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Contributors

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REPUBLIC OF EGYPT

MINISTRY OF PUBLIC HEALTH, EGYPT



ANNUAL REPORT

ON THE WORK OF THE

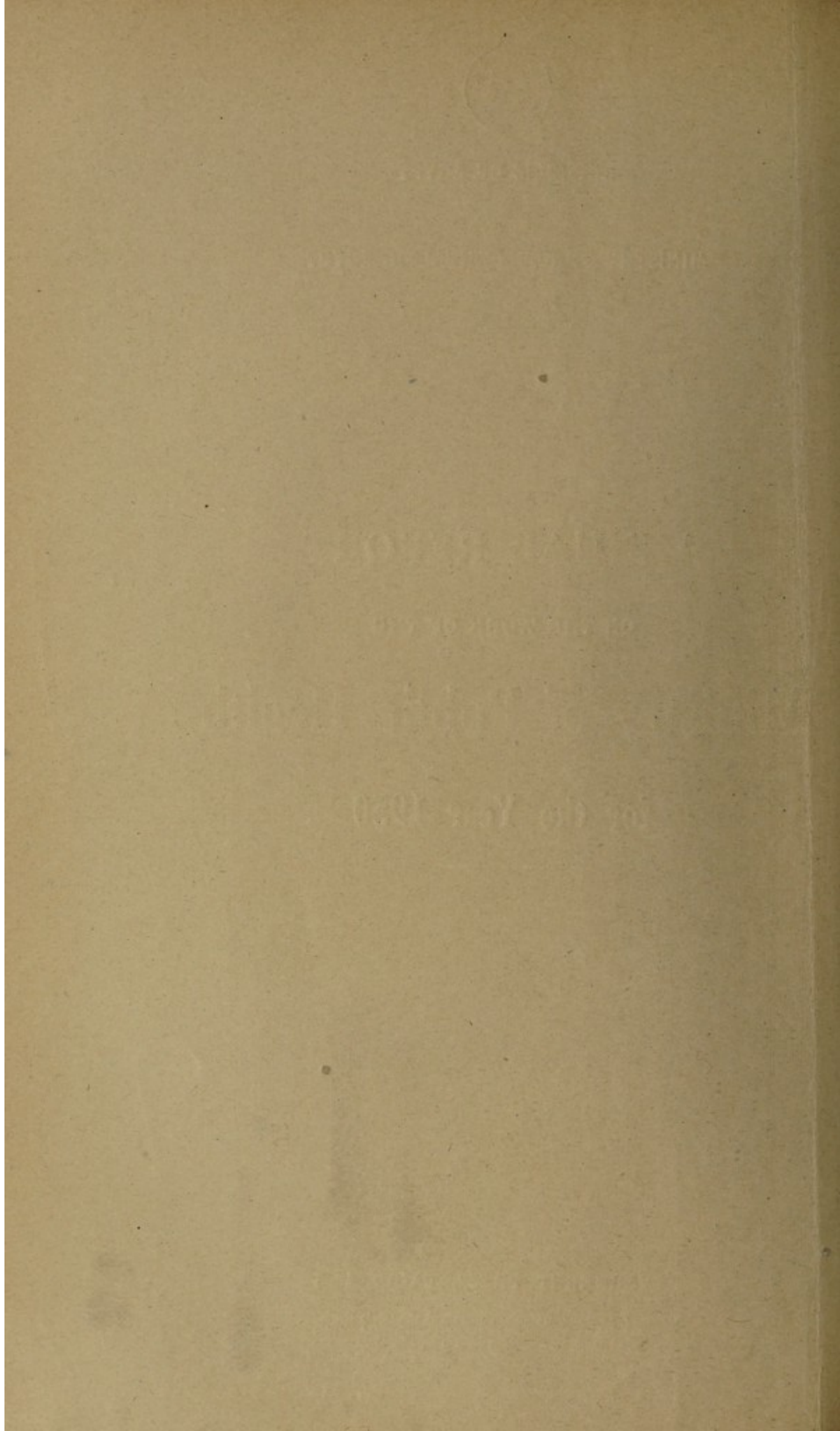
Ministry of Public Health

for the Year 1950

GOVERNMENT PRESS, CAIRO, 1955

Government Publications are on sale at the "Sale Room"
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relating to these publications should be addressed to the
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MINISTRY OF PUBLIC HEALTH

ANNUAL REPORT FOR THE YEAR 1950

Part I.—PUBLIC HEALTH

Chapter I.—Vital Statistics

A. Population :

The estimated population of Egypt in mid-year 1950 totalled 20,392,600, i.e. an increase of 408,000 inhabitants over 1949. This increase represents an average increase of 2% per year of the Egyptian population, which is very high and calls for some urgent measures.

Table No. 1 gives the age and sex distribution of the whole population and ratio of each age group per thousand of the population. Two facts are evident, namely that the ratios for age groups up to thirty years are high and those for age groups over that age are low. The former indicates that the Egyptian population is young. The latter indicates that the average age on death is relatively young, which means that more efforts in the field of health are needed.

B. Births :

The total number of births for all Egypt during the year was 904,941 or 44.4 per thousand of population as against 41.9 in 1949. Table No. 2 shows that the 1950 birth rate is the highest since the outbreak of World War II. It may be explained by the economic progress that marked the war period and subsequent years and the resulting increase in marriages during the quiet times that followed the end of hostilities. On the whole, the birth-rate in Egypt is very high when compared with rates of other countries. It is, in fact, one of the highest throughout the world. During the past ten years, the birth-rate varied between 38.2 in 1942 and 44.4 in 1950.

The highest birth rate of 64.4 per thousand of population was recorded in Suez. The lowest, 29 per thousand, was recorded in Qena Province. It is presumed that the low birth-rates in Qena and most Upper Egypt Provinces are due to men's migration in search of livelihood elsewhere (Table No. 7).

Table No. 4 shows that February marks the highest birth rate of 50.1 per thousand and September marks the lowest rate of 39.8. Again, this table shows that males predominate, being a hundred to every 91.7 females.

C. Deaths :

A total of 388,944 deaths were reported throughout Egypt during the year under review, or a death-rate of 19.1 per thousand of population, as against 20.6 in 1949.

According to table No. 2, the 1950 death-rate was the lowest during the past ten years. It will be also observed that the average deaths are fewer year after year.

The highest death-rate of 26 per thousand of population was also recorded in Suez; the lowest, 11.4, was in Qena (Table No. 7). It is suggested that the low death rates in Qena and most Upper Egypt provinces are due to failure in reporting deaths. The high death rate at Suez is again the result of migration of Upper Egyptians seeking work with oil refineries, and chemical and other industries. Table No. 3 shows that the highest death rate of 22.8 per thousand of population was recorded during the third quarter; the lowest, 16.3, was recorded during the first quarter.

D. Age and Sex Distribution of Deaths :

Table No. 8 gives the age and sex distribution of deaths. It shows that more than half the deaths, 56 % of total deaths, occur within the first five years of life. It is of interest to know that the decrease in 1950 deaths as compared with the 1949 deaths is manifest in all age groups except the over 80 years age group.

It will be also observed that the male death rate is higher than the female, being 877 female deaths to a thousand males. Again, this is common in all age groups except the 85 years age group.

E. Infantile Mortality :

The total number of infantile deaths in all Egypt was 117,283 or a ratio of 130 per thousand live births as against a ratio of 135 in 1949.

In localities having health offices, 69,446 infantile deaths were recorded with a ratio of 170.8 per thousand live births. The ratio was 174.7 in the previous year.

Table No. 9 shows that diarrhoea and enteritis continue to be the main causes of infantile deaths. Congenital debility comes next in importance.

Table No. 10 gives details of infantile deaths in localities having health offices distributed according to age groups and causes of death. According to this table, more than one fifth of the deaths occur within the first month of life. 85% of these were due to congenital debility. After the first month, diarrhoea and enteritis play the first role in infantile deaths. Table No. 6 a shows that the highest infantile mortality rate during the year, 175, was recorded in the Governorates, the lowest, 111, was in Lower Egypt provinces. It was 126 in Upper Egypt provinces.

F. Still Births :

The still birth rate for all Egypt was 6.9 per thousand births. This was 16.7 in the Governorates, 4.1 in Lower Egypt provinces and 4.3 in Upper Egypt provinces as against 7, 17, 4.3 and 4.1 respectively in the previous year. The higher rate in the governorates may be explained by a more accurate reporting than in the provinces.

**TABLE NO. 1.—ESTIMATED POPULATION BY AGE AND SEX IN 1950, AND PROPORTION
PER 100,000 AT ALL AGES**

| Age groups | Population | | | Proportion per 100,000 of total groups |
|--------------------------|-------------------|-------------------|-------------------|--|
| | Males | Females | TOTAL | |
| 0-4 years | 1,378,900 | 400,200 | 2,779,100 | 136.3 |
| 5-9 " | 1,302,700 | 1,277,800 | 2,580,500 | 126.5 |
| 10-14 " | 1,231,100 | 1,149,100 | 2,380,200 | 116.7 |
| 15-19 " | 1,060,400 | 984,200 | 2,044,600 | 100.3 |
| 20-24 " | 730,400 | 757,400 | 1,487,800 | 73.0 |
| 25-29 " | 739,000 | 843,700 | 1,582,700 | 77.6 |
| 30-34 " | 668,200 | 739,700 | 1,407,900 | 69.0 |
| 35-39 " | 710,500 | 701,500 | 1,411,700 | 69.3 |
| 40-44 " | 613,300 | 607,500 | 1,220,800 | 59.9 |
| 45-49 " | 461,800 | 445,400 | 907,200 | 44.5 |
| 50-54 " | 453,900 | 481,100 | 935,000 | 45.8 |
| 55-59 " | 184,400 | 185,700 | 370,100 | 18.1 |
| 60-64 " | 271,600 | 320,500 | 592,100 | 29.0 |
| 65-69 " | 90,300 | 88,100 | 178,400 | 8.7 |
| 70-74 " | 116,200 | 146,700 | 262,900 | 12.9 |
| 75-79 " | 25,300 | 25,800 | 51,100 | 2.5 |
| 80-84 " | 37,500 | 56,500 | 94,000 | 4.6 |
| 85 years and over | 18,600 | 25,200 | 43,800 | 3.1 |
| Not stated | 27,050 | 35,700 | 62,700 | 3.1 |
| TOTAL | 10,121,100 | 10,271,500 | 20,392,600 | — |

TABLE NO. 2.—BIRTHS, DEATHS AND RATES PER 1,000 OF POPULATION
AND INFANTILE MORTALITY-RATE 1939-1950

| Year | Births | Deaths | Natural Increase | Birth-rate per 1,000 pop. | Death rate per 1,000 pop. | Inf. Mortality rate per 1,000 births |
|-------------|---------|---------|------------------|---------------------------|---------------------------|--------------------------------------|
| 1939 | 696,746 | 429,033 | 267,713 | 42·2 | 26·0 | 161 |
| 1940 | 697,700 | 444,448 | 253,252 | 41·6 | 26·5 | 161 |
| 1941 | 695,016 | 440,981 | 254,035 | 40·8 | 25·9 | 150 |
| 1942 | 658,324 | 494,358 | 163,966 | 38·2 | 28·7 | 168 |
| 1943 | 689,771 | 492,644 | 197,127 | 39·6 | 28·3 | 160 |
| 1944 | 722,166 | 472,234 | 249,932 | 41·0 | 26·8 | 152 |
| 1945 | 787,502 | 512,003 | 275,499 | 43·9 | 28·6 | 153 |
| 1946 | 774,152 | 469,382 | 304,770 | 42·6 | 25·8 | 141 |
| 1947 | 834,557 | 408,577 | 425,980 | 43·5 | 21·3 | 127 |
| 1948 | 832,728 | 397,976 | 434,752 | 42·5 | 20·3 | 139 |
| 1949 | 836,516 | 410,524 | 425,992 | 41·9 | 20·6 | 135 |
| 1950 | 904,941 | 388,944 | 515,997 | 44·4 | 19·1 | 130 |

TABLE No. 3.—QUARTERLY DISTRIBUTION OF DEATHS AND DEATH-RATES PER 1,000 OF POPULATION
FOR ALL EGYPT 1941-1950

| Years | Male Deaths | | | | Female Deaths | | | | Total Number of Deaths | | | | Annual Death-Rates per 1,000 persons living | | | |
|-------|---------------|--------|-----------|----------|---------------|--------|-----------|----------|------------------------|---------|-----------|----------|---|------|-----------|----------|
| | Quarter ended | | | | Quarter ended | | | | Quarter ended | | | | Quarter ended | | | |
| | March | June | September | December | March | June | September | December | March | June | September | December | March | June | September | December |
| | | | | | | | | | | | | | | | | |
| 1941 | 48,979 | 63,062 | 68,650 | 58,503 | 40,231 | 59,768 | 59,361 | 47,427 | 89,210 | 117,830 | 128,011 | 105,930 | 21.2 | 27.8 | 29.8 | 24.7 |
| 1942 | 57,024 | 78,544 | 70,071 | 62,740 | 47,208 | 68,590 | 51,874 | 50,307 | 104,232 | 147,134 | 129,945 | 113,047 | 24.5 | 34.3 | 29.9 | 26.0 |
| 1943 | 58,690 | 69,137 | 71,461 | 70,096 | 47,015 | 58,712 | 61,239 | 56,294 | 105,705 | 127,849 | 132,700 | 126,390 | 24.6 | 29.4 | 30.2 | 28.8 |
| 1944 | 61,059 | 69,029 | 70,457 | 57,025 | 48,733 | 59,308 | 60,175 | 46,448 | 109,793 | 128,337 | 130,632 | 103,473 | 25.0 | 29.2 | 29.4 | 23.3 |
| 1945 | 55,687 | 69,307 | 85,914 | 66,032 | 44,935 | 60,612 | 75,509 | 54,007 | 100,622 | 129,919 | 161,423 | 120,039 | 22.8 | 29.1 | 35.7 | 26.6 |
| 1946 | 71,014 | 72,047 | 64,521 | 53,089 | 51,415 | 61,661 | 55,845 | 44,790 | 117,429 | 133,708 | 120,366 | 97,879 | 26.3 | 31.3 | 26.3 | 21.4 |
| 1947 | 43,030 | 49,577 | 60,302 | 67,938 | 35,468 | 42,657 | 52,105 | 57,500 | 78,498 | 92,234 | 112,407 | 125,438 | 16.6 | 19.3 | 23.3 | 26.0 |
| 1948 | 42,411 | 52,638 | 66,696 | 50,473 | 36,494 | 47,616 | 60,151 | 41,497 | 78,905 | 100,254 | 126,847 | 91,970 | 16.2 | 20.6 | 25.6 | 18.6 |
| 1949 | 48,324 | 62,098 | 63,321 | 44,358 | 41,159 | 56,776 | 56,896 | 37,592 | 89,483 | 118,874 | 120,217 | 81,950 | 18.2 | 23.9 | 23.9 | 16.3 |
| 1950 | 44,189 | 51,675 | 61,568 | 49,732 | 37,474 | 45,958 | 55,705 | 42,643 | 81,663 | 97,633 | 117,273 | 92,375 | 16.3 | 19.2 | 22.8 | 18.0 |

**TABLE No. 4.—MONTHLY DISTRIBUTION OF BIRTHS AND DEATHS AND RATES PER 1,000
OF POPULATION, EGYPT, 1950**

| Month | Births | | | Birth rate per 1000 pop. | Deaths | | | Death rate per 1,000 pop. |
|---------------------|----------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|---------------------------------|
| | Males | Females | TOTAL | | Males | Females | TOTAL | |
| January | 45,081 | 39,951 | 85,032 | 49.1 | 15,846 | 13,483 | 29,329 | 16.9 |
| February... .. | 40,688 | 37,696 | 78,384 | 50.1 | 14,218 | 11,988 | 26,206 | 16.8 |
| March | 42,704 | 39,091 | 81,795 | 47.3 | 14,125 | 12,003 | 26,128 | 15.1 |
| April | 39,677 | 36,651 | 76,328 | 45.6 | 15,298 | 13,194 | 28,492 | 17.0 |
| May | 36,968 | 33,792 | 70,760 | 40.9 | 17,571 | 15,675 | 33,246 | 19.2 |
| June | 36,561 | 33,029 | 69,590 | 41.5 | 18,806 | 17,089 | 35,895 | 21.4 |
| July | 39,895 | 36,498 | 76,393 | 44.1 | 22,313 | 20,553 | 42,866 | 24.8 |
| August | 38,806 | 35,566 | 74,372 | 43.0 | 21,548 | 19,613 | 41,161 | 23.8 |
| September | 34,849 | 31,772 | 66,621 | 39.8 | 17,707 | 15,539 | 33,246 | 19.8 |
| October | 39,006 | 35,447 | 74,453 | 43.0 | 17,400 | 14,923 | 32,323 | 18.7 |
| November | 36,838 | 34,303 | 71,141 | 42.5 | 15,845 | 13,508 | 29,353 | 17.5 |
| December | 41,104 | 38,968 | 80,072 | 46.3 | 16,487 | 14,212 | 30,699 | 17.7 |
| TOTAL | 472,177 | 432,764 | 904,941 | 44.4 | 207,164 | 181,780 | 388,944 | 19.1 |

TABLE No. 5.—MONTHLY DEATH-RATES PER 1,000 POPULATION

| Month | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| January | 33.3 | 24.6 | 26.0 | 28.0 | 23.6 | 25.8 | 19.0 | 15.9 | 18.9 | 16.9 |
| February | 19.1 | 24.1 | 21.7 | 23.3 | 20.9 | 24.5 | 15.9 | 16.4 | 18.5 | 16.8 |
| March | 20.6 | 23.8 | 25.1 | 23.4 | 22.8 | 27.3 | 14.8 | 16.2 | 17.3 | 15.1 |
| April | 22.6 | 27.8 | 26.0 | 25.3 | 21.9 | 27.1 | 16.3 | 15.4 | 18.4 | 17.0 |
| May | 29.4 | 34.2 | 30.3 | 29.2 | 29.1 | 30.3 | 18.8 | 20.0 | 24.4 | 19.2 |
| June | 31.1 | 39.5 | 31.8 | 32.8 | 36.1 | 30.9 | 22.9 | 26.2 | 28.9 | 21.4 |
| July | 32.3 | 33.9 | 33.8 | 33.7 | 39.1 | 29.0 | 25.5 | 27.4 | 27.2 | 24.8 |
| August | 31.8 | 28.1 | 31.3 | 29.9 | 37.3 | 26.5 | 23.3 | 27.0 | 24.7 | 23.8 |
| September | 26.1 | 24.8 | 26.3 | 25.2 | 31.5 | 24.1 | 21.0 | 22.7 | 19.7 | 19.8 |
| October | 24.7 | 25.1 | 29.5 | 24.3 | 27.7 | 22.6 | 38.2 | 19.2 | 16.7 | 18.7 |
| November | 24.5 | 25.4 | 27.5 | 23.3 | 25.0 | 20.1 | 22.9 | 18.2 | 15.7 | 17.5 |
| December | 25.4 | 25.6 | 30.0 | 22.8 | 27.7 | 22.0 | 16.7 | 18.6 | 16.5 | 17.7 |
| TOTAL | 25.9 | 28.7 | 28.3 | 26.8 | 28.6 | 25.8 | 21.3 | 20.3 | 20.6 | 19.1 |

TABLE No. 6.—BIRTHS, DEATHS AND INFANTILE MORTALITY BY GOVERNORATES AND PROVINCES, EGYPT

| Localities | 1941 | | | 1942 | | | 1943 | | | 1944 | | | 1945 | | |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. |
| Cairo ... | 62,774 | 40,165 | 12,441 | 65,231 | 52,081 | 16,159 | 76,148 | 54,085 | 18,023 | 85,788 | 53,583 | 18,420 | 90,467 | 50,559 | 18,749 |
| Alexandria ... | 20,414 | 16,972 | 3,945 | 25,205 | 18,475 | 5,149 | 32,986 | 24,313 | 8,259 | 39,846 | 22,486 | 8,661 | 42,816 | 26,764 | 10,355 |
| Ismailia ... | 2,303 | 2,208 | 443 | 2,412 | 2,086 | 473 | 3,605 | 2,411 | 678 | 4,250 | 2,632 | 780 | 4,562 | 2,344 | 766 |
| Port Said ... | 4,243 | 2,905 | 739 | 5,173 | 3,561 | 952 | 6,207 | 3,333 | 1,132 | 7,852 | 4,075 | 1,456 | 7,723 | 3,942 | 1,445 |
| Damietta ... | 2,057 | 1,018 | 285 | 1,853 | 1,291 | 322 | 1,833 | 977 | 276 | 2,365 | 971 | 348 | 2,610 | 1,270 | 481 |
| Suez ... | 2,585 | 2,258 | 615 | 3,544 | 2,982 | 395 | 4,756 | 4,118 | 1,251 | 5,112 | 4,439 | 1,447 | 5,635 | 3,612 | 1,372 |
| Frontier Districts ... | 3,890 | 3,746 | 825 | 3,829 | 2,756 | 631 | 4,232 | 2,783 | 738 | 5,283 | 2,796 | 716 | 5,990 | 2,757 | 779 |
| Behera ... | 42,770 | 28,744 | 5,206 | 40,592 | 28,479 | 4,898 | 41,465 | 26,182 | 4,507 | 44,383 | 26,396 | 4,728 | 50,709 | 28,886 | 5,300 |
| Dakahlia ... | 60,776 | 40,318 | 9,527 | 54,709 | 45,622 | 9,337 | 55,825 | 41,245 | 8,242 | 60,961 | 35,227 | 8,644 | 65,092 | 43,323 | 10,333 |
| Gharbia ... | 92,553 | 56,442 | 11,761 | 83,155 | 63,456 | 12,139 | 85,688 | 60,778 | 11,703 | 91,008 | 54,444 | 11,753 | 96,485 | 65,376 | 13,254 |
| Menoufia ... | 54,362 | 35,898 | 8,442 | 48,233 | 40,580 | 9,389 | 50,660 | 37,976 | 8,375 | 49,801 | 38,515 | 8,513 | 52,051 | 39,751 | 8,512 |
| Qalutia ... | 28,911 | 19,681 | 4,634 | 27,391 | 21,929 | 4,902 | 29,800 | 19,589 | 4,813 | 29,331 | 19,785 | 4,758 | 32,324 | 21,199 | 5,023 |
| Sharkia ... | 48,703 | 31,501 | 6,603 | 48,171 | 32,808 | 6,536 | 49,840 | 31,498 | 6,288 | 50,957 | 32,430 | 5,641 | 53,844 | 35,354 | 6,715 |
| Aswan ... | 11,167 | 7,731 | 1,482 | 9,915 | 10,963 | 1,558 | 6,456 | 14,943 | 1,386 | 5,696 | 9,243 | 769 | 12,461 | 6,054 | 1,272 |
| Assiut ... | 52,986 | 33,410 | 8,186 | 49,279 | 36,790 | 8,164 | 47,866 | 33,789 | 7,098 | 48,916 | 32,957 | 6,814 | 53,322 | 41,841 | 7,455 |
| Beni-Saef ... | 22,292 | 11,862 | 2,657 | 21,282 | 14,144 | 3,070 | 22,175 | 14,000 | 3,070 | 22,402 | 13,112 | 2,807 | 22,069 | 17,436 | 3,128 |
| Fayoum ... | 26,451 | 17,818 | 5,353 | 25,955 | 18,405 | 5,097 | 26,041 | 18,132 | 4,926 | 26,227 | 19,787 | 5,021 | 27,582 | 19,465 | 5,156 |
| Gerga ... | 47,968 | 25,480 | 5,611 | 42,963 | 28,445 | 5,255 | 41,319 | 27,901 | 4,690 | 42,667 | 23,566 | 3,981 | 44,217 | 24,560 | 3,946 |
| Giza ... | 33,981 | 20,796 | 5,363 | 32,277 | 25,353 | 6,327 | 34,145 | 24,230 | 5,882 | 35,793 | 22,766 | 6,012 | 38,838 | 24,827 | 6,312 |
| Minia ... | 39,503 | 23,316 | 6,312 | 36,697 | 25,484 | 6,207 | 38,104 | 25,944 | 6,269 | 39,394 | 26,636 | 6,199 | 42,202 | 36,006 | 7,193 |
| Qena ... | 34,013 | 18,717 | 3,969 | 30,459 | 18,668 | 3,357 | 30,630 | 24,377 | 2,914 | 24,399 | 26,395 | 2,551 | 36,501 | 16,647 | 2,819 |
| TOTAL ... | 695,016 | 440,981 | 104,402 | 658,324 | 494,358 | 110,847 | 689,771 | 492,644 | 110,529 | 722,166 | 472,234 | 110,020 | 787,502 | 512,003 | 120,366 |

TABLE 6.— BIRTHS, DEATHS AND INFANTILE MORTALITY BY GOVERNORATES AND PROVINCES (Contd.)

| Localities | 1946 | | | 1947 | | | 1948 | | | 1949 | | | 1950 | | |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. |
| Cairo ... | 94,831 | 52,511 | 19,006 | 99,866 | 44,196 | 17,213 | 100,005 | 52,672 | 19,940 | 104,047 | 50,338 | 17,099 | 113,028 | 49,154 | 20,404 |
| Alexandria ... | 44,860 | 20,540 | 8,391 | 46,231 | 22,380 | 8,860 | 48,374 | 20,436 | 8,472 | 49,187 | 22,849 | 9,061 | 53,170 | 21,829 | 9,267 |
| Ismaïlia ... | 4,579 | 2,255 | 745 | 5,119 | 2,597 | 771 | 5,701 | 2,584 | 914 | 7,285 | 3,068 | 1,083 | 8,329 | 3,000 | 1,088 |
| Port Saïd ... | 7,608 | 3,388 | 1,217 | 8,594 | 3,165 | 1,105 | 8,070 | 3,513 | 1,116 | 8,952 | 3,416 | 1,195 | 8,806 | 3,789 | 1,403 |
| Darnietta ... | 2,580 | 1,001 | 353 | 2,798 | 1,103 | 367 | 2,803 | 991 | 305 | 2,714 | 1,057 | 373 | 2,975 | 1,026 | 398 |
| Suez ... | 5,546 | 3,255 | 1,166 | 5,757 | 2,624 | 1,023 | 6,183 | 3,054 | 1,156 | 6,493 | 3,139 | 1,155 | 7,622 | 3,079 | 1,347 |
| GOVERNORATES | — | — | — | — | — | — | — | — | — | — | — | — | 193,930 | 81,877 | 33,907 |
| Frontier Districts ... | 6,411 | 3,075 | 995 | 7,177 | 2,675 | 855 | 6,800 | 2,733 | 927 | 7,496 | 2,730 | 915 | 7,475 | 2,524 | 921 |
| Behera... .. | 49,091 | 25,743 | 4,753 | 49,796 | 25,861 | 5,516 | 50,776 | 21,285 | 4,955 | 50,146 | 21,931 | 4,937 | 54,750 | 20,362 | 4,922 |
| Dakahlia ... | 63,688 | 37,106 | 8,625 | 67,008 | 38,385 | 8,258 | 69,363 | 31,981 | 9,421 | 68,767 | 33,666 | 9,023 | 73,928 | 29,766 | 8,485 |
| Fouadia ... | — | — | — | — | — | — | — | — | — | — | — | — | 33,880 | 10,910 | 2,613 |
| Gharbia ... | 98,428 | 56,573 | 11,797 | 102,185 | 57,732 | 11,070 | 107,125 | 46,709 | 13,116 | 108,235 | 48,951 | 12,286 | 84,491 | 33,497 | 9,263 |
| Menoufia ... | 50,115 | 38,966 | 7,853 | 55,843 | 32,727 | 7,926 | 56,025 | 31,605 | 9,216 | 54,988 | 34,444 | 9,021 | 60,102 | 29,216 | 8,294 |
| Qalutia ... | 31,974 | 20,980 | 4,690 | 34,093 | 17,475 | 4,526 | 34,919 | 19,467 | 5,808 | 33,796 | 18,239 | 5,112 | 37,513 | 17,031 | 5,094 |
| Sharkia ... | 53,377 | 32,647 | 6,406 | 52,557 | 32,073 | 6,070 | 56,424 | 28,320 | 7,016 | 55,417 | 28,251 | 6,657 | 60,419 | 24,293 | 6,129 |
| LOWER EGYPT | — | — | — | — | — | — | — | — | — | — | — | — | 495,083 | 165,075 | 44,800 |
| Aswan ... | 10,635 | 5,225 | 1,173 | 11,343 | 5,188 | 1,255 | 10,734 | 5,012 | 1,246 | 15,913 | 5,074 | 1,243 | 11,954 | 5,844 | 1,461 |
| Assiut ... | 52,048 | 35,562 | 6,753 | 55,383 | 25,426 | 6,557 | 53,562 | 26,343 | 6,098 | 52,981 | 28,193 | 6,461 | 56,471 | 28,029 | 7,079 |
| Beni-Suef ... | 24,071 | 13,698 | 2,586 | 26,010 | 11,465 | 2,607 | 24,780 | 11,329 | 2,746 | 24,218 | 12,311 | 3,015 | 26,422 | 10,937 | 2,903 |
| Fayoum ... | 25,930 | 18,926 | 4,326 | 31,665 | 14,975 | 4,388 | 27,994 | 16,425 | 4,255 | 28,914 | 17,003 | 4,635 | 32,120 | 16,690 | 5,176 |
| Garga ... | 41,809 | 25,952 | 3,900 | 46,602 | 16,975 | 3,397 | 43,325 | 18,008 | 3,439 | 40,716 | 19,336 | 3,127 | 45,725 | 20,645 | 4,599 |
| Giza ... | 36,274 | 27,016 | 6,368 | 43,682 | 19,799 | 5,943 | 41,165 | 21,180 | 6,465 | 38,888 | 21,256 | 5,763 | 44,982 | 21,225 | 6,865 |
| Minia ... | 36,519 | 26,938 | 4,847 | 47,085 | 18,921 | 5,332 | 44,530 | 20,897 | 5,696 | 44,284 | 21,748 | 5,769 | 46,740 | 22,708 | 6,225 |
| Qena ... | 33,778 | 18,025 | 3,041 | 35,760 | 12,830 | 2,782 | 34,060 | 13,432 | 3,115 | 33,049 | 13,525 | 2,710 | 34,039 | 13,390 | 3,347 |
| UPPER EGYPT | — | — | — | — | — | — | — | — | — | — | — | — | 298,153 | 139,468 | 37,655 |
| TOTAL ... | 774,152 | 469,382 | 109,023 | 834,557 | 408,577 | 105,821 | 832,728 | 397,976 | 115,422 | 836,516 | 410,524 | 112,641 | 904,941 | 388,944 | 117,283 |

TABLE No. 6 a.—BIRTH, DEATH AND INFANTILE MORTALITY RATES BY GOVERNORATES AND PROVINCES

| Localities | 1941 | | | 1942 | | | 1943 | | | 1944 | | | 1945 | | |
|------------------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|-------------|-------------|------------|
| | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. |
| Cairo ... | 45.0 | 28.8 | 198 | 46.3 | 36.9 | 247 | 53.1 | 37.7 | 237 | 58.9 | 36.8 | 215 | 60.5 | 33.8 | 207 |
| Alexandria ... | 28.0 | 23.3 | 193 | 34.3 | 25.2 | 204 | 44.4 | 32.7 | 250 | 52.7 | 29.7 | 217 | 55.5 | 34.7 | 242 |
| Ismailia ... | 68.6 | 42.9 | 235 | 44.7 | 38.5 | 214 | 61.4 | 41.1 | 188 | 70.9 | 43.9 | 184 | 73.7 | 37.9 | 168 |
| Port-Saïd ... | 31.5 | 21.6 | 169 | 38.3 | 26.5 | 183 | 44.9 | 24.6 | 182 | 53.8 | 28.9 | 192 | 53.4 | 27.5 | 187 |
| Damietta ... | 46.5 | 23.0 | 139 | 41.1 | 28.8 | 174 | 40.1 | 21.4 | 151 | 50.8 | 20.9 | 147 | 54.3 | 26.4 | 184 |
| Suez ... | 47.3 | 44.0 | 254 | 66.1 | 58.1 | 288 | 84.9 | 73.5 | 263 | 90.6 | 78.7 | 243 | 97.3 | 63.4 | 244 |
| Frontier Districts ... | 35.6 | 31.6 | 176 | 32.2 | 23.3 | 165 | 35.3 | 23.2 | 174 | 43.2 | 22.8 | 135 | 48.0 | 22.1 | 130 |
| Rehbera ... | 37.9 | 25.5 | 122 | 30.7 | 25.0 | 121 | 35.9 | 22.7 | 109 | 37.9 | 22.5 | 107 | 42.8 | 24.2 | 105 |
| Dakhliya ... | 46.4 | 30.8 | 157 | 41.3 | 34.5 | 171 | 41.8 | 31.9 | 148 | 45.0 | 26.0 | 142 | 47.1 | 31.3 | 159 |
| Gharbia ... | 43.9 | 36.3 | 127 | 39.1 | 32.9 | 146 | 39.7 | 28.2 | 137 | 41.6 | 24.9 | 129 | 43.4 | 29.4 | 137 |
| Menoufia ... | 44.4 | 29.3 | 155 | 38.9 | 29.7 | 195 | 40.6 | 30.4 | 165 | 39.6 | 30.6 | 171 | 40.9 | 31.2 | 164 |
| Qaliubia ... | 44.5 | 30.3 | 160 | 41.8 | 33.5 | 119 | 44.8 | 29.5 | 162 | 43.6 | 29.4 | 163 | 47.7 | 30.4 | 100 |
| Sharkia ... | 41.1 | 26.6 | 136 | 40.1 | 27.3 | 136 | 40.9 | 25.8 | 126 | 41.2 | 26.2 | 111 | 42.8 | 28.1 | 125 |
| Aswan ... | 35.1 | 24.3 | 133 | 30.8 | 34.1 | 157 | 20.3 | 47.1 | 215 | 18.6 | 30.1 | 143 | 40.0 | 19.5 | 102 |
| Assiut ... | 41.0 | 25.9 | 154 | 37.7 | 28.1 | 166 | 36.2 | 25.6 | 148 | 36.6 | 24.7 | 139 | 39.4 | 30.9 | 140 |
| Beni-Suef ... | 37.1 | 19.7 | 119 | 34.9 | 23.2 | 144 | 35.9 | 22.7 | 138 | 35.8 | 20.9 | 125 | 34.8 | 27.5 | 142 |
| Rayoum ... | 41.8 | 28.1 | 202 | 40.5 | 28.7 | 196 | 40.1 | 27.9 | 189 | 40.0 | 30.1 | 191 | 41.5 | 29.3 | 187 |
| Gerga ... | 39.4 | 21.9 | 117 | 34.8 | 23.0 | 122 | 33.1 | 22.3 | 114 | 33.7 | 18.6 | 93 | 34.3 | 19.1 | 89 |
| Giza ... | 45.4 | 27.8 | 158 | 42.6 | 33.5 | 196 | 44.5 | 31.6 | 172 | 46.1 | 29.2 | 168 | 48.9 | 31.3 | 163 |
| Minia ... | 40.0 | 23.6 | 160 | 36.6 | 25.4 | 169 | 37.6 | 25.6 | 165 | 38.3 | 25.9 | 157 | 40.6 | 34.6 | 170 |
| Qena ... | 31.2 | 17.2 | 117 | 27.6 | 16.9 | 110 | 27.5 | 21.9 | 95 | 22.0 | 23.8 | 105 | 32.5 | 14.8 | 77 |
| TOTAL ... | 40.8 | 25.9 | 150 | 38.2 | 28.7 | 167 | 39.6 | 28.3 | 160 | 41.0 | 26.8 | 152 | 43.9 | 28.6 | 153 |

TABLE No. 6 a—BIRTH, DEATH AND INFANTILE MORTALITY RATES BY GOVERNORATES AND PROVINCES (contd.)

| Localities | 1946 | | | 1947 | | | 1948 | | | 1949 | | | 1950 | | |
|------------------------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|
| | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. | Birth | Death | Inf. M. |
| Cairo ... | 61.9 | 34.3 | 200 | 47.5 | 21.0 | 172 | 46.8 | 24.7 | 199 | 47.8 | 23.1 | 184 | 50.5 | 22.0 | 181 |
| Alexandria ... | 66.6 | 25.9 | 187 | 49.8 | 24.1 | 192 | 50.7 | 21.4 | 175 | 50.2 | 23.3 | 184 | 52.9 | 21.7 | 174 |
| Ismailia ... | 71.2 | 35.0 | 162 | 74.9 | 38.0 | 151 | 70.9 | 23.1 | 160 | 63.5 | 26.7 | 149 | 59.5 | 21.4 | 131 |
| Port Said ... | 51.1 | 22.7 | 159 | 48.1 | 17.7 | 129 | 43.1 | 19.1 | 138 | 47.4 | 18.1 | 133 | 45.0 | 19.4 | 159 |
| Damietta ... | 52.1 | 20.2 | 136 | 52.1 | 20.5 | 131 | 50.3 | 17.8 | 109 | 47.3 | 18.4 | 137 | 50.2 | 17.3 | 134 |
| Suez ... | 92.4 | 54.2 | 210 | 53.1 | 24.2 | 178 | 55.1 | 27.2 | 187 | 56.4 | 27.3 | 178 | 64.4 | 26.0 | 177 |
| GOVERNORATES | — | — | — | — | — | — | — | — | — | — | — | — | 51.6 | 23.5 | 175 |
| Frontier Districts ... | 50.0 | 23.9 | 155 | 42.8 | 15.9 | 119 | 39.3 | 15.8 | 136 | 42.3 | 15.4 | 122 | 42.6 | 14.4 | 123 |
| Behera ... | 40.6 | 21.3 | 97 | 40.0 | 20.8 | 111 | 39.7 | 16.6 | 98 | 38.3 | 16.8 | 98 | 40.9 | 15.2 | 20 |
| Dakahlia ... | 45.5 | 26.5 | 135 | 47.3 | 27.1 | 123 | 47.7 | 22.0 | 136 | 46.2 | 22.6 | 131 | 48.4 | 19.5 | 115 |
| Fouadia ... | — | — | — | — | — | — | — | — | — | — | — | — | 41.9 | 13.6 | 77 |
| Gharbia ... | 43.7 | 25.1 | 119 | 43.7 | 24.7 | 108 | 44.6 | 19.5 | 122 | 44.1 | 19.9 | 113 | 49.5 | 19.6 | 110 |
| Menoufia ... | 39.2 | 30.5 | 175 | 47.7 | 28.0 | 142 | 46.7 | 26.4 | 164 | 45.1 | 23.3 | 164 | 48.3 | 23.5 | 138 |
| Qalubia ... | 46.1 | 30.3 | 146 | 49.6 | 25.4 | 133 | 48.9 | 27.3 | 166 | 46.5 | 25.1 | 151 | 50.0 | 22.7 | 135 |
| Sharkia ... | 42.0 | 25.7 | 120 | 38.7 | 23.6 | 115 | 41.9 | 21.0 | 124 | 40.4 | 20.6 | 120 | 44.1 | 17.7 | 101 |
| LOWER EGYPT | — | — | — | — | — | — | — | — | — | — | — | — | 46.3 | 18.9 | 111 |
| Aswan ... | 33.7 | 16.5 | 110 | 39.6 | 18.1 | 111 | 36.1 | 16.9 | 116 | 52.1 | 16.6 | 78 | 38.7 | 18.9 | 122 |
| Assiut ... | 38.3 | 26.2 | 129 | 40.1 | 18.4 | 118 | 38.0 | 18.7 | 113 | 37.0 | 19.7 | 122 | 38.6 | 19.2 | 125 |
| Beni-Suef ... | 37.7 | 21.4 | 107 | 42.4 | 18.6 | 100 | 39.4 | 18.0 | 111 | 37.7 | 19.2 | 124 | 40.3 | 16.7 | 110 |
| Fayoum ... | 38.8 | 28.3 | 166 | 47.1 | 22.2 | 139 | 40.6 | 23.8 | 152 | 41.3 | 24.3 | 160 | 45.0 | 23.4 | 161 |
| Gerga ... | 32.1 | 19.9 | 93 | 36.1 | 13.1 | 73 | 32.7 | 13.6 | 79 | 30.2 | 14.4 | 77 | 33.5 | 15.1 | 101 |
| Giza ... | 45.2 | 33.7 | 175 | 53.1 | 24.1 | 136 | 46.8 | 24.1 | 157 | 43.4 | 23.7 | 148 | 49.1 | 23.2 | 153 |
| Minia ... | 35.2 | 25.9 | 132 | 44.3 | 17.8 | 113 | 41.4 | 19.4 | 128 | 40.3 | 19.8 | 130 | 41.6 | 20.2 | 133 |
| Qena ... | 29.7 | 15.8 | 90 | 32.1 | 11.9 | 91 | 28.7 | 11.8 | 91 | 28.7 | 11.8 | 82 | 29.0 | 11.4 | 98 |
| UPPER EGYPT | — | — | — | — | — | — | — | — | — | — | — | — | 38.7 | 18.1 | 126 |
| TOTAL | 42.6 | 25.8 | 141 | 43.5 | 21.3 | 127 | 42.5 | 20.3 | 139 | 41.9 | 20.6 | 135 | 44.4 | 19.1 | 130 |

TABLE No. 7.—BIRTHS, DEATHS, INFANTILE MORTALITY AND RATES
BY GOVERNORATES AND PROVINCES, EGYPT, 1950

| Localities | Births | Birth-rate per 1000 pop. | Deaths | Death-rate per 1000 pop. | Infantile Mortality | Inf. M. rate per 1000 births |
|---------------------------|---------|-----------------------------|---------|-----------------------------|------------------------|------------------------------------|
| Cairo | 113,028 | 50·5 | 49,154 | 22·0 | 20,404 | 181 |
| Alexandria | 53,170 | 52·9 | 21,829 | 21·7 | 9,267 | 174 |
| Ismailia | 8,329 | 59·5 | 3,000 | 21·4 | 1,088 | 131 |
| Port-Saïd | 8,806 | 45·0 | 3,789 | 19·4 | 1,403 | 159 |
| Damietta | 2,975 | 50·2 | 1,026 | 17·3 | 398 | 134 |
| Suez | 7,622 | 64·4 | 3,079 | 26·0 | 1,347 | 177 |
| GOVERNORATES | 193,930 | 51·6 | 81,877 | 23·5 | 33,907 | 175 |
| Frontier Districts | 7,475 | 42·6 | 2,524 | 14·4 | 921 | 123 |
| Behera | 54,750 | 40·9 | 20,362 | 15·2 | 4,922 | 90 |
| Dakahlia | 73,928 | 48·4 | 29,766 | 19·5 | 8,485 | 115 |
| Fouadia | 33,880 | 41·9 | 10,910 | 13·5 | 2,613 | 77 |
| Gharbia | 84,491 | 49·5 | 33,497 | 19·6 | 9,263 | 110 |
| Menoufia | 60,102 | 48·3 | 29,216 | 23·5 | 8,294 | 138 |
| Qaliubia | 37,513 | 50·0 | 17,031 | 22·7 | 5,094 | 136 |
| Sharkia | 60,419 | 44·1 | 24,293 | 17·7 | 6,129 | 101 |
| LOWER EGYPT | 405,083 | 46·3 | 165,075 | 18·9 | 44,800 | 111 |
| Aswan | 11,954 | 38·7 | 5,844 | 18·9 | 1,461 | 122 |
| Assiut | 56,471 | 38·6 | 28,029 | 19·2 | 7,079 | 125 |
| Beni Suef | 26,422 | 40·3 | 10,937 | 16·7 | 2,903 | 110 |
| Fayoum | 32,120 | 45·0 | 16,690 | 23·4 | 5,176 | 161 |
| Gerga | 45,725 | 33·5 | 20,645 | 15·1 | 4,599 | 101 |
| Giza | 44,982 | 49·1 | 21,225 | 23·2 | 6,865 | 153 |
| Minia | 46,740 | 41·6 | 22,708 | 20·2 | 6,225 | 133 |
| Qena | 34,039 | 29·0 | 13,390 | 11·4 | 3,347 | 98 |
| UPPER EGYPT | 298,453 | 38·7 | 139,468 | 18·1 | 37,655 | 126 |
| TOTAL | 904,941 | 44·4 | 388,944 | 19·1 | 117,283 | 130 |

