bantu Health Assistants

City Medical Officer of Health Gunn, Dr. G. H., M.D., Ch.B., D.P.H. Deputy Medical Officer of Health ... English, Dr. G. D., M.D., Ch.B., D.P.H., D.T.M. Administrative Officer ... Boutle, R. E., R.S.I. Assistant Administrative Officer ... Thomson, A. H., R.S.I. Chief Clerk ... Tedder, H. M., R.S.I.

- Non-Europeans : 1 Indian Office Assistant 7 Indian Messengers.

Non-European : 61 Indian Assistants 3 Bantu Ambulance Attendants.

and inspection:
1 Assistant Medical Officer of Health Edwards, Dr. H. S., M.D., Ch.B., D.P.H.
1 Chief Health Inspector Michie, A. A., R.S.I.
1 Deputy Chief Health Inspector Bawden, F. G., R.S.I.
7 Health Inspectors (1st Grade)
9 Health Inspectors (3rd Grade)
9 Health Inspectors (3rd Grade)
12 Health Assistant Health Inspectors
12 Health Assistants
1 Health Assistant (Lady).

1 Veterinary Officer Harber, Lt.-Col. A. F., M.R.C.V.S.

Non-Europeans : 5 Indian Clinic Assistants 5 Indian Messengers 2 Bantu Nurses 1 Bantu Cleaner.

Assistant Medical Officer of Health ... McNeill, Dr. K., M.B., Ch.B., D.P.H. Clinical Medical Officer Chapman, Dr. L. E. J., M.B., Ch.B., B.Sc., D.P.H. Clinical Medical Officer (Vacant). Physical Culturist (Vacant).

1 Pathologist (part-time) Sampson, Dr. B. F., M.R.C.S., L.R.C.P., M.B., B.Sc.

Non-European :

- 3 Indian Sirdars 6 Indian Field Assistants 34 Indian Labourers
- 8 Bantu Health Assistants 30 Bantu Labourers.

1 City Venereologist Wallace, Dr. G. D. H., M.D., D.P.H., M.R.C.S., L.R.C.P. 1 Medical Officer (Bantu) Multiplication of the second sec

| City Fever Hospital | · I state to the | | | | | | | | |
|-----------------------------|------------------|----|------|-----------|--------|------|---------|------------------------------|-------------|
| 1 Matron 1 Assistant Mat | | | | Car Ew | els, N | Aiss | E. M. | I.D., M.R.C.S., | L.R.C.S. |
| | tendent (Vacant | () | | | Non | -Eur | opean : | | |
| 6 Ward Sister | | | | | | 1 | Indian | Sirdar | |
| 4 Staff Nurses | | | | | | 25 | Indian | Orderlies | |
| 1 Seamstress | | | | | | 1 | Indian | Female Maid | |
| 1 Cook/Housek | ceper | | | | | | | Nurses | |
| arreday proceedings | and the second | | | | | 11 | Bantu | Watchmen and Female Maids | d Labourers |
| | Europeans | | | | | | | 182 | |
| | Bantu | | | | | | | 89 | |
| | Indian | | | | | | | | |
| | | | | | | | | 426 | |

ADMINISTRATION :

During the year under review, a comprehensive re-organisation scheme was submitted to and approved by the City Council. The Department is now comprised of ten divisions :---

- Administration
- Epidemiology and Endemiology
 Health Inspection
 Health Visiting
 Family Health Service
 Public Health Education
 Laboratory Service

- 7. Laboratory Services
- 8. Field Hygiene
- Non-European Health and Medical Services
 City Fever Hospital.

CO-ORDINATION OF HOSPITAL SERVICES :

No progress was made with regard to finalising the scheme of co-ordinating hospital services. The non-European section of the City Fever Hospital was taken over by the Provincial Administration as from the 1st August, 1944. Shortage in the supply of trained nurses continues to be the most pressing problem in respect of fever hospitalisation.

SLUMS AND HOUSING :

Due to prevailing emergency and restrictive conditions in the building industry with attendant high costs, Durban's housing problems are still far from solution.

Influx of all races, though mainly Natives, continues without respite. New housing programmes com-pleted and under construction are insufficient to cope with the influx apart from the established slum population.

Congestion has worsened in the already overcrowded sub-standard dwelling structures, chiefly in the form of building-on and additional rooms.