TABLE NO. 8.—DEATHS BY AGE AND SEX AND RATES, 1950

| Age | Males | Rate per 1,000 | Females | Rate per 1,000 | TOTAL | Rate per 1,000 | Male rates per cent | Female rates per cent | Total Rates per cent |
|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------------------------|-----------------------------|----------------------------|
| 0-1 Year ... | — | — | — | — | — | — | 30·0 | 30·3 | 30·2 |
| 1-4 Years... | 115,673 | 83·9 | 105,147 | 75·1 | 220,820 | 79·5 | — | — | |
| | — | — | — | — | — | — | 25·8 | 27·5 | 26·6 |
| 5-9 „ ... | 5,525 | 4·2 | 4,212 | 3·3 | 9,737 | 31·8 | 2·7 | 2·3 | 2·5 |
| 10-14 „ ... | 4,092 | 3·3 | 2,680 | 2·3 | 6,772 | 2·8 | 2·0 | 1·5 | 1·7 |
| 15-19 „ ... | 3,502 | 3·3 | 2,173 | 2·2 | 5,673 | 2·8 | 1·7 | 1·2 | 1·5 |
| 20-24 „ ... | 3,514 | 4·8 | 2,139 | 2·8 | 5,653 | 3·8 | 1·7 | 1·2 | 1·5 |
| 25-29 „ ... | 3,912 | 5·3 | 3,114 | 3·7 | 7,026 | 4·4 | 1·9 | 1·7 | 1·8 |
| 30-34 „ ... | 4,076 | 6·1 | 3,542 | 4·8 | 7,618 | 5·4 | 3·0 | 1·9 | 2·0 |
| 35-39 „ ... | 4,598 | 6·5 | 3,238 | 4·6 | 7,836 | 5·6 | 2·2 | 1·8 | 2·0 |
| 40-44 „ ... | 5,083 | 8·3 | 3,457 | 5·7 | 8,540 | 7·0 | 2·5 | 1·9 | 2·2 |
| 45-49 „ ... | 4,414 | 9·6 | 2,384 | 5·4 | 6,798 | 7·5 | 2·1 | 1·3 | 1·7 |
| 50-54 „ ... | 6,892 | 15·2 | 4,463 | 9·3 | 11,355 | 12·1 | 3·3 | 2·5 | 2·9 |
| 55-59 „ ... | 3,278 | 17·8 | 1,544 | 8·3 | 4,822 | 13·0 | 1·6 | 0·8 | 1·3 |
| 60-64 „ ... | 7,000 | 25·8 | 4,628 | 14·4 | 11,628 | 19·6 | 3·4 | 2·5 | 3·0 |
| 65-69 „ ... | 4,449 | 49·3 | 2,743 | 31·1 | 7,192 | 40·3 | 2·1 | 1·5 | 1·8 |
| 70-74 „ ... | 7,722 | 66·5 | 6,363 | 43·4 | 14,085 | 53·6 | 2·7 | 3·5 | 3·6 |
| 75-79 „ ... | 3,582 | 141·6 | 2,857 | 110·7 | 6,439 | 126·0 | 1·7 | 1·6 | 1·7 |
| 80-84 „ ... | 6,854 | 182·8 | 8,227 | 145·6 | 15,081 | 160·4 | 3·3 | 4·5 | 3·9 |
| 85 Years and Over | 12,151 | 653·3 | 18,293 | 725·9 | 30,444 | 695·1 | 5·9 | 10·1 | 7·8 |
| Not Stated ... | 847 | 31·3 | 576 | 16·1 | 1,423 | 22·7 | 0·4 | 0·3 | 0·4 |
| TOTAL ... | 207,164 | 20·5 | 181,780 | 17·7 | 388,944 | 19·1 | 100·0 | 100·0 | 100·0 |

TABLE No. 9.— INFANTILE MORTALITY AND RATES BY CAUSES OF DEATH IN LOCALITIES HAVING HEALTH BUREAUS, 1941-1950

| Diseases of Infancy | Mortality | | | | | | | | | | Rates per 1000 Live Births | | | | | | | | | |
|--|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 |
| Measles | 228 | 395 | 99 | 262 | 151 | 360 | 200 | 338 | 314 | 76 | 1.0 | 1.6 | 0.4 | 0.9 | 0.5 | 1.1 | 0.6 | 0.9 | 0.8 | 0.2 |
| Whooping Cough ... | 22 | 28 | 43 | 32 | 28 | 13 | 18 | 11 | 21 | 22 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.04 | 0.1 | 0.03 | 0.1 | 0.1 |
| Diphtheria | 70 | 68 | 81 | 59 | 85 | 59 | 57 | 67 | 55 | 39 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 |
| Tuberculous Diseases | 5 | 13 | 19 | 24 | 11 | 23 | 14 | 18 | 20 | 20 | 0.02 | 0.1 | 0.1 | 0.1 | 0.03 | 0.1 | 0.04 | 0.1 | 0.1 | 0.1 |
| Syphilis | 161 | 150 | 234 | 165 | 130 | 135 | 121 | 147 | 131 | 154 | 0.7 | 0.6 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 |
| Rickets and Osteo- malacia | 189 | 189 | 183 | 180 | 176 | 128 | 132 | 221 | 165 | 145 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 0.6 | 0.4 | 0.4 |
| Convulsions | 173 | 198 | 200 | 252 | 213 | 134 | 98 | 80 | 70 | — | 0.7 | 0.8 | 0.7 | 0.8 | 0.7 | 0.4 | 0.3 | 0.2 | 0.2 | — |
| Bronchitis | 3,195 | 3,636 | 3,522 | 3,705 | 4,211 | 3,742 | 3,947 | 5,574 | 4,768 | 4,758 | 13.8 | 14.9 | 13.0 | 12.4 | 13.1 | 11.4 | 11.2 | 15.4 | 12.8 | 11.7 |
| Broncho-Pneumonia | 794 | 936 | 1,036 | 1,095 | 959 | 1,145 | 950 | 874 | 1,095 | 1,185 | 3.4 | 3.8 | 3.8 | 3.7 | 3.0 | 3.5 | 2.7 | 2.4 | 2.9 | 2.9 |
| Pneumonia | 200 | 277 | 301 | 347 | 393 | 497 | 536 | 606 | 621 | 780 | 0.9 | 1.1 | 1.1 | 1.2 | 1.2 | 1.5 | 1.5 | 1.7 | 1.7 | 1.9 |
| Diarrhoea and En- teritis | 25,325 | 31,099 | 33,230 | 33,647 | 37,173 | 34,086 | 33,030 | 32,460 | 35,083 | 37,583 | 109.0 | 127.6 | 122.7 | 112.6 | 115.2 | 104.2 | 93.8 | 89.6 | 94.4 | 92.5 |
| Congenital Defects of Conformation... | 73 | 81 | 78 | 137 | 199 | 150 | 91 | 164 | 64 | 122 | 0.3 | 0.3 | 0.3 | 0.5 | 0.6 | 0.5 | 0.3 | 0.5 | 0.2 | 0.3 |
| Congenital Debility | 13,007 | 14,773 | 16,895 | 17,881 | 20,318 | 18,786 | 18,191 | 21,344 | 20,902 | 22,779 | 56.0 | 60.6 | 62.4 | 59.6 | 63.0 | 57.4 | 51.5 | 58.9 | 56.3 | 56.1 |
| Premature Birth ... | 165 | 168 | 195 | 151 | 138 | 167 | 123 | 152 | 168 | 236 | 0.7 | 0.7 | 0.7 | 0.5 | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.6 |
| Consequences of Delivery | 66 | 47 | 80 | 74 | 113 | 132 | 138 | 115 | 140 | 207 | 0.3 | 0.2 | 0.3 | 0.2 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.5 |
| Infanticide | 168 | 161 | 126 | 119 | 86 | 100 | 72 | 82 | 60 | 80 | 0.7 | 0.7 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Accidents | 152 | 109 | 96 | 122 | 113 | 88 | 109 | 59 | 100 | 83 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 |
| Other Causes | 1,546 | 1,585 | 1,841 | 1,983 | 1,909 | 1,475 | 1,553 | 1,205 | 1,137 | 1,177 | 6.7 | 6.5 | 6.8 | 6.6 | 5.9 | 4.5 | 4.4 | 3.3 | 3.1 | 2.9 |
| TOTAL | 45,539 | 53,913 | 58,259 | 60,235 | 66,396 | 61,220 | 59,380 | 63,516 | 64,914 | 69,446 | 196.0 | 221.3 | 215.1 | 201.6 | 203.8 | 187.1 | 168.1 | 175.1 | 174.7 | 170.9 |

TABLE No. 10.—INFANTILE MORTALITY BY AGE AND CAUSE IN LOCALITIES HAVING HEALTH BUREAUS, 1950.

| Causes of Death | Days | | | | | | | | | | | | Months | | | | | | | | | | | TOTAL |
|------------------------------------|------|-------|-----|-------|-----|-----|-----|-------|-------|-------|-----|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 14 | 21 | 28 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| Measles | — | — | — | — | — | — | — | — | — | — | — | 1 | 2 | 3 | 1 | 5 | 6 | 15 | 9 | 10 | 15 | 9 | 76 | |
| Whooping Cough | — | — | — | — | — | — | — | — | 1 | — | — | 4 | 3 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 22 | |
| Diphtheria | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 2 | 1 | 3 | 2 | 7 | 5 | 13 | 5 | 39 | |
| Tuberculous Diseases | 2 | — | — | — | — | — | — | — | — | — | — | 2 | — | 2 | 1 | 1 | 4 | — | 2 | 4 | — | 2 | 20 | |
| Syphilis | 6 | 19 | 8 | 3 | 5 | 5 | 4 | 13 | 13 | 5 | 1 | 15 | 3 | 6 | 5 | 8 | 5 | 9 | 9 | 8 | 3 | 1 | 154 | |
| Rickets and Osteomalacia | — | — | 1 | — | — | — | — | — | 2 | 1 | — | 5 | 7 | 10 | 10 | 5 | 22 | 13 | 29 | 19 | 11 | 10 | 145 | |
| Convulsions | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0 | |
| Bronchitis | 3 | 7 | 6 | 6 | 6 | 14 | 7 | 54 | 48 | 29 | 1 | 269 | 348 | 496 | 468 | 447 | 559 | 462 | 522 | 397 | 355 | 254 | 4,758 | |
| Broncho-Pneumonia | 2 | 1 | 1 | 5 | 2 | 4 | 1 | 12 | 20 | 7 | 2 | 76 | 85 | 95 | 83 | 110 | 145 | 117 | 135 | 122 | 91 | 69 | 1,185 | |
| Pneumonia | 9 | 9 | 9 | 8 | 9 | 4 | 4 | 15 | 20 | 6 | 1 | 62 | 41 | 66 | 64 | 58 | 93 | 81 | 73 | 62 | 52 | 34 | 780 | |
| Diarrhoea and Enteritis | 10 | 19 | 20 | 37 | 31 | 32 | 39 | 244 | 279 | 165 | 21 | 1,875 | 2,698 | 3,696 | 4,160 | 3,971 | 4,732 | 3,584 | 4,221 | 3,099 | 2,810 | 1,840 | 37,593 | |
| Congenital Defects of Conformation | 20 | 11 | 8 | 3 | 4 | 6 | 2 | 8 | 3 | — | — | 8 | 1 | 6 | 5 | 3 | 2 | 8 | 2 | 14 | 6 | 2 | 122 | |
| Congenital Debility | 536 | 1,156 | 848 | 922 | 723 | 765 | 689 | 3,207 | 2,076 | 976 | 147 | 3,081 | 2,508 | 1,838 | 1,154 | 615 | 450 | 283 | 282 | 233 | 196 | 91 | 22,779 | |
| Premature Birth | 44 | 53 | 32 | 15 | 10 | 14 | 6 | 30 | 9 | 3 | 0 | 6 | 4 | 2 | — | — | 1 | 3 | 3 | 1 | — | — | 236 | |
| Consequences of Delivery | 62 | 47 | 21 | 13 | 8 | 5 | 4 | 6 | 3 | 2 | — | 2 | — | 1 | — | — | — | 3 | 3 | 26 | — | 1 | 207 | |
| Infanticide | 68 | 5 | — | 2 | — | 1 | — | — | — | — | — | 1 | — | 1 | 2 | — | — | — | — | — | — | — | 80 | |
| Accidents | 1 | — | 1 | — | 1 | — | — | — | — | — | — | 4 | 5 | 7 | 8 | 10 | 11 | 3 | 12 | 9 | 7 | 4 | 83 | |
| Other causes | 33 | 28 | 18 | 8 | 10 | 11 | 16 | 63 | 27 | 24 | 2 | 90 | 94 | 76 | 83 | 79 | 142 | 82 | 105 | 82 | 76 | 28 | 1,177 | |
| TOTAL | 796 | 1,355 | 913 | 1,022 | 809 | 861 | 712 | 3,652 | 2,501 | 1,218 | 175 | 5,594 | 7,906 | 6,306 | 6,047 | 5,314 | 6,177 | 4,667 | 5,417 | 4,693 | 3,636 | 2,351 | 69,416 | |

TABLE No. 11.—STILL-BIRTHS AND RATES PER 1,000 TOTAL BIRTHS BY SEX

| Localities | Still-Births | | | Still-Birth-rates per 1,000 | | |
|---------------------------|--------------|---------|-------|-----------------------------|---------|-------|
| | Males | Females | TOTAL | Males | Females | TOTAL |
| Cairo | 1046 | 755 | 1,801 | 17.7 | 13.6 | 15.7 |
| Alexandria | 554 | 438 | 992 | 20.0 | 16.5 | 18.3 |
| Ismailia | 41 | 27 | 68 | 9.3 | 6.7 | 8.1 |
| Port-Said | 151 | 113 | 264 | 32.6 | 25.5 | 29.1 |
| Damietta | 55 | 31 | 86 | 35.8 | 20.3 | 28.1 |
| Suez | 53 | 34 | 87 | 13.2 | 9.2 | 11.3 |
| GOVERNORATES | 1,900 | 1,398 | 3,298 | 18.3 | 14.6 | 16.7 |
| Frontier Districts | 1 | 2 | 3 | 0.3 | 0.5 | 0.4 |
| Behera | 66 | 47 | 113 | 2.3 | 1.8 | 2.0 |
| Dakahlia | 234 | 170 | 404 | 6.1 | 4.7 | 5.4 |
| Fouadia | 75 | 53 | 128 | 4.2 | 3.3 | 3.8 |
| Menoufia | 183 | 122 | 305 | 5.8 | 2.2 | 5.0 |
| Gharbia | 238 | 115 | 353 | 5.5 | 2.8 | 4.2 |
| Qaliubia | 87 | 73 | 160 | 4.5 | 4.0 | 4.2 |
| Sharkia | 123 | 78 | 201 | 3.8 | 2.7 | 3.3 |
| LOWER EGYPT | 1,006 | 658 | 1,664 | 4.8 | 3.3 | 4.1 |
| Aswan | 21 | 20 | 41 | 3.3 | 3.5 | 3.4 |
| Assiut | 106 | 69 | 175 | 3.5 | 2.6 | 3.1 |
| Beni Suef | 91 | 75 | 166 | 6.5 | 6.0 | 6.2 |
| Fayoum | 109 | 71 | 180 | 6.4 | 4.6 | 5.6 |
| Gerga | 93 | 57 | 150 | 3.6 | 2.9 | 3.5 |
| Giza | 172 | 137 | 309 | 7.3 | 6.3 | 6.8 |
| Minia | 123 | 62 | 185 | 5.1 | 2.7 | 3.9 |
| Qena | 60 | 25 | 85 | 3.1 | 1.7 | 2.5 |
| UPPER EGYPT | 775 | 516 | 1,291 | 4.8 | 3.7 | 4.3 |
| TOTAL | 3,682 | 2,514 | 6,256 | 7.7 | 5.9 | 6.9 |

Chapter II.—Infectious Diseases

A total of 50,654 cases of infectious diseases with 11,749 deaths were reported throughout Egypt during 1950, or a case-rate of 248 and a death-rate of 58 per 100,000 of the population as compared with 54,937 cases and 13,730 deaths reported during the previous year or a case-rate of 275 and a death-rate of 69 per 100,000 of the population.

The outstanding features of the incidence of infectious diseases were :-

- (a) The spread of Cerebro Spinal Fever in an epidemic form.
- (b) An apparent drop in the incidence of Measles.
- (c) An increase in the incidence of Influenza (vide tables Nos. 18-21).

The following is a brief study of the more important diseases.

Cerebro Spinal Fever :

Perusal of the incidence of cerebro spinal fever in Egypt since 1912 shows that three epidemic waves have taken place :-

The first wave began in 1913 and lasted until 1916.

The second began in 1931 and ended in 1934.

The third began in 1950.

One can say from this follow up that the disease spreads in an epidemic form after a period of 14 quiescent years and that each epidemic lasts about four years and reaches its peak in the second year.

1950 Epidemic :

The epidemic wave began in December 1949, continued its upward trend until it reached its peak between 12th and the 25th of March 1950, and thence began its decline. (table No. 18). During the year, 2,521 cases with 401 deaths were recorded or a case-rate of 12.4 and a death-rate of 2 per 100,000 of the population. The case mortality rate was 15.9%. 63.8% of the cases were males. The case mortality rate was 13.7% for males and 11.1% for females.

The following are the case rates per 100,000 of population for the different age groups :

| Age : | ... | ... | ... | 0-1 | 1-5 | 5-15 | 15-25 | 25-45 | 45-65 | over 65 |
|--------|-----|-----|-----|-----|------|------|-------|-------|-------|---------|
| Rate : | ... | ... | ... | 0.6 | 22.1 | 15.4 | 18. | 5. | 2.8 | 0.3 |

It will be observed that the highest rate was in the 1-5 years age group and that a marked drop occurred after the 25th year of age.

Geographical Distribution :

Most of the cases were recorded in Cairo, Alexandria, Port-Said and Suez where 72.4% of the total cases reported throughout Egypt were recorded. Since the population of the four cities represent 17.4% of the whole population of Egypt, it is clear that the incidence of cerebro spinal fever is highest in the larger cities. This may be attributed to the prevalence of cinemas, places of amusement, schools, etc where many people congregate, as may be demonstrated by the following table No. 12 which gives the incidence during 1950 for every province as a whole and the chief town of each province :

TABLE No. 12

| Province | No. of Cases | Rate per 100,000 of Pop. | Chief Town of Province | No. of Cases | Rate per 100,000 of Pop. |
|------------------|--------------|--------------------------|------------------------|--------------|--------------------------|
| Behera... .. | 62 | 4.6 | Damanhour | 7 | 7.5 |
| Dakahlia | 50 | 3.3 | Mansoura | 10 | 9.0 |
| Gharbia | 148 | 8.7 | Tanta | 34 | 24.2 |
| Fouadia | 5 | 0.6 | Kafer el Sheikh ... | 2 | 11.3 |
| Menoufia | 22 | 1.8 | Shebin el Kom ... | 7 | 15.7 |
| Qaliubia | 45 | 6.0 | Benha | 5 | 12.7 |
| Sharkia | 76 | 5.5 | Zagazig | 33 | 36.7 |
| Aswan | 10 | 3.2 | Aswan | 2 | 7.4 |
| Assiut | 70 | 4.8 | Assiut | 9 | 9.5 |
| Beni Suef | 7 | 1.1 | Beni Suef | 3 | 4.9 |
| Fayoum | 4 | 0.6 | Fayoum | 2 Deaths | — |
| Gerga | 42 | 3.1 | Souhag | 6 | 12.9 |
| Giza | 99 | 10.8 | Giza... .. | 51 | 63.6 |
| Minia | 16 | 1.4 | Minia | 2 | 2.8 |
| Qena | 6 | 0.5 | Qena | 4 | 8.7 |

Perhaps the accurate notification of infectious diseases in urban towns contributed towards the high rates therein.

The average case rate in Lower Egypt provinces was 4.7 per 100,000 of population as compared with a rate of 3.3 per 100,000 of population in Upper Egypt provinces despite the high rate recorded in Giza province which may be considered as a suburb of Cairo City.

Measures taken in connection with the 1950 Epidemic.

A. Special Measures :

1. *Patients :* Patients were isolated in fever hospitals following notification or detection. Examining medical officers used to give patients the necessary injections or sulpha tablets on mere suspicion and before isolation. The hospital was notified of the amount and type of the dose given to the patient.

2. *Contacts.*—Adult direct contacts were given a daily dose of 2.5 grms. of any sulpha compound for three days. Where contacts suffered from sore throat, the dose was increased to 3 grms. given on three or four intervals. The dose was reduced according to age. In factories, prisons, schools, etc. contacts of the same room were dealt with as direct contacts. Other contacts in the establishment were given one dose only.

Treating medical officers and nursing staff were given a weekly dose of 2.5 grms. Persons accompanying patients in isolation were considered as contacts and given the prophylactic sulpha doses.

Visits to cerebro spinal fever patients were forbidden during the first week only.

3. *Disinfection.*—Usual disinfection was applied coupled with ventilation, cleanliness and exposure of beddings to air and sun.

4. *Observation.*—Contacts were kept under observation for seven days.

B. General Measures :

Prohibition of crowdedness and effecting ventilation and cleanliness in :

- 1.—All means of transport.
- 2.—Places of entertainment and cinemas, with half hour intervals for complete ventilation and operation of air conditioning apparatus if present.
- 3.—Government and private congregations, e.g. prisons, auxiliary police force, infirmaries, schools and army forces. Sleeping in dormitories or wards was arranged in such a way as to increase the distance between the heads of sleepers by arranging beds so as to be alternately head and foot to the wall.

Measures taken following the decline of the epidemic wave :

Sulpha was administered to the following categories as a prophylaxis before the 1951 epidemic season :

- 1.—Recovered cases of the preceding season and their contacts throughout Egypt. A large scale survey of contacts was carried out.
- 2.—Inhabitants of squares, streets and lanes of towns and villages where numerous cases occurred in 1950. This measure was applied throughout the country.
- 3.—Controllable congregations, namely factories with over 50 workmen, general and district prisons, infirmaries, auxiliary police force, army units and school pupils in Lower Egypt. In Upper Egypt, sulpha was administered to congregations in such towns where cases occurred.

The dose for adults was five tablets given at a time.

For children, the dose was given according to age.

In hospitals sulpha was given to patients suffering from sore throat or catarrh.

The above was done on three occasions : the first in October, the second in November and the third in December of 1950.

A total of 15 million tablets costing 80 thousand Egyptian pounds were distributed on the three occasions. More than a million persons received the drug on each occasion exclusive of armed forces.

Typhus :

105 cases of typhus with 16 deaths were recorded during the year or a case-rate of 0.5 and a death-rate of 0.08 per 100,000 of population and a case mortality rate of 15% as compared with 180 cases with 53 deaths in 1949 or a case-rate of 0.9 and a death-rate of 0.3 per 100,000 of population and a case mortality rate of 29%.

The highest case rate of 6.3 per 100,000 of population was recorded in the Frontiers Districts. More cases than in 1949 were recorded in Cairo, Damietta, the Frontiers Districts and Sharkia.

In the other localities there were fewer cases (Tables Nos. 18—21).

Measles :

Some 3,068 cases with 598 deaths were recorded throughout Egypt during the year or a case-rate of 15 and a death-rate of 2.9 per 100,000 of population and a case mortality rate of 19.5% as against 11,311 cases with 2,603 deaths or rates of 56.7 and 13 per 100,000 of population and 23% respectively in the previous year.

Persual of table No. 19 which gives the case-rates in the ten years 1941—1950 shows high rates during 1941 and 1942 followed by a low incidence lasting six years and again a high rate in 1949 which was not maintained during the succeeding year. This fluctuation may be attributed to the well known fact that notification of measles is far from accurate.

Nevertheless, one can see from the following table which gives the figures for Cairo and Alexandria, where notification is more accurate than elsewhere, that the disease has a biennial outburst which may sometimes last for two years as in the case of Cairo and Alexandria during 1948 and 1949.

TABLE NO. 13.—NUMBER OF CASES

| Year | Cairo | Alexandria | Year | Cairo | Alexandria |
|------|-------|------------|------|-------|------------|
| 1940 | 1,369 | 669 | 1945 | 506 | 765 |
| 1941 | 762 | 1,272 | 1946 | 1,635 | 138 |
| 1942 | 1,721 | 134 | 1947 | 996 | 2,389 |
| 1943 | 271 | 576 | 1948 | 1,988 | 694 |
| 1944 | 1,336 | 325 | 1949 | 1,815 | 3,631 |
| | | | 1950 | 586 | 1,180 |

It will be observed from the following table No. 14 which gives the four weekly distribution of cases in Cairo and Alexandria during 1950 that the disease had two peaks one during June and July and the other during December :

TABLE NO. 14.—FOUR WEEKLY DISTRIBUTION OF CASES

| Weeks | Cairo | Alexandria | Weeks | Cairo | Alexandria |
|-------|-------|------------|-------|-------|------------|
| 1-4 | 6 | 1 | 25-28 | 106 | 167 |
| 5-8 | 4 | 5 | 29-32 | 70 | 108 |
| 9-12 | 12 | 12 | 33-36 | 58 | 110 |
| 13-16 | 29 | 33 | 37-40 | 33 | 80 |
| 17-20 | 50 | 81 | 41-44 | 14 | 51 |
| 21-24 | 82 | 154 | 45-48 | 37 | 75 |
| | | | 49-52 | 85 | 303 |

It is believed that complications of measles are responsible for a large proportion of infantile deaths, and that early detection and treatment of cases would substantially reduce infantile mortality.

Plague :

No cases of Plague were reported since 1948.

Small Pox :

Nine cases of small pox were reported during the year. Of these, six were imported: 5 Indians arriving at Suez and a Chinese arriving at Quseir on board vessels. Of the remaining three cases, one, a dancer, occurred in Mousky district in Cairo, another, a workman, in Manfalout and a third, a farmer, at Fareskour. The arrival of the 6 imported cases did not cause alarm of a possible spread of the disease in view of the four yearly general vaccination of the whole population which had been introduced in 1945,

Diphtheria :

1,389 cases with 597 deaths were recorded during the year or a case-rate of 6.8 and a death-rate of 2.9 per 100,000 of population and a case mortality rate of 43% as compared with 1,683 cases with 603 deaths or rates of 8.4, 3.4 and 35.8% respectively during 1949.

The following table No. 15 gives the case and death rates in Cairo, Alexandria, the chief towns in governorates and other localities.

TABLE No. 15

| Year | Cairo | | Alexandria | | Chief towns of Govtes and Prov. | | Other rural localities | |
|----------------|-----------|------------|------------|------------|---------------------------------|------------|------------------------|------------|
| | Case rate | Death rate | Case rate | Death rate | Case rate | Death rate | Case rate | Death rate |
| 1941—45 | 125.6 | 37.6 | 36.3 | 20.8 | 40.9 | 23.3 | 7.1 | 4.5 |
| 1946 | 64.7 | 13.2 | 39.0 | 10.0 | 18.6 | 11.6 | 3.7 | 2.8 |
| 1947 | 47.3 | 8.2 | 33.0 | 7.6 | 12.7 | 7.4 | 2.4 | 3.7 |
| 1948 | 44.7 | 8.8 | 23.5 | 5.3 | 16.7 | 7.9 | 2.9 | 2.1 |
| 1949 | 37.3 | 7.0 | 19.6 | 5.4 | 22.9 | 7.4 | 3.5 | 1.9 |
| 1950 | 24.1 | 5.0 | 25.6 | 7.2 | 13.3 | 6.2 | 2.6 | 2.0 |

This table shows that the incidence of the disease is greater in urban towns than in rural areas and that the larger the town, the higher is the case rate. It also shows that, except in Alexandria, the incidence of the disease is on the decline. This may be attributed to the increasing number of immunised persons year after year.

Survey of the monthly incidence of the disease shows that the highest incidence occurred during October and November and the lowest in May. Most of the deaths from diphtheria occur during the second year of life.

It is very rare after the fifth year.

Typhoid and Paratyphoid :

During the year, 7,886 cases with 836 deaths were recorded or a case rate of 38.7 and a death-rate of 4.1 per 100,000 of population and a case mortality-rate of 10.6% as compared with 7,110 cases with 814 deaths during the previous year or rates of 35.6, 4.1 and 11.4 % respectively.

The following mean case rates per million of population for urban and rural areas show that in urban areas the rates are many times more than in rural areas. This may be explained by the different modes of living in each.

In rural areas, the meals are all prepared at home. In urban areas, a large number of the population get their meals in public establishments or from itinerant venders who abound in towns.

TABLE No. 16— MEAN CASE—RATES PER MILLION OF POPULATION

| Years | Urban | Rural | Years | Urban | Rural |
|------------------|-------|-------|------------------|-------|-------|
| 1931—1935 | 803 | 70 | 1936—1940 | 870 | 94 |
| 1941—1945 | 1027 | 53 | 1946—1950 | 817 | 57 |
| 1931—1950 | 880 | 67 | | | |

It is recognised that the notification of typhoid cases is far from being accurate. There are several indications that the disease is wide spread in Egypt. It is believed that a large proportion of infantile enteritis is attributed to typhoid.

The four weekly incidence of typhoid in Cairo, Alexandria and Port-Said (table No. 17) reveals that the incidence starts on the rise about the end of April, reaches its peak about the end of July and August and declines thereafter.

TABLE NO. 17.—FOUR WEEKLY INCIDENCE OF TYPHOID
IN CAIRO, ALEXANDRIA AND PORT SAID

| Weeks | Cairo | Alexandria | Port-Said |
|-------------|-------|------------|-----------|
| 1- 4... .. | 157 | 42 | 31 |
| 5- 8... .. | 125 | 31 | 18 |
| 9-12... .. | 162 | 23 | 23 |
| 13-16... .. | 162 | 22 | 36 |
| 17-20... .. | 265 | 29 | 65 |
| 21-24... .. | 430 | 73 | 66 |
| 25-28... .. | 491 | 84 | 107 |
| 29-32... .. | 623 | 121 | 170 |
| 33-36... .. | 542 | 97 | 197 |
| 37-40... .. | 382 | 54 | 143 |
| 41-44... .. | 244 | 62 | 80 |
| 45-48... .. | 197 | 60 | 56 |
| 49-52... .. | 122 | 36 | 70 |

TABLE No. 18.—CASES AND DEATHS OF INFECTIOUS DISEASES, EGYPT, 1941—1950

| Diseases | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 |
|---------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|----------------|
| Plague... { C } { D } | 14 6 | 15 10 | 163 111 | 644 393 | 218 108 | 211 57 | 15 5 | — — | — — | — — |
| Typhus { C } { D } | 9,414 1,751 | 22,054 4,411 | 40,182 8,252 | 18,477 4,043 | 18,283 3,627 | 1,548 337 | 173 53 | 325 71 | 180 53 | 105 16 |
| Small-Pox { C } { D } | — — | — — | 4,138 384 | 11,194 1,016 | 1,355 115 | 416 50 | 170 18 | 16 4 | 3 1 | 9 — |
| Typhoid { C } { D } | 5,758 1,179 | 6,814 1,257 | 4,431 790 | 5,019 790 | 5,286 833 | 4,584 637 | 4,631 685 | 5,513 814 | 7,110 814 | 7,886 836 |
| Scarlet Fever { C } { D } | 91 — | 39 2 | 54 3 | 30 — | 12 1 | 11 — | 10 2 | 9 — | 18 1 | 24 — |
| Cerebro Spinal Fever { C } { D } | 159 94 | 212 101 | 114 57 | 147 75 | 65 49 | 88 44 | 94 32 | 133 37 | 205 57 | 2,521 401 |
| Diphtheria { C } { D } | 4,037 1,932 | 3,950 1,882 | 4,143 1,595 | 3,326 1,264 | 3,130 1,159 | 2,047 823 | 1,809 591 | 1,835 659 | 1,683 603 | 1,389 597 |
| Measles { C } { D } | 9,769 2,870 | 9,764 3,654 | 4,249 1,022 | 7,274 2,475 | 5,444 1,413 | 6,968 1,826 | 6,886 1,336 | 6,485 2,408 | 11,311 2,603 | 3,068 598 |
| Pulmonary Tuberculosis { C } { D } | 6,296 3,021 | 6,608 3,472 | 6,770 3,617 | 6,950 3,803 | 6,819 3,681 | 6,407 3,671 | 6,523 3,581 | 6,614 3,718 | 7,219 3,812 | 7,011 4,114 |
| Acute Pneumonia { C } { D } | 5,414 4,843 | 6,215 5,296 | 6,935 5,762 | 6,929 5,242 | 5,805 4,848 | 5,420 4,432 | 5,797 3,948 | 5,074 3,561 | 7,458 4,898 | 6,786 4,383 |
| Chicken Pox { C } { D } | 1,862 15 | 870 8 | 1,238 21 | 1,057 15 | 1,338 12 | 873 11 | 1,755 7 | 1,722 1 | 1,611 6 | 2,043 5 |
| Puerperal Septicaemia { C } { D } | 461 344 | 332 208 | 375 187 | 375 158 | 387 178 | 266 145 | 310 101 | 296 94 | 291 71 | 320 59 |

| | | | | | | | | | | |
|--|---------------|---------------|-----------------|-----------------|---------------|------------------|--------------|--------------|--------------|--------------|
| <i>Dysentery</i> ... { O D | 3,447 509 | 3,553 577 | 1,872 604 | 1,672 537 | 1,217 384 | 1,130 329 | 1,359 245 | 1,249 228 | 1,130 208 | 1,190 203 |
| <i>Influenza</i> ... { O D | 11,120 178 | 12,965 218 | 14,056 219 | 11,203 204 | 14,642 152 | 17,570 67 | 5,711 42 | 5,136 38 | 6,330 86 | 7,781 71 |
| <i>Malaria New</i> ... { O D | 9,320 104 | 20,937 394 | 16,530 1,341 | 37,847 1,867 | 5,887 56 | 9,262 22 | 6,747 31 | 4,445 23 | 2,717 17 | 4,251 15 |
| <i>Malaria Recurrent</i> ... { O D | — | — | — | 218,231 14 | 141,557 19 | 5,686 4 | 3,365 1 | 1,493 1 | 1,292 — | 1,654 — |
| <i>Anthrax</i> ... { O D | 22 5 | 21 4 | 15 9 | 13 2 | 4 2 | 6 1 | 9 1 | 2 — | 1 1 | 3 1 |
| <i>Whooping Cough</i> ... { O D | 2,923 173 | 2,257 142 | 2,054 105 | 1,208 105 | 1,856 92 | 904 54 | 2,189 63 | 770 27 | 1,385 74 | 989 55 |
| <i>Parotitis (Mumps)</i> ... { O D | 1,755 19 | 1,453 30 | 1,449 31 | 1,063 30 | 1,743 27 | 1,290 13 | 1,880 9 | 1,389 8 | 2,628 7 | 1,726 0 |
| <i>Undulant fever</i> ... { O D | 20 — | 9 2 | 6 4 | 20 3 | 15 2 | 22 2 | 14 1 | 28 6 | 78 4 | 82 — |
| <i>Leprosy</i> ... { O D | 511 79 | 520 82 | 393 68 | 224 58 | 332 53 | 124 55 | 162 51 | 149 61 | 198 69 | 223 49 |
| <i>Tetanus</i> ... { O D | 433 314 | 459 313 | 442 294 | 544 331 | 439 303 | 435 354 | 443 309 | 414 309 | 418 272 | 472 347 |
| <i>Acute Poliomyelitis</i> ... { O D | 16 9 | 5 1 | 7 2 | 11 4 | 7 6 | 2 6 | 11 14 | 6 8 | 13 9 | 8 1 |
| <i>Erysipelas</i> ... { O D | 4,502 463 | 3,100 312 | 1,956 209 | 1,671 156 | 1,551 146 | 1,181 88 | 1,460 91 | 1,413 75 | 1,458 64 | 1,503 52 |
| <i>Relapsing fever</i> ... { O D | — | — | — | 10 — | 18,126 880 | 110,405 2,414 | 229 30 | 6 — | — | — |

TABLE No. 19.—INFECTIOUS DISEASES CASE AND DEATH RATES PER 100,000 POPULATION, 1941—1950

| Diseases | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 |
|------------------------------------|--------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|
| Plague { C D | 0.08 0.04 | 0.08 0.06 | 0.09 0.64 | 3.7 2.2 | 1.2 0.6 | 1.2 0.3 | 0.08 0.03 | — — | — — | — — |
| Typhus { C D | 55.3 10.3 | 128.0 25.6 | 230.6 47.4 | 104.8 22.9 | 102.0 20.2 | 8.5 1.9 | 0.9 0.3 | 1.3 0.4 | 0.9 0.3 | 0.5 0.08 |
| Small-Pox { C D | — — | — — | 23.8 2.2 | 63.5 5.8 | 7.6 0.6 | 2.2 0.3 | 0.9 0.1 | 0.1 0.02 | 2.02 0.005 | 0.04 — |
| Typhoid fever { C D | 33.8 6.9 | 39.6 7.3 | 25.4 4.5 | 28.5 4.5 | 29.5 4.6 | 25.2 3.5 | 24.0 3.6 | 28.3 4.1 | 35.6 4.1 | 38.7 4.1 |
| Scarlet fever { C D | 0.5 — | 0.3 0.01 | 0.3 0.02 | 0.2 — | 0.1 0.006 | 0.1 — | 0.1 0.01 | 0.04 — | 0.1 0.005 | 0.1 — |
| Cerebro Spinal Fever ... { C D | 0.9 0.6 | 1.2 0.6 | 0.7 0.3 | 0.8 0.4 | 0.4 0.3 | 0.5 0.2 | 0.5 0.2 | 0.7 0.2 | 1.0 0.3 | 12.4 2.0 |
| Diphtheria { C D | 23.5 11.3 | 22.9 10.9 | 23.8 9.2 | 18.9 7.2 | 17.5 6.5 | 11.2 4.5 | 9.5 3.1 | 9.4 3.1 | 8.4 3.4 | 6.8 2.9 |
| Measles { C D | 57.4 16.9 | 56.7 21.2 | 21.4 5.9 | 41.3 14.0 | 30.4 7.9 | 38.4 9.5 | 36.0 7.0 | 33.2 12.3 | 56.7 13.0 | 15.0 2.9 |
| Pulmonary Tuberculosis... { C D | 36.9 17.8 | 18.4 20.2 | 38.9 20.9 | 39.4 21.6 | 38.1 20.5 | 35.3 20.2 | 34.0 18.7 | 33.8 19.0 | 36.2 19.1 | 34.4 20.2 |
| Acute Pneumonia { C D | 31.8 28.4 | 36.0 30.7 | 39.8 33.1 | 39.3 29.7 | 12.4 27.0 | 29.9 24.4 | 30.2 20.6 | 25.9 18.2 | 37.4 24.6 | 31.3 21.5 |
| Chicken Pox { C D | 10.9 0.1 | 5.1 0.05 | 7.1 0.1 | 6.0 0.1 | 7.5 0.1 | 4.8 0.1 | 9.2 0.04 | 8.8 0.005 | 8.1 0.005 | 10.0 0.02 |
| Puerperal Septicæmia ... { C D | 2.7 2.0 | 1.9 1.2 | 2.2 1.1 | 2.0 0.9 | 2.2 1.0 | 1.5 0.8 | 1.6 0.7 | 1.5 0.5 | 1.5 0.4 | 1.6 0.8 |

| | | | | | | | | | | | |
|-------------------------|--------|--------------|---------------|--------------|----------------|--------------|---------------|---------------|--------------|----------------|---------------|
| Dysentery ... | { D | 20.2 3.0 | 20.6 3.3 | 10.7 3.5 | 9.5 3.0 | 6.8 2.1 | 6.2 1.8 | 7.1 1.3 | 6.4 1.2 | 5.7 1.0 | 5.8 1.0 |
| Influenza ... | { D | 65.3 1.1 | 75.3 1.3 | 80.7 1.3 | 63.6 1.2 | 81.7 0.8 | 96.8 0.4 | 29.8 0.2 | 26.3 0.2 | 31.7 0.4 | 38.2 0.3 |
| Malaria New ... | { D | 54.7 0.6 | 121.5 2.3 | 94.9 7.7 | 214.7 10.6 | 32.9 0.3 | 51.1 0.1 | 35.2 0.2 | 22.7 0.1 | 14.1 0.1 | 20.8 0.1 |
| Malaria Recurrent ... | { D | — — | — — | — — | 1238.2 0.08 | 789.8 0.1 | 31.3 0.02 | 17.6 0.005 | 7.6 — | 7.0 — | 8.1 — |
| Anthrax ... | { D | 0.1 0.03 | 0.1 0.02 | 0.08 0.05 | 0.07 0.01 | 0.02 0.01 | 0.03 0.006 | 0.05 0.005 | 0.01 — | 0.005 0.005 | 0.01 0.005 |
| Whooping cough ... | { D | 17.2 1.0 | 13.1 0.8 | 11.8 0.6 | 6.9 0.6 | 10.4 0.5 | 5.0 0.3 | 11.4 0.3 | 3.9 0.1 | 6.9 0.4 | 4.8 0.3 |
| Parotitis ... | { D | 10.3 0.1 | 8.4 0.2 | 8.3 0.2 | 6.0 0.1 | 9.7 0.1 | 7.1 0.07 | 9.8 0.05 | 7.1 0.04 | 13.2 0.04 | 8.5 — |
| Undulant fever ... | { D | 0.1 — | 0.05 0.01 | 0.03 0.02 | 0.1 0.02 | 0.08 0.01 | 0.1 0.01 | 0.06 0.005 | 0.1 0.03 | 0.4 0.02 | 0.4 — |
| Leprosy ... | { D | 3.0 0.5 | 3.0 0.5 | 2.3 0.4 | 1.3 0.3 | 1.9 0.3 | 0.7 0.3 | 0.8 0.3 | 0.8 0.3 | 1.0 0.3 | 1.1 0.2 |
| Tetanus ... | { D | 2.5 1.8 | 2.7 1.8 | 2.5 1.7 | 3.1 1.9 | 2.5 1.7 | 2.4 2.5 | 2.3 1.6 | 2.1 1.6 | 2.1 1.4 | 2.3 1.7 |
| Acute poliomyelitis ... | { D | 0.09 0.05 | 0.03 0.006 | 0.04 0.01 | 0.06 0.03 | 0.04 0.03 | 0.01 0.03 | 0.06 0.07 | 0.03 0.14 | 0.07 0.05 | 0.04 0.005 |
| Erysipelas ... | { D | 26.4 2.7 | 18.5 1.8 | 11.2 1.2 | 9.5 0.9 | 8.7 0.8 | 6.5 0.5 | 7.6 0.5 | 7.2 4.0 | 7.3 0.3 | 7.4 0.3 |
| Relapsing fever ... | { D | — — | — — | — — | 0.06 — | 95.6 4.9 | 6.1 1.3 | 1.2 0.2 | 0.03 — | — — | — — |