During January, 1946, a survey of Native shack dwellers disclosed a population and distribution as follows :

| District | | | | | N | lo. of Familie |
|-----------------|-------|------|------|------|------|----------------|
| South Coast Jun | ction | | | | | 377 |
| Umhlatuzana | | | | | | 31 |
| Mayville | | | | | | 4,998 |
| Sydenham | | | | | | 56 |
| Greenwood Park | | | | | | 31 |
| | | | | | | 5,493 |

These figures disregard isolated shacks occupied by Natives and are concerned only with such concentrations of huts deemed to constitute a settlement.

Estimating an average of rather less than 5 members per family, it is computed that a Native population of 30,000 is living under conditions highly conducive to the prevalence of Typhoid Fever, the Dysenteries, Typhus, Tuberculosis and Venereal Disease.

25,000 of the above-mentioned Natives reside in the Mayville area.

Present indications are that the number of families will exceed 6,000 by the end of 1946.

Housing Survey.-The cross-sectional housing survey undertaken by the Natal University College has not yet been completed. Pending its availability, the following estimate of housing requirements may be taken :--

its)

| | | | | | | | | | 1011 | elling | b (r | louses or | L. PD |
|----------|---------------------|---|---|---|----------|---|----------|----------|----------|----------|----------|-----------|----------|
| European | | | | | | | | | | | | 3,000 | |
| | | | | | | | | | | | | | |
| Asiatic | | | | | | | | | | *** | | 3,800 | |
| | | | | | | | | | | | | 8,000 | |
| onomic : | | | | | | | | | | | | | |
| European | | | | | | | | | | | | | |
| | | | | | | | | | | in. | | 1,800 | |
| Native | | | | | | | | | | | | | |
| Asiatic | | | | | | | | | | | | 14,000 | |
| | | | | | | | | | | | | 23,500 | |
| | Coloured Asiatic | Coloured Asiatic onomic : European Coloured Native | Coloured Asiatic onomic : European Coloured Native | Coloured Asiatic onomic : European Coloured Native | Coloured | Coloured Asiatic onomic : European Coloured Native | Coloured | Coloured | Coloured | Coloured | Coloured | Coloured | Coloured |

In the 1943/53 Current and Post-war Housing Programme, the City and Water Engineer has made provision to cover most of these requirements.

Slum Areas :

(a) Central Areas.—Council's emergency ban intermission on the demolition of dwellings still obtains so that no direct action for the removal of slum buildings has been undertaken. Action to effect repairs and maintenance of dwellings, however, continues to be exerted in terms of the Regulations for the Control and Inspection of Premises in Defined Zones framed under Section 32 of the Slums Act.

As a result, certain owners of defective premises in the various defined zones, considering that repairs to be uneconomic, have as an alternative demolished their sub-standard dwellings.

Demolitions and replacements are summarised below :---

| Demolitions | |
|-------------|--|
| AC 11- | |

Replacements

25 Houses Flat blocks involving 52 self-contained flats

Work on additional flats, houses and trading premises is under way.

(b) Suburban Areas :

Slum Zone 8, situated on the north bank of the Umgeni River, has undergone a satisfactory change during the year under review. When "proclaimed," the zone comprised 140 shacks mostly occupied by Indian families. With few exceptions, all were of the "squatter" type and eligible for acceptance in the Council's Sub-Economic Schemes.

By arrangement with co-operating owners, 48 shacks have been demolished and the dehoused persons accommodated in the Springfield Indian project. A further reduction is planned for the ensuing year.

Slum Zone 9, the Booth Road area in Mayville, where 25,000 Natives are living under grossly insanitary conditions, persists as a menace to the entire community. Clearance of this large shack settlement depends upon the acquisition by the City Council of portion of the Umlazi Mission Reserve which abuts the southern boundary of Durban. Negotiations with the Government are pending and, if successful, shack dwellers in Mayville will be induced to rebuild at Umlazi on prepared and health serviced sites on a "temporary" housing scheme basis.

This basis will ensure remedy of the basic defects of shack settlement, *i.e.*, multi-roomed dwellings, and the absence of proper roads, water supply, sanitation and health service institutions such as clinics, ablution and laundry facilities.

In Slum Zone 10, located in the Bluff Valley, shack settlement has not yet reached alarming proportions. The population is predominently Bantu and clearance of the area is also bound up in the acquisition of land in the Umlazi Mission Reserve.

In Slum Zone 11, the Karim Lane area, land values have great appreciated over the past few years. Its development will best be effected by private enterprise. A recent survey shows that, with few exceptions, owners are preparing or have completed plans for the erection of flat blocks and trading or industrial premises. However, until this section is sewered, major schemes are impracticable owing to Building By-law restrictions. As owners concerned are anxious to exploit the enhanced values of their properties, a rapid clearance of this slum can be expected when sewerage becomes available.