TABLE No. 20.—CASES OF INFECTIOUS DISEASES, 1949—1950

| Localities | Typhus | | Small-Pox | | Typhoid. F. | | Scarlet F. | | Cerebro-spinal F. | | Diphtheria | | Measles | | Pulmonary Tuberc. | | Acute Pneum. | | Chicken Pox. | | Puerperal Septicaemia | | Dysentery | |
|--------------------|--------|-----|-----------|----|-------------|-------|------------|----|-------------------|-------|------------|------|---------|-------|-------------------|-------|--------------|-------|--------------|-------|-----------------------|-----|-----------|-------|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo | 14 | 32 | 2 | 1 | 4,091 | 3,902 | 8 | 10 | 133 | 1,307 | 809 | 538 | 1,815 | 586 | 3,599 | 3,564 | 2,453 | 2,163 | 661 | 731 | 118 | 145 | 160 | 179 |
| Alexandria | 11 | 6 | — | — | 743 | 734 | 5 | 3 | 9 | 403 | 191 | 257 | 3,631 | 1,180 | 1,087 | 1,180 | 2,587 | 2,979 | 269 | 571 | 84 | 102 | 259 | 261 |
| Ismailia | — | — | — | — | 33 | 42 | — | — | — | — | 8 | 13 | 1 | — | 1 | 3 | 38 | 30 | 4 | 2 | — | — | 3 | 2 |
| Port-Saïd | — | — | — | — | 971 | 1,062 | 4 | 9 | 31 | 74 | 83 | 42 | 71 | 85 | 212 | 161 | 284 | 288 | 109 | 196 | 4 | 2 | 17 | 32 |
| Damietta | — | — | — | — | 23 | 44 | — | — | — | — | 11 | 3 | 22 | — | 20 | 23 | 15 | 17 | 2 | 5 | 1 | — | — | — |
| Suez | 2 | — | — | — | 132 | 146 | — | — | 1 | 42 | 62 | 20 | 64 | 8 | 138 | 63 | 177 | 125 | 54 | 58 | 2 | 6 | 58 | 67 |
| Frontier Districts | — | — | — | — | 36 | 16 | — | — | — | 7 | 6 | 3 | 153 | 99 | 15 | 18 | 6 | 19 | 57 | 37 | 2 | 2 | 80 | 52 |
| Behera | 13 | 4 | — | — | 173 | 227 | — | — | — | 62 | 16 | 37 | 517 | 60 | 89 | 107 | 89 | 54 | 60 | 69 | 6 | 1 | 11 | 7 |
| Dakahlia | 75 | 27 | — | — | 103 | 197 | — | — | 2 | 50 | 49 | 33 | 534 | 28 | 301 | 297 | 67 | 46 | 48 | 19 | 8 | 9 | 9 | 21 |
| Fouadia | — | — | — | — | — | 19 | — | — | — | 5 | — | 11 | — | 9 | — | 66 | — | 17 | — | 15 | — | — | — | 29 |
| Gharbia | 7 | 6 | — | — | 206 | 248 | — | — | 10 | 148 | 130 | 108 | 511 | 62 | 410 | 289 | 128 | 114 | 65 | 86 | 6 | 3 | 76 | 25 |
| Menoufia | 16 | 2 | — | — | 77 | 81 | 1 | — | 1 | 22 | 46 | 33 | 490 | 171 | 141 | 128 | 18 | 25 | 36 | 19 | 10 | 10 | 13 | 12 |
| Qalubia | — | 5 | — | — | 127 | 173 | — | — | — | 45 | 43 | 59 | 168 | 11 | 133 | 165 | 81 | 81 | 39 | 34 | 5 | 3 | 8 | 15 |
| Sharkia | — | 5 | — | — | 93 | 98 | — | — | 7 | 76 | 44 | 54 | 531 | 17 | 131 | 170 | 31 | 22 | 59 | 58 | 1 | 1 | 34 | 63 |
| Aswan | — | — | — | — | 6 | 12 | — | — | — | 10 | 17 | 3 | 6 | — | 91 | 109 | 8 | 8 | 7 | 3 | 6 | 1 | 14 | 7 |
| Assiut | — | 2 | — | — | 77 | 168 | — | — | 3 | 70 | 42 | 51 | 639 | 32 | 163 | 143 | 126 | 98 | 15 | 12 | 10 | 10 | 53 | 48 |
| Beni-suef | — | — | — | — | 15 | 34 | — | — | — | 7 | 4 | 14 | 164 | 29 | 139 | 91 | 5 | 8 | 9 | 13 | 6 | 2 | 11 | 6 |
| Fayoum | — | — | — | — | 71 | 95 | — | — | — | 4 | 13 | 22 | 134 | 62 | 160 | 130 | 45 | 33 | 5 | 19 | 2 | 3 | 45 | 80 |
| Gerga | — | — | — | — | 61 | 120 | — | — | — | 42 | 9 | 12 | 396 | 87 | 80 | 113 | 46 | 59 | 6 | 12 | 1 | 3 | 5 | 19 |
| Giza | 36 | 2 | 1 | — | 234 | 358 | — | — | 6 | 99 | 55 | 42 | 803 | 32 | 129 | 104 | 162 | 122 | 66 | 71 | 7 | 7 | 15 | 5 |
| Minia | — | — | — | — | 56 | 66 | — | — | 1 | 16 | 29 | 26 | 496 | 379 | 49 | 53 | 34 | 34 | 31 | 11 | 8 | 3 | 106 | 210 |
| Qena | 2 | — | — | — | 32 | 44 | — | — | 1 | 6 | 16 | 8 | 165 | 130 | 131 | 134 | 58 | 44 | 9 | 2 | 4 | 7 | 153 | 50 |
| TOTAL | 180 | 105 | 3 | 9 | 7,110 | 7,886 | 18 | 24 | 205 | 2,521 | 1,682 | 1,39 | 11,311 | 3,068 | 7,219 | 7,011 | 7,458 | 6,386 | 1,611 | 2,043 | 291 | 320 | 1,130 | 1,190 |

TABLE No. 20.—CASES OF INFECTIOUS DISEASES 1949—1950 (Contd.)

| Localities | Influenza | | Malaria New | | Malaria Rec. | | Anthrax | | Whooping Cough | | Parotitis | | Undulant fever | | Leprosy | | Tetanus | | Acute polio, | | Erysipelas | |
|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------|---------------|----------------|--------------|--------------|-----------|----------------|------------|------------|------------|------------|-----------|---------------|--------------|------------|-----|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo ... | 2,139 | 2,782 | 607 | 509 | 34 | 8 | — | — | 328 | 136 | 1,079 | 534 | 31 | 58 | 10 | 4 | 63 | 61 | 1 | 1 | 305 | 301 |
| Alexandria ... | 1,457 | 2,157 | 204 | 91 | — | — | — | — | 149 | 267 | 392 | 583 | 2 | 1 | 19 | 2 | 54 | 47 | 9 | 3 | 516 | 622 |
| Ismailia ... | 21 | 36 | 52 | 56 | — | — | — | — | — | 3 | 3 | 3 | — | — | — | — | 9 | 2 | — | — | 2 | 3 |
| Port-said ... | 484 | 677 | 104 | 77 | — | — | — | — | 9 | 5 | 46 | 50 | 1 | — | 1 | 1 | 18 | 12 | 2 | — | 75 | 89 |
| Damietta ... | 40 | 41 | 4 | 14 | — | — | — | — | 1 | — | 1 | 5 | — | — | 2 | — | 1 | 3 | — | — | 8 | 11 |
| Suez ... | 136 | 66 | 23 | 12 | 8 | 6 | — | — | 3 | 12 | 24 | 6 | 1 | — | 2 | 2 | 4 | 2 | — | — | 14 | 14 |
| Frontier Districts... | 55 | 20 | 18 | 153 | 2 | — | — | — | 10 | — | 244 | 65 | — | — | 1 | 1 | — | — | — | — | 7 | 7 |
| Behera ... | 168 | 133 | 30 | 188 | — | 7 | — | — | 10 | 21 | 24 | 59 | — | 2 | 17 | — | 37 | 53 | — | — | 43 | 46 |
| Dakahlia ... | 187 | 172 | 107 | 271 | 6 | 7 | — | — | 126 | 3 | 7 | 48 | 1 | 3 | 16 | 17 | 24 | 21 | — | — | 77 | 78 |
| Fouadia ... | — | 62 | — | 182 | — | 1,291 | — | — | — | — | — | 1 | — | 1 | — | 2 | — | 17 | — | — | — | 25 |
| Gharbia ... | 378 | 281 | 575 | 129 | 599 | — | 1 | 2 | 42 | 35 | 126 | 62 | 4 | 4 | 8 | 3 | 55 | 44 | 1 | 2 | 131 | 74 |
| Menoufia ... | 139 | 114 | 87 | 26 | 36 | 84 | — | 1 | 31 | 29 | 151 | 138 | 3 | 1 | 32 | 21 | 24 | 52 | — | — | 73 | 32 |
| Qaliubia ... | 231 | 233 | 230 | 418 | 16 | 33 | — | — | 9 | 6 | 200 | 9 | 3 | 1 | 5 | 3 | 11 | 18 | — | — | 37 | 35 |
| Sharkia ... | 57 | 86 | 110 | 925 | 16 | 40 | — | — | 35 | 20 | 34 | 38 | — | — | 14 | 7 | 14 | 22 | 2 | 2 | 37 | 46 |
| Aswan ... | 55 | 39 | 4 | — | 15 | — | — | — | — | 7 | 33 | 3 | — | — | 1 | 2 | — | 1 | — | — | 10 | 2 |
| Assiut ... | 137 | 239 | 32 | 72 | — | 1 | — | — | 20 | 27 | 64 | 20 | — | — | 9 | 14 | 25 | 38 | — | — | 19 | 16 |
| Beni-Suef ... | 60 | 57 | 50 | 239 | 6 | 1 | — | — | 22 | — | 1 | 1 | — | — | 1 | 103 | 5 | 9 | — | — | 7 | 14 |
| Payoum ... | 23 | 28 | 82 | 60 | 611 | 154 | — | — | 400 | 94 | 21 | 41 | 1 | 1 | 3 | 6 | 4 | 8 | — | — | 24 | 16 |
| Gerga ... | 71 | 67 | 7 | 12 | — | — | — | — | 32 | 5 | 4 | 4 | — | — | 16 | 9 | 12 | 13 | — | — | 8 | 10 |
| Giza ... | 244 | 233 | 249 | 254 | — | 1 | — | — | 99 | 247 | 133 | 20 | 31 | 8 | 7 | 8 | 16 | 14 | — | — | 18 | 18 |
| Minia ... | 138 | 146 | 29 | 515 | 8 | 5 | — | — | 55 | 27 | 7 | 12 | — | 2 | 18 | 16 | 29 | 22 | — | — | 37 | 38 |
| Qena ... | 110 | 113 | 13 | 48 | 25 | 16 | — | — | 4 | 45 | 31 | 4 | — | — | 16 | 12 | 13 | 13 | — | — | 10 | 6 |
| TOTAL ... | 6,330 | 7,781 | 2,817 | 4,251 | 1,392 | 1,654 | 1 | 31,385 | 989 | 2,628 | 1,726 | 78 | 82 | 198 | 233 | 418 | 472 | 13 | 81,458 | 1,503 | | |

TABLE No. 21.—INFECTIOUS DISEASES CASE-RATES PER 100,000 POPULATION, 1949—1950

| Localities | Typhus | | Small-Pox | | Typhoid Fev. | | Cerebro Spinal Fev. | | Scarlet Fev. | | Diphtheria | | Measles | | Pulmonary T. B. | | Acute Pneumonia | | Chicken Pox | | Puerperal Sep. | | Dysentery | |
|--------------------|--------|-----|-----------|------|-----------------|-------|------------------------|------|-----------------|------|------------|------|---------|-------|--------------------|-------|--------------------|-------|-------------|-------|----------------|------|-----------|------|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo | 0.6 | 1.4 | 0.1 | 0.04 | 187.9 | 174.5 | 6.1 | 58.4 | 0.4 | 0.4 | 37.1 | 24.1 | 83.3 | 26.2 | 165.2 | 159.4 | 112.6 | 96.7 | 30.3 | 32.7 | 5.4 | 6.5 | 7.3 | 8.0 |
| Alexandria | 1.1 | 0.6 | — | — | 75.9 | 73.0 | 0.9 | 40.0 | 0.5 | 0.5 | 19.5 | 25.6 | 37.1 | 117.3 | 111.1 | 117.3 | 366.5 | 296.2 | 27.5 | 56.8 | 8.6 | 10.1 | 26.5 | 26.0 |
| Ismailia | — | — | — | — | 28.7 | 30.0 | — | 13.6 | — | — | 7.0 | 9.3 | 0.9 | 0.7 | 0.09 | 2.1 | 33.1 | 21.4 | 3.5 | 1.4 | — | — | 2.6 | 1.4 |
| Port-Saïd | — | — | — | — | 355.0 | 542.9 | 16.4 | 37.8 | 2.1 | 4.6 | 44.4 | 21.5 | 37.6 | 43.5 | 112.2 | 82.3 | 150.3 | 147.2 | 57.7 | 100.0 | 2.1 | 1.0 | 9.0 | 16.4 |
| Damietta | — | 5.1 | — | — | 40.1 | 74.2 | — | 11.8 | — | — | 19.2 | 5.1 | 38.4 | — | 35.1 | 38.8 | 26.1 | 28.7 | 3.5 | 8.4 | 1.8 | — | — | — |
| Suez | 1.7 | — | — | 4.2 | 114.7 | 123.4 | 0.8 | 35.5 | — | — | 53.9 | 16.9 | 55.6 | 6.8 | 119.9 | 53.3 | 153.8 | 105.7 | 46.9 | 49.0 | 1.7 | 5.1 | 50.4 | 56.6 |
| Frontier Districts | — | 6.3 | — | 0.6 | 20.3 | 9.1 | — | 4.0 | — | — | 3.4 | 1.7 | 86.3 | 56.4 | 8.5 | 10.2 | 3.4 | 10.8 | 32.3 | 21.1 | 1.1 | 1.1 | 45.2 | 29.6 |
| Behera | 1.0 | 0.3 | — | — | 13.2 | 17.0 | — | 4.6 | — | — | 1.2 | 2.8 | 39.5 | 4.5 | 6.8 | 8.0 | 6.8 | 4.0 | 4.6 | 5.2 | 0.5 | 0.07 | 0.8 | 0.5 |
| Dakahlia | 5.0 | 1.8 | — | 0.07 | 6.9 | 12.9 | 0.1 | 3.3 | — | — | 3.3 | 2.2 | 35.9 | 1.8 | 20.2 | 19.4 | 4.5 | 3.0 | 3.2 | 1.2 | 0.5 | 0.6 | 0.6 | 1.4 |
| Fouadia | — | — | — | — | — | 2.3 | — | 0.6 | — | — | — | 1.4 | — | 1.1 | — | 8.2 | — | 2.1 | — | 1.9 | — | — | — | 3.6 |
| Gharbia | 0.3 | 0.4 | — | — | 8.4 | 14.5 | 0.4 | 8.7 | — | — | 5.3 | 6.3 | 20.8 | 3.6 | 16.7 | 16.9 | 5.2 | 6.7 | 2.6 | 5.0 | 0.2 | 0.2 | 3.1 | 1.5 |
| Menoufia | 1.3 | 0.2 | — | — | 6.3 | 6.5 | 0.08 | 1.8 | 0.08 | — | 3.8 | 2.7 | 40.2 | 13.7 | 11.6 | 10.3 | 1.5 | 2.0 | 3.0 | 1.5 | 0.8 | 0.8 | 1.1 | 1.0 |
| Qaliubia | — | 0.7 | — | — | 17.5 | 23.1 | — | 6.0 | — | — | 5.9 | 7.9 | 23.1 | 1.5 | 18.4 | 22.0 | 11.1 | 10.8 | 5.4 | 4.5 | 0.7 | 0.4 | 1.1 | 2.0 |
| Sharkia | 0.2 | 0.4 | — | — | 6.9 | 7.1 | 0.5 | 5.5 | — | — | 3.2 | 3.9 | 38.7 | 1.2 | 9.6 | 12.4 | 2.3 | 1.6 | 4.3 | 4.2 | 0.07 | 0.07 | 2.5 | 4.6 |
| Aswan | — | — | — | — | 2.0 | 3.9 | — | 3.2 | — | — | 5.6 | 1.0 | 2.0 | — | 29.8 | 35.3 | 2.6 | 2.6 | 2.3 | 1.0 | 2.0 | 0.3 | 4.6 | 2.3 |
| Assiut | — | 0.1 | — | 0.07 | 5.4 | 11.5 | 0.2 | 4.8 | — | 0.07 | 2.9 | 3.5 | 44.6 | 2.2 | 11.4 | 9.8 | 8.8 | 6.7 | 1.0 | 0.8 | 0.7 | 0.7 | 3.7 | 3.7 |
| Beni-Suef | — | — | — | — | 2.3 | 5.2 | — | 1.1 | — | — | 0.6 | 2.2 | 25.6 | 4.4 | 21.7 | 13.9 | 0.8 | 1.2 | 1.4 | 2.0 | 0.9 | 0.3 | 1.7 | 0.9 |
| Fayoum | — | — | — | — | 10.1 | 13.3 | — | 0.6 | — | — | 1.9 | 3.1 | 19.2 | 8.7 | 22.9 | 18.2 | 6.4 | 4.6 | 0.7 | 2.7 | 0.3 | 0.4 | 6.4 | 8.4 |
| Gerga | 0.07 | — | — | — | 4.5 | 8.8 | — | 3.1 | — | — | 0.7 | 0.9 | 29.4 | 6.4 | 5.9 | 8.3 | 3.4 | 4.3 | 0.5 | 0.9 | 0.1 | 0.2 | 0.4 | 1.4 |
| Giza | 4.0 | 0.2 | 0.1 | — | 31.7 | 39.1 | 0.7 | 10.8 | — | 0.1 | 6.1 | 4.6 | 89.6 | 3.5 | 14.4 | 11.4 | 18.1 | 13.3 | 7.4 | 7.8 | 0.8 | 0.8 | 1.7 | 0.5 |
| Minia | — | — | — | — | 5.1 | 5.9 | 0.09 | 1.4 | — | — | 2.6 | 2.3 | 45.2 | 33.7 | 4.5 | 4.7 | 3.1 | 3.0 | 2.8 | 1.0 | 0.7 | 0.3 | 9.6 | 18.7 |
| Qena | 0.2 | — | — | — | 2.8 | 3.8 | 0.08 | 0.5 | — | — | 1.4 | 0.7 | 14.3 | 11.1 | 11.4 | 11.4 | 5.0 | 3.8 | 0.8 | 0.2 | 0.03 | 0.6 | 13.3 | 4.4 |
| TOTAL | 0.9 | 0.5 | 0.02 | 0.04 | 35.6 | 38.7 | 1.0 | 12.4 | 0.9 | 0.1 | 8.4 | 6.8 | 56.7 | 15.0 | 36.2 | 34.4 | 37.4 | 31.3 | 8.1 | 10.0 | 1.5 | 1.6 | 5.7 | 5.8 |

TABLE No. 21.—INFECTIOUS DISEASES CASE RATES PER 100,000 POPULATION, 1940—1950. (contd.)

| Localities | Influenza | | Malaria New | | Malaria Recurrent | | Anthrax | | Whooping cough | | Parotitis (Mumps) | | Undulant F. | | Leprosy | | Tetanus | | Acute poliomyelitis | | Erysipelas | |
|--------------------|-----------|-------|-------------|------|-------------------|-------|---------|------|----------------|------|-------------------|------|-------------|------|---------|------|---------|-----|---------------------|------|------------|------|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo | 98.2 | 124.4 | 27.9 | 22.8 | 1.6 | 0.4 | — | — | 15.1 | 6.1 | 49.5 | 23.9 | 1.4 | 2.6 | 0.5 | 0.2 | 2.9 | 2.7 | 0.05 | 0.04 | 14.0 | 13.5 |
| Alexandria | 148.9 | 214.5 | 30.8 | 9.0 | — | — | — | — | 15.2 | 26.6 | 40.4 | 58.0 | 0.2 | 0.1 | 1.9 | 0.2 | 5.5 | 4.7 | 0.9 | 0.3 | 52.7 | 61.8 |
| Ismailia | 18.3 | 25.0 | 45.3 | 40.0 | — | — | — | — | — | 2.1 | 2.6 | 2.1 | — | — | — | — | 7.8 | 1.4 | — | — | 1.7 | 2.1 |
| Port-Said | 256.1 | 346.1 | 55.0 | 39.4 | — | — | — | — | 4.8 | 2.6 | 24.3 | 25.6 | 0.5 | — | 0.5 | 0.5 | 9.6 | 6.1 | 1.0 | — | 39.7 | 45.5 |
| Damietta | 70.0 | 69.1 | 0.7 | 23.6 | — | — | — | — | 1.7 | — | 1.7 | 8.4 | — | — | 2.4 | — | 1.7 | 5.1 | — | — | 13.9 | 18.5 |
| Suez | 118.2 | 55.7 | 20.0 | 10.1 | 7.0 | 5.1 | — | — | 2.6 | 10.1 | 20.9 | 5.1 | 0.8 | — | 1.7 | 1.7 | 3.4 | 1.7 | — | — | 12.3 | 11.8 |
| Frontier Districts | 31.0 | 11.4 | 10.2 | 87.1 | 1.1 | — | — | — | 5.6 | — | 137.7 | 37.0 | — | — | 0.6 | 0.6 | — | — | — | — | 4.0 | 4.0 |
| Behera | 22.8 | 9.9 | 2.3 | 14.0 | — | 0.5 | — | — | 0.8 | 1.6 | 1.8 | 4.4 | — | 0.1 | 1.3 | — | 2.8 | 4.0 | — | — | 3.3 | 3.4 |
| Dakahlia | 12.6 | 11.3 | 7.2 | 17.7 | 0.4 | 0.5 | — | — | 8.5 | 0.2 | 0.5 | 3.1 | 0.07 | 0.2 | 1.0 | 1.1 | 1.6 | 1.4 | — | — | 5.2 | 5.1 |
| Fouadiah | — | 7.7 | — | 22.5 | — | 159.5 | — | — | — | — | — | 0.1 | — | 0.1 | — | 0.2 | — | 2.1 | — | — | — | 3.1 |
| Gharbia | 15.4 | 16.5 | 23.4 | 7.6 | 24.4 | — | 0.04 | 0.1 | 1.7 | 2.1 | 5.1 | 3.6 | 0.2 | 0.2 | 0.4 | 0.2 | 2.2 | 2.6 | 0.04 | 0.1 | 5.3 | 4.3 |
| Menoufia | 11.4 | 9.2 | 7.1 | 2.1 | 3.0 | 6.8 | — | 0.08 | 2.5 | 2.3 | 12.4 | 11.1 | 0.2 | 0.08 | 2.5 | 1.7 | 2.0 | 4.2 | — | — | 6.0 | 2.6 |
| Qaliubia | 31.8 | 31.1 | 31.8 | 55.8 | 2.2 | 4.4 | — | — | 1.0 | 0.8 | 27.5 | 1.2 | 0.4 | 0.1 | 0.7 | 0.4 | 1.5 | 2.4 | — | — | 7.1 | 4.7 |
| Sharkia | 4.2 | 6.4 | 8.0 | 67.4 | 1.2 | 2.9 | — | — | 2.5 | 1.9 | 2.5 | 2.8 | — | — | 1.0 | 0.5 | 1.0 | 1.6 | — | 0.1 | 2.7 | 3.4 |
| Aswan | 18.0 | 12.6 | 1.3 | — | 4.6 | — | — | — | — | 2.3 | 10.8 | 1.0 | — | — | 0.3 | 0.6 | — | 0.3 | — | — | 3.3 | 0.6 |
| Assint | 9.6 | 16.4 | 2.2 | 4.9 | — | 0.07 | — | — | 1.4 | 1.8 | 4.5 | 1.4 | — | — | 0.6 | 1.0 | 1.7 | 2.6 | — | — | 1.3 | 1.1 |
| Beni-Suef | 9.3 | 8.7 | 7.8 | 36.5 | 0.9 | 0.2 | — | — | 3.4 | — | 0.2 | 0.2 | — | — | 0.2 | 15.7 | 0.8 | 1.4 | — | — | 1.1 | 2.2 |
| Fayoum | 3.3 | 3.9 | 11.7 | 8.4 | 87.3 | 21.6 | — | — | 57.2 | 13.2 | 3.0 | 5.7 | 0.1 | 0.1 | 0.4 | 0.8 | 0.6 | 1.1 | — | — | 3.4 | 2.2 |
| Gerga | 5.3 | 4.9 | 0.5 | 0.9 | — | — | — | — | 2.4 | 0.4 | 0.3 | 0.3 | — | — | 1.2 | 0.7 | 0.9 | 1.0 | — | — | 0.6 | 0.7 |
| Giza | 27.8 | 25.5 | 27.8 | 27.7 | — | 0.1 | — | — | 11.0 | 27.0 | 14.8 | 4.4 | 3.5 | 0.9 | 0.8 | 0.9 | 1.8 | 1.5 | — | — | 2.0 | 2.0 |
| Minia | 12.6 | 13.0 | 2.6 | 45.8 | 0.7 | 0.4 | — | — | 5.0 | 2.4 | 0.6 | 1.1 | — | 0.2 | 9.8 | 1.4 | 2.6 | 1.9 | — | — | 3.4 | 3.4 |
| Qena | 9.6 | 9.6 | 1.1 | 4.1 | 2.2 | 1.4 | — | — | 0.03 | 3.8 | 2.7 | 0.3 | — | — | 1.0 | 1.0 | 1.1 | 1.1 | — | — | 0.9 | 0.5 |
| TOTAL | 31.7 | 38.2 | 14.1 | 20.8 | 7.0 | 8.1 | 0.005 | 0.01 | 6.9 | 4.8 | 13.2 | 8.5 | 0.4 | 0.4 | 1.0 | 1.1 | 2.1 | 2.3 | 0.07 | 0.04 | 7.3 | 7.4 |

TABLE NO. 22.—DEATHS FROM INFECTIOUS DISEASES, 1919-1950

| Localities | Typhus | | Small-Pox | | Typhoid | | Scarlet Fev. | | Cerebro Spinal F. | | Diphtheria | | Measles | | Pulmonary T.B. | | Acute Pneumonia | | Chicken pox | | Puerperal Sept. | | Dysentery | |
|------------------------|--------|----|-----------|----|---------|-----|-----------------|----|----------------------|-----|------------|-----|---------|-----|-------------------|-------|-----------------|-------|-------------|----|--------------------|----|-----------|-----|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo ... | 2 | 4 | — | — | 358 | 319 | — | — | 30 | 153 | 151 | 120 | 771 | 260 | 1,455 | 1,548 | 1,736 | 1,429 | 1 | 2 | 19 | 20 | 66 | 87 |
| Alexandria ... | 5 | — | — | — | 96 | 71 | — | — | 4 | 68 | 53 | 72 | 513 | 60 | 614 | 597 | 1,696 | 1,409 | 3 | — | 8 | 10 | 48 | 47 |
| Ismailia ... | — | — | — | — | 6 | 7 | — | — | — | 2 | 3 | 2 | 14 | 4 | 44 | 55 | 205 | 233 | — | — | — | — | 4 | 6 |
| Port-Saïd ... | — | — | — | — | 23 | 27 | — | — | 3 | 6 | 19 | 5 | 16 | 9 | 131 | 148 | 45 | 49 | — | — | — | 1 | 4 | 3 |
| Damietta ... | — | — | — | — | 3 | 2 | — | — | — | 3 | 3 | 3 | 1 | — | 22 | 27 | 4 | 2 | — | — | — | 1 | 1 | 1 |
| Suez ... | — | — | — | — | 22 | 8 | — | — | — | 2 | 19 | 8 | 3 | — | 31 | 47 | 31 | 18 | — | — | — | 1 | — | 1 |
| Frontier Districts ... | — | 1 | — | — | 3 | 3 | — | — | — | 2 | 2 | 3 | 33 | 10 | 10 | 21 | 4 | 6 | — | — | 1 | 1 | — | 2 |
| Behera ... | 9 | 1 | — | — | 36 | 21 | — | — | — | 16 | 14 | 17 | 86 | 19 | 165 | 133 | 44 | 41 | — | 1 | 4 | — | 10 | 7 |
| Dakahlia ... | 20 | 3 | — | — | 16 | 31 | — | — | — | 6 | 19 | 15 | 185 | 6 | 152 | 228 | 43 | 27 | — | — | 5 | 2 | 6 | 1 |
| Fouadia ... | — | — | — | — | — | 3 | — | — | — | — | — | 7 | — | — | — | 36 | — | 17 | — | — | — | — | 2 | 1 |
| Gharbia ... | 1 | 2 | — | — | 45 | 39 | — | — | 4 | 28 | 80 | 81 | 76 | 1 | 203 | 189 | 247 | 250 | — | — | 4 | 3 | 19 | 8 |
| Menoufia ... | 5 | — | — | — | 20 | 13 | — | — | — | 7 | 38 | 36 | 56 | 23 | 97 | 98 | 53 | 50 | 1 | — | 3 | 1 | 4 | 3 |
| Qaliubia ... | — | 2 | — | — | 21 | 30 | — | — | — | 10 | 27 | 46 | 14 | — | 96 | 105 | 62 | 49 | — | — | 1 | — | 3 | 2 |
| Sharkia ... | 3 | 1 | — | — | 23 | 17 | — | — | 3 | 23 | 22 | 19 | 77 | 5 | 97 | 143 | 104 | 62 | — | — | 2 | 5 | 10 | 3 |
| Aswan ... | — | — | — | — | 2 | 2 | — | — | — | 3 | 16 | 2 | 5 | 2 | 42 | 70 | 58 | 245 | — | — | 1 | 1 | 4 | — |
| Assiut ... | — | 2 | — | — | 16 | 20 | — | — | — | 12 | 24 | 23 | 227 | 19 | 128 | 110 | 76 | 87 | — | — | 9 | 2 | 10 | 19 |
| Beni Suef ... | — | — | — | — | 3 | 2 | — | — | 1 | 2 | 8 | 7 | 39 | 1 | 68 | 64 | 171 | 71 | 1 | 1 | 2 | — | 1 | — |
| Fayoum ... | — | — | — | — | 8 | 18 | — | — | 1 | 2 | 10 | 19 | 29 | 14 | 100 | 109 | 14 | 18 | — | — | 3 | 1 | 1 | — |
| Gerga ... | — | — | — | — | 20 | 22 | — | — | — | 12 | 12 | 13 | 248 | 41 | 44 | 50 | 49 | 91 | — | — | 1 | — | 6 | 2 |
| Giza ... | 7 | — | 1 | — | 72 | 167 | — | — | 11 | 33 | 37 | 70 | 128 | 15 | 159 | 194 | 110 | 112 | 1 | — | 3 | 6 | 3 | 5 |
| Minia ... | — | — | — | — | 8 | 5 | — | — | — | 10 | 30 | 22 | 68 | 54 | 81 | 82 | 44 | 19 | — | — | 2 | 3 | 5 | 3 |
| Qena ... | 1 | — | — | — | 13 | 9 | — | — | — | 1 | 16 | 7 | 91 | 55 | 46 | 50 | 101 | 98 | — | — | 3 | 5 | 3 | 1 |
| TOTAL ... | 53 | 16 | 1 | — | 814 | 836 | 1 | — | 57 | 401 | 603 | 597 | 2,603 | 598 | 3,812 | 4,114 | 4,898 | 4,383 | 6 | 5 | 71 | 59 | 208 | 263 |

TABLE NO. 22.—DEATHS FROM INFECTIOUS DISEASES, 1949-1950 (Contd.)

| Localities | Influenza | | Malaria New | | Malaria Recurrent | | Anthrax | | Whooping Cough | | Parotitis | | Undulant Fev. | | Leprosy | | Tetanus | | Acute Polio. | | Erysipelas | |
|------------------------|-----------|----|-------------|----|-------------------|----|---------|----|----------------|----|-----------|----|---------------|----|---------|----|---------|-----|--------------|----|------------|----|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo ... | 14 | 9 | 3 | 4 | — | — | — | — | 19 | 11 | 3 | — | — | — | 7 | — | 25 | 32 | — | 1 | 17 | 17 |
| Alexandria ... | — | 2 | 1 | 1 | — | — | — | — | 7 | 17 | — | — | — | — | — | — | 2 | 32 | — | — | 10 | 10 |
| Ismaïlia ... | 1 | — | 1 | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | 8 | 3 | — | — | — | 1 |
| Port-Saïd ... | 1 | 2 | 1 | — | — | — | — | — | 3 | 1 | — | — | — | — | — | — | 3 | 4 | 2 | — | 2 | — |
| Damietta ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 3 | — | — | — | 1 | — |
| Suez ... | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — |
| Frontier Districts ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 |
| Behera ... | 13 | 2 | — | 3 | — | — | — | — | 4 | 1 | — | — | — | — | 1 | 5 | 22 | 37 | — | — | — | — |
| Dakahlia ... | 6 | 4 | 1 | 1 | — | — | — | — | 11 | 1 | 2 | — | — | — | 2 | 2 | 16 | 26 | — | — | 2 | — |
| Fouadia ... | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 13 | — | — | — | 1 | — |
| Gharbia ... | 7 | 3 | 3 | 1 | — | — | — | 1 | 3 | 2 | — | — | — | — | 1 | 2 | 43 | 31 | 1 | — | 6 | 3 |
| Menoufia ... | 5 | 1 | — | 1 | — | — | — | — | — | 3 | 1 | — | — | — | 9 | 7 | 14 | 34 | 1 | — | 6 | 1 |
| Qalûbia ... | 2 | 4 | 1 | 3 | — | — | — | — | — | 1 | — | — | — | — | 6 | 3 | 10 | 19 | — | — | 1 | 2 |
| Sharkia ... | — | 6 | 1 | — | — | — | — | — | 4 | 1 | — | — | — | — | — | 5 | 15 | 16 | — | — | 2 | 4 |
| Aswan ... | 8 | 1 | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — |
| Assiut ... | 2 | 5 | — | — | — | — | — | — | 2 | 8 | — | — | — | — | 4 | 1 | 14 | 25 | — | — | 4 | 2 |
| Beni Suef ... | 13 | 10 | — | — | — | — | — | — | 4 | — | — | — | — | — | 1 | 3 | 4 | 10 | — | — | — | 1 |
| Fayoum ... | — | 3 | — | — | — | — | — | — | 7 | — | — | — | — | — | 3 | 1 | 3 | 4 | — | — | 4 | 3 |
| Gerga ... | — | 2 | — | — | — | — | — | — | — | — | 1 | — | — | — | 2 | 7 | 13 | 13 | — | — | 1 | — |
| Giza ... | 3 | — | 3 | 1 | — | — | — | — | 9 | 6 | — | — | — | — | 17 | 3 | 16 | 23 | 1 | — | 2 | 2 |
| Minia ... | 8 | 13 | — | — | — | — | — | — | — | — | — | — | — | — | 9 | 5 | 17 | 18 | — | — | 4 | — |
| Qena ... | 3 | 4 | 1 | — | — | — | — | — | — | 2 | — | — | — | — | 6 | 2 | 7 | 6 | — | — | — | — |
| TOTAL ... | 86 | 71 | 17 | 15 | — | — | 1 | 1 | 74 | 55 | 7 | — | 4 | — | 69 | 49 | 246 | 347 | 9 | 1 | 64 | 52 |

TABLE No. 23.—INFECTIOUS DISEASES DEATH RATES PER 100,000 POPULATION, 1949—1950

| Localities | Typhus | | Small-Pox | | Typhoid | | Scarlet F. | | Cerebro Spinal F. | | Diphtheria | | Measles | | Pulmonary Tuberculosis | | Acute Pneumonia | | Chicken pox | | Puerperal Sept | | Dysentery | |
|--------------------|--------|------|-----------|-------|---------|------|------------|----|-------------------|------|------------|-----|---------|------|------------------------|------|-----------------|-------|-------------|------|----------------|------|-----------|------|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo | 0.1 | 1.4 | — | — | 16.4 | 14.2 | — | — | 1.4 | 6.8 | 6.9 | 5.4 | 35.4 | 11.6 | 66.8 | 69.2 | 79.7 | 63.9 | 0.05 | 0.08 | 0.9 | 0.8 | 3.0 | 3.9 |
| Alexandria | 0.5 | — | — | — | 9.9 | 7.1 | — | — | 0.4 | 6.8 | 5.4 | 7.2 | 52.4 | 6.0 | 62.7 | 59.3 | 173.4 | 140.1 | 0.3 | — | 0.8 | 1.0 | 4.9 | 4.7 |
| Ismaïlia | — | — | — | — | 5.2 | 5.0 | — | — | — | 1.4 | 2.6 | 1.4 | 12.2 | 2.8 | 38.3 | 39.3 | 178.6 | 166.3 | — | — | — | — | 3.5 | 4.3 |
| Port Said | — | — | — | — | 12.2 | 13.8 | — | — | 1.6 | 3.1 | 10.0 | 2.6 | 8.5 | 4.6 | 69.3 | 75.7 | 23.8 | 25.0 | — | — | — | 0.5 | 2.1 | 1.5 |
| Damietta | — | — | — | — | 5.2 | 3.4 | — | — | — | 5.1 | 5.2 | 5.1 | 1.7 | — | 38.3 | 45.5 | 7.0 | 3.4 | — | — | — | — | 1.7 | 1.6 |
| Suez | — | — | — | — | 19.1 | 6.8 | — | — | — | 1.7 | 16.5 | 8.6 | 2.6 | — | 26.9 | 39.7 | 26.9 | 15.2 | — | — | — | 0.8 | — | 0.8 |
| Frontier Districts | — | 0.6 | — | — | 1.7 | 1.7 | — | — | — | 1.1 | 1.1 | 1.7 | 18.6 | 5.7 | 5.6 | 12.0 | 2.2 | 3.4 | — | 0.6 | 0.6 | — | — | 1.1 |
| Behera | 0.7 | 0.07 | — | — | 2.8 | 1.6 | — | — | — | 1.2 | 1.1 | 1.3 | 6.6 | 1.4 | 12.6 | 9.9 | 3.4 | 3.1 | 0.07 | — | 0.3 | — | 0.8 | 0.5 |
| Dakahlia | 1.3 | 0.2 | — | — | 1.1 | 2.0 | — | — | — | 0.4 | 1.3 | 1.0 | 7.1 | 0.4 | 10.2 | 15.6 | 2.9 | 1.8 | — | 0.3 | 0.1 | 0.4 | 0.4 | 0.07 |
| Fouadia | — | — | — | — | — | 0.4 | — | — | — | — | — | 0.9 | — | — | — | 4.4 | — | 2.1 | — | — | — | — | — | 0.2 |
| Gharbia | 0.04 | 0.1 | — | — | 1.8 | 2.3 | — | — | 0.2 | 1.7 | 3.3 | 4.7 | 3.1 | 0.06 | 8.3 | 11.1 | 10.1 | 14.7 | — | — | 0.2 | 0.2 | 0.8 | 0.5 |
| Menoufia | 0.4 | — | — | — | 1.6 | 1.0 | — | — | — | 0.6 | 3.1 | 2.9 | 4.6 | 1.8 | 8.0 | 7.9 | 4.4 | 4.0 | 0.08 | — | 0.2 | 0.08 | 0.3 | 0.2 |
| Qaliubia | — | 0.3 | — | — | 2.9 | 4.0 | — | — | — | 1.3 | 3.7 | 6.1 | 1.9 | — | 13.2 | 14.0 | 8.5 | 6.5 | — | — | 0.1 | — | 0.4 | 0.3 |
| Sharkia | 0.2 | 0.07 | — | — | 1.7 | 1.2 | — | — | 0.2 | 1.7 | 1.6 | 1.4 | 5.6 | 0.4 | 7.1 | 10.4 | 7.6 | 4.5 | — | — | 0.2 | 0.4 | 0.7 | — |
| Aswan | — | — | — | — | 0.7 | 0.6 | — | — | — | 1.0 | 5.2 | 1.0 | 1.6 | 1.3 | 13.8 | 22.6 | 19.0 | 9.3 | — | — | 0.4 | 0.3 | 1.3 | 1.3 |
| Assiut | — | 0.1 | — | — | 1.1 | 0.3 | — | — | — | 0.3 | 1.7 | 1.6 | 15.8 | 1.3 | 8.9 | 7.5 | 5.3 | 6.0 | — | — | 0.6 | 0.1 | 0.7 | — |
| Beni-Suef | — | — | — | — | 0.5 | 0.3 | — | — | 0.2 | 0.3 | 1.2 | 1.1 | 6.1 | 0.2 | 10.6 | 9.8 | 26.6 | 10.8 | 0.2 | — | 0.4 | — | 0.2 | — |
| Fayoum | — | — | — | — | 1.1 | 2.5 | — | — | 0.1 | 2.7 | 4.1 | 2.0 | 4.1 | 2.0 | 14.3 | 15.3 | 2.0 | 2.5 | — | — | 0.4 | 0.1 | 0.1 | 0.1 |
| Gerga | — | — | — | — | 1.5 | 1.6 | — | — | — | 0.9 | 0.9 | 1.0 | 18.4 | 3.0 | 3.3 | 3.6 | 3.6 | 6.7 | — | — | 0.07 | — | 0.4 | 0.5 |
| Giza | 0.8 | — | — | — | 8.0 | 18.2 | — | — | 1.2 | 3.6 | 4.1 | 7.6 | 14.2 | 1.6 | 17.7 | 21.2 | 12.2 | 12.2 | 0.1 | 0.03 | 0.03 | 0.7 | 0.03 | 0.3 |
| Minia | — | — | — | — | 0.7 | 0.4 | — | — | — | 0.8 | 2.7 | 2.0 | 6.2 | 4.8 | 7.4 | 7.3 | 4.0 | 1.7 | 0.09 | — | 0.2 | — | 0.5 | 0.08 |
| Qena | 0.09 | — | — | — | 1.1 | 0.8 | — | — | — | 0.08 | 1.4 | 0.6 | 8.2 | 4.7 | 4.0 | 4.2 | 8.8 | 8.3 | — | — | 0.3 | 0.4 | 0.3 | 0.2 |
| TOTAL | 0.3 | 0.08 | — | 0.005 | 4.1 | 4.1 | 0.005 | — | 0.3 | 2.0 | 3.0 | 2.9 | 13.0 | 2.9 | 19.1 | 20.2 | 24.6 | 21.5 | 0.03 | 0.2 | 0.4 | 0.3 | 1.0 | 1.0 |

TABLE No. 23.—(contd.)

| Localities | Influenza | | Malaria-New | | Malaria-Recurrent | | Anthrax | | Whooping C. | | Parotitis (Mumps) | | Undulant F. | | Leprosy | | Tetanus | | Acute Polkomyelitis | | Erysipelas | |
|------------------------|-----------|------|-------------|------|-------------------|----|---------|-------|-------------|------|-------------------|----|-------------|----|---------|-----|---------|-----|---------------------|-------|------------|------|
| | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 | 49 | 50 |
| Cairo ... | 0.6 | 0.4 | 0.1 | 1.4 | — | — | 0.06 | — | 0.5 | 0.5 | 0.9 | — | 0.05 | — | 0.3 | — | 1.1 | 1.4 | — | — | 0.8 | 0.8 |
| Alexandria ... | — | 0.2 | 0.1 | 0.1 | — | — | — | — | 0.7 | 1.7 | — | — | — | — | — | — | 0.2 | 3.2 | 0.04 | — | 1.0 | 1.0 |
| Ismailia ... | 0.9 | — | 0.9 | — | — | — | — | — | 0.9 | 0.7 | — | — | — | — | — | — | 2.6 | 2.1 | — | — | — | 0.7 |
| Port-Said ... | 0.5 | 1.0 | 0.5 | — | — | — | — | — | — | 0.5 | — | — | — | — | — | — | 1.6 | 2.0 | 1.0 | — | 1.0 | — |
| Damietta ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 5.2 | — | — | 1.7 | — | — |
| Suez ... | — | — | 0.9 | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.9 | 0.8 | — | — | — | — |
| Frontier Districts ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Behera... .. | 1.0 | 0.1 | — | 0.2 | — | — | — | — | — | — | — | — | — | — | — | — | 2.4 | 2.8 | — | — | 0.6 | 0.6 |
| Dakahlia ... | 0.4 | 0.3 | 0.07 | 0.07 | — | — | — | — | 0.3 | 0.07 | — | — | — | — | 0.08 | — | 1.1 | 1.7 | — | — | 0.2 | — |
| Fouadia ... | — | — | — | 0.1 | — | — | — | — | — | — | 0.1 | — | — | — | — | — | 1.8 | 1.6 | — | — | 0.07 | — |
| Gharbia ... | 0.2 | 0.2 | 0.1 | 0.06 | — | — | — | — | 0.1 | 0.1 | — | — | — | — | 0.04 | — | 1.1 | 1.8 | 0.04 | — | 0.2 | 0.2 |
| Menoufia ... | 0.4 | 0.08 | — | 0.2 | — | — | — | — | — | 0.2 | 0.08 | — | — | — | 0.7 | — | 1.1 | 2.7 | 0.08 | — | 0.4 | 0.08 |
| Qalubia ... | 0.3 | 0.5 | 0.1 | — | — | — | — | — | — | 0.1 | — | — | 0.1 | — | 0.8 | — | 1.4 | 2.5 | — | — | 0.1 | 0.3 |
| Sharkia ... | — | 0.4 | 0.07 | — | — | — | — | — | 0.3 | 0.07 | — | — | — | — | — | — | 1.1 | 1.2 | — | — | 0.2 | 0.3 |
| Aswan ... | 2.6 | 0.3 | — | — | — | — | — | — | — | — | — | — | — | — | 0.3 | — | — | — | — | — | — | — |
| Assut ... | 0.1 | 0.3 | — | — | — | — | — | — | 0.1 | 0.5 | — | — | — | — | 0.2 | — | 0.1 | 1.7 | — | — | 0.2 | 0.1 |
| Beni Suef ... | 2.0 | 1.5 | — | — | — | — | — | — | 0.8 | — | — | — | — | — | 0.2 | — | 0.4 | 1.5 | — | — | 0.2 | 0.2 |
| Fayoum ... | — | 0.4 | — | — | — | — | — | — | 1.0 | — | — | — | — | — | 0.4 | — | 0.4 | 0.7 | — | — | 0.1 | 0.4 |
| Gerga ... | — | 0.1 | — | — | — | — | — | — | — | — | 0.07 | — | — | — | 0.01 | — | 1.0 | 1.0 | 0.1 | — | 0.07 | — |
| Giza ... | 0.03 | — | 0.03 | 0.1 | — | — | — | — | 0.6 | 0.7 | — | — | 0.03 | — | 1.9 | — | 1.8 | 2.5 | — | — | 0.2 | 0.2 |
| Minia ... | 0.7 | 1.2 | — | — | — | — | — | — | — | — | — | — | — | — | 0.8 | — | 1.5 | 1.6 | — | — | 0.4 | 0.2 |
| Qena ... | 0.3 | 0.3 | 0.09 | — | — | — | — | — | — | 0.2 | — | — | — | — | 0.6 | — | 0.6 | 0.5 | — | — | — | — |
| TOTAL ... | 0.4 | 0.3 | 0.09 | 0.07 | — | — | 0.005 | 0.005 | 0.4 | 0.3 | 0.04 | — | 0.02 | — | 0.3 | 0.2 | 1.4 | 1.7 | 0.05 | 0.005 | 0.3 | 0.3 |

Typhoid

TABLE NO. 24.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION, 1950

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|-----------|----------------|------------|---------------|------------|----------------|------------|--------------|------------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 480 | 43 | 1047 | 78 | 1716 | 160 | 659 | 47 | 3,902 | 319 | 174.5 |
| Alexandria | 101 | 9 | 162 | 8 | 304 | 43 | 167 | 11 | 734 | 71 | 73.0 |
| Ismailia | 6 | — | 8 | 2 | 25 | 5 | 3 | — | 42 | 7 | 30.0 |
| Port-said... .. | 81 | — | 200 | 3 | 152 | 15 | 229 | 9 | 1,062 | 27 | 542.9 |
| Domietta | 4 | — | 8 | — | 22 | 1 | 10 | 1 | 44 | 2 | 74.2 |
| Suez... .. | 11 | — | 31 | 4 | 67 | 3 | 37 | 1 | 146 | 8 | 123.4 |
| TOTAL Governorates | 683 | 43 | 1456 | 95 | 2,686 | 227 | 1,105 | 69 | 5,530 | 434 | 157.9 |
| Frontier Districts ... | 3 | 1 | 3 | — | 8 | 2 | 2 | — | 16 | 3 | 9.1 |
| Behera | 19 | 3 | 35 | 2 | 109 | 7 | 64 | 9 | 227 | 21 | 17.0 |
| Dakahlia | 21 | 8 | 48 | 6 | 89 | 10 | 39 | 7 | 197 | 31 | 12.9 |
| Fouadia | 1 | — | 7 | 1 | 10 | 1 | 1 | 1 | 19 | 3 | 2.3 |
| Gharbia | 24 | 3 | 52 | 6 | 127 | 29 | 50 | 1 | 248 | 39 | 14.5 |
| Menoufia... .. | 13 | 3 | 16 | 1 | 3 | 3 | 17 | 6 | 81 | 13 | 6.5 |
| Qaliubia | 9 | 1 | 27 | 5 | 96 | 10 | 41 | 8 | 173 | 30 | 23.1 |
| Sharkia | 13 | 3 | 14 | 1 | 43 | 9 | 28 | 4 | 98 | 17 | 7.1 |
| TOTAL Lower Egypt | 100 | 21 | 199 | 22 | 504 | 75 | 240 | 36 | 1,043 | 154 | 11.9 |
| Aswan | 1 | — | 4 | 2 | 1 | 0 | 6 | — | 12 | 2 | 3.9 |
| Assiut | 23 | 2 | 21 | — | 63 | 9 | 61 | 9 | 168 | 20 | 11.5 |
| Beni-Suef | 4 | — | 4 | — | 15 | 1 | 11 | 1 | 34 | 2 | 5.2 |
| Fayoum | 8 | 2 | 28 | 2 | 43 | 9 | 16 | 5 | 95 | 18 | 13.3 |
| Gerga | 6 | 1 | 22 | 6 | 45 | 10 | 47 | 5 | 120 | 22 | 8.8 |
| Giza | 25 | 4 | 64 | 36 | 168 | 102 | 101 | 25 | 358 | 167 | 39.1 |
| Minia | 10 | — | 14 | 2 | 16 | 1 | 23 | 2 | 66 | 5 | 5.9 |
| Qena | 7 | — | 14 | 6 | 7 | 2 | 16 | 1 | 44 | 9 | 3.8 |
| TOTAL Upper Egypt | 84 | 9 | 171 | 54 | 358 | 137 | 284 | 48 | 897 | 245 | 11.9 |
| GRAND TOTAL ... | 870 | 74 | 1,820 | 171 | 3,556 | 438 | 1,631 | 153 | 7,886 | 836 | 38.7 |

Cerebro Spinal Fever

**TABLE NO. 25.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION**

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|------------|----------------|------------|---------------|-----------|----------------|-----------|--------------|------------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 807 | 92 | 398 | 41 | 60 | 14 | 42 | 6 | 1307 | 153 | 58.4 |
| Alexandria | 174 | 27 | 183 | 27 | 39 | 12 | 7 | 2 | 403 | 68 | 40.0 |
| Ismailia | 10 | 1 | 8 | 1 | 1 | — | — | — | 19 | 2 | 13.6 |
| Port-Saïd | 41 | 5 | 18 | — | 8 | — | 7 | 1 | 74 | 6 | 37.8 |
| Damietta | 3 | 2 | 4 | 1 | — | — | — | — | 7 | 3 | 11.8 |
| Suez... .. | 27 | 2 | 15 | — | — | — | — | — | 42 | 2 | 35.5 |
| TOTAL Governorates | 1,062 | 129 | 626 | 73 | 108 | 26 | 56 | 9 | 1,852 | 234 | 49.3 |
| Frontier Districts ... | 5 | 2 | 2 | — | — | — | — | — | 7 | 2 | 4.0 |
| Behera | 16 | 6 | 35 | 7 | 8 | 3 | 3 | — | 62 | 16 | 4.6 |
| Dakahlia | 24 | 3 | 24 | 2 | — | 1 | 2 | — | 50 | 6 | 3.3 |
| Fouadia | 4 | — | 1 | — | — | — | — | — | 5 | — | 0.6 |
| Gharbia | 51 | 4 | 76 | 16 | 13 | 5 | 8 | 3 | 148 | 28 | 8.7 |
| Menoufia... .. | 9 | 1 | 12 | 5 | — | 1 | 1 | — | 22 | 7 | 1.8 |
| Qaliubia | 27 | 4 | 10 | 4 | 6 | 2 | 2 | — | 45 | 10 | 6.0 |
| Sharkia | 35 | 8 | 37 | 11 | 1 | 2 | 3 | 2 | 76 | 23 | 5.5 |
| TOTAL Lower Egypt | 166 | 26 | 195 | 45 | 28 | 14 | 19 | 5 | 408 | 93 | 4.7 |
| Aswan | 4 | 1 | 6 | 2 | — | — | — | — | 10 | 3 | 3.2 |
| Assiut | 34 | 6 | 29 | 4 | 3 | 1 | 4 | 1 | 70 | 12 | 4.8 |
| Beni-Suef | 4 | 1 | 3 | 1 | — | — | — | — | 7 | 2 | 1.1 |
| Fayoum | 3 | 1 | 1 | 1 | — | — | — | — | 4 | 2 | 0.6 |
| Gerga | 13 | 7 | 19 | 2 | 3 | 3 | 7 | — | 42 | 12 | 3.1 |
| Giza | 53 | 18 | 41 | 10 | — | 5 | 5 | — | 99 | 33 | 10.8 |
| Minia | 7 | 4 | 8 | 5 | 1 | 1 | — | — | 16 | 10 | 1.4 |
| Qena | 1 | 0 | 1 | 1 | — | — | 2 | — | 6 | 1 | 0.5 |
| TOTAL Upper Egypt | 119 | 38 | 168 | 26 | 9 | 10 | 18 | 1 | 254 | 75 | 3.3 |
| GRAND TOTAL ... | 1,352 | 195 | 931 | 141 | 145 | 50 | 93 | 15 | 2,521 | 401 | 12.4 |

Acute Pneumonia

TABLE NO. 26 —QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION.

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000. Population |
|---------------------------|---------------|-------------|----------------|-------------|---------------|------------|----------------|------------|-------------|-------------|-----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 644 | 416 | 585 | 369 | 420 | 327 | 494 | 317 | 2163 | 1429 | 96.7 |
| Alexandria | 725 | 437 | 849 | 336 | 751 | 338 | 654 | 298 | 2979 | 1409 | 296.2 |
| Ismailia | 11 | 75 | 6 | 51 | 6 | 41 | 7 | 66 | 30 | 233 | 21.4 |
| Port-Saïd | 72 | 10 | 113 | 11 | 37 | 14 | 66 | 14 | 288 | 49 | 147.2 |
| Damietta | 8 | — | 5 | — | 4 | 2 | — | — | 17 | 2 | 28.7 |
| Suez... .. | 42 | 7 | 39 | 5 | 25 | 6 | 19 | — | 125 | 18 | 105.7 |
| TOTAL Governorates | 1522 | 945 | 1597 | 772 | 1243 | 728 | 1240 | 695 | 5602 | 3140 | 149.0 |
| Frontier Districts... | 6 | 1 | 4 | 1 | 5 | 2 | 4 | 2 | 19 | 6 | 10.8 |
| Behera | 9 | 9 | 16 | 13 | 11 | 8 | 18 | 11 | 54 | 41 | 4.0 |
| Dakahlia | 13 | 7 | 17 | 8 | 9 | 6 | 7 | 6 | 46 | 27 | 3.0 |
| Fouadia | 8 | 10 | 4 | 4 | 4 | 3 | 1 | — | 17 | 17 | 2.1 |
| Gharbia | 32 | 112 | 44 | 82 | 15 | 21 | 23 | 35 | 114 | 250 | 6.7 |
| Menoufia... .. | 8 | 16 | 11 | 11 | 2 | 5 | 4 | 18 | 25 | 50 | 2.0 |
| Qaliubia | 35 | 9 | 23 | 8 | 14 | 20 | 9 | 12 | 81 | 49 | 10.8 |
| Sharkia | 3 | 16 | 12 | 21 | 3 | 5 | 4 | 20 | 22 | 62 | 1.6 |
| TOTAL Lower Egypt | 108 | 179 | 127 | 147 | 58 | 68 | 66 | 102 | 359 | 496 | 4.1 |
| Aswan | 5 | 41 | 1 | 113 | 1 | 45 | 1 | 46 | 8 | 245 | 2.6 |
| Assiut | 27 | 16 | 45 | 30 | 14 | 25 | 12 | 16 | 98 | 87 | 6.7 |
| Beni-Suef | 4 | 29 | 2 | 18 | 1 | 13 | 1 | 11 | 8 | 71 | 1.2 |
| Fayoum | 8 | 5 | 13 | 5 | 3 | 4 | 9 | 4 | 33 | 18 | 4.6 |
| Gerga | 27 | 38 | 14 | 11 | 10 | 14 | 8 | 28 | 59 | 91 | 4.3 |
| Giza | 30 | 26 | 42 | 39 | 32 | 34 | 18 | 13 | 122 | 112 | 13.3 |
| Minia | 10 | 5 | 11 | 9 | 3 | 3 | 10 | 2 | 34 | 19 | 3.0 |
| Qena | 14 | 42 | 13 | 18 | 3 | 8 | 14 | 30 | 44 | 98 | 3.8 |
| TOTAL Upper Egypt | 125 | 202 | 141 | 243 | 67 | 146 | 73 | 150 | 406 | 741 | 5.3 |
| GRAND TOTAL ... | 1761 | 1327 | 1869 | 1163 | 1373 | 944 | 1383 | 949 | 6386 | 4383 | 31.3 |

Chicken Pox

TABLE NO. 27.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION.

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|----------|----------------|----------|---------------|----------|----------------|----------|-------------|----------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 254 | 1 | 380 | 1 | 26 | — | 71 | — | 731 | 2 | 32·7 |
| Alexandria | 195 | — | 327 | — | 13 | — | 36 | — | 571 | — | 56·8 |
| Ismailia | — | — | 1 | — | 1 | — | — | — | 2 | — | 1·4 |
| Port-Saïd | 55 | — | 125 | — | 2 | — | 14 | — | 196 | — | 100·2 |
| Damietta | — | — | 5 | — | — | — | — | — | 5 | — | 8·4 |
| Suez | 21 | — | 34 | — | 1 | — | 2 | — | 58 | — | 49·0 |
| TOTAL Governorates | 525 | 1 | 872 | 1 | 43 | — | 123 | — | 1563 | 2 | 41·6 |
| Frontier Districts | 32 | — | 3 | — | 2 | — | — | — | 37 | — | 21·1 |
| Behera | 5 | 1 | 52 | — | — | — | 12 | — | 69 | 1 | 5·2 |
| Dakahlia | 4 | — | 9 | — | — | — | 6 | — | 19 | — | 1·2 |
| Fouadia | 4 | — | 7 | — | 4 | — | — | — | 15 | — | 1·9 |
| Gharbia | 34 | — | 38 | — | 2 | — | 12 | — | 86 | — | 5·0 |
| Menoufia | 5 | — | 9 | — | 1 | — | 4 | — | 19 | — | 1·5 |
| Qaliubia | 6 | — | 16 | — | — | — | 12 | — | 34 | — | 4·5 |
| Sharkia | 16 | — | 38 | — | 1 | — | 3 | — | 58 | — | 4·0 |
| TOTAL Lower Egypt | 74 | 1 | 169 | — | 8 | — | 49 | — | 300 | 1 | 3·4 |
| Aswan | — | — | 3 | — | — | — | — | — | 3 | — | 1·0 |
| Assiut | 2 | — | 10 | — | — | — | — | — | 12 | — | 0·8 |
| Beni-Suef | 4 | — | 8 | — | — | — | 1 | 1 | 13 | 1 | 2·0 |
| Fayoum | 2 | — | 14 | — | 2 | — | 1 | — | 19 | — | 2·7 |
| Gerga | 9 | — | 3 | — | — | — | — | — | 12 | — | 0·9 |
| Giza | 24 | 1 | 20 | — | — | — | 27 | — | 71 | 1 | 7·8 |
| Minia | 3 | — | 8 | — | — | — | — | — | 11 | — | 1·0 |
| Qena | 2 | — | — | — | — | — | — | — | 2 | — | 0·2 |
| TOTAL Upper Egypt | 46 | 1 | 66 | — | 2 | — | 29 | 1 | 143 | 2 | 1·9 |
| GRAND TOTAL ... | 677 | 3 | 1110 | 1 | 55 | — | 201 | 1 | 2043 | 5 | 10·0 |

Measles

TABLE No. 28.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION.

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|-----------|----------------|------------|---------------|------------|----------------|------------|--------------|------------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 31 | 8 | 192 | 101 | 219 | 108 | 144 | 43 | 586 | 260 | 26.2 |
| Alexandria | 23 | 1 | 367 | 18 | 337 | 34 | 453 | 7 | 1,180 | 60 | 117.3 |
| Ismailia | — | 1 | — | 2 | 1 | 1 | — | — | 1 | 4 | 0.7 |
| Port-Said | 1 | — | 17 | 2 | 17 | 3 | 50 | 4 | 85 | 9 | 43.5 |
| Damietta | — | — | — | — | — | — | — | — | — | — | — |
| Suez... .. | 4 | — | — | — | 1 | — | 3 | — | 8 | — | 6.8 |
| TOTAL Governorates | 59 | 10 | 576 | 123 | 575 | 146 | 650 | 54 | 1,860 | 333 | 59.5 |
| Frontier Districts ... | 3 | 3 | — | — | 7 | — | 89 | 7 | 99 | 10 | 56.4 |
| Behera | 20 | 2 | 34 | 13 | 4 | 4 | 2 | — | 60 | 19 | 4.5 |
| Dakahlia | 12 | — | 13 | 6 | 2 | — | 1 | — | 28 | 6 | 1.8 |
| Fouadia | — | — | 9 | — | — | — | — | — | 9 | — | 1.1 |
| Gharbia | 8 | — | 18 | 1 | 29 | — | 7 | — | 62 | 1 | 3.6 |
| Menoufia... .. | 29 | 12 | 20 | 3 | 2 | — | 120 | 8 | 171 | 23 | 13.7 |
| Qaliubia | — | — | 6 | — | 4 | — | 1 | — | 11 | — | 1.5 |
| Sharkia | — | — | 7 | — | 1 | — | 9 | 5 | 17 | 5 | 1.2 |
| TOTAL Lower Egypt | 69 | 14 | 137 | 23 | 42 | 4 | 140 | 13 | 358 | 54 | 4.1 |
| Aswan | — | — | — | — | — | 2 | — | — | — | 2 | — |
| Assiut | 15 | 1 | 7 | 11 | 5 | 3 | 5 | 4 | 32 | 19 | 2.2 |
| Beni-Suef | 7 | — | 13 | — | 8 | 1 | 1 | — | 29 | 1 | 4.4 |
| Fayoum | 4 | — | 7 | — | 2 | — | 49 | 14 | 62 | 14 | 8.7 |
| Gerga | 49 | 35 | 5 | — | 20 | 5 | 13 | 1 | 87 | 41 | 6.4 |
| Giza | 2 | — | 13 | 6 | 6 | 7 | 11 | 2 | 32 | 15 | 3.5 |
| Minia | 11 | 5 | 178 | 34 | 141 | 8 | 49 | 7 | 379 | 54 | 33.7 |
| Qena | 30 | 13 | 84 | 32 | 12 | 9 | 4 | 1 | 130 | 55 | 11.1 |
| TOTAL Upper Egypt | 118 | 54 | 307 | 83 | 194 | 35 | 132 | 29 | 751 | 201 | 9.7 |
| GRAND TOTAL ... | 249 | 81 | 990 | 229 | 818 | 185 | 1,011 | 163 | 3,668 | 598 | 15.0 |

Diphtheria

TABLE No. 29.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 POPULATION.

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|--------------------------|---------------|-----------|----------------|-----------|---------------|------------|----------------|------------|--------------|------------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 110 | 26 | 94 | 19 | 149 | 29 | 185 | 46 | 538 | 120 | 24.1 |
| Alexandria | 69 | 15 | 23 | 4 | 53 | 18 | 112 | 35 | 257 | 72 | 25.6 |
| Ismailia | 2 | 1 | 1 | — | 3 | — | 7 | 1 | 13 | 2 | 9.3 |
| Port-Saïd | 16 | 1 | 13 | — | 4 | 2 | 9 | 2 | 42 | 5 | 21.5 |
| Suez | 2 | 1 | — | — | — | 1 | 1 | 1 | 3 | 3 | 5.1 |
| Damietta | 8 | 1 | 3 | 1 | 2 | 1 | 7 | 5 | 20 | 8 | 16.9 |
| TOTAL Governorate | 207 | 45 | 134 | 24 | 211 | 51 | 321 | 90 | 873 | 210 | 23.3 |
| Frontier Districts | 2 | 1 | — | — | — | — | 1 | 2 | 3 | 3 | 1.7 |
| Bahra | 4 | 2 | 6 | 2 | 9 | 4 | 18 | 9 | 37 | 17 | 2.8 |
| Dakahlia | 7 | 1 | 5 | — | 13 | 8 | 8 | 6 | 33 | 15 | 2.2 |
| Fouadia | — | — | 3 | 2 | 5 | 4 | 3 | 1 | 11 | 7 | 1.4 |
| Gharbia | 9 | 8 | 18 | 12 | 32 | 32 | 49 | 29 | 108 | 81 | 6.3 |
| Meroufia | 4 | 3 | 5 | 1 | 12 | 17 | 12 | 15 | 33 | 36 | 2.7 |
| Qaliubia | 6 | 2 | 4 | 5 | 20 | 16 | 29 | 23 | 59 | 46 | 7.9 |
| Sharkia | 8 | 5 | 14 | 2 | 10 | 4 | 22 | 8 | 54 | 19 | 3.9 |
| TOTAL Lower Egypt | 38 | 21 | 55 | 24 | 101 | 85 | 141 | 91 | 335 | 221 | 3.8 |
| Assuan | 1 | 1 | 2 | 1 | — | — | — | — | 3 | 2 | 1.0 |
| Assiut | 10 | 3 | 9 | 6 | 6 | 3 | 26 | 11 | 51 | 23 | 3.5 |
| Beni-Suef | — | 1 | 2 | 1 | 4 | 2 | 8 | 3 | 14 | 7 | 2.2 |
| Fayoum | 5 | 4 | — | — | 3 | 3 | 14 | 12 | 22 | 19 | 3.1 |
| Gerga | 2 | 2 | 2 | 4 | 3 | 3 | 5 | 4 | 12 | 13 | 0.9 |
| Giza | 7 | 9 | 8 | 9 | 13 | 28 | 14 | 24 | 42 | 70 | 4.6 |
| Minia | 4 | 3 | 3 | 2 | 7 | 4 | 12 | 13 | 26 | 22 | 2.3 |
| Qena | 1 | 1 | 3 | 2 | 1 | 1 | 3 | 3 | 8 | 7 | 0.7 |
| TOTAL Upper Egypt | 30 | 24 | 29 | 25 | 37 | 44 | 82 | 70 | 178 | 163 | 2.3 |
| GRAND TOTAL ... | 277 | 91 | 218 | 73 | 349 | 180 | 545 | 253 | 1,389 | 597 | 6.8 |

Dysentery

**TABLE NO. 30— QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE RATES
PER 100,000 OF POPULATION**

| Localities | First Quarter | | Second Quarter | | Third Quarter | | Fourth Quarter | | TOTAL | | Case-rate per 100,000 Population |
|---------------------------|---------------|-----------|----------------|-----------|---------------|-----------|----------------|-----------|--------------|------------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 18 | 12 | 43 | 12 | 77 | 42 | 41 | 21 | 179 | 87 | 8.0 |
| Alexandria | 30 | 8 | 83 | 12 | 109 | 14 | 39 | 13 | 261 | 47 | 26.0 |
| Ismailia | — | — | — | 1 | 1 | 2 | 1 | 3 | 2 | 6 | 1.4 |
| Port-Said | 7 | — | 11 | — | 10 | 1 | 4 | 2 | 32 | 3 | 16.4 |
| Damietta | — | — | — | — | — | — | — | 1 | — | 1 | — |
| Suez... .. | 6 | — | 31 | — | 23 | — | 7 | 1 | 67 | 1 | 56.6 |
| TOTAL Governorates | 61 | 20 | 168 | 25 | 220 | 59 | 92 | 41 | 541 | 145 | 14.4 |
| Frontier Districts... | 11 | — | 17 | — | 10 | 1 | 14 | 1 | 52 | 2 | 29.6 |
| Behera | 3 | 3 | 2 | — | 1 | 3 | 1 | 1 | 7 | 7 | 0.5 |
| Dakahlia... .. | 1 | — | 7 | 1 | 8 | — | 5 | — | 21 | 1 | 1.4 |
| Fouadia | 7 | — | 5 | — | 10 | — | 7 | 2 | 29 | 2 | 3.6 |
| Gharbia | 9 | 1 | 7 | 3 | 8 | 3 | 1 | 1 | 25 | 8 | 1.5 |
| Menoufia | — | 1 | 7 | — | 4 | 1 | 1 | 1 | 12 | 3 | 1.0 |
| Qaliubia | 1 | — | 7 | — | 2 | — | 5 | 2 | 15 | 2 | 2.0 |
| Sharkia | 1 | 1 | 9 | 2 | 11 | — | 42 | — | 63 | 3 | 4.6 |
| TOTAL Lower Egypt | 22 | 6 | 44 | 6 | 44 | 7 | 62 | 7 | 172 | 26 | 2.0 |
| Aswan | 3 | — | 2 | — | 2 | — | — | — | 7 | — | 2.3 |
| Assiut | 5 | 4 | 18 | 2 | 15 | 5 | 10 | 8 | 48 | 19 | 3.3 |
| Beni-Suef | 2 | — | 2 | — | 2 | — | — | — | 6 | — | 0.9 |
| Fayoum | 28 | — | 42 | — | 6 | — | 4 | — | 80 | — | 8.4 |
| Gerga | 1 | 1 | 5 | — | 8 | 1 | 5 | — | 19 | 2 | 1.4 |
| Giza... .. | — | 1 | 1 | 1 | 4 | 1 | — | 2 | 5 | 5 | 0.5 |
| Minia | 39 | 1 | 35 | — | 29 | 2 | 107 | — | 210 | 3 | 18.7 |
| Qena | 3 | — | 15 | — | 20 | — | 12 | 1 | 50 | 1 | 4.3 |
| TOTAL Upper Egypt | 81 | 7 | 120 | 3 | 86 | 9 | 138 | 11 | 425 | 30 | 5.5 |
| GRAND TOTAL ... | 175 | 33 | 349 | 34 | 360 | 76 | 306 | 60 | 1,190 | 203 | 5.8 |

Influenza

TABLE No. 31.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION.

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|-----------|----------------|-----------|---------------|-----------|----------------|-----------|-------------|-----------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 589 | 5 | 834 | — | 969 | 2 | 390 | 2 | 2782 | 9 | 124·4 |
| Alexandria | 375 | 1 | 618 | — | 740 | — | 424 | 1 | 2157 | 2 | 214·5 |
| Ismailia | 2 | — | 13 | — | 16 | — | 4 | — | 35 | — | 25·0 |
| Port-Saïd | 156 | 2 | 221 | — | 204 | — | 96 | — | 677 | 2 | 346·1 |
| Suez... .. | 14 | — | 10 | — | 12 | — | 5 | — | 41 | — | 69·1 |
| Damietta | 11 | — | 23 | — | 19 | — | 13 | — | 66 | — | 55·7 |
| TOTAL Governorates | 1147 | 8 | 1719 | — | 1960 | 2 | 932 | 3 | 5758 | 13 | 153·3 |
| Frontier Districts... | 5 | — | 10 | — | 5 | — | — | — | 20 | — | 11·4 |
| Behera | 15 | — | 49 | 1 | 40 | 1 | 29 | — | 133 | 2 | 9·9 |
| Dakahlia | 49 | 1 | 55 | 1 | 46 | 1 | 22 | 1 | 172 | 4 | 11·3 |
| Fouadia | 21 | — | 20 | — | 16 | — | 5 | — | 62 | — | 7·7 |
| Gharbia | 43 | — | 103 | 1 | 96 | 1 | 39 | 1 | 281 | 3 | 16·5 |
| Menoufia... .. | 20 | — | 38 | 1 | 33 | — | 23 | — | 114 | 1 | 9·2 |
| Qaliubia | 28 | — | 70 | 1 | 82 | 2 | 53 | 1 | 233 | 4 | 31·1 |
| Sharkia | 13 | — | 29 | — | 31 | 5 | 13 | 1 | 86 | 6 | 6·3 |
| TOTAL Lower Egypt | 189 | 1 | 364 | 5 | 344 | 10 | 184 | 4 | 1081 | 20 | 12·4 |
| Aswan | 11 | — | 7 | — | 11 | — | 10 | 1 | 39 | 1 | 12·6 |
| Assiut | 58 | 1 | 56 | 2 | 80 | 1 | 45 | 1 | 239 | 5 | 16·4 |
| Beni-Suef | 5 | — | 22 | 7 | 19 | 1 | 11 | 2 | 57 | 10 | 8·7 |
| Fayoum | 7 | — | 6 | 2 | 8 | — | 7 | 1 | 28 | 3 | 3·9 |
| Gerga | 10 | — | 16 | 2 | 19 | — | 22 | — | 67 | 2 | 4·9 |
| Giza | 20 | — | 85 | — | 90 | — | 38 | — | 233 | — | 25·5 |
| Minia | 35 | 2 | 61 | 6 | 28 | 4 | 22 | 1 | 146 | 13 | 13·0 |
| Qena | 26 | — | 35 | 1 | 23 | 1 | 29 | 2 | 113 | 4 | 9·6 |
| TOTAL Upper Egypt | 172 | 3 | 288 | 20 | 278 | 7 | 184 | 8 | 922 | 38 | 11·9 |
| GRAND TOTAL ... | 1513 | 12 | 2381 | 25 | 2587 | 19 | 1300 | 15 | 7781 | 71 | 38·2 |

Malaria New

TABLE No. 32.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|----------|----------------|----------|---------------|----------|----------------|----------|--------------|-----------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 14 | 1 | 122 | 1 | 239 | — | 134 | 2 | 509 | 4 | 22·8 |
| Alexandria | 7 | — | 18 | — | 48 | 1 | 18 | — | 91 | 1 | 9·0 |
| Ismailia | 5 | — | 13 | — | 21 | — | 17 | — | 56 | — | 40·0 |
| Port-Said | — | — | 21 | — | 37 | — | 19 | — | 77 | — | 39·4 |
| Damietta | — | — | 3 | — | 10 | — | 1 | — | 14 | — | 23·6 |
| Suez... .. | — | — | 3 | — | 8 | — | 1 | — | 12 | — | 10·1 |
| TOTAL Governorates | 26 | 1 | 180 | 1 | 363 | 1 | 190 | 2 | 759 | 5 | 20·2 |
| Frontier Districts... | 14 | — | 6 | — | 10 | — | 123 | — | 153 | — | 87·1 |
| Behera | 1 | — | 6 | 1 | 42 | 1 | 139 | 1 | 188 | 3 | 14·0 |
| Dakahlia | 9 | — | 36 | 1 | 135 | — | 91 | — | 271 | 1 | 17·7 |
| Fouadia | 74 | — | 25 | 1 | 65 | — | 18 | — | 182 | 1 | 22·5 |
| Gharbia | 3 | — | 20 | — | 66 | 1 | 40 | — | 129 | 1 | 7·6 |
| Menoufia... .. | 2 | — | 4 | 1 | 13 | — | 7 | 2 | 26 | 3 | 2·1 |
| Qaliubia | 9 | — | 102 | — | 217 | — | 90 | — | 418 | — | 55·8 |
| Sharkia | 25 | — | 264 | — | 428 | — | 208 | — | 925 | — | 67·4 |
| TOTAL Lower Egypt | 123 | — | 457 | 4 | 966 | 2 | 593 | 3 | 2,139 | 9 | 24·5 |
| Aswan | — | — | — | — | — | — | — | — | — | — | — |
| Assiut | 1 | — | 10 | — | 32 | — | 29 | — | 72 | — | 4·9 |
| Beni-Suef | 1 | — | 2 | — | 100 | — | 136 | — | 239 | — | 36·5 |
| Fayoum | 12 | — | 9 | — | 13 | — | 26 | — | 60 | — | 8·4 |
| Gerga | — | — | 1 | — | 7 | — | 4 | — | 12 | 1 | 0·9 |
| Giza | 7 | — | 65 | — | 116 | — | 66 | 1 | 254 | — | 27·7 |
| Minia | 10 | — | 142 | — | 201 | — | 162 | — | 515 | — | 45·8 |
| Qena | 1 | — | 4 | — | 15 | — | 28 | — | 48 | — | 4·1 |
| TOTAL Upper Egypt | 32 | — | 233 | — | 484 | — | 451 | 1 | 1,260 | 1 | 15·6 |
| GRAND TOTAL ... | 195 | 1 | 876 | 5 | 1,823 | 3 | 1,357 | 6 | 4,251 | 15 | 20·8 |

Whooping Cough

TABLE NO. 33.—QUARTERLY DISTRIBUTION OF CASES, DEATHS AND CASE-RATES
PER 100,000 OF POPULATION

| Localities | First quarter | | Second quarter | | Third quarter | | Fourth quarter | | TOTAL | | Case rate per 100,000 Population |
|---------------------------|---------------|-----------|----------------|-----------|---------------|----------|----------------|-----------|------------|-----------|----------------------------------|
| | C | D | C | D | C | D | C | D | C | D | |
| Cairo | 32 | 3 | 40 | 1 | 31 | 4 | 33 | 3 | 136 | 11 | 6.1 |
| Alexanadria | 72 | 6 | 99 | 8 | 68 | 3 | 28 | — | 267 | 17 | 26.6 |
| Ismailia | 3 | 1 | — | — | — | — | — | — | 3 | 1 | 2.1 |
| Port-Saïd | — | — | — | — | 4 | — | 1 | 1 | 5 | 1 | 2.6 |
| Damietta | — | — | — | — | — | — | — | — | — | — | — |
| Suez... .. | 1 | — | 10 | — | 1 | — | — | — | 12 | — | 10.1 |
| TOTAL Governorates | 108 | 10 | 149 | 9 | 104 | 7 | 62 | 4 | 423 | 30 | 11.3 |
| Frontier Districts ... | — | — | — | — | — | — | — | — | — | — | — |
| Behera | 5 | — | 15 | 1 | — | — | 1 | — | 21 | 1 | 1.6 |
| Dakahlia | 1 | — | 2 | — | — | 1 | — | — | 3 | 1 | 0.2 |
| Fouadia | — | — | — | — | — | — | — | — | — | — | — |
| Gharbia | 30 | — | 1 | 1 | 1 | — | 3 | 1 | 35 | 2 | 2.1 |
| Menoufia | 5 | — | 3 | — | 2 | — | 19 | 3 | 29 | 3 | 2.3 |
| Qaliubia | 5 | 1 | 1 | — | — | — | — | — | 6 | 1 | 0.8 |
| Sharkia | 2 | 1 | 12 | — | 2 | — | 4 | — | 20 | 1 | 1.5 |
| TOTAL Lower Egypt | 48 | 2 | 34 | 2 | 5 | 1 | 27 | 4 | 114 | 9 | 1.3 |
| Aswan | — | — | — | — | — | — | 7 | — | 7 | — | 2.3 |
| Assiut | 6 | — | 19 | 7 | — | — | 2 | 1 | 27 | 8 | 1.8 |
| Beni-Suef | — | — | — | — | — | — | — | — | — | — | — |
| Fayoum | 19 | — | 67 | — | 6 | — | 2 | — | 94 | — | 13.2 |
| Gerga | 5 | — | — | — | — | — | — | — | 5 | — | 0.4 |
| Giza | 132 | 2 | 60 | 3 | 4 | — | 51 | 1 | 247 | 6 | 27.0 |
| Minia | 8 | — | 16 | — | 2 | — | 1 | — | 27 | — | 2.4 |
| Qena | 36 | 2 | 9 | — | — | — | — | — | 45 | 2 | 3.8 |
| TOTAL Upper Egypt | 206 | 4 | 171 | 10 | 12 | — | 63 | 2 | 452 | 16 | 5.9 |
| GRAND TOTAL ... | 362 | 16 | 354 | 21 | 121 | 8 | 152 | 10 | 989 | 55 | 4.8 |

Chapter III.—Frontier Districts Medical Service.

Health Statistics :

According to the 1947 census, the population of the frontier districts was 185,187.

During the year under review, 7,884 births or 4.2 per thousand of the population were recorded as against 4.4 per thousand in 1949. Deaths totalled 2,654 or 1.43 per thousand of the population as against 1.58 per thousand in the previous year.

The lower death rate this year is attributed to secret burialpr actised by bedouins scattered all over the deserts, especially the Western and Sinai deserts.

Infantile deaths under one year of age numbered 1,026 i.e. 38% of total deaths ; main causes being congenital debility and enteritis. In Tor town with a population of 1,550 inhabitants, 58 births and 62 deaths were recorded during the year. The high mortality is explained by the recording of deaths occuring among pilgrims in segregation at Tor lazaret.

Preliminary Anti Small Pox Vaccination :

Of a total of 7,523 infants receiving anti small pox preliminary vaccination, 6,699 or 89% were successful.

Protective Measures and Disinfection :

These duties have so far been performed by inexperienced hospital personnel. It has been decided to appoint ten disinfectors to these districts. Five of these have already been appointed.

Infectious Diseases :

With the exception of 12 cases recorded in Amria district, no cases of typhus were notified from all frontier districts. Seven cases of cerebro spinal fever were reported : 5 in Kantara East, one in Amria and one in Kharga oasis. Measles spread in Kharga oasis and Wadi Natroun, 101 cases having being reported in the former and 40 cases in the latter. 121 cases of malignant malaria were recorded in Siwa. Table No. 34 gives details of the incidence of infectious diseases in Forntier Districts during 1950.

General Vaccination :

During the year, the following vaccinations were done in all the Frontier Districts : 15,092 against typhoid, 1,859 against diphtheria and 196 against cholera. None were done against plague. The following table No. 45 gives details of these vaccinations.

Drinking Water Supplies in Frontier Districts :

The population is divided into two sections : one inhabits the oases and obtains his drinking water from natural artesian wells (springs) where water is available day and night. Water is carried by the inhabitants to their homes by their own means. The other section consists of bedouins. Those of the Western desert obtain their drinking water from filtered water mains running from Alexandria to Mersa Matrouh. At the end of the pipes at Mersa Matrouh, the water pressure is small and additional water is obtained from Roman cisterns. At Sidi Barrani, water is drawn from underground wells. Both the latter sources are unfiltered.

In the Eastern desert, the population in Arish draw their drinking water from artesian wells. In Kantara East, there is a filtered water plant.

At Abu Zenema and Hurghada, the population, mostly personnel of industrial enterprises, obtain their drinking water from Suez filtered Water Works by means of water tanks on vessels traversing that region.

Quseir, Safaga and Sollum areas use condensers for turning sea water for drinking purposes.

Sewage Disposal :

No public sewage systems exist in the frontier districts. In the oases, the population use closed pits, the contents of which when filled up, are removed to gardens for use as manure.

Bedouins living in tents ease nature in the open.

In desert areas where industrial enterprises have set up their installations, the habitations of their personnel are provided with pail systems. Pails are emptied in ditches which are filled up. Refuse is disposed of by burning in incinerators or, where none exist, is thrown in the open.

Birkas :

These are formed where natural springs exist at Wadi Natroun, Arish, Tor, Siwa and Baharia oases. At Dakhla and Kharga oases, birkas are formed from water left over after rice irrigation. No birkas were filled in during the year; the spraying with malariol carried out by the Malaria Section being considered adequate.

Foodstuffs :

The small number of samples of foodstuffs taken for examination may be explained by : (a) the low economic level in frontier districts which does not encourage the establishment of large premises with large capitals and requiring sanitary requirements and (b) the lack of sanitary overseers to supervise the districts. Only three overseers have been appointed during the latter half of this year.

Municipal and Village Councils :

A few municipal and village councils have been set up in some of the districts. The first is only a few years old. The general sanitation of the districts, which is a primary duty of these councils have, before their setting up, been carried out by scavengers of the public health offices and are still carried out by the same scavengers. Nor have these councils done anything about main water supplies.

Cemeteries :

There are no properly demarcated cemeteries in the frontier districts. The Arabs bury their dead wherever they happen to be in the desert at the time.

Unhealthy Establishments :

Table No. 38 shows an increase in the number of unhealthy establishments licensed during this year and the year before at Arish, Kharga Oases, Amria and Kantara East. These are the localities to which sanitary overseers have recently been appointed.

Slaughter Houses :

With the exception of Sollum, Hammam and Abu Zenema, all frontier districts medical units have slaughter houses under their supervision. So far, these are few in number and exist in localities having municipal or village councils. It is hoped that more will be provided as and where municipal or village councils are set up.

Medico-legal activities :

Table No. 40 gives details of medico legal cases in the Frontier Districts. It will be observed that the fatal and serious criminal cases are very few in comparison with the total cases. Where no cases were recorded, no medical officers were available throughout the year.

Propaganda :

Propaganda is not attractive in frontier districts since it consists of sermons and lectures. It is suggested that two mobile propaganda units with a cinema apparatus would be more effective by touring the districts.

Venereal Diseases :

These are seldom met with in the in-patient or out-patient clinics, which may be explained by either the ignorance of the people, their practice of not submitting such cases to medical officers or the scarcity of these diseases among the population.

Medical Personnel :

Table No. 41 gives the number of medical officers, midwives, sanitary barbers and dayas in service in the frontier districts.

Hospitals :

There are 15 state and private hospitals in operation in the various frontier districts. These have an accommodation of 221 beds and employ 16 medical officers. Six hospitals and five medical officers belong to private firms. A total of 2,899 in-patients and 103,092 new out-patients were treated at these hospitals during the year. The latter figure, however, does not include patients treated by the out-patient dispensaries annexed to public health offices to render treatment in localities having no hospitals.

For full details, please see table No. 44.

Public Health Offices Provided with Dispensaries :

Seven of the health offices are provided with dispensaries which have given treatment to some 34,783 patients. Treatment is free of charge in all frontier districts even when private concerns exist. This number does not include patients treated at hospital out-patient departments.

Table No. 46 gives details of these health offices and patients treated by each.