Prosecutions.-100 prosecutions were instituted under the Slum Zonal Regulations. Fines imposed totalled £716 10s. 0d.

New Housing Estate.-During the year, progress with provision of new Municipal housing was recorded as follows :--

(1) European :

(2) In

(3) C

(4) N

| moper | | | | | | | | | |
|--------|--|----------|--------|--------|--------|------|---------|----------|---------|
|] | Partly-paid Housing Scheme- | | | | | | | | |
| | Number of houses complete | | | | | | | | (255) |
| | Number of houses commen | | | | | | | 38 | |
| | Number of houses awaiting | g comn | nences | ment | | | | 1 | |
| 1 | Flats for ex-Volunteers- | | | | | | | | |
| | Umbilo Raod, completed | | | | | | | 30 | |
| | Umbilo Road, nearing con | apletion | n | | | | | 18 | |
| | Selborne Road, under cons | structio | ···· m | | | | | 282 | |
| 1 | Flats for Women- | | | | | | | | |
| o doo | Rapson Road. Conversion t | o flats. | Work | nea | rly c | omol | leted | 7 | |
| | | | | | | | | | |
| | Woodlands Housing Scheme : | | | | | | | 10 | |
| | Houses completed | | | | | | *** | 40 | |
| | Houses almost completed Houses ready for roofing or | | | | | | | 10 50 | |
| | flouses ready for rooming of | runne | i auva | meeu | | | | 50 | |
| 1 | Sherwood and Virginia Estate S Road hardening works and | | | Iraina | ige c | omp | leted o | r in pro | gress. |
| dian : | | | | | | | | | |
| - | Springfield Sub-Economic- | | | | | | | | |
| | Houses completed | | | | | | | 207* | (428) |
| | Houses under construction | | | | | | | 62 | (420) |
| oloure | | | | | | | | | |
| | Sparks Estate— | | | | | | | | |
| | | | | 1000 | | - | | | |
| | Road hardening and stormy | vater di | ramag | e con | npiei | ied. | | | |
| ative- | | | | | | | | | |
| | Chesterville (Blackhurst) Scheme- | - | | | | | | | |
| | Number of houses complete | d | | | | | | 325* | (1,265) |
| | | | SCARES | - | 11/201 | 1966 | | | |
| | Merebank Native Men's Hostel- | - | | | | | | | |
| | | | | | | | | | |

Two blocks completed, comprising 960 beds. Occupation delayed pending completion of dining hall and other offices. Three blocks under construction. Completed scheme will accommodate 4,800 Natives.

* These figures are totals to date.

Magazine Barracks.—No change has taken place in the housing conditions in the various barracks used for the accommodation of Corporation Indian employees. The City Council has authorised the expenditure of £40,000 for the improvement of conditions at the Magazine Barracks by the installation of individual sanitary and bathing facilities for each flat.

The Medical Clinic at the Magazine Barracks is functioning satisfactorily.

A Health Education programme, supported by film shows, is being developed.

Housing of Natives .- Existing Native housing comprises the following :---

- (a) Municipal villages and hostels;
- (b) Industrial Compounds;
- (c) Private residential premises;
- (d) Slum settlements.

Municipal Native Housing comprises :---

1. (a) Locations for Housing Families-

| | Charles Mile | | | ····· | ····· | | | 480 120 64 1,265 | houses " |
|-----|--------------------------------|--------|---|-------|-------|------|------|---------------------------|-------------|
| (6) | Locations for Native M | Males | _ | | | | | | |
| | Somtseu Road | | | | | | | 3,674 | beds |
| | Jacobs | | | | | | | 1,656 625 | ** |
| (c) | Hostels for Native Ma | les- | | | | | | | |
| ., | Bell Street . Ordnance Road | | | | | | | 1,374 | |
| 10 | | | | | | | | 440 | |
| (d) | Hostels for Native Fer | males- | | | | | | | |
| | Grey Street . Jacobs | | | | | | | 520 64 | beds |
| | | | | | | | | | |

2. (a) Water Supply :--

| | and it is the second | | LOCA | FIONS | |
|-----------|--|------------------|--------------|--------|---|
| Acted Mar | Construction of the second | Lamont | Baumannville | Jacobs | Chesterville |
| | Houses with water laid on Houses with communal supply No. of communal taps | 100 380 31 | | 64 | - Complete water and sewerage services |

(b) Ablution, Washing and Sanitary Accommodation :

| | Lamont | Baumannville | Jacobs | Chesterville |
|------------------------|--------|--------------|--------|--------------|
| Houses with showers | 100 | 120 | | _ |
| Houses with bathrooms | - 380 | | | 1,265 |
| Showers for males | _ | | 6 | _ |
| Showers for females | | 11 | -6 | 1.17 |
| Washing gullies | 380 | 1.120 | 22 | 1,265 |
| Latrines (pail) | 100 | - | | |
| Latrines (pit) | 380 | | | - |
| Latrines (waterborne) | | 120 | - | 1,265 |
| Latrines (for males) | - | - | 6 | |
| Latrines (for females) | - | | 6 | |

At Lamont work on provision of full sewerage facilities is now in hand.