TABLE No. 34—SHOWING INFECTIOUS DISEASES RECORDED IN FRONTIER DISTRICTS DURING 1950.

| | Cholera | Plague | Typhus | Small Pox | Anthrax | Relapsing Fever | Cerebro Spinal fever | Typhoid | Para Typhoid | Scarlet fever. | Encephalitis lethargica | Diphtheria | Measles | Whooping Cough | Mumps | Pneumonia | Yellow Fever | Leprosy | Glanders | Rabies | Tetanus | T.B. of the Respiratory Sys. | Chicken Pox | Influenza | Puerperal fever | Am. Dysentery | B. Dysentery | Benign Malaria | Malignant Malaria | Erysipelas |
|--------------|---------|--------|--------|-----------|---------|-----------------|----------------------|---------|--------------|----------------|-------------------------|------------|---------|----------------|-------|-----------|--------------|---------|----------|--------|---------|------------------------------|-------------|-----------|-----------------|---------------|--------------|----------------|-------------------|------------|
| Sollum... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Sidi Barrani | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Quseir... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Hamman | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dabaa ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Wadi Natroun | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Safaga... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Arish ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Kharga | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Amria | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Kantara East | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Tor ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Hurghada | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Abu Zenema | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dakhla | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Siwa ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Baharia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Mersa Matruh | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total ... | — | — | 12 | 1 | — | — | 7 | 16 | 5 | — | — | 4 | 142 | 4 | 77 | 20 | — | 1 | 1 | — | — | 23 | 57 | 87 | 2 | 63 | — | 38 | 124 | 10 |

TABLE No. 35.—FOODSTUFFS

| Locality | Samples taken for analysis | Foodstuffs condemned with consent of owners |
|---------------------|---|--|
| Quseir | 3 milk | Wone |
| Arish | 1 cheese 1 masli 1 aerated water | Wone |
| Kharga oases | 3 masli 2 cheese | 16 tins cherry, sauce and sardines 50 Kilos white cheese |
| Amria | 1 flour... 3 aniseed 3 tea 2 oil 1 masli 1 coffee 3 red pepper | 4 tins preserved foods 43 kilos vegetables and fruits 6 melons 20 pieces taamia |
| Kantara East | 1 cheese 2 vegetable masli 1 aerated water 1 masli 2 flour 1 bread 2 red pepper 1 coffee 1 starch 7 milk | Wone |
| Hurghada | 1 flour | Wone |

TABLE No. 36.—MUNICIPAL AND VILLAGE COUNCILS ACTIVITIES.

| Locality | Activities |
|---------------------|--|
| Quseir | Village council employs 3 scavengers for general sanitation in conjunction with scavengers of the P.H.O. |
| Arish | Municipal council does not assist in sanitation. All work is done by scavengers of the P.H.O. |
| Kharga oases | ditto |
| Amria | Village council supervises sanitation with the assistance of scavengers of the P.H.O.. |
| Siwa | ditto |
| Matrouh | Municipal council does not assist in sanitation. All work is done by scavengers of the P.H.O. |

TABLE NO. 37.—CEMETERIES

| Locality | No. of Cemeteries approved |
|------------------------|----------------------------|
| Quseir | 1 |
| Hammam | 1 |
| Wadi el Natroun | 4 |
| Safaga | 4 |
| Arish | 1 |
| Kharga oases | 7 |
| Amria | 1 |
| Kantara East | 5 |
| Tor | 3 |
| Hurghada | 3 |
| Dakhla oases | 19 |
| Siwa | 7 |
| Baharia oases | 7 |
| Mersa Matrouh | 2 |
| TOTAL | 65 |

TABLE NO. 38.—UNHEALTHY ESTABLISHMENTS

| Locality | Establishments licensed during this year and the year before | Total licensed establishments. |
|----------------------|--|--------------------------------|
| Sidi Barrani | 1 | 13 |
| Dabaa | 8 | 81 |
| Arish | 209 | 209 |
| Kharga oases | 14 | 131 |
| Amria | 11 | 68 |
| Kantara East | 85 | 74 |
| Tor | 2 | 16 |
| Hurghada | 12 | 21 |
| Baharia oases | — | 1 |
| TOTAL | 342 | 614 |

TABLE NO. 39.—SLAUGHTER-HOUSES

| Locality | Slaughter-houses | Slaughter outposts |
|------------------------|------------------|---|
| Sallum | — | — |
| Sidi Barrani | 1 | demolished during the war and has not been repaired |
| Quseir | 1 | — |
| Hammam | — | 1 |
| Dabaa | — | — |
| Wadi el Natroun | — | 1 |
| Safaga | — | 2 |
| Arish | 1 | — |
| Kharga oases | 1 | — |
| Amria | — | 1 |
| Kantara East | — | 2 |
| Tor | — | 1 |
| Hurghada | — | 2 |
| Abu Zenema | — | — |
| Dakhla oases | — | 13 |
| Siwa | 1 | — |
| Baharia oases | 1 | 2 |
| Mersa Matrouh | 1 | — |
| TOTAL | 7 | 25 |

TABLE NO. 40.—MEDICO LEGAL CASES

| Locality | Slight Cases | | Serious Cases | | Fatal Cases | | TOTAL | |
|----------------------|--------------|------------|---------------|-----------|-------------|-----------|--------------|------------|
| | Accidental | Criminal | Acc. | Crim. | Acc. | Crim. | Acc. | Crim. |
| Sollum | — | — | — | — | — | — | — | — |
| Sidi Barrani | — | — | — | — | — | — | — | — |
| Quseir | 245 | — | 5 | — | 3 | — | 235 | — |
| Hammam | 20 | — | 6 | — | 1 | 1 | 27 | 1 |
| Dabaa | 10 | — | 5 | — | 4 | — | 19 | — |
| Wadi Natroun | 112 | 7 | — | — | — | — | 112 | 7 |
| Safaga | 17 | — | 8 | — | — | — | 25 | — |
| Arish | 23 | 120 | — | 10 | 8 | 7 | 31 | 137 |
| Kharga oases | 151 | — | 30 | — | 4 | — | 185 | — |
| Amria | 86 | — | 15 | — | 9 | 2 | 110 | 2 |
| Kantara East | 222 | — | — | — | — | 25 | 222 | 25 |
| Tor | — | — | — | — | — | — | — | — |
| Hurghada | 2 | — | — | — | 3 | — | 5 | — |
| Abu Zenema | — | — | — | — | — | — | — | — |
| Dakhla oases | 35 | 12 | 11 | 5 | 1 | — | 47 | 17 |
| Siwa | 34 | 14 | 1 | — | 2 | — | 37 | 14 |
| Baharia oases | — | — | 1 | — | — | — | 1 | — |
| Mersa Matrouh | 80 | 40 | 55 | 5 | 20 | 5 | 155 | 50 |
| TOTAL | 1,037 | 193 | 137 | 20 | 55 | 40 | 1,229 | 253 |

TABLE NO. 41.—MEDICAL OFFICERS, MIDWIVES, SANITARY BARBERS, ETC.

| Locality | Medical Officers | Dentists | Midwives | Sanitary barbers | Dayas | Remarks |
|----------------------|------------------|----------|----------|------------------|-----------|---------|
| Sollum | — | — | — | 1 | — | |
| Sidi Barrani | — | — | — | 2 | — | |
| Quseir | 1 | 1 | 1 | — | — | |
| Hammam | — | — | — | 1 | — | |
| Dabaa | 1 | — | — | 2 | — | |
| Wadi Natroun | 1 | — | — | 1 | 1 | |
| Safaga | 1 | — | — | 1 | — | |
| Arish | 1 | — | — | 2 | 7 | |
| Kharga oases | 1 | — | 1 | 8 | 6 | |
| Amria | 1 | — | — | 5 | — | |
| Kantara East | 1 | — | — | 1 | 7 | |
| Tor | 1 | — | — | 1 | — | |
| Hurghada | 1 | — | 3 | — | 1 | |
| Abu Zenema | 1 | — | — | — | — | |
| Dakhla oases | 1 | — | 1 | 14 | 21 | |
| Siwa | 1 | — | 1 | 3 | — | |
| Baharia oases | — | — | — | 7 | 5 | |
| Mersa Matrouh | 1 | — | 1 | 1 | — | |
| TOTAL | 14 | 1 | 8 | 50 | 58 | |

TABLE No.42.— WATER SUPPLIES.

| Locality | Source of Water Supply |
|------------------------|--|
| Sollum... .. | Sea water condenser |
| Sidi Barrani | Underground water cisterns |
| Quseir | Sea water condenser |
| Hammam | Alexandria-Mersa Matrouh water main |
| Dabaa | " " " " |
| Wadi El Natroun | Artesian wells without filters |
| Safaga... .. | Sea water condenser |
| Arish | Artesian wells without filters |
| Kharga oases | " " " " |
| Amria | Alexandria-Mersa Matrouh water main |
| Kantara East | Pure water works with ten filters |
| Tor | Artesian well in the lazaret |
| Hurghada | Suez water mains conveyed in vessels |
| Abu Zenema | " " " " |
| Dakhla oases | Artesian wells without filters |
| Siwa | " " " " |
| Baharia oases | " " " " |
| Mersa Matrouh | Alexandria water main and artesian wells |

TABLE No. 43.—BIRKAS

| Locality | Number of Birkas | Filled in during the year |
|----------------------|---|--|
| Sollum | None | { no birkas filled in in these localities during the year. |
| Sidi Barrani | " | |
| Quseir | " | |
| Hammam | " | |
| Dabaa | " | |
| Wadil Natroun | Six Birkas | |
| Safaga | None | |
| Arish | 3 birkas | |
| Kharga oases... .. | None | |
| Amryia | " | |
| Kantara East | { a birka formed from overflowing cisterns of houses. | |
| Tor | | |
| Hurghada | None | |
| Abu Zenema | " | |
| Dakhla oases | { temporary birkas formed from rice cultivation | |
| Siwa | | |
| Baharia oases | 89 birkas | |
| Mersa Matrouh | None | |

TABLE NO. 44. — HOSPITALS.

| Locality | No. of Hospitals | | No. of beds | No. of Patients | | No. of Medical Officers |
|-----------------------|------------------|----------|-------------|-----------------|--------------|-------------------------|
| | State | Private | | Out-pts | In-pts | |
| Sollum | 1 | — | — | — | — | — |
| Sidi Barrani | 1 | — | — | — | — | — |
| Quseir | 1 | 1 | 34 | 6,035 | 2,082 | 2 |
| Hammam | — | — | — | — | — | — |
| Dabaa | — | — | — | — | — | 1 |
| Wadi El Natroun... .. | — | — | — | — | — | 1 |
| Safaga | — | 2 | 20 | 5,441 | 71 | 1 |
| Arish | 1 | — | 20 | 38,132 | 147 | 1 |
| Kharga oases... .. | 1 | — | 18 | 21,726 | 221 | 1 |
| Amria | 1 | — | 12 | 7,779 | 36 | 1 |
| Kantara East | — | — | — | — | — | 1 |
| Tor | — | — | — | — | — | 1 |
| Hurghada | — | 2 | 52 | 19,000 | 230 | 3 |
| Abu Zenema | — | 1 | 10 | — | — | 1 |
| Dakhla oases... .. | 1 | — | 16 | 2,851 | 109 | 1 |
| Siwa | 1 | — | 21 | 1,963 | 3 | 1 |
| Baharia oases | 1 | — | 8 | 165 | — | — |
| Mersa Matrouh | 1 | — | 12 | 16,573 | 180 | 1 |
| TOTAL | 10 | 6 | 223 | 119,665 | 3,079 | 17 |

TABLE NO. 45.— GENERAL VACCINATION.

| Locality | Against typhoid | Against plague | Against diphtheria | Against cholera |
|------------------------|-----------------|----------------|--------------------|-----------------|
| Sollum... .. | — | — | — | — |
| Sidi Barrani | 47 | — | — | 47 |
| Quseir | 1 | — | 10 | 1 |
| Hammam | 9 | — | — | 9 |
| Dabaa | 13 | — | — | 13 |
| Wadi El Natroun | — | — | 8 | — |
| Safaga... .. | 33 | — | 34 | 1 |
| Arish | 10,542 | — | 13 | 28 |
| Kharga | 3,990 | — | 1,085 | 2 |
| Amria | 78 | — | 27 | 15 |
| Kantara East | 195 | — | 193 | 40 |
| Tor | — | — | 17 | — |
| Hurghada | — | — | 182 | 20 |
| Abu Zenema | — | — | — | — |
| Dakhla oases | 81 | — | 25 | 4 |
| Siwa | 6 | — | — | 6 |
| Baharia oases | 10 | — | — | 10 |
| Mersa Matrouh | 87 | — | 265 | — |
| TOTAL | 15,092 | — | 1,859 | 196 |

TABLE NO. 46.—PUBLIC HEALTH OFFICES PROVIDED WITH DISPENSARIES.

| Locality | Health Offices with Dispensaries | Patients treated free of charge | Remarks |
|------------------------|-------------------------------------|------------------------------------|-------------------|
| Sollum | — | — | |
| Sidi Barrani | 1 | 1,690 | A hospital exists |
| Quseir | — | — | |
| Hammam | 1 | 5,232 | |
| Dabaa | 1 | 1,363 | |
| Wadi el Natroun | 1 | 8,275 | |
| Safaga | — | — | " " |
| Arish | — | — | " " |
| Kharga | — | — | |
| Amria | — | — | |
| Kantara East... .. | 1 | 17,226 | " " |
| Tor | 1 | 907 | |
| Hurghada | 1 | 1,090 | " " |
| Abu Zenema | — | — | " " |
| Dakhla Oases | — | — | " " |
| Siwa | — | — | " " |
| Baharia Oases | — | — | " " |
| Mersa Matrouh | — | — | " " |
| TOTAL | 7 | 34,783 | |

Chapter IV.—Nutrition.

Annual Report of the Permanent Nutrition Committee and the Nutrition Section

I.—Analysis of some Egyptian Foods :

TABLE NO. 47.

| Foodstuffs | Protein | Fat | Carbohy- drates | Moisture | Fibre | Ash |
|---------------------------------|---------|--------|--------------------|----------|-------|-------|
| Sweet potatoes, raw, red | 0.34 | 0.365 | 19.66 | 73.65 | 5.4 | 0.585 |
| „ „ white | 0.32 | 0.279 | 27.3 | 69.6 | 1.6 | 0.509 |
| „ „ boiled, red | 0.33 | 0.22 | 18.68 | 74.85 | 5.3 | 0.61 |
| „ „ „ white | 0.31 | 0.216 | 25.13 | 71.97 | 1.55 | 0.51 |
| „ „ roasted, red | 0.43 | 0.175 | 22.48 | 70.85 | 5.43 | 0.625 |
| „ „ „ white | 0.42 | 0.11 | 30.26 | 66.99 | 1.64 | 0.57 |
| Nuts | 23.5 | 51.5 | 11.71 | 5.21 | 5.6 | 1.68 |
| Melon seeds, brown | 34.2 | 48.5 | 8.81 | 2.7 | 3.19 | — |
| Peanuts, native | 23.9 | 41.65 | 26.18 | — | — | — |
| Grapes, red, melouki | 0.39 | — | 13.63 | 81.85 | 4.2 | 0.434 |
| Pomegranates, Manfalouti | 1.27 | Traces | 12.39 | 82.52 | 3.39 | 0.42 |
| Green beans, native | 13.6 | „ | 1.9 | 83.05 | 0.8 | 0.59 |
| „ „ foreign | 5.2 | „ | 12.7 | 79.9 | 1.5 | 0.67 |

II.—Dietary survey on night blindness in Siwa Oasis.

Last year, it came to the notice of the Ministry that night blindness was prevalent in Siwa Oasis following the appearance of a number of cases of Vitamin A deficiency. A unit of the nutrition section was delegated to investigate and carry out a clinical and dietary survey of the Oasis.

Here below are the results] of the medical survey which was conducted on two stages :

A Commission headed by Prof. Ali Hassan, Technical Consultant of the Permanent Nutrition Committee, visited the Oasis about the middle of April and drew up a report on its findings. Following the report, a unit of the Nutrition Section was sent to the Oasis to conduct a comprehensive investigation and to treat the cases of night blindness. The unit was provided with a large quantity of Vitamin A. The results of the medical investigation are given hereafter :

1.—Night Blindness.

This disease was the primary object of the investigation. Clinical and medical examination by means of the adaptometer carried out during April established the presence of certain cases. These were provided with Vitamin A. It was observed that during this season, the oasis lacked vegetables and fruits, the main source of Vitamin A. During May, the disease disappeared following the appearance of vegetables and fruits. A very high ratio of ophthalmic infection almost, 100%, was also observed.

2.—*Pellagra and Riboflavine Deficiency:*

Two cases of Pellagra and four cases of riboflavine deficiency were encountered.

3.—*Vitamin D and Calcium Deficiency:*

Three pupils of the compulsory school demonstrated traces of old rickets. The condition of the teeth is illustrated by the following table:

| | | | | | | | | |
|---------|-----|------|---|----|------|---|-----|-------|
| Pupils: | 88% | good | — | 8% | fair | — | 7% | poor. |
| Girls: | 86% | „ | — | 7% | „ | — | 7% | „ |
| Men: | 53% | „ | — | 8% | „ | — | 39% | „ |

Haemoglobin:

A high haemoglobin content in the blood was observed as shown by the following table:—

TABLE No. 48

| | Haemoglobin. | Per centage of Cases. |
|--------------|--------------|-----------------------|
| | | |
| Men | 60-90 % | 77.5 % |
| | 90-100 % | 10 % |
| Girls | 60-90 % | 78 % |
| | 90-100 % | 13 % |

This high haemoglobin content is due to the absence of parasitic diseases.

III.—*Nutrition Survey of cases of chafing of face and hands at Sindlibis area:*

A survey of the pupils of the compulsory school, both boys and girls, proved that about 39% of the pupils suffered from fissured lips and about 49% from chapped hands and face.

No symptoms of rickets were encountered, and the condition of the teeth was: 75% good, 21% fair, and 4% poor.

Haemoglobin content was 60—90% in 74 cases, 70—79% in 28 cases and 80% in one case.

Examination for parasites revealed that 71.7% had ascaris, 67.3% bilharzia and 12.8 had ancylostoma.

IV.—During the year, the Nutrition Section had proposed daily diets for certain categories, namely students of the Cadet and Constabulary school of the Police College. The following is the daily diet proposed:—

TABLE No. 49

| Cadets | | Soldiers day | |
|---|-------|--|-------|
| | grams | | grams |
| Breakfast: | | | |
| Bread (special) | 260 | Bread (ordinary) | 936 |
| Tea | 1.5 | Beans, stewed (<i>medammes</i>) | 85 |
| Sugar | 25 | Lentils | 63 |
| Milk | 50 | Cotton seed oil | 12 |
| Jam | 47 | Beef | 150 |
| Cheese, white | 47 | Vegetables, fresh | 400 |
| Lunch and dinner: | | | |
| Bread (Special) | 520 | Rice | 80 |
| Veal | 234 | Masli | 20 |
| Vegetables, fresh | 468 | Milk | 150 |
| Rice | 171 | Sugar (for morning milk) | 25 |
| Masli | 31 | „ (for pudding) | 40 |
| Shredded Wheat (<i>Konafa</i>) | 156 | Starch „ „ | 30 |
| Sugar (pudding) | 60 | | |
| Masli | 100 | | |

V.—Meals served by public kitchens in Cairo and the provinces as well as those in orphanages have also been modified by the Section.

The Permanent Nutrition Committee :

The Permanent Nutrition Committee undertakes research into the State of Nutrition in Egypt and takes measures to improve its standard.

The attention of the Committee is directed specially to the following problems :

1. The investigation of the causes of malnutrition, the diseases associated with modern civilisation and the causes of poor physique,
2. Determining the quantities of foods containing proteins, fats, sugar, and starches, vitamins and salts that are sufficient to keep the body in a state of equilibrium, and to maintain health under all conditions, taking into consideration foods produced in the country.
3. Study of the vitamins with special reference to their relation to rickets, pellagra, and other diseases. While searching for the causes of these diseases, their incidence and means of their prevention must be studied.
4. Nutrition surveys of groups, such as, school children, army, navy and air force, asylums etc., may be undertaken in the light of modern experience and knowledge.
5. Economic study of foodstuffs with the object of recommending adequate diets suitable for different incomes.
6. Studying the prices of essential foods and taking measures to make them available to all consumers.
7. Statistical survey of foods, with special attention to meats, (including poultry and fish), milk and milk products, eggs, cereals, etc., oils, fruits etc.

Composition of the Permanent Nutrition Committee :

| | |
|---|-----------------------|
| The under Secretary of State | Chairman |
| Prof Ali Hassan, Ex-Dean of Faculty of Medicine, | Technical Consultant. |
| Dr. Ahmed Abdel Nabi, D.G., Technical and Administrative Inspection Dept. | Technical Secretary |
| Prof. W. H. Wilson, Emeritus Professor of Physiology, Faculty of Medicine. | |
| Dr. Mohamed-Abdou Abbassi, Professor of Public Health and Preventive Medicine, Farouk University, | |
| Dr. Ismail Mortada, Ex Medical Diseases Specialist, | |
| Under Secretary of State for Industrial Affairs, Ministry of Commerce and Industry | |
| Representative of Egyptian Army Medical Services, | |
| Director General, Prisons Department's Medical Services | |
| „ „ Department of Social Hygiene, Ministry of Public Health, | |
| „ „ „ of School Hygiene, Ministry of Education, | |
| Senior Chemist, (Chemical Section) Ministry of Agriculture, | |
| Director, Chemical Section, Public Health Laboratories Dept. | |
| Professor of Bio-chemistry, Faculty of Medicine, | |
| Director, Food Control Section, M. P. H. | |
| „ Nutrition Section, „ | |
| A Veterinarian for animal wealth, Ministry of Agriculture, | |
| Lecturer of Nutrition of the Public Health Section, Faculty of Medicine. | |
| An Agriculturist for agricultural crops, Ministry of Agriculture, | |
| A representative of the Ministry of Social Affairs, | |

Composition and Attributions of the Nutrition Section :

1. The Nutrition Section consists of two nutrition research units, each under the direction of a medical officer. The staff of each unit include a food inspector, two social workers and a clerk, besides the junior staff.

2. The Biochemical Laboratory is run by three chemists.

A Bacteriological laboratory is in course of construction.

The Units undertake food researches in different localities.

The Medical Officer undertakes the medical examination in the locality.

While the biochemical laboratory undertakes the analysis of foodstuffs and, where necessary, examine blood specimens .

A third unit was established in 1950 to assist the other two units. This unit is run by :

A Medical Officer, a Chemist, a Statistician, a Food Inspector, a Social Worker and a Clerk.

Chapter V.—Permits

Applications for new licences :

The number of applications for new licences for dangerous, unhealthy and inconvenient establishments of the 1st Class received during the year under review was 2,658 as against 1,825 in the preceding year.

Licences issued by the Ministry :

A total of 1,302 licences for establishments of the 1st Class were issued during the year, as against 1,018 in 1949.

Ministerial Arrêtés :

Three ministerial arrêtés adding new establishments to or modifying the schedules were issued during the year as against two in the previous year.

These details indicate a steady increase in the activities of the Department as a result of the industrial and commercial expansion during and following war years,

Chapter VI.—Rural Health

Objectives of Rural Health :

1. To raise the environmental sanitary conditions in rural Egypt. This covers : water supply; public laundries and baths; food markets and slaughter houses; food control; cleanliness of the village; fly control; improvement of housing conditions through the provision of latrines, lime washing; improvement of lighting and ventilation and cleanliness of the dwellings.

2. Control of communicable diseases by small pox vaccination of infants; diphtheria inoculation of children; vaccination against other diseases e.g. typhoid when required; detection and control of infectious diseases.

3. To provide medical treatment, especially for parasitic diseases, eye diseases, diseases of mal nutrition, and other emergency and casualty cases.

4. To provide social health services in rural areas including maternity and child welfare, venereal diseases control, and health education.

These services are organised and administered by the various divisions of the rural health department as follows :

I. Division of Rural Health Centres :

This Division is concerned with the administration and organisation of rural health centres, which have accomplished a great deal towards improvement of health.

This is demonstrated by the fall in the general and infantile death rates from 20 per 1,000 of population and 194 per 1,000 births in 1949 to 14 and 139 respectively in 1950.

An increase is also apparent in out-patient and in-patient attendances and in activities of maternity and child welfare services. Besides, a mass treatment campaign for parasitic diseases has been organised in Qaliubia Province.

The accompanying statistical tables show the activities of these centres during the year 1950.

The responsibilities of the department increase year by year following the steady provision of more rural health centres and in-patient sections and the consequent increase of the population thus served, as indicated by the following Table No. 50

TABLE No. 50

| Year | Population served by Health Centres | Number of operating centres | Number of parasitic dia. Sections | Number of M. C. W. Sections | Number of inpatient Sections | Number of new and old out-patients |
|-------------|-------------------------------------|-----------------------------|-----------------------------------|-----------------------------|------------------------------|------------------------------------|
| 1945 | 684,343 | 85 | 85 | 69 | 12 | 416,195 |
| 1946 | 1,141,441 | 103 | 103 | 81 | 27 | 490,117 |
| 1947 | 2,132,202 | 115 | 115 | 92 | 71 | 474,481 |
| 1948 | 2,610,928 | 129 | 129 | 101 | 84 | 587,819 |
| 1949 | 3,028,837 | 157 | 157 | 110 | 88 | 836,119 |
| 1950 | 4,165,399 | 178 | 178 | 117 | 98 | 1,258,999 |

Although the number of health centres has doubled during the 5 years, the number of directors, assistant directors and inspectors has remained unchanged.

Preventive Medical Services :

The following table gives a comparison of infantile births and deaths during the last 3 years :

TABLE NO. 51

| Year | Population served by H. Centres | Number of Births | Number of Deaths | Number of infantile deaths | Rates | | |
|-------------|---------------------------------|------------------|------------------|----------------------------|--------------------------|--------------------------|---------------------------------------|
| | | | | | Birth rate per 1000 pop. | Death rate per 1000 pop. | Infant mortality rate per 1000 births |
| 1948 | 2,610,928 | 110,552 | 50,960 | 28,647 | 42 | 20 | 259 |
| 1949 | 3,028,837 | 118,091 | 56,933 | 30,321 | 39 | 20 | 2.6 |
| 1950 | 4,165,399 | 154,597 | 58,561 | 21,216 | 37 | 14 | 139 |

This shows the continuous drop in the death rate and infant mortality rate year after year in spite of the improvement in the accuracy of reporting and notification of deaths due to the improved supervision of birth and death registration.

Food Control.

During the year 1950, 3,761 food samples were taken for examination. Out of these 120 samples i.e. 3% were adulterated.

Treatment Services :

The following table No. 52 shows that not only the number of population served by these centres is steadily increasing as a result of the increasing number of centres, but also the average attendance per centre.

TABLE NO. 52

| Year | Number of new Outpatients | Number of new ophthalmic cases | Average per centre | |
|-------------|---------------------------|--------------------------------|-----------------------|----------------------|
| | | | New O. Pa. attendance | New Ophthalmic cases |
| 1948 | 587,819 | 72,066 | 4557 | 555 |
| 1949 | 836,119 | 106,270 | 5325 | 675 |
| 1950 | 1,258,999 | 130,047 | 7045 | 731 |

Parasitic Diseases :

The following table No. 53 shows the ratio of out-patients examined for parasitic infections :

TABLE NO. 53

| Year | Number of new O. Pa. | Out patients examined for Parasitic Infections | |
|-------------|----------------------|--|---------------|
| | | Number | Rate per cent |
| 1948 | 587,891 | 277,285 | 47 % |
| 1949 | 836,119 | 419,463 | 50 % |
| 1950 | 1,258,999 | 742,120 | 59 % |

This shows that 59% of the out-patients were examined in 1950 for parasitic infections as compared with 47% and 50% in 1948 and 1949.

It is hoped that this increase will be maintained until all out-patients are so examined.

The following table No. 54 shows the examination and treatment of Bilharzia infections,

TABLE No. 54

| Year | Number examined for Bilharzia | Positive Cases | | Number started Treatment | Number of Anti Bilharzia Injections | Average Number of Injections per Person |
|------------|-------------------------------|----------------|---------------|--------------------------|-------------------------------------|---|
| | | Number | Rate per cent | | | |
| 1948... .. | 277,285 | 137,034 | 60.3 % | 102,806 | 716,897 | 7 |
| 1949... .. | 419,463 | 237,372 | 56.8 % | 171,018 | 1,622,767 | 9 |
| 1950... .. | 742,120 | 396,973 | 53.5 % | 249,575 | 2,249,162 | 9 |

The ratio of positive bilharzia cases amongst out-patients examined shows a steady decline. It was 53% in 1950 as against 56% in 1949 and 60% in 1948. This is associated with an improvement in attendance for treatment as indicated by the average number of injections per patient which was 9 in 1950 as against 7 in 1948.

Maternal and Child Health Services :

The following Table No. 55 compares the prenatal activities during the last 3 years.

TABLE No. 55

| Year | New Pregnants | | Pregnants' Visits to Centres | | Home Visits to Pregnants | |
|------------|---------------|--------------------|------------------------------|-------------------------|--------------------------|----------------------|
| | Total Number | Average per centre | Total Number | Average visits per case | Total Number | Average No. per case |
| 1948... .. | 30,738 | 304 | 106,110 | 3 | 40,036 | 1.3 |
| 1949... .. | 38,055 | 346 | 164,051 | 4.5 | 69,189 | 2 |
| 1950... .. | 44,061 | 376 | 221,816 | 5 | 86,656 | 2 |

This shows a steady improvement in attendance to pregnant women both at the centres and their homes. The average visit per pregnant was 3 in 1948 ; and 5 in 1950.

The following Table No. 56 shows the delivery and post-natal services :

TABLE No. 56

| Year | Number of M.C.H. units | Number of deliveries | | Number of post-natal visits | |
|------|------------------------|----------------------|------------------|-----------------------------|----------------------|
| | | Total No. | Average per unit | Total No. | Average per delivery |
| 1948 | 101 | 31,812 | 315 | 174,639 | 5.5 |
| 1949 | 110 | 43,404 | 395 | 229,606 | 5.5 |
| 1950 | 117 | 46,607 | 400 | 271,707 | 6 |

This shows an increase in the number of deliveries per one health centre from 315 cases in 1948 to 395 in 1949 and 400 in 1950.

II.—Division of Rural Health Research :

In addition to the services of the health centres described above, the department considers that local conditions in rural Egypt affect very much the kind of services most suitable for introduction. Therefore a program of research in environmental sanitation and rural health is carried out with the following objectives :

1. To assess the kind and extent of health problems in Rural Egypt.
2. To find out the best solutions for these problems consistent with local economic and social conditions, and to provide such public health, preventive and curative services as will meet the health requirements in the area and agree with local conditions and customs of the people.
3. To evaluate the cost and results of such services and to find out whether the expenses would be within the economic abilities of the country when the program is generalised.
4. To develop the program from the experimental to the final phase, namely the training of personnel in the application of the principles learned to other parts of the country.

The Program :

The program was started in 1947 under the joint administration and financing of the Egyptian Ministry of Public Health (Rural Health Department) and the Rockefeller Foundation ;

The Sindibis area in Qaliubia province had been chosen for the purpose because a new health centre was being established at the time and because of ease of transportation and its proximity to Cairo (30 kilometres north of Cairo).

The area involves 5 villages :

| | | | | |
|--------------------|-----|-----|----------------------|---------------|
| Sindibis... | ... | ... | with a population of | 4,835 |
| Quaranfil | ... | ... | " " | 4,837 |
| El Baradaa | ... | ... | " " | 5,423 |
| Aghour el Sughra | ... | ... | " " | 4,432 |
| Aghour el Kubra... | ... | ... | " " | 9,403 |
| TOTAL ... | | | | <u>28,420</u> |

The first step was to mark every house in the village with serial numbers, oil painted on the doors. A cadastral map was made for each village showing the houses, their numbers and other important landmarks of the village. The village was divided into zones for purposes of studying the services and their results.

The next step started in 1948 by conducting a comprehensive sanitary Survey to evaluate the existing sanitary conditions in the villages and the houses and compare them with the minimal sanitary requirements as judged by experience in other countries. A scale was made of the different items which totalled 106.5. The average score for the villages was 17 which means that they have only 1/7 of the minimal sanitary requirements.

Analytical study of the data obtained showed that the basic sanitary needs in these villages were :

1. The establishment of safe and practical water supplies which need be accessible, inexpensive and consistent with local conditions.
2. Establishment of adequate means for disposal of excreta and the installation of sanitary latrines compatible with local conditions, customs of the people and economic standards.
3. The control of flies which are to a large extent the direct cause of the high infantile mortality and the high incidence of ophthalmias.

The 3rd step was to conduct a complete family survey including data about every person in the family to find out the incidence of the important diseases and the cultural, economic, nutritional and social status of these families.

SANITARY SERVICES UNDER THE PROGRAM

1.—Water :

In villages, it would not be sufficient to establish sanitary water plants only. They should be practicable to insure being used. They should suit local conditions and be inexpensive. Taking these factors into consideration, it has been decided to provide sanitary hand pumps - one for every fifty houses i.e. about 200 persons. These pumps are located in the streets at convenient spots, easily accessible to the houses and as much as possible on the way from these houses to the canals. The wells which are drilled about 60 feet deep in the ground penetrate the impermeable layer to reach a deep level of safe water and a satisfactory yield. At ground level, the well is protected by a concrete platform all round. For drainage of waste water, underground earthenware pipes and a concrete basin or reservoir are provided.

A well costs on the average L.E. 16.899, and for every village a man is appointed to repair and maintain these wells.

Water samples are taken periodically from each well (once every 2 weeks) for bacteriological analysis, and chlorination is used.

In 1950, 145 such wells were installed in the different villages of the area except Aghour el Kubra which was left for control.

2.—Latrines :

The bore hole type or the Rockefeller Latrine is the most suitable and least expensive. One such latrine is made in every house deprived of a sanitary latrine.

It is made by an auger and it is 19 ft. deep and 16 inches in diameter. On the top a concrete collar and a slab are put : and then the people are instructed to make the fence and the door. Such a latrine costs P.T. 78.5 including labour and equipment.

In 1950, 1411 latrines were built in two villages : Sindibis and El Baradaa.

3.—Fly Control :

Fly counting by the grid method is done in each village once every week. The grid is 3 feet square. The counting is done in fixed grid stations in the villages and the results are charted. In this way the effect of the different insecticides can be evaluated and the time for application of dusting or spraying determined.

At first, DDT was used ; then gammexane, and lastly chlordane in the form of a wettable powder, used for spraying in the selected villages whenever the fly count index rises. This chlordane powder contains 30% of pure chlordane and is used in 2.5% concentration, to spray favourable fly breeding places i.e. stables, manure heaps and latrines. This has been done almost 4 times during the year and it cost P.T. 18.9 per house per year . As a result, the fly population has been reduced by 96%.

In order to evaluate the effect of the separate items of the program, and to compare the results, certain villages were chosen for the different services and others left for control, as follows :

TABLE NO. 57

| Village | Water | Latrines | Refuse & Sweeping | Insecticides | Fly count |
|-------------------|-------|----------|-------------------|--------------|-----------|
| Sindibis | + | + | + | + | + |
| Quaranfil | + | + | + | + | + |
| El Baradaa | + | + | + | — | + |
| Aghour el Sughra | + | — | — | + | + |
| Aghour el Kubra | — | — | — | — | + |

4.—*Refuse collection and disposal :*

In Sindbis, Quaranfil and El Baradaa villages the streets are swept twice weekly i.e. 1/3 of the village is swept daily. The refuse collected is burnt and used to fill in the ponds and marshes in the village.

This service costs L.E. 27 to 30 per village per month.

5.—*Lime-Washing :*

The village houses are lime washed to improve lighting and cleanliness. It costs P.T. 21.9 per house including labour, material and transportation. If we deduct labour wages, the cost of white washing would be P.T. 6 only.

Reorganization of the services of Sindibis Health Centre :

The services of the health centre have been reorganised and coordinated which, with the training of personnel, resulted in a great increase in the activities of this health centre during the last 3 years, as can be seen from the following table :

TABLE No. 58

| Out patient division | 1948 | 1949 | 1950 |
|--|--------|--------|--------|
| New out patients | 7,485 | 10,874 | 24,559 |
| Cases examined for parasitic infections | 3,150 | 7,760 | 15,539 |
| Antibilharzial injections given | 16,152 | 19,431 | 49,446 |
| Anthelmintic doses given | 308 | 1,160 | 6,924 |
| In-patient division : | | | |
| patients admitted | 47 | 80 | 95 |
| Maternity and Child Health Services : | | | |
| New pregnant... .. | 192 | 488 | 944 |
| Old pregnant... .. | 395 | 1,339 | 2,585 |
| Deliveries | 137 | 342 | 568 |
| Post-natal visits to houses | 559 | 1,494 | 3,457 |
| Total other house visits... .. | 224 | 933 | 2,136 |
| Babies visiting the centre | 672 | 3,797 | 4,129 |
| V.D. Services : | | | |
| Blood samples for W.R. | 261 | 541 | 1,036 |
| Anti syphilis injections | 8 | 232 | 787 |

Endemic Diseases :

All the villages of the area—except Aghour el Kubra—have been surveyed. Census tables were prepared showing the names, ages and sex of all the inhabitants of every house. The nurse collects urine and stool samples from every house, brings them to the health centre for laboratory examination. Positive cases were treated locally in their village by a light mobile treatment unit, saving them the trouble of transportation. This led to a great improvement in the rate of regular attendance for treatment. About 80% of positives attended regularly the anti-bilharzial course of injections until completely cured.

The following is the incidence of the various parasitic infections in the 4 villages as a result of the survey :

TABLE No. 59

| | Sindibis | Quaranfil | El Baradaa | Aghour el Sughra |
|--------------------------|----------|-----------|------------|------------------|
| Urine : | | | | |
| Schist. hematobium... .. | 31% | 43.7% | 52.8% | 47.8% |
| „ Mansonii... .. | 0.5 | — | — | — |
| Stools : | | | | |
| Schist. hematobium... .. | 1 | 1 | 1.2 | 1 |
| „ Mansonii... .. | 11 | 0.5 | 0.2 | 0.3 |
| Ascaris | 62 | 87 | 68.8 | 84.4 |
| Ancylostoma | 3.5 | 8.8 | 5.4 | 16.7 |
| Other parasites | 6.1 | 8.5 | 7.7 | 9.6 |

N.B.—This area is now free from Planorbis snails, the intermediate host of *Sch. mansoni*.

Tuberculosis :

AT.B. program in Sindibis village has been carried out through the cooperation of this division and the T.B. Control Section of the Ministry of Health. The majority of the village population have been tuberculin-tested ; the negatives were B.C.G. vaccinated. Mass radiography was done by miniature films by the mobile X-Ray unit. Positive and suspicious cases were sent to Cairo for further investigation by big films and sputum examination. This survey resulted in the discovery of 52 cases. Of these : 32 were definitely positive and most of them were hospitalized and the remaining few are on the waiting list. The rest of the cases ($52 - 32 = 20$) are still under observation and follow-up by repeated X-Ray and sputum examinations.

Visiting nurses pay home visits to instruct and follow up the cases till they get hospitalized.

Tuberculin testing has shown that 66% of the people surveyed were positive : that the rate of positives is generally higher in females than in males especially in the age-groups 0-14 years : and that 8% of infants below one year of age are positive. This high percentage at such an early age indicates an early exposure to the tubercle bacilli before they are one year old.

Venereal Diseases :

An extensive W.R. survey has been carried out for both pregnant and the population in general. The average incidence of W.R. positives was 7% : it rises to 9.9% in males 15-45 years, which is a high percentage.

The positive cases are treated and followed-up, together with their contacts, by the visiting nurses to ensure their regular attendance for examination and treatment.

Visiting Nurses :

A visiting nursing service was established in this area. One visiting nurse was assigned to every village (except Aghour Kubra). She pays home visits, gets acquainted with the members of the family, gains their confidence, and instructs them in public health and health education in a simple and practical way. She records all this in a special family record. If she finds a sick person she makes out for him a personal record, with data about history of illness, symptoms, complaint, temperature etc. Then she refers him

to the health centre by a forwarding slip, signed by her. Then she visits the family repeatedly to follow up the patient and check on his condition, to see if he is taking the treatment and whether he is improving.

Under this system, it was possible to bring cases of syphilis under treatment, to follow up cases of tuberculosis till they were hospitalized and to observe contacts etc.

The nurse pays these house visits daily from early morning till 11 o'clock. After this i.e (from 11 a.m. to 1 p.m.), she has a nursing office in the village where she carries on such simple services as small-pox vaccinations, eye wash, eye drops or paints for ophthalmias (according to the doctor's recommendations), and takes blood samples for examination instead of forwarding the people to the health centre.

The object of this program is to provide simple medical services to the villagers in their villages saving them the trouble of transportation and relieving the health centre to enable the doctor to devote sufficient time for complete examination and treatment of the patients.

Vital Statistics :

The program aims at organising registration and reporting with a view to the collection of accurate health statistics. Besides, a statistical study of infantile deaths is conducted to obtain correct information about ratios of infantile mortality at this early age.

It is noteworthy that the infant mortality rate in Sindibis village has fallen from 326 per thousand births in 1948 to 105 in 1950. This improvement varies in the various villages with the extent of services of fly control, insecticides and medical care etc.

The general death rate has also fallen in Sindibis village from 32 per thousand population in 1948 to 18 in 1950. Again the degree of improvement varies according to the accuracy of reporting and registration of deaths which reveals cases that would otherwise have been concealed.

III. Division of Sanitary Engineering :

This division was set up in March 1950.

Objectives : To improve environmental health conditions in the Egyptian village by :-

1. The introduction of potable water supplies into the villages. At present the department of village affairs installs water plants outside the villages in order to secure a safe site. This division proposes to lay down networks of piping and taps inside the villages so as to facilitate the use of potable water. Until this is accomplished, the division is installing sanitary hand pumps inside the villages.
2. The establishment of inexpensive sanitary latrines inside the houses.
3. Cleanliness of the village, disposal of refuse and manure heaps in a sanitary way.
4. Improvement of housing by such simple methods as : white washing to improve lighting ; the increase of window area to improve ventilation ; the removal of fuel to a separate place to diminish fire risks etc.
5. The control of disease transmitting insects e.g. flies and lice by insecticides.
6. Food control by the establishment of simple slaughter houses and food markets.
7. Cooperation with other agencies interested in the social and sanitary improvement of villages such as : social centres, village councils and municipalities.

A. Activities accomplished in 1950 (March through December) :

In the budget of the Rural Health Department for the fiscal year 1950/51, L.E. 10,000 were allocated for the improvement of environmental sanitation by a program that is practical, easily applicable and suitable to local conditions of the villages and villagers.

The following villages have been chosen.

| Village | Population (approximate estimation for 1950) |
|----------------------|--|
| Kom Bira | 2,000 |
| Kafr Hakim | 1,700 |
| El Mansouriah | 11,500 |
| Nekla | 3,500 |
| Berkash | 4,000 |
| TOTAL | 28,000 |

In choosing these villages in Giza province near Cairo, consideration was given to their ease of access and transportation which facilitate supervision. Besides, this area has only recently been provided with medical services and is still in great need of environmental sanitary services.

Since the budget was only approved on August 19th, 1950, with 3 months remaining before the end of the year, only the following were accomplished :

- (1) Renting premises for office and store in each of Nekla and Kom Bira villages.
- (2) Survey and preparing of 1/1000 scale maps showing the important landmarks for Kom Bira, Kafr Hakim, Nekla and Birkash villages.
- (3) A complete sanitary survey of all the houses was made and the sanitary standard in each village was rated so that evaluation of the degree of improvement of these standards could be possible.

The following is a summary of the analysis of the data for Kom Bira village : it gives a general idea of the sanitary condition of the Egyptian village :

(a) The average sanitary rating for houses in Kom Bira was 34.7 %. 70 % is the minimal score for hygienic housing.

(b) 50 % of the houses have a private hand pump for the supply of water. The remaining houses get their potable water from any available source.

This shows that such a village is in great need of safe water sources and also sanitary latrines in the houses.

- (4) Cleanliness of the village and establishment of latrines :

The following have been provided in 1950 :

| Village | Scavenging gangs | Latrines |
|----------------------|------------------|--------------|
| Kom Bira | 1 gang | 161 latrines |
| Kafr Hakim | 1 „ | — |
| El Mansouriah | 2 „ | — |
| Nekla | 1 „ | — |
| Birkash | 1 „ | — |

B. In the budgets of Provincial Municipal Councils, L.E. 11,000 have been allocated especially for the cleanliness of villages.

Certain villages have been selected in each province for such a purpose. These villages have been chosen according to their need for improvement, to their proximity to the seat of the province for easy supervision by the provincial health administration, and the presence of a health or a social centre to facilitate local supervision of the services.

The following is a list of the selected villages :

TABLE No. 60

| Province | Village | Population |
|------------------|------------------|------------|
| Behera | Lakana | 3.000 |
| Sharkia | Shobak Basta ... | 3.275 |
| Dakahlia | Mit El-Faramawy | 3.016 |
| Gharbia | Beltag | 4.648 |
| Fouadia | El Hamra ... | 4.173 |
| Qaliubia | Tahanob | 5.633 |
| Menoufia | El-Ghanamiah... | 1.109 |
| Giza | El Mansouriah | 10.729 |
| Fayoum | Matar Tares ... | 9.774 |
| Beni Suef | Shater Zadah ... | 2.136 |
| Minia | Zohrah | 3.286 |
| Assiut | El Atawlah ... | 3.500 |
| Gerga | El Kitkatah ... | 3.152 |
| Qena | El Dair | 2.250 |
| Aswan | El Sibayah ... | 17.389 |

All the rural health centres except Assiut, Gerga, Qena and Aswan have been supplied with the necessary equipment for the work. Because of the late approval of the budget, the work was not started during the year.

IV. Sanitation Division :

Responsibilities :

1. Cemeteries.
2. Problems for study by the water Commission.
3. Supervision of refuse disposal systems and the control of mosquito-and fly breeding places.
4. Fencing and protection of waste lands in cities.
5. Summer and Winter resorts.
6. Sanitary survey and licencing of farms (Ezbas).
7. Public Sewage systems.
8. Enactment and enforcement of sanitary laws.
9. Supervision and control of filtered water plants.
10. Supervision of water systems in mosques.
11. Administration and operation of public baths in villages.
12. Control of public slaughter houses and enforcement of laws relating to them.
13. Application of the Rural Health Reform law to ponds and marshes by filling them in either by the inhabitants or by the department of village affairs.

Activities accomplished in 1950.

1. *Cemeteries :*

(a) *New cemeteries :*

38 cemeteries have been established or expanded.

156 other cemeteries : steps are being taken for their establishment or expansion

(b) *Disused old cemeteries :*

123 disused cemeteries have been evacuated and reclaimed.

346 other disused cemeteries are being substituted and evacuated.

(c) *Private tombs :*

Number of licences issued 8.

Number of tombs under licensing 17.

ADMINISTRATION AND OPERATION OF PUBLIC BATHS AND LAUNDRIES
OUTSIDE THE HEALTH CENTRES :

TABLE No. 61

| Month — | No. of operating baths and Laundries | No. of persons who used the baths | No. who used the Laundries |
|------------------|---|--------------------------------------|-------------------------------|
| January | 29 | 18,020 | 1,177 |
| February | 29 | 1,814 | 1,816 |
| March | 35 | 1,578 | 1,636 |
| April | 37 | 5,757 | 3,387 |
| May | 40 | 14,646 | 2,680 |
| June | 43 | 7,311 | 1,799 |
| July | 44 | 10,512 | 2,665 |
| August | 44 | 18,907 | 4,268 |
| September | 44 | 16,900 | 4,294 |
| October | 48 | 21,606 | 3,282 |
| November | 52 | 31,214 | 5,652 |
| December | 55 | 30,142 | 8,714 |

By providing these public baths and laundries for the use of the poor, this Division has much contributed towards the preservation of public health and reduction of morbidity. During epidemics, visitors to these baths and laundries are also dusted with D.D.T. for insect control.

Finally, this Division is responsible for laying down the sanitary specifications for water supplies, sewage drainage systems and disposal of mosquito and fly breeding places particularly in rural areas.

TABLE NO. 62.—PREVENTIVE SERVICES, CURATIVE SERVICES AND TREATMENT OF ENDEMIC DISEASES, MATERNAL AND CHILD WELFARE

| Province | No. of Health Centres in operation | Population of Area | Births | | Deaths | | No. Vaccinated against Small Pox | Diphtheria | | | Cases of infectious diseases | | | | | | Food Control | | | | |
|-------------|------------------------------------|--------------------|---------------------|------------------|---------------|--------------|----------------------------------|------------|----------|-----------|------------------------------|--------|-----------|---------|---------|--------|----------------|------------------------------|--|-------------|-------|
| | | | Total No. of Births | No. Still-Births | Infant Deaths | Total Deaths | | 1st. shot | 2nd shot | 3rd. shot | Plague | Typhus | Relapsing | Typhoid | Cholera | S. pox | Other diseases | Food Consumed (No. of times) | No. of samples and results of laboratory Exam. | | |
| | | | | | | | | | | | | | | | | | | | Fit | Adulterated | Unfit |
| Dakhia | 17 | 319,668 | 18,284 | 58 | 2,626 | 3,255 | 16,171 | 1,032 | 715 | 670 | — | — | — | 19 | — | — | 355 | 1,019 | 782 | 10 | 7 |
| Qalubia | 11 | 151,812 | 8,114 | 17 | 1,632 | 3,451 | 5,800 | 1,439 | 873 | 577 | — | — | — | 17 | — | — | 268 | 781 | 236 | 10 | 7 |
| Sharkia | 21 | 194,384 | 12,483 | 76 | 1,563 | 5,029 | 11,267 | 1,731 | 1,503 | 1,249 | — | — | — | 23 | — | — | 272 | 1,191 | 295 | 7 | 12 |
| Gharbia | 30 | 600,598 | 25,897 | 53 | 2,826 | 10,161 | 19,728 | 3,174 | 2,300 | 1,800 | — | 1 | — | 12 | — | — | 413 | 1,486 | 44 | 12 | 5 |
| Menoufia... | 14 | 1,078,036 | 8,822 | 54 | 1,651 | 4,485 | 7,646 | 1,439 | 1,030 | 747 | — | — | — | 19 | — | — | 302 | 748 | 458 | 15 | 41 |
| Behera | 11 | 235,429 | 9,110 | 14 | 1,417 | 3,466 | 8,343 | 973 | 866 | 803 | — | 4 | — | 12 | — | — | 248 | 533 | 132 | 3 | 4 |
| Giza | 9 | 226,829 | 19,918 | 57 | 2,602 | 4,727 | 10,584 | 434 | 442 | 378 | — | — | — | 48 | — | — | 393 | 239 | 145 | 18 | 3 |
| Fayoum | 5 | 146,769 | 6,467 | 46 | 1,105 | 3,224 | 5,535 | 527 | 457 | 380 | — | — | — | 4 | — | — | 130 | 216 | 165 | 5 | 4 |
| Beni-Suef | 5 | 95,209 | 3,374 | 27 | 532 | 1,861 | 3,409 | 608 | 396 | 293 | — | — | — | — | — | — | 200 | 455 | 334 | 4 | 1 |
| Minia | 8 | 251,970 | 10,516 | 9 | 1,467 | 5,016 | 7,292 | 1,441 | 1,141 | 954 | — | — | — | 8 | — | — | 448 | 301 | 304 | 6 | 23 |
| Assut | 16 | 249,462 | 10,199 | 9 | 1,540 | 5,060 | 8,902 | 1,096 | 906 | 747 | — | — | — | 31 | — | — | 6,833 | 251 | 139 | 1 | 4 |
| Gerga | 13 | 240,269 | 6,373 | 8 | 770 | 3,495 | 6,457 | 492 | 446 | 373 | — | — | — | 13 | — | — | 86 | 471 | 162 | 12 | — |
| Qena | 12 | 303,665 | 9,745 | — | 897 | 3,836 | 8,449 | 184 | 119 | 151 | — | 1 | — | 10 | — | — | 274 | 129 | 112 | 7 | 6 |
| Aswan | 6 | 71,299 | 3,335 | 1 | 588 | 1,495 | 2,717 | 286 | 217 | 126 | — | — | — | 1 | — | — | 31 | 111 | 57 | 10 | 10 |
| TOTAL | 178 | 4,165,399 | 152,597 | 429 | 21,216 | 58,561 | 122,300 | 15,376 | 11,411 | 9,188 | — | 6 | — | 217 | — | — | 10,253 | 7,939 | 3,761 | 120 | 127 |
| RATE | — | — | 37% | — | 139 Per 1000 | 14 Per 1000 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

TABLE No. 62 (Contd.)

| Province | Public Baths and laundries | | No. of Out Patients | | Ophthalmic cases | | No. of Operations | | Total No. of In-Patients | Endemic Diseases | | | | | | No. of Dysentery cases | | | |
|-----------|----------------------------|---------------------|---------------------|------------------|------------------|------------------|-------------------|-------------|--------------------------|------------------------------|--------------------------------------|-----------------|-------------|---------------------|----------|------------------------|--------------|---------------------|---|
| | No. using baths | No. using laundries | New | No. of old Cases | No. of new Cases | No. of old Cases | Out Patients | In-Patients | | No. of New Patients Examined | No. of Cases of Intestinal parasites | | | Completed treatment | Positive | Began treatment | No. of Shots | Completed treatment | |
| | | | | | | | | | | | Positive | treated with | | | | | | | |
| | | | | | | | | | | | | Carbon tetrach. | Chenopodium | | | | | | |
| Dakhlia | 18,974 | 1,980 | 135,134 | 206,100 | 9,516 | 32,860 | 3,216 | 85 | 1,066 | 88,019 | 44,143 | 2,675 | 25,837 | 24,507 | 280 | 270 | 1,860 | 252 | |
| Qaliubia | 85,968 | 14,497 | 153,220 | 47,413 | 21,274 | 6,980 | 1,483 | 72 | 1,338 | 85,668 | 63,081 | 4,696 | 30,717 | 8,002 | 52 | 48 | 190 | 30 | |
| Sharkia | 43,927 | 1,246 | 114,384 | 125,404 | 13,530 | 32,292 | 1,861 | 83 | 757 | 48,693 | 27,814 | 2,746 | 12,911 | 11,570 | 495 | 470 | 1,933 | 450 | |
| Gharbia | 16,332 | 2,450 | 71,794 | 258,402 | 9,548 | 25,551 | 4,305 | 205 | 1,115 | 114,741 | 69,518 | 4,147 | 35,984 | 21,142 | 453 | 426 | 1,902 | 368 | |
| Menoufia | 79,627 | 16,177 | 125,633 | 102,126 | 5,768 | 35,919 | 2,105 | 96 | 1,525 | 75,294 | 54,700 | 3,466 | 47,295 | 9,800 | 186 | 145 | 949 | 127 | |
| Behera | 23,080 | 1,359 | 161,499 | 116,566 | 7,496 | 15,840 | 1,776 | 72 | 6,237 | 49,843 | 27,111 | 1,830 | 13,914 | 4,115 | 603 | 493 | 2,786 | 345 | |
| Giza | 50,705 | 11,670 | 113,240 | 35,461 | 8,960 | 17,376 | 2,589 | 160 | 995 | 61,500 | 26,704 | 6,851 | 9,510 | 8,271 | 50 | 46 | 277 | 36 | |
| Fayoum | — | — | 35,913 | 20,024 | 5,262 | 17,022 | 292 | 18 | 138 | 18,895 | 3,214 | 1,355 | 193 | 590 | 72 | 65 | 430 | 42 | |
| Beni-Suef | 22,295 | — | 36,491 | 14,111 | 4,633 | 8,716 | 197 | 19 | 404 | 24,053 | 5,602 | 2,819 | 259 | 1,705 | 17 | 22 | 129 | 21 | |
| Minia | 43,639 | 5,238 | 64,218 | 38,832 | 8,333 | 17,567 | 301 | 25 | 2,371 | 47,420 | 12,236 | 3,919 | 1,546 | 1,666 | 158 | 109 | 698 | 134 | |
| Assiut | 17,231 | 4,144 | 130,873 | 11,816 | 14,343 | 23,068 | 278 | 9 | 58 | 48,168 | 8,613 | 4,256 | 6,050 | 1,955 | 391 | 260 | 141 | 316 | |
| Gerga | 26,651 | 18,588 | 78,870 | 93,843 | 7,949 | 18,078 | 278 | 14 | 253 | 45,574 | 9,223 | 4,261 | 2,461 | 6,722 | 341 | 309 | 200 | 305 | |
| Qena | 21,062 | 11,071 | 31,624 | 10,885 | 8,931 | 6,976 | 97 | — | 114 | 21,264 | 6,078 | 2,405 | 1,170 | 1,704 | 43 | 29 | 241 | 36 | |
| Aswan | 1,416 | 477 | 86 | 30,452 | 4,508 | 7,278 | 149 | — | 96 | 12,978 | 107 | 61 | 1 | 62 | 139 | 132 | 759 | 37 | |
| TOTAL | 450,897 | 88,897 | 1,258,999 | 1,157,435 | 130,047 | 265,523 | 18,927 | 858 | 16,467 | 742,120 | 358,124 | 45,487 | 187,848 | 101,811 | 3,260 | 2,824 | 12,495 | 2,529 | |
| RATE | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 4% | — | — | — | — |

TABLE No. 62 (Contd.)

| Provinces | Endemic Diseases | | | | No. of Bilharzia cases | | | No. of cases of scabies | | Pregnants | | Wassermann tests and Anti-syphilitic treatment | | | | | | | | | | | |
|-----------|------------------|-----------------|--------------|---------------------|--------------------------|----------|----------|-------------------------|-------|-----------|--------|--|----------|-----------------|--------------------------------|----------|----------|---------------------|----------|----------|-------|--------|-------|
| | Positive | Began treatment | No. of shots | Completed treatment | Examined after treatment | | | New | Cured | New | Old | No. of Blood Samples | Positive | Spoiled Samples | Began Antisyphilitic treatment | | | Completed treatment | | | Shots | | |
| | | | | | Total | Positive | Negative | | | | | | | | Wives | Husbands | Children | Wives | Husbands | Children | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Dakhia | 63,696 | 35,616 | 354,689 | 18,817 | 16,572 | 3,928 | 12,644 | 642 | 1,226 | 1,206 | 5,174 | 18,897 | 5,243 | 420 | 608 | 518 | 21 | 128 | 97 | 10 | 5 | 4,154 | 1,121 |
| Qalimbia | 38,058 | 22,734 | 208,026 | 5,702 | 6,086 | 1,306 | 4,780 | 1,150 | 1,358 | 1,850 | 5,339 | 24,533 | 4,762 | 165 | 78 | 897 | 64 | 371 | 65 | 10 | 27 | 7,219 | 1,898 |
| Sharkia | 30,311 | 23,312 | 176,692 | 16,794 | 7,298 | 2,528 | 4,770 | 1,203 | 1,584 | 1,364 | 4,203 | 12,226 | 4,126 | 214 | 339 | 292 | 97 | 35 | 115 | 79 | 4 | 2,228 | 1,111 |
| Gharbia | 74,207 | 34,165 | 451,261 | 29,664 | 21,270 | 1,580 | 19,690 | 2,860 | 1,410 | 1,367 | 6,152 | 26,171 | 1,974 | 500 | 516 | 603 | 72 | 79 | 199 | 30 | 104 | 9,916 | 2,864 |
| Menoufia | 41,381 | 26,206 | 253,519 | 8,011 | 6,679 | 1,159 | 5,520 | 1,821 | 449 | 416 | 5,531 | 17,606 | 5,718 | 187 | 134 | 286 | 49 | 78 | 46 | 12 | 7 | 4,560 | 1,298 |
| Behera | 25,438 | 18,750 | 45,578 | 5,533 | 3,527 | 594 | 2,933 | 767 | 507 | 482 | 2,598 | 10,501 | 2,661 | 167 | 179 | 2,261 | 16 | 272 | 21 | 1 | 3 | 1,846 | 490 |
| Giza | 30,678 | 20,531 | 208,732 | 8,604 | 5,758 | 1,251 | 4,507 | 551 | 510 | 437 | 4,518 | 22,852 | 4,931 | 165 | 190 | 508 | 87 | 176 | 339 | 59 | 189 | 7,559 | 3,579 |
| Fayoum | 10,902 | 8,781 | 73,429 | 1,698 | 949 | 182 | 767 | 91 | 78 | 71 | 2,012 | 6,953 | 2,257 | 175 | 109 | 188 | 19 | 51 | 16 | 1 | 14 | 2,504 | 789 |
| Beni-Suef | 12,506 | 8,837 | 72,418 | 2,826 | 1,257 | 103 | 1,154 | 86 | 33 | — | 1,908 | 9,044 | 2,192 | 168 | 1,997 | 165 | 46 | 54 | 19 | 3 | 12 | 2,855 | 816 |
| Minia | 21,453 | 17,812 | 148,001 | 4,925 | 3,093 | 578 | 2,515 | 504 | 497 | 460 | 3,387 | 16,128 | 3,960 | 643 | 473 | 630 | 12 | 398 | 120 | 6 | 36 | 8,994 | 2,206 |
| Assiut | 8,500 | 6,956 | 48,176 | 2,371 | 2,017 | 252 | 1,765 | 138 | 308 | 269 | 2,439 | 8,389 | 2,755 | 547 | 486 | 1,667 | 451 | 78 | 15 | 8 | 7 | 6,975 | 804 |
| Gerga | 24,657 | 18,864 | 18,864 | 5,525 | 5,525 | 1,638 | 3,887 | 33 | 40 | 28 | 794 | 4,448 | 1,078 | 207 | 191 | 338 | 134 | — | 130 | 106 | — | 3,362 | 123 |
| Qena | 6,704 | 4,731 | 14,354 | 1,826 | 1,812 | 318 | 1,494 | 124 | 444 | 431 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Aswan | 2,673 | 2,279 | 15,423 | 1,267 | 1,317 | 190 | 1,127 | 4 | 39 | 39 | 86 | 567 | 124 | 12 | 29 | 15 | 3 | 8 | 10 | 2 | 5 | 388 | 149 |
| TOTAL | 391,664 | 249,575 | 2249162 | 113,563 | 83,160 | 15,607 | 67,553 | 9,974 | 8,483 | 4,420 | 44,061 | 177,755 | 41,781 | 3,570 | 5,335 | 8,428 | 1,076 | 1,828 | 1,252 | 327 | 413 | 62,560 | 7,248 |
| RATE | 52% | | | 45% | | | 81% | | | | | | | | | | | | | | | | |

TABLE No. 62 (Contd.)

| Province | Urino Analysis | | | No. of Deliveries | | | | Child Welfare | | | | Home Visits to | | | | Invitation letters (for visiting centre) | | Lectures | | | |
|----------|-------------------|--------------------------|---------------------|-----------------------|-------|--------------------------------------|----------------------|---------------|-----------------|---------------|--------------------|----------------------------|--------------------|---------------------|----------------------|---|-------------------|-------------|---------------------------|----------------------|----------|
| | No. of Samples | Positives for Albumen | | Positive for Sugar | Total | Completed before arrival of nurse | in In-Pt. section | From Outside | No. of Children | Circumcisions | S. Pox vaccination | Diphtheria immunization | Pregnants | | During Puerperium | Children | | To pregnant | To mothers or children | By Health Officer | By Nurse |
| | | Bilharzia + five | Bilharzia — five | | | | | | | | | | Non- attendants | During 9th month | | Non- attendants | Regular visits | | | | |
| Dakhia | 16,539 | 299 | 3,239 | 8 | 7,238 | 1,033 | 31 | 2,189 | 50,895 | 534 | 5,634 | 468 | 5,298 | 4,365 | 40,028 | 15,846 | 8,775 | 804 | 1,719 | 904 | 4,056 |
| Qaliubia | 30,565 | 341 | 7,761 | 17 | 3,732 | 823 | 22 | 229 | 51,254 | 48 | 3,321 | 1,254 | 3,942 | 4,152 | 18,650 | 6,588 | 5,545 | 2,836 | 5,317 | 640 | 3,537 |
| Sharkia | 15,550 | 181 | 835 | — | 2,994 | 473 | 20 | 1,282 | 38,758 | 41 | 4,484 | 2,756 | 3,965 | 4,368 | 28,702 | 6,131 | 5,235 | 341 | 543 | 517 | 3,265 |
| Gharbia | 27,355 | 152 | 132 | 1 | 7,496 | 836 | 12 | 1,689 | 61,641 | 193 | 7,067 | 2,475 | 7,214 | 8,632 | 43,668 | 26,914 | 21,738 | 474 | 1,446 | 1,330 | 6,329 |
| Menoufia | 22,707 | 583 | 4,217 | — | 4,685 | 156 | 40 | 612 | 40,584 | 338 | 3,598 | 1,312 | 4,481 | 5,500 | 29,087 | 5,621 | 3,678 | 1375 | 1,539 | 1,253 | 4,271 |
| Bahera | 11,400 | 200 | 81 | — | 3,027 | 327 | 12 | 766 | 38,360 | 261 | 3,620 | 305 | 1,671 | 2,619 | 18,159 | 4,064 | 1,883 | 794 | 2,902 | 545 | 1,935 |
| Giza | 25,459 | 173 | 50 | — | 5,338 | 738 | 43 | 1,821 | 38,694 | 5 | 3,877 | 698 | 3,394 | 4,535 | 27,432 | 1,731 | 5,411 | 710 | 57 | 362 | 2,199 |
| Fayoum | 9,048 | 122 | 69 | — | 1,961 | 338 | 5 | 266 | 13,715 | 30 | 1,380 | 564 | 1,436 | 1,561 | 7,582 | 1,965 | 1,254 | 229 | 159 | 294 | 1,292 |
| Beni-Suf | 1,776 | 73 | 47 | — | 1,990 | 376 | 19 | 235 | 22,786 | 1 | 1,544 | 869 | 2,795 | 2,267 | 11,822 | 197 | 4,650 | 367 | 50 | 354 | 1,694 |
| Minia | 18,863 | 18 | 810 | — | 3,321 | 380 | 9 | 450 | 28,700 | 5 | 2,500 | 1,465 | 4,101 | 2,673 | 19,718 | 8,679 | 11,962 | 512 | 1531 | 120 | 909 |
| Assiut | 8,056 | 47 | 84 | 2 | 3,691 | 1,120 | 7 | 1,661 | 9,735 | 16 | 2,322 | 903 | 3,543 | 2,289 | 21,301 | 700 | 2,647 | 272 | 245 | 274 | 821 |
| Gerga | 5,697 | — | 54 | 1 | 986 | 186 | 3 | 376 | 6,921 | — | 869 | 114 | 813 | 771 | 4,583 | 1,342 | 942 | — | 94 | 156 | 774 |
| Qena | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Aswan | 752 | — | — | — | 148 | 2 | 6 | 76 | 2,822 | 3 | 119 | 189 | 178 | 93 | 969 | 520 | 228 | 17 | 122 | 44 | 265 |
| TOTAL | 193,717 | 2,197 | 17,379 | 29,46,607 | 6,788 | 229 | 11,652 | 404,865 | 1,477 | 40,335 | 13,372 | 42,831 | 43,825 | 271,701 | 80,298 | 74,948 | 8,781 | 15,724 | 6,793 | 31,347 | — |
| RATE | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

Chapter VII.—Quarantine

Maritime Navigation

TABLE NO. 63.—QUARANTINABLE DISEASES REPORTED IN THE PORTS DURING THE YEAR 1950

| Ports | Plague | | Cholera | | Smallpox | | Typhus | |
|-------------------|--------|--------|---------|--------|----------|--------|--------|--------|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Alexandria | — | — | — | — | — | — | 7 | — |
| Port-Saïd | — | — | — | — | — | — | — | — |
| Suez | — | — | — | — | — | — | — | — |

Other Ports :— Abu Zenema, Safaga, Hurghada, Shellal, Kantara, Ras-Ghareb, Rosetta, Abuqir, Mersa Matrouh and Sollum : Nil

Inspection of Vessels

As provided for in Article 48 of Quarantine Regulations, all vessels arriving at Egyptian Ports must, before communication with the shore, be medically inspected.

Vessels arriving from infected ports are subjected to a detailed medical inspection (arraisonnement).

In the tables that follow are given :—

1. List of localities declared infected during the year by the Quarantine Authority (Table No. 64)
2. List of localities declared clean during the year by the Quarantine Authority (Table No. 65)
3. Number of vessels subjected to simple medical inspection (Table No. 66)
4. Number of vessels subjected to detailed medical inspection (Table No. 67)
5. Diseases found on vessels on their arrival at Egyptian Ports (Table No. 68)
6. Vaccinations carried out on board vessels in Egyptian ports (Table No. 69).
7. Passengers (Table No. 70)

TABLE NO. 64.—LOCALITIES DECLARED INFECTED DURING THE YEAR 1950

| Date | | Disease | Name of Country | Name of Locality considered as infected |
|-------------|----|-----------|--------------------------------------|---|
| 1950 | | | | |
| January | 11 | Plague... | Peru ... | Tumbes Province. |
| " | 23 | " | Chile ... | Santiago Province. |
| " | 23 | " | Transval (Union of South Africa) ... | Roadepoort District. |
| March | 5 | Plague... | Union of South Africa ... | Lady Grey Municipal Area (Cape Province). |
| " | 5 | " | Hawaii ... | Honokaa & Kapulena Areas. |
| " | 8 | Smallpox | Saudi Arabia ... | Whole Territory. |
| " | 19 | " | Indonesia ... | Medan. |
| " | 27 | Plague... | Transval (Union of South Africa) ... | Waterburg, Viljoenskroon. |
| April | 11 | Plague... | Peru ... | Piura Department, Ayabaca, Huancabamba Province. Cajamarca Department Chota Province. |
| " | 15 | Smallpox | Java Island ... | Sourabaya. |
| " | 30 | Plague... | Rhodesia (Northern) ... | Barotse Province. |
| " | 30 | " | Venezuela ... | Tacata, State de Miranda. |
| May | 7 | " | Burma... | Rangoon. |
| " | 7 | Smallpox | Chile ... | Whole Territory. |
| " | 17 | Plague | Washington State (U.S.A.) | Lincoln, Douglas, Grant Counties. |
| " | 17 | Smallpox | Indonesia ... | Pontianak, Borneo Island. |
| " | 17 | Plague... | Union of South Africa ... | Dewetsdrop District, Orange Free State. |
| " | 25 | " | " | Thaba, Nchu District. |
| June | 5 | Typhus | Yugoslavia ... | Whole Territory. |
| " | 5 | Smallpox | Indonesia ... | Jogjakarta |
| " | 5 | " | Belgian Congo ... | Lusambo |
| " | 15 | " | Gold Coast... | Whole Territory. |
| " | 21 | Typhus | Iraq ... | Whole Territory |
| " | 28 | Plague | Union of South Africa ... | Luckhoff Municipal Area (Orange Free State). |
| July | 13 | Smallpox | Greece... | Whole Territory |
| " | 13 | " | Borneo Indonesia ... | Bandjarmasin. |
| " | 31 | Plague | Washington State (U.S.A.) | Killitas Country. |
| " | 31 | Smallpox | Argentina & New Mexico... | Whole Territory |

TABLE No. 65. RESTRICTIONS WERE WITHDRAWN FROM THE FOLLOWING LOCALITIES

| Date | | Disease | Name of Country | Name of Localities considered as decontaminated |
|-------------|----|------------------|---------------------------|--|
| 1950 | | | | |
| January | 28 | Plague... .. | Chile | Santiago. |
| March | 19 | „ | Union of South Africa ... | Hay; Gordonias; Parys; Hopstaad; Vredvort. |
| May | 3 | Typhus | Greece | Whole Territory |
| „ | 3 | Smallpox | Algiers... .. | Whole Territory |
| „ | 29 | Plague... .. | Peru | Tumbes Department. |
| June | 6 | „ | Cape Province | Grey Municipal. |
| „ | 6 | „ | Transval | Waterburg and Viljoenskroon. |
| August | 12 | „ | Venezuela | Tacata, State de Miranda. |
| „ | 21 | Smallpox | Greece | Whole Territory |
| „ | 22 | Plague... .. | Hawaii | Honokaa and Kapulena Areas Haina; Hamakua District. |
| October | 10 | Smallpox | Union of South Africa ... | Whole Territory. |
| „ | 17 | Plague... .. | Burma... .. | Rangoon, Mulmein. |
| „ | 17 | Smallpox | Burma... .. | Rangoon, Akyab. |
| November | 4 | Yellow Fever ... | French Somaliland | Whole Territory including Djibouti |
| „ | 4 | Plague... .. | Indonesia | Jogjakarta. |

Simple Medical Inspection (Reconnaissance)

TABLE No. 66.—STATEMENT FOR ALL SHIPS ARRIVED DURING THE YEAR 1950

| Port | Cargo | Passenger Vessels | Passenger and cargo | Sailing vessels and launches | Tankers | Various | TOTAL |
|----------------------|-------|----------------------|------------------------|------------------------------------|---------|---------|--------------|
| Alexandria | — | 275 | 930 | 113 | 80 | 21 | 1,419 |
| Port-Saïd | 1,939 | 395 | 506 | 356 | 3,126 | 438 | 6,760 |
| Suez | 410 | 27 | 48 | 425 | 484 | 16 | 1,410 |
| Tor | — | — | 7 | 97 | 4 | — | 108 |
| Quseir | 59 | — | — | 95 | 4 | — | 158 |
| Damietta | — | — | — | 145 | — | — | 145 |
| Rosetta | — | — | — | — | — | — | — |
| Hurghada | 80 | — | — | 20 | — | — | 100 |
| Safaga | 10 | 1 | — | 31 | 2 | — | 44 |
| Kantara | — | — | — | 2 | — | — | 2 |
| Sollum | — | — | — | — | — | — | — |
| Ismailia | — | — | — | — | — | — | — |
| Abu Zenema | 5 | — | — | 109 | — | — | 114 |
| Mersa Matrouh | — | — | — | — | — | — | — |
| Ras Ghareb | 136 | — | 158 | 3 | — | — | 297 |
| Abu-qir | — | — | — | — | — | — | — |
| Brollos | — | — | — | — | — | — | — |
| Shellal | — | — | — | — | — | — | — |

Detailed Medical Inspection (Arraignment)

TABLE No. 67

| Port | Cargo | Passenger Vessels | Passenger & cargo | Sailing vessels & launches | Tankers | Various | TOTAL |
|----------------------|-------|----------------------|----------------------|----------------------------------|---------|---------|-------|
| Alexandria | — | 89 | 832 | 58 | 23 | — | 1,002 |
| Port-Saïd | 1,532 | 320 | 633 | 48 | 3,566 | 180 | 6,279 |
| Suez | 1,535 | 313 | 592 | 140 | 2,429 | 114 | 6,123 |
| Tor | — | — | 4 | 69 | — | 1 | 74 |
| Quseir | 33 | — | — | 6 | — | — | 39 |
| Damietta | — | — | 8 | — | — | — | 8 |
| Rosetta | — | — | — | 109 | — | — | 109 |
| Hurghada | — | — | — | 2 | — | — | 2 |
| Safaga | 12 | — | — | 17 | — | — | 29 |
| Kantara | — | — | — | — | — | — | — |
| Sollum | — | — | — | 2 | — | — | 2 |
| Ismailia | — | — | — | — | — | — | — |
| Abu Zenema | 7 | — | — | — | — | — | 7 |
| Mersa Matrouh | — | — | — | 1 | — | — | 1 |
| Ras Ghareb | 1 | — | 1 | 1 | — | — | 3 |
| Abu-Qir | — | — | — | 24 | — | — | 24 |
| Brollos | — | — | — | — | — | — | — |
| Shellal | 99 | 53 | 5 | 486 | — | 166 | 809 |

TABLE No. 68.—QUARANTINABLE AND INFECTIOUS DISEASES
FOUND ON BOARD VESSELS.

ALEXANDRIA : Nil

PORT-SAID :

| | |
|---|-------|
| (a) Quarantinable Diseases : | Nil. |
| (b) Infectious Diseases : 38 cases on board 37 vessels consisting of the following diseases : | |
| 3 Pulmonary Tuberculosis | |
| 10 Pneumonia | |
| 3 Influenza | |
| 2 Bronchitis | |
| 1 Dysentery | |
| 2 Enteritis | |
| 2 Coughing | |
| 1 Poliomyelitis | |
| 2 Typhoid | |
| 1 Paratyphoid | |
| 1 Hemorrhage | |
| 6 Fever | |
| 2 Typhoid Suspected | |
| 1 Asthma | |
| 1 Tonsillitis | |
| <hr/> 38 | TOTAL |

SUEZ :

| | |
|--|-------|
| (a) Quarantinable Diseases : | |
| 9 Feb. One case of smallpox (Indian crew on S.S. "Dorchester" arriving from Jogjakarta and Colombia) was isolated. | |
| March—One case of Modified Smallpox, isolated from s.s "Clan Pridie". | |
| September—Three cases convalescent Smallpox on S.S. "Orkadis" arriving from Sydney and Colombo. | |
| 13 December—Three cases of mild smallpox (Indian crews) were isolated from S.S. "Ulirana" arriving from Calcutta, Visagabatam, Madras, Colombo and Aden. | |
| (b) Infectious Diseases : 1091 cases on board 227 vessels consisting of the following diseases : | |
| 81 Influenza | |
| 2 Whooping Cough | |
| 302 Tuberculosis | |
| 387 Malaria | |
| 19 Chickenpox | |
| 39 Measles | |
| 6 Pleurisy | |
| 1 Typhoid | |
| 192 Dysentery | |
| 7 Mumps | |
| 2 Poliomyelitis | |
| 2 Syphilis | |
| 2 Leprosy | |
| 21 Pneumonia | |
| 3 Erysipelas | |
| 18 Scabies | |
| 2 Hepatitis | |
| 2 Bronchitis | |
| 3 Scarlet Fever | |
| <hr/> 1091 | TOTAL |

TABLE NO. 69.—VACCINATION CARRIED OUT ON BOARD VESSELS

SUEZ :

42 Crew of the s.s. Semiramis, Jacavos Illa and Youssif Zinal Aly Rida
 790 Crew of the s.s. Dorsetshire
 3 Crew of the s.s. Timavo
 7 Crew of the s.s. Carlo
 95 Crew of the s.s. Triumph
 3 Crew of the s.s. Portrose
 42 Crew of the s.s. Youssif Zinal Aly Rida
 5 Crew of the s.s. Star of Cairo
 82 Crew of the s.s. Clan Pridie
 5 Crew of the s.s. Troubadour
 84 Crew of the s.s. Saqqarah
 27 Crew of the s.s. Youssif Zinal Aly Rida
 1 Crew of the s.s. Semiramis
 4 Crew of the s.s. Youssif Zinal Aly Rida
 2 Crew of the s.s. City of Exeter
 22 Crew of the s.s. Yossif Zinal Aly Rida
 24 Crew of the s.s. Al Amin
 15 Crew of the s.s. Phillips
 1 Crew of the s.s. Indian Trader
 16 Crew of the s.s. Misr
 11 Crew of the s.s. Al Sudan
 6 Crew of the s.s. Al Amin
 93 Crew of the s.s. Ulrana
 32 Crew of the s.s. Derbyshire
 All were vaccinated against smallpox

CONTROL OF PASSENGERS

TABLE NO. 70.—LANDING

| Port | Class I and II | Class III and IV | TOTAL |
|-------------------|-------------------|---------------------|-----------------------------|
| Alexandria | 17,784 | 14,994 | 32,742 |
| Port Said | 15,683 | 31,090 | 46,773 |
| Suez... .. | 3,636 | 18,829 | 22,465 |
| Tor | 36,041 | — | 36,041 (Pilgrims) |
| Qusier | — | — | — |
| Kantara | 2,598† | 810* | 3,408 |
| Safaga | — | — | — |
| Hurghada | 20 | 10 | 30 |
| Ras Ghareb | 538 | 396 | 934 |
| Mersa Matrouh ... | — | — | — |
| Sollum | — | — | — |
| Ismailia | — | — | — |
| Damietta... .. | — | 1 | 1 |

* Arrived by Camels

† Arrived by train

TABLE NO. 71—EMBARKING

| Port | I and II Class | III and IV Class | TOTAL |
|-------------------|----------------|------------------|------------------------|
| Alexandria | 14,361 | 15,712 | 30,073 |
| Port-Saïd | 16,174 | 23,904 | 40,078 |
| Suez | 2,077 | 8,694 | 10,771 |
| Tor | 36,036 | — | 36,036 pilgrims |
| Qusier | — | — | — |
| Kantara | 2,956* | — | 2,956 |
| Safaga | — | — | — |
| Hurghada | 10 | 8 | 18 |
| Ras Ghareb | 387 | 417 | 804 |
| Mersa Matrouh ... | — | — | — |
| Sollum | — | — | — |
| Ismailia | — | — | — |
| Damietta | — | — | — |

* arrived by train.

TABLE NO. 72.—AIRCRAFT DEALT WITH DURING 1950

| Name of Airport | Landing | Departing | Aircraft disinsectised | Reconnaissance | Arraïsonnement |
|----------------------|---------|-----------|---------------------------|----------------|----------------|
| Cairo | 6,521 | 6,494 | 1,743 | 1,910 | 4,611 |
| Almaza | 2,184 | 2,085 | 417 | 1,388 | 1,138 |
| Luxor | 323 | 323 | 288 | 35 | 288 |
| Alexandria | 834 | 837 | 234 | 448 | 386 |
| Mersa Matrouh | 10 | 12 | — | 10 | — |
| Fayed | 2,571 | 2,715 | 678 | 1,040 | 1,531 |

TABLE No. 73.—PASSENGERS LANDED FROM AIRCRAFTS

| Name of Airport | Landing | Departing | Transit | Isolated | Remarks |
|----------------------|---------|-----------|---------|----------|--|
| Cairo | 134,732 | 34,633 | 103,248 | 634 | 13 Irregular certificates of anti cholera inoculation. |
| Almaza | 21,166 | 20,852 | 4,784 | 63 | Absence of stool examination certificates Irregular certificates of yellow fever inoculation. |
| Alexandria | 4,820 | 4,880 | 13,538 | 37 | Irregular certificates of anti-cholera inoculation. Irregular certificates of yellow fever inoculation. |
| Fayed | 10,789 | 18,000 | 6,871 | 4 | Irregular certificates of inoculation. |
| Luxor | 216 | 88 | 7,231 | 2 | Irregular certificates of yellow fever inoculation. |
| Mersa Matrouh | 26 | 26 | — | — | |

ANTI-PLAGUE WORK

Details of rat catching in town and port areas carried out in Alexandria, Port-Said and Suez and their identification by the laboratories.

As regards the fumigation of vessels, this is done by either the Clayton Gas process which is carried out by the Quarantine Administration, or by the Cyanide process which, until October 1948, was carried out by the Imperial Chemical Industries under the Quarantine Administration supervision.

Under Article 28 of the 1926 International Sanitary Convention which was modified in 1938, masters of ships have the option of either process.

The Imperial Chemical Industries withdrew from this work as from October 1948 and the Near East Chemical And Fumigation Company took its place as from January 1949 under the same conditions.

TABLE NO 74.—NUMBER OF RATS CAUGHT, DESTROYED OR EXAMINED IN THE PORTS.

| Number and species of rats caught | Alexandria | Port-Said | Suez |
|--|---------------|--------------|--------------|
| R. Norvegicus { town | 4,129 | 7,838 | 1,404 |
| { port | 17 | 358 | 110 |
| R. Rattus { town | 5,743 | 21 | 1 |
| { port | 1,863 | 294 | 18 |
| Acomys Cahirinus { town | 2,152 | — | 654 |
| { port | 97 | — | 155 |
| TOTAL | 14,001 | 8,511 | 2,342 |
| Soory { town | — | — | 706 |
| { port | — | — | 831 |
| Rats found dead { town | — | — | — |
| { port | — | — | — |
| Rats killed... .. { town | 61 | — | — |
| { port | 299 | — | — |
| Plague infected rats found ... { town | 5 | — | — |
| { port | — | — | — |
| Rats found dead after fumigation on board vessels : | | | |
| R. Rattus | 15 | — | 24 |
| R. Norvegicus | 629 | 23 | — |
| Acomys Cahirinus | 21 | — | — |
| Soory | 441 | 2 | 5 |

TABLE No. 75.—FLEAS FOUND ON RATS CAUGHT

| | Town | | Port Area | | TOTAL |
|------------------------|-------|--------|-----------|--------|-------|
| | I. M. | X. Ch. | L. M. | X. Ch. | |
| <i>A.—Alexandria :</i> | | | | | |
| R. Norvegicus | 38 | 96 | — | 28 | 162 |
| R. Rattus | 609 | 674 | 83 | 54 | 1,420 |
| Acomys | — | — | — | — | — |
| <i>B.—Port-Said :</i> | | | | | |
| R. Norvegicus | 182 | 316 | 65 | 134 | 697 |
| R. Rattus | 19 | 31 | 75 | 105 | 230 |
| Acomys | — | — | — | — | — |
| <i>C.—Suez :</i> | | | | | |
| R. Norvegicus | — | — | — | — | — |
| R. Rattus | — | — | — | — | — |
| Acomys | — | — | — | — | — |

L.M. = Leptopsylla Musculi.

X. Ch. = Xenopsylla Cheopis.

TABLE No. 76.—VESSELS DERATISED

A.—Vessels deratised by the Quarantine Administration, (Clayton Process) :

| Port of | Vessels | | | Process of deratization |
|-------------------|----------|---------|-----------|-------------------------|
| | Steamers | Sailing | TOTAL | |
| Alexandria | 10 | — | 10 | Sulphur |
| Port-Saïd | — | — | — | " |
| Suez | 4 | — | 4 | " |

B.—Vessels deratised by the Near East Chemical and Fumigation Industries, Ltd. under the supervision of the Quarantine Administration.

| Port of | Vessels | | | Process of deratization |
|-------------------|----------|---------|-----------|-------------------------|
| | Steamers | Sailing | TOTAL | |
| Alexandria | 17 | — | 17 | Cyanide |
| Port-Saïd | — | — | — | " |
| Suez | 5 | — | 5 | " |

C.—Certificates of Exemption from Deratization issued to :

| Port of | Vessels | | |
|-------------------|----------|---------|------------|
| | Steamers | Sailing | TOTAL |
| Alexandria | 61 | 15 | 76 |
| Port-Saïd | 80 | 27 | 107 |
| Suez | 74 | 70 | 144 |
| Damietta | — | 40 | 40 |
| Quseir | — | 45 | 45 |

Disinfection.

TABLE NO. 77.—DISINFECTION BY CHEMICAL MEANS

| | Alexandria | Port-Said | Suez | Shellal | Tor |
|---|------------|------------|----------|---------|-----|
| Disinfection of Decks of Vessels | 19 | — | — | — | 43 |
| Vessels with sick on Board | — | — | 4 | — | — |
| Water tanks disinfected | 37 | — | 22 | — | — |
| Water tanks purified | — | — | 89 | — | — |
| Vessels carrying animals | — | 9 | 81 | — | 1 |
| Barges and boats | 141 | 44 | 360 | — | 5 |
| Cabins occupied by sick | — | 8 | 2 | — | — |
| Motor cars and transport carts | 108 | — | 5 | 7 | — |
| Vessels from yellow fever zone | 3 | — | 3,146 | — | — |
| Effects of personnel disinfected... .. | — | — | 50 K. | — | — |
| Miscellaneous | 13 | — | 208 | — | — |
| Effects in Kilos | — | — | 1,173 K. | — | — |
| Effects of porters | 1,378 | — | 338 K. | 40 | — |
| Number of stovefulls | — | 82 | — | — | — |
| Parcels disinfected without charge ... | — | 3 | — | — | — |
| Mooring Barges | — | 486 | — | — | — |
| Parcels disinfected and fees paid to Quarantine Administration | — | 14,602.9k. | — | — | — |
| Parcels disinfected and fees paid to the Customs-house | — | 120 | — | — | — |
| Aircraft | — | — | — | — | 68 |
| Post parcels | 67 | — | — | — | — |
| Vessels disinfected with D.D.T. | 1 | — | — | — | — |
| Holds of vessels | 190 | — | — | — | — |
| Effects of passengers | — | — | 1,326 | — | — |

DISINFECTION BY STEAM UNDER PRESSURE

| | Alexandria | Port-Said | Suez | Shellal | Tor |
|----------------------------|------------|-----------|------|---------|-----|
| Customs Parcels | 147 K. | — | — | — | — |
| Hessian and wool | 108663 „ | — | — | — | — |
| Effects and clothes | 167 „ | — | — | — | — |

TABLE No. 78.—CONTROL OF WATER DISTRIBUTION TO VESSELS
IN THE PORTS :

| | Alexandria | Port-Said | Suez |
|--|------------|-----------|------|
| No. of specimens taken from water-tanks supplying the vessels | — | — | 292 |
| No. of specimens taken from taps supplying the water-Tanks | — | 146 | 201 |
| No. of specimens taken from taps supplying vessels ... | 818 | 893 | — |

RESULT OF BACTERIOLOGICAL EXAMINATION

| | | | |
|---------------------------------|-----|-----|-----|
| Specimens found fit for use . | | | |
| Taps | 90 | 86 | 188 |
| Water-Tanks | 742 | 385 | 162 |
| Specimens found unfit for use : | | | |
| Taps | 91 | 60 | 104 |
| Water-Tanks | 76 | 508 | 39 |
| Specimens found unfit for use : | 1 | — | — |

TABLE NO. 81.—STATISTICS SHOWING WORK DONE BY FOOD CONTROL GANGS
IN CUSTOMS HOUSES DURING 1950

A.—Consignments Examined and Results of Samples taken therefrom.

| No. of Consignments Examined | No. of Samples taken | Results of Analysis | | |
|---------------------------------|-------------------------|---------------------|-------|-------------|
| | | Genuine | Unfit | Adulterated |
| 35,169 | 1,290 | 874 | 214 | 202 |

B.—Foodstuffs Condemned or Refused their entry into the Country

| Kind of Foods | Kgrs. | Boxes, Sacks or Drums | Bottles | Cans |
|------------------------------|----------------|--------------------------|--------------|--------------|
| 1.—Fresh Foods : | | | | |
| Vegetables | 52,755 | — | — | — |
| Fruits | 26,142 | 1,060 | — | — |
| Meat | 22,399 | 914 | — | — |
| 2.—Canned Foods : | | | | |
| Jams and Dried Fruits | 79,984 | 27,267 | — | 432 |
| Milk | 26,475 | 2,044 | — | 163 |
| Meat | 58,142 | 2,299 | — | 224 |
| Fish | 22,954 | 4,631 | — | 39 |
| 3.—Oils : | | | | |
| Cotton seed oil | 172 | 5 | — | 4 |
| Butter and Masli... .. | 15,782 | 705 | — | — |
| Fat and Margarine | 1,150 | — | — | 113 |
| 4.—Other Foods : | | | | |
| Cheese | 705 | 917 | — | — |
| Flour | 131,691 | 1,016 | — | — |
| Flour Products | 748 | 1,584 | — | — |
| Seeds and Corns... .. | 10,143 | 856 | — | — |
| Nuts and Almonds | 85,851 | 1,877 | — | — |
| | 19,859 | 3,299 | — | — |
| Spices | 6,403 | 3,931 | — | — |
| Sweets and Chocolate | 1,069 | 3,445 | — | — |
| Tea | 130,308 | 2,005 | — | — |
| Coffee | 1,966 | 198 | — | — |
| Alcoholic liquors | 64,199 | 42 | 1,352 | — |
| Sugar | 371 | 297 | — | — |
| Chemicals | — | 100 | 12 | — |
| Tamarind | 5,080 | 100 | — | — |
| Dry Beans | 3,480 | 237 | — | — |
| Egg Powder | 9,994 | 63 | — | — |
| TOTAL | 776,827 | 58,950 | 1,364 | 1,005 |

TABLE NO. 82 (A)—CONSIGNMENTS OF TEA AND THOSE OF INFERIOR QUALITY IMPORTED TO CUSTOMS HOUSES DURING 1948, 1949 AND 1950.

| Names of Customs | Consignments of tea imported to Customs in general | | | Consignments of tea of inferior quality imported to Customs | | |
|-------------------------|--|--------------|--------------|---|-----------|-----------|
| | 1948 | 1949 | 1950 | 1948 | 1949 | 1950 |
| Canal Customs House ... | 1,086 | 2,047 | 1,942 | 1 | 34 | 12 |
| Alexandria „ „ ... | 612 | 985 | 1,461 | 4 | 8 | 29 |
| Suez „ „ ... | 230 | 355 | 718 | — | 1 | 3 |
| Damietta „ „ ... | — | — | — | — | — | — |
| Cairo „ „ ... | 2 | 1 | 149 | — | — | — |
| TOTAL ... | 1,930 | 3,388 | 4,270 | 5 | 43 | 44 |

(B)—DIFFERENT SAMPLES OF FOODSTUFFS TAKEN DURING 1950

| Total number | Genuine | Adulterated | Unfit |
|---------------|---------|-------------|-------|
| 27,546 | 25,664 | 1,028 | 854 |

TABLE NO. 83.—DIFFERENT SAMPLES OF FOODSTUFFS (GENUINE, ADULTERATED AND UNFIT)
AT THREE IMPORTANT LOCALITIES HAVING NO SANITARY INSPECTORS.

| Name of Locality | Year | Total Number | Genuine | Adulterated | Unfit |
|------------------|------|--------------|---------|-------------|-------|
| Luxor | 1948 | 148 | 137 | 5 | 6 |
| | 1949 | 282 | 247 | 7 | 28 |
| | 1950 | 408 | 383 | 9 | 16 |
| Mallawi | 1948 | 172 | 154 | 15 | 3 |
| | 1949 | 155 | 138 | 16 | 1 |
| | 1950 | 177 | 166 | 10 | 1 |
| Fouadia | 1948 | 1,066 | 967 | 30 | 69 |
| | 1949 | 999 | 934 | 17 | 48 |
| | 1950 | 711 | 675 | 18 | 18 |

TABLE NO. 84.—DIFFERENT SAMPLES OF FOODSTUFFS (GENUINE, ADULTERATED AND UNFIT)
AT THREE IMPORTANT LOCALITIES HAVING SANITARY INSPECTORS.

| Name of Locality | Year | Total Number | Genuine | Adulterated | Unfit |
|------------------|------|--------------|---------|-------------|-------|
| Mansoura | 1948 | 1,347 | 1,207 | 65 | 75 |
| | 1949 | 1,440 | 1,300 | 80 | 60 |
| | 1950 | 1,556 | 1,414 | 97 | 45 |
| Tanta | 1948 | 1,177 | 1,072 | 86 | 19 |
| | 1949 | 1,686 | 1,526 | 128 | 32 |
| | 1950 | 1,719 | 1,576 | 110 | 32 |
| Giza | 1948 | 1,455 | 1,306 | 119 | 30 |
| | 1949 | 1,950 | 1,777 | 165 | 8 |
| | 1950 | 2,140 | 1,870 | 252 | 18 |

TABLE NO. 85.—SAMPLES OF TIN EXAMINED
DURING 1948, 1949 AND 1950

| Year | Samples examined | Samples adulterated |
|------------|------------------|---------------------|
| 1948... .. | 142 | 7 |
| 1949... .. | 187 | 7 |
| 1950... .. | 280 | 3 |

TABLE NO. 86 —VARIOUS STATISTICS, 1950

| P.V. drawn up according to article II of Law No. 48 of 1941 | P.V. drawn up against Itinerant Vendors | P.V. drawn up against Milk Vendors | Bandars to which the itinerant vendors regulations were applied | Bandars to which the regulations of milk Vendors were applied | No. of itinerant Vendors licensed during 1950 | No. of Milk Vendors licensed during 1950 |
|---|---|------------------------------------|---|---|---|--|
| 1,737 | 9,066 | 5,529 | 15 | 10 | 1,335 | 343 |

SAMPLES OF MILK TAKEN AND THE RESULTS OF THEIR ANALYSIS 1950.

| No. of Samples | Results of Analysis | | | | Percentage |
|----------------|---------------------|-------------------------------|----------------------------------|---------------------|------------|
| | Genuine | Adulterated by removal of fat | Adulterated by addition of water | Adulterated by both | |
| 13,164 | 12,094 | 545 | 475 | 53 | 7.65 % |

PART II. — SOCIAL HYGIENE

Chapter IX.—Maternity and Child Welfare

During the year, a number of representatives of the foreign press and world health experts paid visits to child welfare units with a view to studying the health and social problems in Egypt. Dr. Taylor and Miss Codleman visited child welfare centres in Cairo and the provinces and submitted a detailed report which is still under consideration. Dr. Peryl Halet, Director of child Welfare in France and Dr. Fieldman also visited these centres and expressed their appreciation of their activities.