3. (a) Hostels for Males :-

| | | | Somtseu Road | Dalton 'Roád | Bell Street | Jacobs | Ordnance Road |
|--------------|------|------|-----------------|-----------------|----------------|--------|------------------|
| Latrines | | | 235 | 66 | 42 | 72 | 13 |
| Urinals | | | 13 | 6 | 7 | 54 | - |
| Showers | | | 216 | 6 38 | 38 | 48 | 9 |
| Washing Area | | | 21 | 11 | 38 22 36 | 5 | 3 |
| Water taps | | | 21 50 | 11 50 26 | 36 | 58 | 7 |
| Fireplaces | | | 62 | 26 | 15 | 16 | 15 |
| Kitchens | | | 10 | 5 | | 1 | - |
| Kitchen taps | | | 24 | 17 | | 7 | - |
| Dining Halls | | | 3 | 2 | - | 1 | - |

(b) Hostels for Females :--

| | | | | | | | | | | Grey Street | Jacobs |
|--------------|----|------|---------|---------|---|------|----------|-----|----------|------------------|------------|
| Latrines | - | 1000 | 4. m.L. | | - | 1.00 | | | 14.0 | 37 | 6 31 5 |
| Showers and | ba | ths | | | | | | | | 23 | 3 |
| Washing area | | | | · · · · | | | | | | 6 | 1 |
| Water taps | | | | | | | | | | 42 | 8 |
| Fireplaces * | | | | | | | | | | 36 | 4 |
| Kitchens | | | | | | | | | | relie 1 | 10 1.2 |
| Kitchen taps | | | | | | | | | | 6 | |
| Dining Halls | | | | | | | 1941 (A) | 200 | 2.03 | more channel | mond chent |

4. Proposed Additional Accommodation :---

| Lamont Location | | | | 1,083 houses |
|---------------------------|------|------|-----|------------------|
| Merebank Hostel for males | | | | 4,040 beds |
| Somtseu Road-additions | | | | 250 " |
| Jacobs-extensions | | | 111 | 1,000 " |

5. Accommodation Other than Municipal :--

| (a) | Industrial and comm | nercial | l (ex | lcudi | ng S | S.A.R. | and | Du | ırban | Cor | rp.) | 16,000 |
|--------------|-----------------------|---------|-------|-------|------|--------|-----|----|-------|-----|------|--------|
| (6) | Domestic Servants | | | | | | | | | | | 21,000 |
| (c) | Licensed premises | | | | | | | | | | | 11,000 |
| (<i>d</i>) | Shanty settlements | | | | | | | | | | | 30,000 |
| (e) | Miscellaneous, inclu | ding f | loati | ing p | opu | lation | | | | | | 9,000 |
| Native p | opulation is estimate | d at 9 | 9,13 | 8. | | | | | | | | |

CONCLUSIONS :

- (a) The general housing shortage persists for all races.
- (1) Influx of all races, principally Bantu, is unabated.
- (c) New housing programmes completed cannot cope with increase of population.
- (d) Natives living in slum settlements total 30,000 and their number continues to increase.
- (e) Approximate estimates of housing requirements are given, pending completion of survey now being undertaken by Economic Division of the Natal University College.
- (f) Notwithstanding existing restrictions, the Regulations for the Control and Inspection of Premises in Defined Zones (framed under the Slums Act) have contributed materially to improvement of housing conditions.
- (g) Prosecutions undertaken indicate that the Department has striven for improvements despite the difficult times; and
- (h) The statistics of new housing estates completed and under construction during the year are very gratifying.

APPRECIATION :

I wish to express my appreciation of the loyal service rendered by my staff.

My thanks are also conveyed to you, Sir, and to the other members of the City Council for courtesy and assistance extended to me throughout the past year.

I have the honour to be,

Ladies and Gentlemen,

Your obedient servant,

G. H. GUNN, M.D., Ch.B., D.P.H.

City Medical Officer of Health.