Fellowships were awarded by UNICEF and WHO to members of the section to study new developments in child care in France, England, Switzerland and Scandinavian countries

During the year, the Itsa and Abshaway child welfare centres, hitherto under the supervision of Fayoum Provincial Council, have been attached to the Ministry.

A child welfare centre was opened on 1/1/1950 at Manchiet el Bakry, Cairo. Souhag centre was transferred to Salama Abdulla memorial home on 27/1/1951.

Two in-patient sections were provided in Suez and Ismailia centres.

Considering the nutritional value of milk, the amount of milk distributed by the centres has been increased threefold.

The child welfare units contributed in the B.C.G. mass vaccination campaign conducted by the Chest Diseases Section in conjunction with WHO and UNICEF by undertaking the vaccination of their births and others.

New transport vehicles have replaced old ones in Cairo. This arrangement is being adopted in the provinces. 30 assistant midwives have been appointed against a credit of L.E. 1,980 under the Labour Act.

Chapter X. — Chest Diseases

Statistical Data :

According to the 1949 report, a total of 95,292 positive tuberculous cases diagnosed by the Chest Diseases dispensaries were recorded between 1929 and that year. A further 11,404 positive cases were detected during the year 1950, making a total of 106,696 cases at the end of 1950.

During the year, the following units were opened :-

1. Mellawi Chest Diseases Unit—on 15/10/1950, with an out patient dispensary, an in-patient department and a children's preventorium (opened in November 1950).
2. Zagazig Chest Diseases Hospital—constructions completed and opened on 11/11/1950.
3. Shebin El Kom Chest Diseases Dispensary—In-patient department opened on 2/12/1950.
4. Damanhour Chest Diseases Hospital—constructions completed and opened for treatment on 16/12/1950.
5. Stationary Mass Radiography Unit—set up at Muftadayan Chest Diseases Dispensary in December 1950.
6. Stationary Mass Radiography Unit—set up at Alexandria Chest Diseases Dispensary in December 1950.

Thus, the Chest Diseases Units are now as follows :-

24 dispensaries

1 mobile mass radiography unit (actually annexed to Muftadayan Chest Diseases Dispensary).

17 branch dispensaries

17 in-patient departments within dispensaries

5 sanatoria

2 surgical T.B. institutions exclusive of Port Said Maritime Sanatorium, which, besides functioning as a chest diseases unit, has received few bone cases.

4 preventoria

1 colony for convalescents.

Patients of Giza Sanatorium have been transferred to Almaza Sanatorium as from 13/4/1950 and those of Sherbin In-patient Department to Damietta Chest Diseases Hospital as from 9/5/1951, owing to the demolished condition of the buildings.

The headquarters of the Mass Radiography Mobile Unit has been transferred from Khalifa to Muftadayan Chest Diseases Dispensary as from 28.9.1950.

The Alexandria Preventorium was closed down and resident children placed in the care of the Women's Society for Health Improvement under an agreement whereby an annual sum of L.E. 2,000 would be contributed to the Society for keeping such children as may be forwarded by the ministry who retains technical supervision.

The following are the occupations of tuberculous patients detected during the year 1950 :

699 Tradesmen consisting of :

164 foodstuff vendors,

53 poultry and cattle merchants,

134 grocers,

61 fruiterers and

287 other trades.

899 Employees including :

- 438 civil servants,
- 181 commercial employees,
- 43 teachers and
- 237 other employments.

3,124 Craftsmen consisting of :

118 cooks, 77 waiters, 193 barmen, 118 domestic servants, 80 servants (farrashes), 59 gate-keepers, 160 barbers, 96 laundrymen, 168 drivers, 183 tailors, 127 shoemakers, 150 carpenters, 114 painters, 134 building labourers, 121 employees in cigarette firms, etc. 398 weavers, 200 mechanics, 71 printers and 557 other occupations.

2,136 Farmers.

445 Pupils.

4,104 Unemployed including :

- 2,572 invalids
- 754 children
- 775 unemployed.

Of 188,020 new patients examined during the year, 11,404 were found positive for tuberculosis. Of these, 762 were children (less than 10 years old) and the remaining 10,642 were adults.

Of 7,288 contacts, (3,419 children and 3,869 adults) examined, 194 developed tuberculosis.

34,731 home visits were paid this year by health visitors and 8,663 by medical officers.

Appended to this report are detailed statistical data of the work carried out by the various dispensaries and other institutions.

RESUME OF ACTIVITIES IN MEDICAL AND SOCIAL SPHERES.

Medical, social and preventive activities proceeded according to plan.

During this year, the following measures were undertaken :—

I. In pursuance of the policy of developing the anti-tuberculosis service in Egypt, the Ministry has, with the aid of the inhabitants, completed the construction of several institutions for tuberculosis, namely :

(a) Mellawi Chest Diseases Unit - erected on a site of land three feddans in area. It consists of an out-patient dispensary, a 35-bed in-patient department, and a 60-bed preventorium. The total cost of the buildings amounted to L.E. 40,000 of which L.E. 10,000 were contributed by Abdel Meguid Seif El Nasr Pasha. The unit was opened for treatment on 15/10/1950.

(b) Damanhour Chest Diseases Unit - erected on a site of land about five and a half feddans in area. It consists of an out-patient dispensary and a 100-bed in-patient department and is capable of future expansion. The total cost of the buildings amounted to L.E. 70,000 of which L.E. 29,153 were contributed by the inhabitants of the Province. The equipment cost L.E. 10,000. The unit was opened for treatment on 16/12/1950.

(c) Zagazig Chest Diseases Hospital - erected on a site of land about two feddans and a quarter in area. It consists of an out-patient dispensary and a 50-bed in-patient department and is capable of future expansion. The total cost of the buildings amounted to L.E. 8,000. Equipment of the hospital cost L.E. 2,000. It was opened for treatment on 11.11.1950.

II.—B.C.G. Vaccination: According to an agreement between the Government of Egypt and the World Health Organization, a B.C.G. vaccination campaign was launched for one year, then sanction was obtained to prolong the period of stay of the international teams till 30.6.1951. Meanwhile, the Egyptian teams were increased to 16, besides 6 stationary centres in dispensaries. Test examination was undertaken throughout the Country. The Chest Diseases Section has undertaken the training of all its medical officers and nursing staff in the vaccination technique; and steps were also taken, jointly with the Child Welfare Section, and the School Hygiene to train their medical staff, so that they might co-operate with the Chest Diseases Dispensaries in this work. Arrangements have also been made for all the dispensaries in the Country to act as vaccination centres, besides the provision of some mobile teams for this purpose.

The total number of persons tested by tuberculin from the beginning of this Campaign on 1.12.1949 until the end of January 1951 amounted to 1,155,465. 336,483 of these have been vaccinated. They can be distributed according to the various Governorates and Provinces as follows:

TABLE NO. 88

| Locality | No. tested | No. vaccinated |
|--------------------------|------------------|----------------|
| Cairo Governorate | 67,820 | 27,834 |
| Canal „ | 1,390 | 122 |
| Suez „ | 31,351 | 11,431 |
| Damietta... .. | 52,707 | 17,869 |
| Gharbia Province | 332,200 | 84,073 |
| Fouadia „ | 3,023 | 607 |
| Menoufia „ | 284,936 | 78,002 |
| Dakahlia „ | 189,886 | 56,638 |
| Qaliubia „ | 2,901 | 373 |
| Fayoum „ | 11,116 | 3,411 |
| Assiut „ | 75,034 | 27,173 |
| Gerga „ | 42,264 | 9,439 |
| Qena „ | 6,663 | 501 |
| Aswan „ | 45,637 | 18,016 |
| Sinai Governorate | 8,537 | 994 |
| TOTAL | 1,155,465 | 336,483 |

The approval of the Ministry has been obtained for the erection of a laboratory for the preparation of B.C.G. vaccine within the present buildings of the Vaccine and Serum Institute, Agouza. The laboratory is in course of completion and will be opened during the year 1951. The necessary apparatus have been kindly presented by the World Health Organization. Concentrated tuberculin will be imported from Copenhagen quarterly, and will be diluted at the Vaccine and Serum Institute, Agouza and supplied to the various teams.

The institution of a Central Statistical Office has also been approved with a specialized Statistician from WHO for the inspection of vaccination cards. Egyptian staff will be trained in that office in future.

A Bacteriological Diagnostic Laboratory has been proposed within the Laboratories Department. It is hoped that WHO will provide the necessary equipment.

III. The Section takes special interest in Mass Radiography. Two stationary units for this purpose have been erected: one at Muftadayan Dispensary and another at Alexandria Dispensary, in addition to the Mobile Unit already in service.

The two apparatus are intended for the examination of attendances at the two Dispensaries, and other localities where this examination is deemed necessary.

The Mobile Unit has already visited various parts of the country. A total of 51,087 cases were examined during 1950, of which 132 cases were returned positive, 1,011 suspicious and 49,944 negative, distributed as follows:

TABLE NO. 89

| | No. examined | Positive | Suspected | Negative |
|---|---------------|------------|--------------|---------------|
| 1. Officers and men of the Police College and Auxiliary Police of Cairo and Provinces ... | 10,412 | 56 | 353 | 10,003 |
| 2. Cairo Water Co. ... | 953 | 2 | 15 | 936 |
| 3. Fertiliser Factory, Abu Zaabal ... | 251 | 1 | 11 | 239 |
| 4. Al Horrya Institute and Asylum, Mataria ... | 225 | — | 7 | 218 |
| 5. Mass Survey for inhabitants of Sindibis village | 2,879 | 12 | 113 | 2,754 |
| 6. Leprosy Colony, Abu Zaabal ... | 784 | 11 | 27 | 746 |
| 7. Suez Area: Shell Co. workmen, Petroleum, Police and Government Officials ... | 5,149 | 11 | 139 | 4,999 |
| 8. Mass Survey of inhabitants of El Serw area | 1,670 | 11 | 15 | 1,644 |
| 9. Mass Survey of Personnel and Pupils of Mansoura Control of Education ... | 6,283 | 21 | 162 | 6,100 |
| 10. Mass Survey of Personnel and Pupils of Damietta Control of Education ... | 22,481 | 7 | 169 | 22,305 |
| TOTAL ... | 51,087 | 132 | 1,011 | 49,944 |

Positive and suspected cases were summoned to examination centres, where large films were made for them, and sputum of several cases examined. Annexed is a statistical list of the Mass Radiography Survey carried out during 1949 and 1950.

IV.—Since the annual governmental subsidy of L.E.45,000 provided last year for the aid of poor tuberculosis patients proved insufficient owing to the ever increasing number of needy patients, occasioned by the prevailing bad living conditions, a credit of L.E. 60,000 has been granted this year.

Besides, credits to the value of L.E.3,500 have been contributed by the Municipalities, and a sum of L.E. 1,500 was granted by the Council of Ministers.

The total of L.E. 60,071 were distributed during the year among 3,255 families by the Chest Diseases Dispensaries.

V.—As in previous years, the Section has sent inmates of Helwan and Marg Preventoria to Alexandria during Summer. They were sent in three groups of 30 children each to spend three weeks in the summer resort, and for heliotherapy treatment. They were accommodated at the Maritime Sanatorium, San Stefano. The bus of Fouad Sanatorium was placed at their disposal for transport to and from the sea side. They were under the charge of a social worker.

The following are details of the different courses of treatment given at the units during the year :

TABLE NO. 90.—TREATMENTS FOLLOWED IN THE DISPENSARIES
AND RESULTS THEREOF, DURING 1950

| DOMICILIARY TREATMENT | | | | ARTIFICIAL PNEUMOTHORAX | | | | | |
|---------------------------------|-----------------------------|--------------------------|-------|-------------------------------|--------------------------------|----------------------------|------------------------|-------|-------|
| | | | | Number | | | | | |
| CONDITION ON 1ST EXAMINATION | Tuberculous patients | | | 11,754 | Patients treated with A.P. ... | | | 4,147 | |
| | Sputum | Positive | 7,858 | 1st Inductions | | | 835 | | |
| | | Negative | 3,896 | Refills | | | 41,452 | | |
| | Lesion | Unilateral | 4,787 | CONDITION BEFORE TREATMENT | Sputum | Positive... .. | 3,469 | | |
| | | Bilateral | 6,967 | | | Negative | 678 | | |
| | | Cavitary | 5,606 | | Lesion | Unilateral | 2,842 | | |
| | Last Sputum Examination | Positive... .. | 6,339 | | | Bilateral | 1,305 | | |
| | | Negative | 5,415 | | | Cavitary | 2,642 | | |
| | RESULT OF TREATMENT | Increase of weight... .. | | | 5,304 | STOPPED A.P. & CAUSE | Haemoptysis | | 436 |
| | | Decrease of weight... .. | | | 2,333 | | Unilateral A.P. | | 3,597 |
| Stationary... .. | | | 3,216 | Bilateral A.P. | | | 504 | | |
| Died | | | 901 | Extrapleural A.P. | | | 33 | | |
| Unable to work | | | 4,249 | Pneumo-Peritoneum (P.P.) ... | | | 13 | | |
| Walking | | | 3,418 | Continued refills | | | 2,763 | | |
| Light work | | | 2,587 | Adhesions | | | 252 | | |
| Full work... .. | | | 599 | Bilateralization | | | 354 | | |
| | | | | Effusion | | | 221 | | |
| | | | | Sputum still positive | | | 1,545 | | |
| RESULT OF TREATMENT | | | | | Sputum still negative | | 798 | | |
| | | | | | Sputum returned negative ... | | 1,606 | | |
| | | | | | Sputum returned positive... .. | | 198 | | |
| | | | | | Increase of weight | | 2,528 | | |
| | | | | | Decrease „ „ | | 747 | | |
| | | | | | Stationary | | 671 | | |
| | | | | | Died | | 201 | | |
| | | | | | Incapable of work | | 956 | | |
| | | | | | Walking | | 942 | | |
| | | | | | Light work | | 1,702 | | |
| | | | | Full work | | 346 | | | |

TABLE No. 91.—STATISTICS OF PATIENTS IN SANATORIA AND IN-SECTIONS OF DISPENSARIES :
 (DAMANHOUR, TANTA, MANSOURA, SHEBIN EL KOM, ZAGAZIG, DAMIETTA, SHERBIN, ZIFTA,
 FAYOUM, BENI SUEF, MINIA, MELLAWI, ASSIUT, SOUHAG, ASWAN) ; IN 1950—
 AND THE RESULTS OF THEIR TREATMENT.

| UNITS | | Sanatoria | | | | | | | In patient Sections in Dispensaries |
|------------------------|---------------------------------------|-----------|----------|-------|-----------------|------------------|------|--------------|---|
| | | Almaza | Abbassia | Giza | Alex- andria | Mehalla Kobra | Suez | Port Said | |
| BEFORE ADMISSION | No. of Inpatients discharged | 1,894 | 1,162 | 243 | 324 | 449 | 72 | 528 | 1,472 |
| | Sputum | | | | | | | | |
| | Positive | 1,369 | 790 | 123 | 270 | 349 | 54 | 341 | 767 |
| | Negative | 525 | 372 | 120 | 54 | 100 | 18 | 187 | 705 |
| | Lesion | | | | | | | | |
| | Unilateral | 1,097 | 491 | 116 | 164 | 289 | 56 | 412 | 1,068 |
| | Bilateral | 797 | 671 | 127 | 160 | 160 | 16 | 116 | 404 |
| | Cavitary | 666 | 635 | 120 | 176 | 138 | 12 | 180 | 675 |
| | Temperature | | | | | | | | |
| | Normal | 1,379 | 356 | 148 | 84 | 370 | 20 | 461 | 798 |
| TREATMENT GIVEN | Abnormal | 515 | 806 | 95 | 240 | 79 | 52 | 67 | 674 |
| | General treatment | 1,894 | 1,162 | 243 | 183 | 228 | 20 | 528 | 1,014 |
| | Exercise | 220 | 439 | 243 | 164 | 221 | 50 | 462 | 419 |
| | Gold therapy | | | | | | | | |
| | No. of patients | — | 2 | — | — | — | — | — | 4 |
| | No. of injections | — | 6 | — | — | — | — | — | 63 |
| | Streptomycin | | | | | | | | |
| | No. of patients | — | — | — | 35 | 33 | — | — | 254 |
| | No. of injections | 17,202 | 10,497 | — | 1,662 | 495 | — | — | 6,204 |
| | Inductions | 904 | 285 | 153 | 98 | 181 | 30 | 239 | 491 |
| CAUSES OF DISCHARGE | Refills | 11,919 | 6,532 | 2,844 | 1,486 | 2,622 | 485 | 1,964 | 12,201 |
| | A. P. | | | | | | | | |
| | Extra pleural A.P. | 3 | 1 | — | — | — | — | 132 | — |
| | Phrenic Crush | 401 | 245 | — | 6 | 30 | 10 | 9 | 82 |
| | Pleurotomy | 27 | 3 | — | — | — | — | — | — |
| | Aspiration | 472 | 253 | — | 24 | 15 | 5 | 81 | 254 |
| | Thoracoplasty | 101 | 15 | — | — | 5 | 2 | 1 | 1 |
| | Adhesiotomy | 5,359 | 249 | — | 21 | 63 | 15 | 36 | 31 |
| | Complications | 50 | 392 | — | 5 | — | — | — | 75 |
| | No. of other injections given | 9,455 | 15,018 | — | 3,211 | 1,025 | 242 | 4,240 | 3,836 |
| CONDITION ON DISCHARGE | Pat. went on leave and did not return | 323 | 13 | 18 | 10 | 24 | 2 | 20 | 41 |
| | At request | | | | | | | | |
| | Pts. refused treatment | 476 | 572 | 7 | — | — | 1 | — | 61 |
| | Pts. having special difficulties | 114 | 57 | 22 | 137 | 100 | 25 | 143 | 243 |
| | Agreement of Physician | 981 | 520 | 196 | 177 | 325 | 44 | 365 | 1,127 |
| | Weight | | | | | | | | |
| | Increase of weight | 1,227 | 683 | 182 | 201 | 302 | 52 | 316 | 921 |
| | Decrease of weight | 512 | 210 | 26 | 73 | 100 | 8 | 144 | 258 |
| | Stationary | 155 | 269 | 35 | 50 | 47 | 12 | 68 | 293 |
| | Temperature | | | | | | | | |
| CONDITION ON DISCHARGE | Normal | 1,318 | 815 | 192 | 173 | 403 | 58 | 472 | 1,179 |
| | Abnormal | 576 | 347 | 61 | 151 | 46 | 14 | 56 | 293 |
| | Sputum | | | | | | | | |
| | Still positive | 814 | 542 | 102 | 196 | 178 | — | 111 | 434 |
| | Still negative | 336 | 115 | 12 | 49 | 134 | — | 187 | 512 |
| | Became negative | 534 | 355 | 108 | 74 | 113 | 47 | 131 | 347 |
| | Became positive | 210 | 150 | 21 | 5 | 24 | 25 | 99 | 179 |
| | Successful A.P. continued | — | 386 | — | — | — | 45 | 239 | 329 |
| | A.P. failed | — | 135 | — | — | — | 7 | 23 | 205 |
| | Condition improved | 1,253 | 702 | 103 | 127 | 313 | 51 | 379 | 937 |
| CONDITION ON DISCHARGE | Condition worse | 100 | 69 | 29 | 93 | 62 | 6 | 13 | 162 |
| | Condition stationary | 377 | 287 | 80 | 82 | 60 | 8 | 92 | 324 |
| | Died | 164 | 104 | 31 | 24 | 14 | 7 | 44 | 49 |
| | Ability to Work | | | | | | | | |
| | Full work | — | 38 | — | 2 | 17 | 19 | — | 57 |
| | Partial work | 1,251 | 419 | 105 | 124 | 206 | 33 | 386 | 855 |
| | Incapable | 479 | 601 | 107 | 174 | 212 | 13 | 98 | 511 |
| | Average duration of stay in days | 136 | 173 | 167 | 131 | 130 | 210 | 99 | 88 |
| | Patients stayed 6 months or more | 635 | 233 | 175 | 113 | 101 | 52 | 51 | 446 |
| | Patients stayed less than 6 months | 1,259 | 929 | 68 | 211 | 348 | 20 | 477 | 1,026 |

TABLE No. 92 — NUMBER OF T.B. POSITIVE CASES NOTIFIED BY THE CHEST DISEASES DISPENSARIES ACCORDING TO RESIDENCE, DURING 1950.

| Dispensaries | Cairo | Alexandria | Damietta | Port-Said | Canal, Suez and Ismailia | Behera | Gharbia | Rouadia | Menoufia | Dakahlia | Sharkia | Qalubia | Giza | Beni-Suef | Fayoum | Minia | Assiut | Gerga | Qena | Aswan | Oases | TOTAL |
|----------------------|-------|------------|----------|-----------|-----------------------------|--------|---------|---------|----------|----------|---------|---------|------|-----------|--------|-------|--------|-------|------|-------|-------|--------|
| Boulaq ... | 1,392 | 6 | 3 | — | 2 | — | 5 | — | — | 2 | — | 110 | 33 | 4 | — | — | — | — | 3 | — | — | 1,560 |
| Mubtadayan ... | 844 | 8 | — | — | 7 | 4 | 33 | 3 | 12 | 30 | 19 | 109 | 545 | 6 | — | — | 4 | 3 | 4 | 3 | — | 1,639 |
| Khalifa ... | 1,040 | 5 | — | 2 | 9 | — | 11 | — | — | — | 3 | 68 | 36 | 14 | 1 | — | 2 | — | — | — | — | 1,152 |
| Damanhour ... | — | — | — | — | — | 220 | — | 48 | — | — | — | — | — | — | — | — | — | — | — | — | — | 268 |
| Alexandria ... | — | 689 | — | — | — | 45 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 734 |
| Bacous ... | — | 210 | — | — | 1 | 22 | 8 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 241 |
| Tanta ... | — | — | — | — | — | 14 | 270 | 13 | 32 | — | — | — | — | — | — | — | — | — | — | — | — | 323 |
| Mansoura ... | 1 | — | — | — | — | — | 83 | — | — | 280 | 5 | — | — | — | — | — | — | — | — | — | — | 369 |
| Shebin el Kom ... | — | — | — | — | — | — | — | — | 250 | 1 | 1 | 37 | — | — | — | — | — | — | — | — | — | 289 |
| Mehalla el Kobra ... | — | — | — | — | — | — | 415 | 68 | 4 | 41 | 2 | — | — | — | — | — | — | — | — | — | — | 530 |
| Zagazig ... | 1 | — | — | 1 | 8 | — | 1 | — | 1 | 39 | 343 | 15 | — | — | 1 | — | — | — | — | — | — | 410 |
| Damietta ... | 1 | — | 177 | — | 2 | — | 119 | — | — | 345 | — | — | — | — | — | — | — | — | — | — | — | 644 |
| Port Said ... | 1 | — | 1 | 394 | 123 | — | — | — | — | 22 | 3 | — | — | — | — | — | — | — | — | — | — | 544 |
| Sherbin ... | — | — | — | — | — | — | 159 | 7 | 1 | 180 | 2 | — | — | — | — | — | — | — | — | — | — | 349 |
| Zifta ... | — | — | — | — | — | — | 154 | 3 | 1 | 134 | 1 | — | — | — | — | — | — | — | — | — | — | 213 |
| Suez ... | — | — | — | — | 225 | — | — | — | — | — | 1 | — | — | 46 | — | — | — | — | — | — | — | 226 |
| Fayoum ... | — | — | — | — | — | — | — | — | — | — | — | — | — | 129 | 257 | — | — | — | — | — | — | 303 |
| Beni Suef ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 4 | 44 | — | — | — | — | 133 |
| Minia ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 253 | 145 | — | — | — | — | 218 |
| Mellawi ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 334 | 19 | 5 | — | — | 146 |
| Assiut ... | 4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 173 | — | 3 | — | — | 353 |
| Souhag ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 176 |
| Qena ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 178 | 16 | — | 194 |
| Aswan ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 11 | 163 | — | 174 |
| TOTAL ... | 3,284 | 918 | 181 | 397 | 377 | 305 | 1,258 | 142 | 301 | 1,074 | 380 | 339 | 614 | 199 | 260 | 265 | 529 | 195 | 204 | 182 | — | 11,404 |

TABLE NO. 93.— CASES REPORTED DEAD TO DISPENSARIES
DURING THE YEAR 1950, ACCORDING TO AGES.

| Dispensaries | 1-5 Years | 5-15 Years | 15-25 Years | 25-35 Years | 35-45 Years | Above 45 Years | TOTAL |
|-------------------------|--------------|---------------|----------------|----------------|----------------|----------------------|--------------|
| Boulaq | 29 | 34 | 78 | 90 | 40 | 23 | 294 |
| Mubtadayan | 4 | 15 | 72 | 56 | 16 | 10 | 173 |
| Khalifa | 6 | 29 | 49 | 35 | 25 | 6 | 150 |
| Damanhour | — | 2 | 16 | 16 | 17 | 10 | 61 |
| Alexandria | 15 | 10 | 16 | 18 | 6 | 9 | 74 |
| Baccus | 1 | — | 5 | 3 | 1 | — | 10 |
| Tanta | 3 | 4 | 11 | 9 | 9 | 11 | 47 |
| Mansoura... .. | — | 5 | 18 | 17 | 7 | 8 | 55 |
| Shebin el Kom | — | 1 | 14 | 25 | 8 | 1 | 49 |
| Mehalla el Kobra | — | 2 | 19 | 27 | 23 | 5 | 76 |
| Zagazig | — | 1 | 7 | 6 | 6 | 3 | 23 |
| Damietta... .. | 2 | 5 | 15 | 20 | 2 | 3 | 47 |
| Port-Said... .. | — | 7 | 28 | 21 | 12 | 12 | 80 |
| Sherbin | 4 | 11 | 23 | 14 | 11 | 3 | 66 |
| Zifta... .. | 5 | 4 | 10 | 13 | 8 | 5 | 45 |
| Suez | — | — | 5 | 13 | 9 | 2 | 29 |
| Fayoum | — | 4 | 23 | 35 | 17 | 3 | 82 |
| Beni Suef | 1 | 3 | 11 | 12 | 1 | 5 | 33 |
| Minia | — | 4 | 16 | 15 | 11 | 4 | 50 |
| Mellawi | — | 1 | — | — | — | — | 1 |
| Assiut | 1 | 7 | 19 | 8 | 8 | 6 | 49 |
| Souhag | 4 | 7 | 7 | 6 | 4 | 4 | 32 |
| Qena | 2 | 3 | 8 | 11 | 6 | 10 | 40 |
| Aswan | 1 | 2 | 5 | 6 | 3 | 5 | 22 |
| TOTAL | 78 | 161 | 475 | 476 | 250 | 148 | 1,588 |

TABLE NO. 94.—NUMBER OF VARIOUS UNITS ATTACHED TO THE SECTION
AND ITS PROGRESS YEAR AFTER YEAR FROM 1929 TO 1950.

| Year | Chest Diseases Dispensaries | | | Chest Sanatoria | T.B. Bone Sanatoria | Preventoria | T.B. Convalescent Colonies. |
|-------------|-----------------------------|----------|---------------------|-----------------|---------------------|-------------|-----------------------------|
| | Dispensaries | Branches | In-Patient Sections | | | | |
| 1929 | 2 | — | — | — | — | — | — |
| 1930 | 3 | — | — | — | — | — | — |
| 1931 | 3 | — | — | — | — | — | — |
| 1932 | 3 | — | — | — | — | — | — |
| 1933 | 4 | — | — | — | — | — | — |
| 1934 | 4 | — | — | 1 | — | — | — |
| 1935 | 5 | — | — | 1 | — | — | — |
| 1936 | 6 | — | — | 1 | 1 | — | — |
| 1937 | 8 | — | — | 1 | 1 | — | — |
| 1938 | 12 | — | 2 | 2 | 1 | 1 | — |
| 1939 | 13 | — | 2 | 2 | 1 | 1 | — |
| 1940 | 14 | — | 4 | 2 | 1 | 4 | — |
| 1941 | 14 | 1 | 4 | 2 | 1 | 4 | — |
| 1942 | 15 | 3 | 6 | 2 | 2 | 4 | — |
| 1943 | 15 | 3 | 6 | 2 | 2 | 4 | 1 |
| 1944 | 16 | 4 | 8 | 3 | 2 | 4 | 1 |
| 1945 | 17 | 4 | 10 | 3 | 2 | 4 | 1 |
| 1946 | 19 | 12 | 12 | 4 | 2 | 4 | 1 |
| 1947 | 19 | 14 | 12 | 5 | 2 | 4 | 1 |
| 1948 | 21 | 15 | 13 | 5 | 3 | 4 | 1 |
| 1949 | 24 | 17 | 15 | 5 | 3 | 4 | 1 |
| 1950 | 25* | 17 | 17 | 5 | 3 | 4 | 1 |

* Including one mobile Dispensary.

TABLE No. 95.—ANNUAL RETURN OF BEDS AVAILABLE IN THE IN-PATIENT UNITS
AT THE END OF THE YEAR 1950

| UNIT | 1st. Class | | 2nd. Class | | 3rd. Class Paying | | 3rd. Class Gratis | | | Beds for Surgery | TOTAL |
|--|------------|----|------------|----|-------------------|-----|-------------------|-------|----------|------------------|-------|
| | F. | M. | F. | M. | F. | M. | F. | M. | Children | | |
| Almaza Sanatorium | — | 10 | — | 72 | — | 132 | — | 520 | — | 128 | 862 |
| Abbassia C. D. Hospital... | — | — | 28 | — | 52 | — | 328 | — | 80 | 30 | 518 |
| Giza Village Sanatorium... | — | — | — | — | — | — | — | 155 | — | — | 155 |
| Alexandria Sanatorium ... | — | — | — | — | — | 7 | 30 | 79 | 10 | — | 126 |
| Mahalla El-Kobra Sana- torium | — | — | 2 | 6 | 3 | 6 | 52 | 88 | 4 | — | 161 |
| Suez Ch. D. Hospital ... | — | — | 1 | 1 | 2 | 2 | 22 | 22 | — | — | 50 |
| Damanhour Dispensary ... | — | — | — | — | 6 | 6 | 20 | 72 | — | — | 104 |
| Tanta „ ... | — | — | — | — | — | — | — | 20 | — | — | 20 |
| Mansoura „ ... | — | — | — | — | — | — | 10 | 15 | — | — | 25 |
| Shebin El-Kom „ ... | — | — | — | — | — | — | 9 | 11 | — | — | 20 |
| Zagazig „ ... | — | — | — | — | — | — | 30 | 35 | — | — | 65 |
| Damietta „ ... | — | — | 2 | 2 | 4 | 4 | 69 | 69 | — | — | 150 |
| Sherbin „ ... | — | — | — | — | — | — | — | 30 | — | — | 30 |
| Zifta „ ... | — | — | — | — | — | — | — | 26 | — | — | 26 |
| Fayoum „ ... | — | — | — | — | — | — | — | 30 | — | — | 30 |
| Beni Suef „ ... | — | — | — | — | — | — | 10 | 15 | — | — | 25 |
| Minia „ ... | — | — | — | — | — | — | 6 | 14 | — | — | 20 |
| Mellawi „ ... | — | — | — | — | — | — | 17 | 18 | — | — | 35 |
| Assiut „ ... | — | — | — | — | — | — | 25 | 50 | — | — | 75 |
| Souhag „ ... | — | — | — | — | — | — | 4 | 20 | — | — | 24 |
| Aswan „ ... | — | — | — | — | — | — | 7 | 15 | — | — | 22 |
| Maritime San. (Pulmonary | — | — | — | 2 | 8 | 11 | 31 | 89 | 12 | — | 153 |
| Port-Said { T.B. Bones | — | — | — | — | — | — | — | 7 | — | — | 7 |
| Maritime San. Alexandria | — | — | — | — | — | — | 24 | 25 | 51 | — | 100 |
| Bones Hosp. Helwan ... | — | — | 1 | 3 | 4 | 12 | 60 | 65 | 55 | — | 200 |
| Helwan Preventorium ... | — | — | — | — | — | — | — | — | 90 | — | 90 |
| Marg „ ... | — | — | — | — | — | — | — | — | 50 | — | 50 |
| Mellawi „ ... | — | — | — | — | — | — | — | — | 55 | — | 55 |
| Assiut „ ... | — | — | — | — | — | — | — | — | 50 | — | 50 |
| Convalescents Settlement, Marg | — | — | — | — | — | — | — | 82 | — | — | 82 |
| | | | | | | | Families | | | Families | |
| TOTAL | — | 10 | 34 | 86 | 79 | 180 | 754 | 1,572 | 457 | 158 | 3,330 |

TABLE NO. 96.—ACCOUNT OF EXPENDITURES OF THE CHEST
DISEASES UNITS—DURING THE YEAR 1950

| Unit | Salaries | Equipment Instruments & Drugs | Diets | Rent, Water, Light and Sewage | Transport | Expenses Miscellaneous | TOTAL | Grants | | |
|------------------------|----------------|-------------------------------------|----------------|-------------------------------------|--------------|---------------------------|----------------|---------------|------------|--------------------|
| | | | | | | | | Sums paid | | No. of Families |
| | L.E. | L.E. | L.E. | L.E. | L.E. | L.E. | L.E. | L.E. | M. | |
| Boulaq Disp. ... | 2,832 | 329 | — | — | 930 | 13 | 4,104 | 11,480 | 426 | 410 |
| Mubtadayan " ... | 3,162 | 276 | — | 257 | 666 | 17 | 4,378 | 5,937 | 693 | 404 |
| Khalifa " ... | 2,880 | 1,501 | — | 251 | 101 | 199 | 4,932 | 12,978 | 297 | 460 |
| Damanhour " ... | 1,580 | 5,688 | 173 | 141 | 159 | 5 | 7,746 | 1,625 | 698 | 153 |
| Alexandria " ... | 1,618 | 140 | — | 214 | 382 | 29 | 2,383 | 5,411 | 337 | 220 |
| Tanta " ... | 1,854 | 508 | 1,036 | 129 | 48 | 20 | 3,595 | 1,040 | 163 | 67 |
| Mansoura " ... | 1,982 | 56 | 1,117 | 70 | 45 | 40 | 3,310 | 1,116 | 400 | 193 |
| Shebin El-Kom " ... | 1,504 | 456 | 80 | 339 | 2 | 70 | 2,451 | 1,508 | 915 | 76 |
| Mehalla El-Kobra " ... | 1,168 | 424 | 6 | 141 | 127 | 19 | 1,885 | 1,583 | 125 | 123 |
| Zagazig " ... | 3,301 | 1 | 1,308 | 257 | 3 | 151 | 5,021 | 1,709 | 624 | 145 |
| Damietta " ... | 4,544 | 431 | 6,326 | 204 | 279 | 158 | 11,912 | 2,467 | 260 | 263 |
| Port Said " ... | 5,527 | 2,749 | 7,615 | 462 | 22 | 57 | 16,432 | 1,851 | 770 | 92 |
| Sherbin " ... | 1,533 | 212 | 467 | 97 | 137 | 16 | 2,462 | 1,662 | 566 | 87 |
| Zifta " ... | 3,527 | 5 | 911 | 264 | 14 | 26 | 2,747 | 711 | 414 | 36 |
| Suez " ... | 2,156 | 13 | 3,044 | 20 | 67 | 38 | 5,338 | 1,032 | 176 | 63 |
| Fayoum " ... | 1,997 | 492 | 1,685 | 169 | 226 | 50 | 4,619 | 1,313 | 080 | 115 |
| Beni Suef " ... | 1,757 | — | 995 | 197 | 1 | 32 | 2,982 | 652 | 533 | 38 |
| Minia " ... | 1,842 | 222 | 1,025 | 229 | 60 | 32 | 3,410 | 878 | 954 | 57 |
| Mellawi " ... | 596 | — | 224 | — | 15 | 4 | 839 | — | — | — |
| Assiut " ... | 2,452 | 2,293 | 2,800 | 262 | 222 | 143 | 8,172 | 2,030 | 398 | 92 |
| Souhag " ... | 1,246 | 600 | 1,294 | 300 | 2 | 118 | 3,560 | 1,200 | 455 | 82 |
| Qena " ... | 1,141 | — | — | 99 | 36 | 317 | 1,593 | 419 | 708 | 20 |
| Aswan " ... | 1,502 | 337 | 1,337 | 334 | 30 | 42 | 3,582 | 1,459 | 343 | 49 |
| Almaza Sanat ... | 32,155 | 1,240 | 49,136 | 12,593 | 381 | 10,910 | 106,415 | — | — | — |
| Abbassia Hospital ... | 19,771 | 13,452 | 25,019 | 1,794 | 428 | 1,973 | 62,431 | — | — | — |
| Giza San.... | 7,309 | 1,150 | 14,103 | 25 | 222 | 506 | 23,315 | — | — | — |
| Alexandria " ... | 4,961 | 2,239 | 6,558 | 283 | 4 | 121 | 14,166 | — | — | — |
| Mehalla El-Kobra " ... | 6,282 | 3,650 | 9,597 | 2,420 | 219 | 59 | 22,227 | — | — | — |
| Alexandria M. " ... | 2,609 | 263 | 4,970 | 137 | 6 | 317 | 8,302 | — | — | — |
| Helwan Disp. ... | 7,287 | 2,343 | 9,046 | 289 | 78 | 27 | 19,070 | — | — | — |
| Marg Colony ... | 9,742 | 59 | 902 | 51 | 93 | 148 | 10,995 | — | — | — |
| Helwan Prev. ... | 2,742 | 143 | 1,571 | 11 | 33 | 90 | 4,590 | — | — | — |
| Marg " ... | 420 | — | 284 | — | — | — | 704 | — | — | — |
| Assiut " ... | 840 | 267 | 693 | 123 | 11 | 139 | 2,073 | — | — | — |
| B.C.G. Mission ... | 6,267 | 153 | — | 1,500 | — | 2,710 | 10,630 | — | — | — |
| TOTAL ... | 150,086 | 41,692 | 153,322 | 23,662 | 5,049 | 18,596 | 392,407 | 60,071 | 335 | 3,255 |

TABLE NO. 97.—ANNUAL DETAILED STATEMENT OF RECEIPTS OF THE UNITS DURING YEAR 1950.

| Unit | Treatment Fees | | Deposits from Patients | | Fees of Official Documents | | Deposits from Contractors | | Articles sold by Public Auction | | Miscellaneous Receipts | | TOTAL | | GRAND TOTAL | |
|------------------------------|----------------|------------|------------------------|------------|----------------------------|------------|---------------------------|------------|---------------------------------|----------|------------------------|--------------|---------------|------------|---------------|------------|
| | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. |
| Almaza Sanatorium | 9,420 | 200 | 2,022 | 000 | 15 | 290 | — | — | — | — | 2,058 | 706 | 13,516 | 196 | — | — |
| Abbassia Hospital... .. | 5,627 | 800 | 708 | 000 | 1 | 290 | 4 | — | — | — | 92 | 192 | 6,433 | 282 | — | — |
| Giza Sanatorium | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mehalla el Kobra " | 1,174 | 700 | 240 | 000 | — | — | — | — | — | — | 15 | 687 | 1,430 | 387 | — | — |
| Alexandria " | 323 | 300 | 27 | 000 | — | — | 2 | 600 | — | — | 25 | 739 | 378 | 639 | — | — |
| Suez Hospital | 418 | 675 | 84 | 000 | 0 | 860 | 4 | 545 | — | — | 52 | 974 | 561 | 654 | — | — |
| Damanhour " | — | — | — | — | 0 | 860 | 0 | 400 | — | — | — | — | 1 | 269 | — | — |
| Damietta " | 365 | 000 | 39 | 000 | 0 | 920 | 11 | 005 | — | — | 70 | 886 | 486 | 811 | — | — |
| Port-Said Sanatorium | 831 | 600 | 174 | 000 | — | — | — | — | — | — | 42 | 179 | 1,047 | 779 | — | — |
| Helwan Bones Hospital | 322 | 400 | 225 | 000 | 0 | 860 | — | — | — | — | 39 | 646 | 587 | 906 | — | — |
| TOTAL | 18,483 | 675 | 3,519 | 000 | 20 | 080 | 22 | 550 | — | — | 2,398 | 5,009 | 24,443 | 3 4 | 24,443 | 314 |

RECEIPTS OF THE VARIOUS WORKSHOPS AT THE T.B. CONVALESCENT SETTLEMENT AT MARG

| Unit | Carpenters Workshop | | Tailors Workshop | | Shoemakers Workshop | | Tinsmiths Workshop | | Brooms Workshop | | Miscellaneous Receipts | | TOTAL | | GRAND TOTAL | |
|---------------------------|---------------------|-----|------------------|-----|---------------------|-----|--------------------|-----|-----------------|-----|------------------------|----|-------|-----|-------------|-----|
| | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. | L.E. | M. |
| Marg Convalescents | 205 | 143 | 976 | 670 | 940 | 600 | 310 | 689 | 8 | 723 | — | — | 2,441 | 825 | 2,441 | 825 |

TABLE No. 98.—ANNUAL RETURN OF CASES ADMITTED TO MARG T.B. CONVALESCENTS COLONY DURING THE YEAR 1950.

| Month | No. of new Convalescents | Ages of Convalescents | | | | | Occupations of Convalescents | | | | | Convalescents still under treatment | Relationship to Contacts | | | | | | | Occasional Diseases | | Discharged | | Referred to Sanatorium | | REMARKS |
|------------------|--------------------------|-----------------------|-------------|-------------|-------------|----------------|------------------------------|--------|----------|------------|---------|-------------------------------------|--------------------------|--------|------|------|----------|---------|-----------------|---------------------|------|------------|----------|------------------------|----------|---------|
| | | Below 20 Years | 20-29 Years | 30-39 Years | 40-49 Years | Above 50 Years | Carpenter | Tailor | Tinsmith | Shoe-Maker | Peasant | Other Industries | Father | Mother | Wife | Sons | Brothers | Sisters | Other Relatives | Clinic | A.P. | Convales. | Contacts | Convales. | Contacts | |
| January | 2 | — | 1 | 1 | — | — | — | 1 | — | 1 | — | — | — | — | 1 | 4 | — | — | — | 175 | 22 | — | — | — | — | |
| February | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 170 | 22 | 1 | — | 1 | — | |
| March | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 189 | 11 | 1 | 3 | 1 | — | |
| April | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 225 | 3 | — | — | — | — | |
| May | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 281 | 2 | — | — | 1 | — | |
| June | 2 | — | 1 | — | 1 | — | — | — | — | 1 | — | 1 | 1 | — | — | — | 2 | — | 1 | 285 | — | — | — | — | — | |
| July | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 264 | — | — | — | — | — | |
| August | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 188 | 5 | — | — | — | — | |
| September | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 131 | 4 | 1 | 3 | — | — | |
| October | 2 | — | — | 1 | 1 | — | — | — | 2 | — | — | — | — | — | 2 | 3 | — | — | — | 231 | 2 | — | — | 1 | — | |
| November | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 169 | 12 | — | — | 3 | — | |
| December | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 173 | 9 | — | — | — | — | |
| TOTAL | 6 | — | 2 | 2 | 2 | — | — | 1 | 2 | 2 | — | 1 | — | 1 | 4 | 7 | 2 | 1 | — | 2481 | 92 | 3 | 6 | 7 | — | |

No. of Convales. on 1st. Jan. 1950 79
 " " admitted during the year 6
 " " " " on 31st December, 1950 82
 No. of Convales. discharged during the year 3

TABLE NO. 99.— ANNUAL RETURN OF THE WORK OF

| | | NEW CHILDREN | | | | | | | | | | | | | | | | | | |
|----------------|--|---------------------|------------------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|
| | | No. of new children | AGES | | | | | | | | | | | | | | | | | |
| | | | less than 1 year | | 1-2 years | | 2-3 years | | 3-4 years | | 4-5 years | | 5-6 years | | 6-7 years | | 7-8 years | | 8-9 years | |
| | | | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| Preventoria | | | | | | | | | | | | | | | | | | | | |
| Helwan | | 86 | 14 | 11 | 5 | 6 | — | 1 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 4 | 4 | 5 | 3 | |
| Marg | | 32 | — | — | — | — | — | — | — | — | — | — | 11 | 5 | 7 | — | 1 | — | 1 | |
| Assiut | | 34 | 5 | 2 | 1 | — | 2 | — | 1 | 2 | 2 | — | — | 2 | 3 | 2 | 2 | — | 1 | |
| Mellawi | | 8 | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | |
| TOTAL | | 160 | 19 | 13 | 6 | 6 | 2 | 1 | 4 | 4 | 5 | 4 | 13 | 9 | 12 | 6 | 7 | 5 | 5 | |

REMARKS: (1) Alexandria Preventorium was joined to Women Society on 1.1.50.

(2) Mellawi " was opened within Mellawi chest diseases unit and commenced in November 1950.

| | Helwan | Marg | Assiut | Mellawi |
|--|--------|------|--------|---------|
| Number of Children on 1st. January 1950 | 74 | 28 | 31 | — |
| " " admitted during the year | 86 | 32 | 34 | 8 |
| " " discharged " " | 117 | 16 | 31 | 2 |
| " " on December 31, 1950... .. | 43 | 44 | 34 | 6 |

TABLE NO. 100.— ANNUAL RETURN OF BONE SURGERY UNITS—DURING 1950.

| Units | OUT-PATIENT SECTION | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------------------|---------------|----|------------|----|----------------|-----|---------|------------|-----------------------|----------------|---------------------|---------|------------|-----------------------|----------------|----------------|-----------------|------------------|-------|
| | New Patients | | | | | | | | | | Old Patients | | | | | | | | | |
| | No. of new patients | Ages | | | | | | Cases | | | | No. of old patients | Cases | | | | Treatment | | Minor Operations | X-Ray |
| | | Under 5 years | | 5-10 years | | Above 10 years | | Rickets | T.B. Spine | T. B. Bones of Joints | Other diseases | | Rickets | T.B. Spine | T. B. Bones of joints | Other diseases | By Electricity | By Ultra violet | | |
| | | M. | F. | M. | F. | M. | F. | | | | | | | | | | | | | |
| Alexandria Marit. Sanat. | 305 | 41 | 30 | 45 | 25 | 92 | 72 | 3 | 65 | 94 | 143 | 321 | 2 | 40 | 89 | 190 | — | 49 | 10 | 93 |
| Port-Said Marit. Sanat. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Helwan Bone Hospital | 953 | 86 | 43 | 106 | 71 | 345 | 302 | 2 | 258 | 274 | 419 | 1043 | 2 | 312 | 428 | 301 | — | — | — | — |
| TOTAL ... | 1258 | 127 | 73 | 151 | 96 | 437 | 374 | 5 | 323 | 368 | 562 | 1364 | 4 | 352 | 517 | 491 | — | 49 | 10 | 93 |

| | Alexandria M.S. | Port-Said M.S. | Helwan B.H. |
|---|-----------------|----------------|-------------|
| Number of patients on 1st January 1950 | 94 | — | 176 |
| " " " admitted during the year | 117 | 11 | 488 |
| " " " discharged " " " " | 115 | 7 | 418 |
| " " " on December 31, 1950 | 96 | 4 | 210 |

Began work in June 1950.

PREVENTORIA DURING THE YEAR 1950.

| MITTED | | | | | | | | | | | | | | Diseases attacked children during their residence. | | | | | | Children Discharged | | Remarks | |
|---------|----|--------------------|---|-----------------------------|--------|---------|--------|--------|------------|-----------------------|-------------|------------|----------|--|----------|------|---------|---------|------------|---------------------|----------------|---------|------------|
| | | | | Details regarding relations | | | | | | Mantoux Test in Child | | | | | | | | | | | | | |
| 0 years | | more than 10 Years | | Relations. | | | | | Condition. | | | | | | | | | | | | | | |
| F. | M. | F. | | Father | Mother | Brother | Sister | Others | Died | Alive | Sputum Neg. | X-Ray pos. | Positive | Negative | Not Done | Skin | Stomach | Enteric | Ophthalmic | Chest | Other diseases | | Discharged |
| 1 | 2 | 4 | 4 | 46 | 33 | 4 | 2 | 1 | — | 86 | 5 | 81 | 5 | 9 | 72 | 8 | 2 | 44 | 20 | 14 | 71 | 102 | 15 |
| 2 | — | 3 | 1 | 22 | 5 | 2 | 2 | 1 | — | 32 | — | 32 | — | 6 | 26 | — | — | — | — | — | 14 | 16 | — |
| 2 | 1 | 2 | 3 | 15 | 18 | — | — | 1 | 1 | 33 | 34 | — | — | — | 34 | 18 | — | — | 42 | 2 | 34 | 30 | 1 |
| 1 | — | 5 | 1 | 2 | 1 | — | — | 5 | — | 8 | 3 | 5 | 8 | — | — | — | — | — | 3 | — | — | 1 | 1 |
| 6 | 3 | 14 | 9 | 85 | 57 | 6 | 4 | 8 | 1 | 159 | 42 | 118 | 13 | 15 | 132 | 26 | 2 | 44 | 65 | 16 | 119 | 149 | 17 |

IN-PATIENT SECTION

| No. of new patients Admitted | New Patients | | | | | | | | | | | Discharged | | | | | | | | | | | Major Operations | Minor Operations | Plaster | X-Ray | Streptomycin Inj. |
|---------------------------------|---------------|----|------------|----|----------------|-----|------------|-----------|-----------|-------------------|----------------|------------------------|--------|-------|------------|----------|-----------------------|----------------|-----------------|----|---|-----|------------------|------------------|---------|-------|-------------------|
| | Ages | | | | | | T.B. Spine | T.B. Knee | T.B. Hip. | T.B. bones joints | Other diseases | No. of pat. Discharged | Result | | | | | Treatment | | | | | | | | | |
| | Under 5 years | | 5-10 years | | Obove 10 years | | | | | | | | Died | Cured | Stationary | Improved | Discharged in plaster | By Electricity | By Ultra-Violet | | | | | | | | |
| | M. | F. | M. | F. | M. | F. | | | | | | | | | | | | | | | | | | | | | |
| 117 | 20 | 14 | 15 | 11 | 33 | 24 | 50 | 15 | 21 | 25 | 6 | 115 | 3 | 19 | 18 | 39 | 36 | — | 66 | 4 | — | 226 | 212 | 720 | | | |
| 11 | 1 | 1 | — | 3 | 2 | 4 | 1 | — | 2 | 8 | — | 7 | — | — | 4 | 1 | 2 | 1 | — | — | — | — | — | 314 | | | |
| 452 | 16 | 3 | 56 | 38 | 195 | 144 | 127 | 129 | 29 | 86 | 181 | 418 | 9 | 254 | 57 | 77 | 21 | — | 232 | 25 | 5 | 277 | 943 | 7647 | | | |
| 380 | 37 | 18 | 71 | 52 | 230 | 172 | 178 | 44 | 52 | 119 | 187 | 540 | 12 | 273 | 79 | 117 | 59 | 1 | 298 | 29 | 5 | 503 | 1155 | 8681 | | | |

TABLE No. 105.—ANNUAL MORTALITY OF CHERRY DISEASES DISPENSARIES DURING THE YEAR 1906

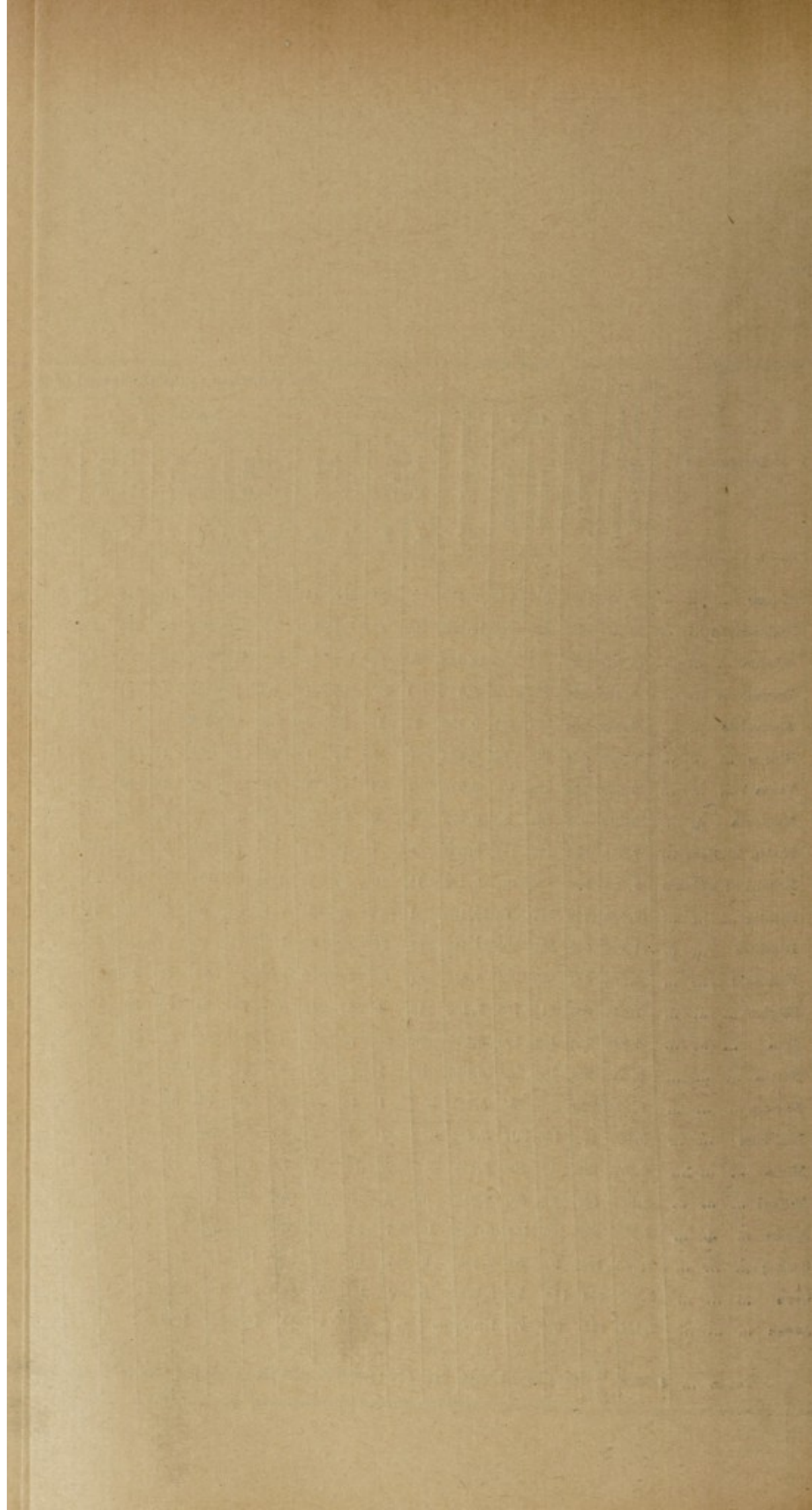


TABLE No. 101.—ANNUAL RETURN OF SARDINIA, CORSE, DOMAGNA, DIPIEDRIGHE, AND DIANZANO DURING THE YEAR 1900

| Description | By Month Balance to Disposition | | | | | | | | | | | | | | | |
|--|---------------------------------|-------------------|------------|----------------------|-------------------|-----------|-------|----------|-------------------|---------|-----------|-----------|---------|-------|-------|---------|
| | General Fund | Education Fund | Grav. Fund | Amortization Fund | Refunding Fund | Donations | Taxes | Reserves | Revolving Fund | Deprecy | Donations | Purchased | Rebates | Gifts | Grant | Payroll |
| | | | | | | | | | | | | | | | | |
| Exp. of Pub. on Jan. 1900 | 512 | 459 | 109 | 511 | 148 | — | 16 | 51 | — | 51 | 111 | 107 | 27 | 104 | 26 | 31 |
| Exp. of Pub. disbursed during the year | 2003 | 1116 | 110 | 110 | 478 | 40 | 40 | 10 | 10 | 603 | 112 | 20 | 40 | 72 | 40 | 72 |
| Exp. of Pub. disbursed during the year | 1904 | 1010 | 245 | 374 | 400 | 1 | 86 | 80 | 0 | 604 | 1000 | 80 | 76 | 72 | 40 | 67 |
| Exp. of patients on December 31, 1900 | 754 | 405 | 136 | 166 | 167 | 40 | 10 | 24 | 52 | 51 | 143 | 100 | 7 | 123 | 40 | 36 |
| Average balance of exp. in files | 100 | 475 | 107 | 110 | 120 | 5 | 60 | 200 | 50 | 50 | 200 | 80 | 200 | 100 | 10 | 120 |

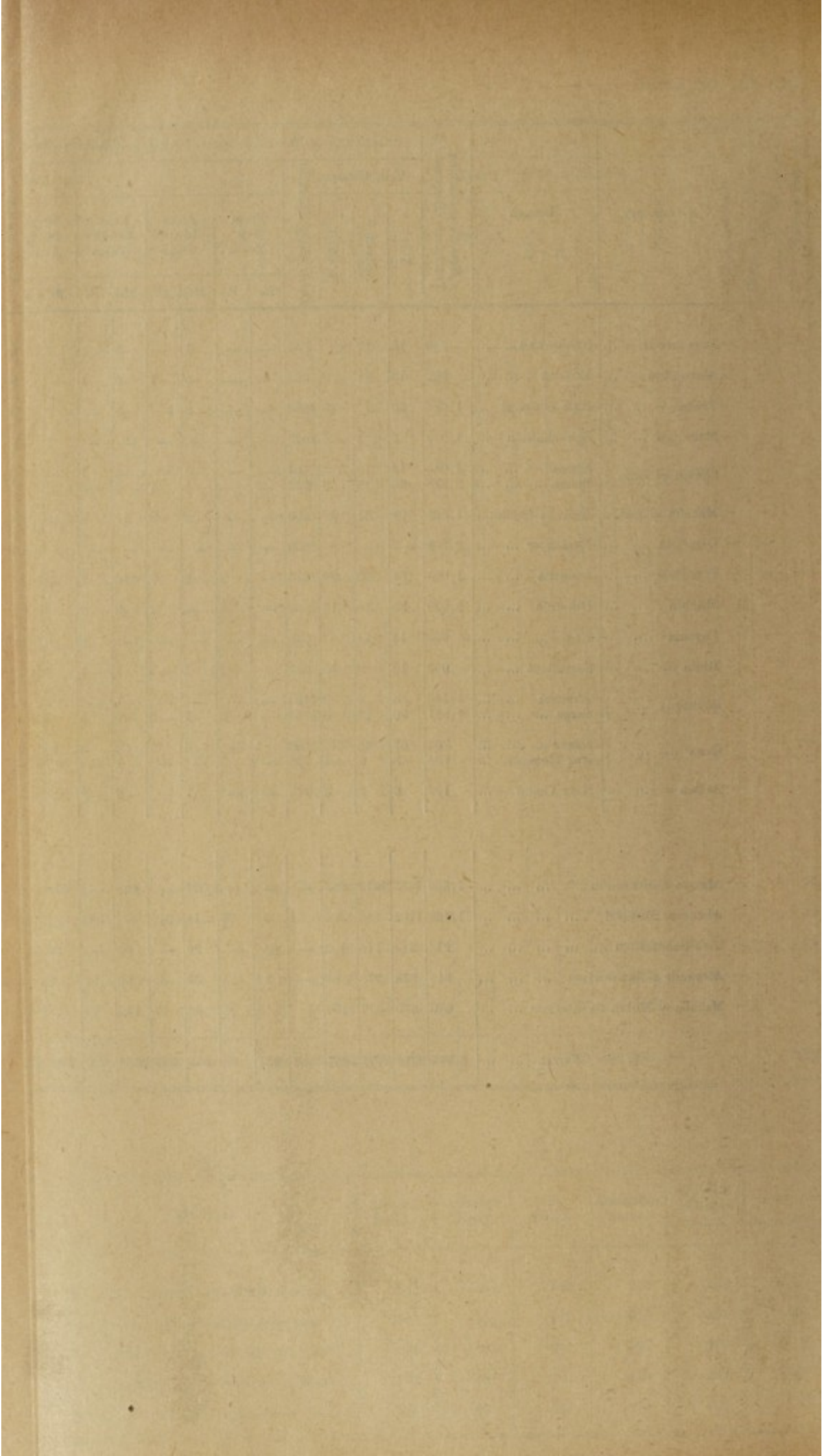


TABLE NO. 103.—MOBILE MASS X RAY SURVEY UNIT ATTACHED TO KHALIFA DISPENSARY SIN

| MONTH | Total No. Exam. | RESULT OF EXAM. | | | A g | | | | | | | | |
|------------------------|-----------------|-----------------|-------|--------|-------------------|---|-------|----|---|-----|----------|-----|-------|
| | | Pos. | Susp. | Neg. | Less than 5 years | | | | | | From 5 — | | |
| | | | | | M. | | | F. | | | M. | | |
| | | | | | + | ? | — | + | ? | — | + | ? | — |
| YEAR 1949 | | | | | | | | | | | | | |
| January ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| February ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| March * ... | 520 | 7 | — | 513 | — | — | 7 | — | — | 33 | — | — | 78 |
| April ... | 490 | 14 | — | 482 | — | — | 4 | — | — | 11 | — | — | 38 |
| May ... | 1,968 | 13 | 62 | 1,893 | — | — | — | — | — | — | — | 3 | 152 |
| June ... | 524 | 2 | 27 | 495 | — | — | — | — | — | — | — | 12 | 192 |
| July ... | 2,518 | 11 | 60 | 2,447 | — | — | — | — | — | — | 1 | 2 | 220 |
| August ... | 5,913 | 21 | 117 | 5,775 | — | — | — | — | — | 1 | 3 | 13 | 602 |
| September † ... | 2,574 | 13 | 42 | 2,519 | — | — | — | — | — | — | — | — | 40 |
| October ... | 4,608 | 26 | 91 | 4,491 | — | — | — | — | — | — | — | — | 1 |
| November ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| December ... | 1,009 | 2 | 57 | 950 | — | — | — | — | — | — | — | — | — |
| Apparatus out of order | | | | | | | | | | | | | |
| TOTAL ... | 20,130 | 109 | 456 | 19,565 | — | — | 11 | — | — | 45 | 4 | 30 | 1,336 |
| YEAR 1950 | | | | | | | | | | | | | |
| January ... | 651 | 3 | 23 | 625 | — | — | — | — | — | — | — | — | 7 |
| February ... | 3,291 | 16 | 144 | 3,131 | — | — | — | — | — | — | — | — | — |
| March ... | 7,899 | 40 | 219 | 7,640 | — | 2 | 26 | — | — | — | — | 4 | 153 |
| April ‡ ... | 2,879 | 12 | 113 | 2,754 | — | 3 | 144 | — | 4 | 187 | 2 | 17 | 341 |
| May ... | 5,415 | 22 | 138 | 5,255 | — | — | 14 | — | 2 | 4 | — | — | 96 |
| June ... | 2,188 | 11 | 43 | 2,134 | — | — | 48 | — | — | 43 | 2 | — | 314 |
| July ... | 1,161 | 5 | 52 | 1,104 | — | — | 9 | — | — | 4 | — | 2 | 162 |
| August ... | 7,774 | 18 | 128 | 7,628 | — | — | 452 | — | 1 | 266 | — | 13 | 1,173 |
| September ... | 9,836 | 2 | 57 | 9,777 | — | — | 534 | — | — | 300 | — | 7 | 931 |
| October ... | 3,731 | 3 | 27 | 3,701 | — | — | 13 | — | — | 32 | — | 7 | 677 |
| November ... | 3,881 | — | 31 | 3,850 | — | — | 49 | — | — | 67 | — | 13 | 606 |
| December ... | 2,381 | — | 36 | 2,345 | — | — | 20 | — | — | 15 | — | 10 | 545 |
| TOTAL ... | 51,687 | 132 | 1,011 | 49,944 | — | 5 | 1,319 | — | 7 | 918 | 4 | 73 | 5,005 |
| GRAND TOTAL | 71,217 | 241 | 1,467 | 69,569 | — | 5 | 1,330 | — | 7 | 963 | 8 | 103 | 6,341 |

* The apparatus began its work in 1949 at the Agricultural and Industrial Exhibition.

† 3 Positive cases discovered by Screen

‡ Sindibis Village.

STARTED WORK IN MARCH 1949.—THEN ATTACHED TO MUFTADYAN DISPENSARY FROM 28-9-1950

| GROUPS | | | | | | | | | | | | | | | |
|-----------|----|-------|--------------------|-----|--------|----|----|-------|--------------------|-----|--------|----|----|-------|--|
| 5 years | | | From 15 — 30 years | | | | | | From 30 — 50 years | | | | | | |
| F. | | | M. | | | F. | | | M. | | | F. | | | |
| + | ? | — | + | ? | — | + | ? | — | + | ? | — | + | ? | — | |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 1 | — | 53 | 7 | — | 87 | — | — | 64 | — | — | 72 | — | — | 45 | |
| — | — | 55 | 4 | — | 63 | 1 | — | 74 | 5 | — | 55 | 3 | — | 81 | |
| — | — | — | 10 | 45 | 1,560 | — | — | — | 3 | 10 | 159 | — | — | — | |
| — | — | — | 1 | 13 | 252 | 1 | — | 6 | — | 1 | 36 | — | — | 7 | |
| — | 4 | 145 | 3 | 33 | 1,385 | 2 | — | 212 | 4 | 17 | 436 | — | — | 2 | |
| — | 4 | 197 | 14 | 70 | 3,806 | — | 1 | 119 | 4 | 22 | 980 | — | — | 11 | |
| — | — | 52 | 11 | 27 | 1,749 | — | — | 5 | 2 | 14 | 621 | — | — | — | |
| — | — | 4 | 24 | 88 | 4,369 | — | — | — | 1 | 3 | 111 | — | — | — | |
| examined. | | | 2 | 42 | 800 | — | — | — | — | 13 | 142 | — | — | — | |
| 1 | 8 | 506 | 76 | 318 | 14,071 | 4 | 1 | 480 | 19 | 80 | 2,612 | 3 | — | 146 | |
| — | — | — | 3 | 12 | 503 | — | — | 1 | — | 8 | 108 | — | — | — | |
| — | — | — | 7 | 72 | 1,527 | — | — | — | 9 | 56 | 1,396 | — | — | — | |
| — | — | — | 10 | 66 | 2,721 | — | — | 4 | 26 | 113 | 4,031 | — | — | 1 | |
| 1 | 22 | 285 | 3 | 12 | 487 | 1 | 21 | 507 | 4 | 8 | 279 | — | 14 | 315 | |
| — | — | 47 | 12 | 39 | 2,380 | 1 | 8 | 203 | 8 | 77 | 2,311 | — | 3 | 57 | |
| 1 | — | 188 | 1 | 13 | 541 | 2 | 4 | 179 | 1 | 17 | 580 | 2 | 1 | 130 | |
| — | 1 | 78 | 2 | 16 | 288 | — | 6 | 107 | 2 | 16 | 279 | — | 4 | 51 | |
| 1 | 8 | 508 | 6 | 39 | 1,912 | 3 | 13 | 675 | 4 | 34 | 1,421 | 2 | 14 | 519 | |
| — | 1 | 458 | 1 | 16 | 2,769 | — | 9 | 961 | 1 | 15 | 2,377 | — | 7 | 643 | |
| — | 9 | 414 | — | — | 867 | 1 | 3 | 437 | 1 | 2 | 584 | — | 3 | 316 | |
| — | 10 | 608 | — | 2 | 1,215 | — | — | 381 | — | 2 | 463 | — | 3 | 215 | |
| — | 22 | 1,078 | — | 2 | 225 | — | 1 | 89 | — | 1 | 267 | — | — | 43 | |
| 3 | 73 | 3,664 | 45 | 284 | 15,435 | 8 | 65 | 3,544 | 56 | 349 | 14,096 | 4 | 49 | 2,290 | |
| 4 | 81 | 4,170 | 121 | 602 | 29,506 | 12 | 66 | 4,024 | 75 | 429 | 16,708 | 7 | 49 | 2,436 | |

TABLE NO. 103.—MOBILE MASS X RAY SURVEY UNIT ATTACHED TO KHALIPA DISPENSARY STN

| MONTH | | | | | | | Prope | | | | | | |
|------------------------|-------------------------|-----|-------|----|----|-----|-----------|-----|--------|----------|-----|-------|----|
| | From 50 years and above | | | | | | Employees | | | Students | | | |
| | M. | | | F. | | | | | | | | | |
| | + | ? | - | + | ? | - | + | ? | - | + | ? | - | |
| YEAR 1949 | | | | | | | | | | | | | |
| January ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| February ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| March ... | — | — | 48 | — | — | 26 | 1 | — | 66 | 1 | — | — | 11 |
| April ... | — | — | 66 | — | — | 35 | 5 | — | 57 | 2 | — | — | 7 |
| May ... | — | 4 | 22 | — | — | — | 3 | 13 | 172 | 10 | 49 | 1,72 | — |
| June ... | — | 1 | 1 | — | — | — | 1 | 3 | 63 | 1 | 24 | 43 | — |
| July ... | 1 | 4 | 41 | — | — | — | — | 1 | — | — | — | — | — |
| August ... | — | 7 | 58 | — | — | 1 | — | — | 2 | — | — | — | — |
| September ... | — | 1 | 46 | — | — | — | — | — | — | — | — | — | — |
| October ... | 1 | — | 6 | — | — | — | 26 | 91 | 4,475 | — | — | — | — |
| November ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| December ... | — | 2 | 8 | — | — | — | — | 27 | 507 | 2 | 30 | 44 | — |
| Apparat. out of order— | | | | | | | | | | | | | |
| TOTAL ... | 2 | 19 | 296 | — | — | 62 | 36 | 135 | 5,342 | 16 | 103 | 2,79 | — |
| YEAR 1950 | | | | | | | | | | | | | |
| January ... | — | 3 | 6 | — | — | — | 3 | 22 | 559 | — | 1 | 5 | — |
| February ... | — | 16 | 208 | — | — | — | 16 | 144 | 3,131 | — | — | — | — |
| March ... | 4 | 34 | 694 | — | — | — | 37 | 186 | 6,146 | — | 6 | 18 | — |
| April ... | 1 | 7 | 97 | — | 5 | 112 | — | 1 | 52 | — | 1 | 1 | — |
| May ... | 1 | 9 | 140 | — | — | 3 | — | 3 | 250 | — | 2 | 8 | — |
| June ... | 1 | 6 | 79 | 1 | 2 | 32 | — | 23 | 517 | 1 | 1 | 39 | — |
| July ... | 1 | 7 | 102 | — | — | 24 | 4 | 20 | 210 | — | — | 12 | — |
| August ... | — | 7 | 497 | 2 | 4 | 205 | 2 | 16 | 1,267 | 1 | 9 | 1,15 | — |
| September ... | — | 1 | 550 | — | 1 | 254 | — | 1 | 566 | — | 3 | 1,09 | — |
| October ... | — | 2 | 212 | 1 | 1 | 149 | — | 1 | 163 | — | 10 | 1,56 | — |
| November ... | — | 1 | 179 | — | — | 67 | — | 1 | 116 | — | 24 | 2,43 | — |
| December ... | — | — | 46 | — | — | 17 | — | 1 | 96 | — | 33 | 2,00 | — |
| TOTAL ... | 8 | 93 | 2,810 | 4 | 13 | 863 | 62 | 419 | 13,073 | 2 | 90 | 9,11 | — |
| GRAND TOTAL | 10 | 112 | 3,106 | 4 | 13 | 925 | 98 | 554 | 18,415 | 18 | 193 | 11,90 | — |

STARTED WORK IN MARCH 1949.—THEN ATTACHED TO MUFTADAYAN DISPENSARY FROM 28-9-1950. (Contd.)

IONS

| Workmen | | | Farmers | | | Food Vendors | | | Other vendors | | | No Occupation | | |
|---------------|-----|--------|---------|-----|-------|--------------|----|-------|---------------|----|-------|---------------|-----|-------|
| + | ? | — | + | ? | — | + | ? | — | + | ? | — | + | ? | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 5 | — | 110 | — | — | 93 | — | — | 36 | — | — | 37 | — | — | 60 |
| — | — | 134 | 2 | — | 76 | — | — | 39 | 2 | — | 46 | 3 | — | 53 |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11 | 59 | 2,447 | — | — | — | — | — | — | — | — | — | — | — | — |
| 21 | 117 | 5,771 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| 13 | 42 | 2,519 | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | 1 | — | — | — | — | — | 8 | — | — | — | — | — | — |
| one ex minad. | | | | | | | | | | | | | | |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 50 | 218 | 10,982 | 2 | — | 169 | — | — | 83 | 2 | — | 83 | 3 | — | 115 |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | 8 | — | — | — | — | — | — | — | — | — | — | — | — |
| 3 | 27 | 1,303 | — | — | — | — | — | 2 | — | — | — | — | — | — |
| — | — | 33 | 11 | 88 | 2,109 | — | — | 15 | — | 1 | 26 | — | 22 | 500 |
| 11 | 110 | 4,355 | — | — | — | — | — | — | — | — | — | 11 | 23 | 569 |
| 1 | 8 | 458 | — | 6 | 410 | — | 1 | 81 | 2 | — | 62 | 7 | 4 | 215 |
| 1 | 12 | 932 | — | 2 | 134 | — | — | 39 | — | 6 | 59 | — | 12 | 201 |
| 5 | 31 | 1,712 | 2 | 19 | 1,066 | — | 5 | 526 | — | 3 | 419 | 8 | 45 | 1,488 |
| 2 | 23 | 4,152 | — | 7 | 1,188 | — | 3 | 433 | — | — | 370 | — | 20 | 1,974 |
| 1 | 4 | 448 | — | 1 | 234 | — | 1 | 72 | — | — | 36 | 2 | 10 | 1,186 |
| — | 1 | 392 | — | 2 | 206 | — | — | 92 | — | — | 81 | — | 3 | 530 |
| — | 2 | 156 | — | — | 61 | — | — | 13 | — | — | 6 | — | — | 7 |
| 24 | 218 | 13,349 | 13 | 125 | 5,408 | — | 10 | 1,273 | 2 | 10 | 1,059 | 29 | 139 | 6,670 |
| 74 | 436 | 24,331 | 15 | 125 | 5,577 | — | 10 | 1,356 | 4 | 10 | 1,142 | 32 | 139 | 6,785 |

TABLE NO. 103.—MOBILE MASS X RAY SURVEY UNIT ATTACHED TO KHALIFA DISPENSARY SU

| MONTH | RACE | | | | | | RELIGION | | | | | | | | | |
|---------------|--------|-----|-------|---|--------|-------|-----------|---|----|-------|---|------------------------|--------|---|---|---|
| | White | | Dark | | Moslem | | Christian | | | Jew | | | Others | | | |
| | Total | + | Total | + | + | ? | — | + | ? | — | + | ? | — | + | ? | |
| YEAR 1949 | | | | | | | | | | | | | | | | |
| January ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| February ... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| March ... | 501 | 7 | 19 | — | 7 | — | 504 | — | — | 9 | — | — | — | — | — | — |
| April ... | 489 | 14 | 7 | — | 13 | — | 465 | 1 | — | 17 | — | — | — | — | — | — |
| May ... | 1,860 | 11 | 108 | 2 | 13 | 62 | 1,893 | — | — | — | — | — | — | — | — | — |
| June ... | 509 | 2 | 15 | — | 2 | 27 | 494 | — | — | 1 | — | — | — | — | — | — |
| July ... | 2,443 | 11 | 75 | — | 11 | 57 | 2,173 | — | 2 | 249 | — | 1 | 25 | — | — | — |
| August ... | 5,690 | 21 | 223 | — | 18 | 107 | 5,426 | 3 | 10 | 334 | — | — | 15 | — | — | — |
| September ... | 2,535 | 13 | 39 | — | 13 | 37 | 2,198 | — | 5 | 319 | — | — | 2 | — | — | — |
| October ... | 4,479 | 16 | 129 | — | 26 | 88 | 4,351 | — | 3 | 140 | — | — | — | — | — | — |
| November ... | | | | | | | | | | | | | | | | |
| December ... | 1,001 | 2 | 8 | — | 2 | 51 | 886 | — | 6 | 64 | — | | | | | |
| | | | | | | | | | | | | Apparatus out of order | | | | |
| TOTAL ... | 19,507 | 107 | 623 | 2 | 105 | 429 | 18,390 | 4 | 26 | 1,133 | — | 1 | 42 | — | — | — |
| YEAR 1950 | | | | | | | | | | | | | | | | |
| January ... | 616 | 3 | 25 | — | 3 | 23 | 601 | — | — | 24 | — | — | — | — | — | — |
| February ... | 3,222 | 16 | 69 | — | 16 | 136 | 3,014 | — | 8 | 117 | — | — | — | — | — | — |
| March ... | 7,73 | 39 | 167 | 1 | 40 | 205 | 7,171 | — | 14 | 466 | — | — | 3 | — | — | — |
| April ... | 1,879 | 12 | — | — | 12 | 111 | 2,694 | — | 2 | 60 | — | — | — | — | — | — |
| May ... | 5,409 | 22 | 6 | — | 19 | 123 | 4,805 | 3 | 15 | 449 | — | — | 1 | — | — | — |
| June ... | 2,188 | 11 | — | — | 11 | 42 | 2,111 | — | 1 | 23 | — | — | — | — | — | — |
| July ... | 1,161 | 5 | — | — | 5 | 52 | 1,090 | — | — | 14 | — | — | — | — | — | — |
| August ... | 7,672 | 18 | 102 | — | 18 | 124 | 7,610 | — | 4 | 18 | — | — | — | — | — | — |
| September ... | 9,836 | 2 | — | — | 1 | 57 | 9,762 | 1 | — | 15 | — | — | — | — | — | — |
| October ... | 3,731 | 3 | — | — | 3 | 27 | 3,684 | — | — | 17 | — | — | — | — | — | — |
| November ... | 3,881 | — | — | — | — | 31 | 3,884 | — | — | 6 | — | — | — | — | — | — |
| December ... | 2,381 | — | — | — | — | 34 | 2,319 | — | 2 | 26 | — | — | — | — | — | — |
| TOTAL ... | 50,718 | 131 | 369 | 1 | 128 | 965 | 48,705 | 4 | 46 | 1,235 | — | — | 4 | — | — | — |
| GRAND TOTAL | 70,225 | 238 | 992 | 3 | 233 | 1,394 | 67,095 | 8 | 72 | 2,368 | — | 1 | 46 | — | — | — |

Chapter XI.—Venereal and Skin Diseases

According to tables Nos. 104 and 111., a total of 270,188 persons attended the Venereal and Skin Diseases Units during 1950 suffering from one or another of these diseases, as against 260,996 patients during the pervious year, or a slight increase over those of that year. Since recognising the good and effective treatment given to patients at these units, the public no longer hesitate in seeking treatment at these units which exist now in all parts of the country.

1. *Gonorrhoea*:

Tables Nos. 107 and 113 give the number of acute gonorrhoea patients during the year as 3472 as compared with 5,487 during 1949. The significant decrease in the number of patients this year is attributed to the interest taken by patients in treatment and the use of penicillin and sulpha in treatment. Gonorrhoea infections are thus cured within one day.

2. *Syphilis*:

Tables Nos. 106 and 112 shows that 1,815 syphilis cases attended the V.D. units this year as against 3013 cases during 1949. The sharp fall in the number of attendances this year indicates that the public now take better protective measures and, in the event of contracting the disease, rush to these units for treatment. Moreover, Procain penicillin G. in oil with 2% aluminium monostearate have been used with great success in the treatment of syphilis.

3. *Other Venereal Diseases*:

The number of patients suffering from other venereal diseases was, according to tables Nos. 104 and 111, 3770 as against 5,954 in 1949. The same causes responsible for the decrease in gonorrhoea and syphilis patients equally apply to other venereal diseases patients.

Technical Works:

All means of propaganda are employed to draw the attention of the people to the serious consequences of venereal diseases and the deformation they produce on the body.

All V.D. units are now supplied with procain penicillin G with 2% aluminium monostearate for the treatment of acute gonorrhoea.

This drug has abortive effect in curing the disease as demonstrated by the apparent fall in the number of patients compared with their corresponding number in the previous year.

The same drug is also supplied to the units for the treatment of syphilis. It is anticipated that it will have the same effect as in gonorrhoea.

Great efforts have been made in the treatment of tinea, a wide spread disease affecting in particular pupils of elementary and primary schools. X. Ray apparatuses have been provided in 26 V.D. units for the purpose. Treatment was commenced in some of the units in September of this year.

Benzyl benzoate is now supplied to V.D. units as well as 100 Rural Health Centres for the treatment of scabies, another wide spread disease.

Two mobile units have been provided in Minia and Sharkia Provinces. Hod El Marsoud and Gabbary hospitals which were formerly assigned for the detention and treatment of public women, have been converted in 1949 into V.D. hospitals with in-patient departments where V.D. and other skin diseases are treated by modern methods.

A special accommodation, with a private entrance, has been provided in each of the two hospitals for the accommodation and treatment of women suffering from V.D. and who are arrested by the police.

Every endeavour is made to increase the number of V.D. units. There are at present 39 units besides the V.D. hospitals at Hod El Marsoud and Gabbari. There is also a prophylactic centre near Ezbekieh Gardens, Cairo, under the supervision of a medical officer for the protection of persons exposed to V.D. infection.

TABLE No 104.—NEW PATIENTS AND VISITS TO THE SKIN AND VENEREAL DISEASES HOSPITALS DURING 1950.

| Cairo Hospitals | | | | | | | | | | Alexandria Hospitals | | | | | | | | | | | |
|----------------------------------|----------------|-----|-------|------|-------|-------|-------|------------|-----|----------------------|-------|-------|-----|------|----|-------|-------|------------|-----|-------|-------|
| | Syph. | | | Gon. | | Skin | | Other dis. | | TOTAL | | Syph. | | Gon. | | Skin | | Other dis. | | TOTAL | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | |
| | | | | | | | | | | | | | | | | | | | | | |
| In-patients | Public... | 68 | 67 | 49 | 108 | 72 | 45 | — | — | 189 | 220 | 74 | 58 | — | — | 36 | 22 | 3 | 1 | 113 | 81 |
| | Prostitutes... | — | 1 | — | 4 | — | — | — | — | — | 5 | — | 224 | — | 60 | — | — | 44 | — | 328 | |
| | Sailors... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| | TOTAL ... | 68 | 68 | 49 | 112 | 72 | 45 | — | — | 189 | 225 | 74 | 282 | — | 60 | 36 | 22 | 3 | 45 | 113 | 409 |
| Out-patients | Public... | 118 | 169 | 181 | 539 | 1,134 | 2,551 | 75 | 155 | 1,508 | 3,414 | 78 | 92 | 25 | 7 | 2,054 | 4,821 | 383 | 240 | 3,540 | 5,150 |
| | Prostitutes... | — | 31 | — | 34 | — | — | — | — | — | 65 | — | — | — | — | — | — | — | — | — | — |
| | Sailors... | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | TOTAL ... | 118 | 200 | 181 | 573 | 1,134 | 2,551 | 75 | 155 | 1,508 | 3,479 | 78 | 92 | 25 | 7 | 2,054 | 4,821 | 383 | 240 | 2,540 | 5,160 |
| Total of in and out-patients ... | | 186 | 268 | 230 | 685 | 1,206 | 2,596 | 75 | 155 | 1,697 | 3,704 | 152 | 374 | 25 | 67 | 3,090 | 4,843 | 386 | 285 | 3,653 | 5,569 |
| Number of Visits ... | | 916 | 1,992 | 804 | 4,864 | 1,432 | 3,487 | 38 | 23 | 3,190 | 6,366 | 297 | 571 | 24 | 60 | 4,642 | 6,871 | 383 | 232 | 5,346 | 7,734 |

TABLE NO. 105—EXPENDITURES DURING 1950.

| | Salaries | | Equipments | | Instruments and Medicine | | Diet | | Sundry Expenses | | Total Expenditure | |
|---------------------|--------------|------------|------------|------------|--------------------------|------------|--------------|------------|-----------------|------------|-------------------|------------|
| | L.E. | Mms | L.E. | Mms | L.E. | Mms | L.E. | Mms | L.E. | Mms | L.E. | Mms |
| Cairo Hosp | 5,550 | 304 | 227 | 810 | 601 | 600 | 921 | 056 | 218 | 538 | 7,519 | 308 |
| Alexandria Hosp ... | 2,132 | 576 | 211 | 800 | 310 | — | 749 | 359 | 177 | 171 | 3,580 | 906 |
| TOTAL | 7,682 | 880 | 439 | 610 | 911 | 600 | 1,670 | 415 | 395 | 709 | 11,100 | 214 |

TABLE NO. 106—NEW CASES OF SYPHILIS IN VENEREAL DISEASES HOSPITALS DURING 1950.

| | Early Cases | | | | | | Late Cases | | | | | | | | TOTAL | |
|------------------|-------------|----|---------|----|-------|----|------------|----|--------|-----|---------|----|-------|----|-------|-----|
| | Primary | | Second. | | TOTAL | | Tert. | | Latent | | Nervous | | Herd. | | | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| Cairo Hosp ... | 21 | 20 | 49 | 42 | 70 | 62 | 11 | 3 | 69 | 171 | 15 | — | 21 | 32 | 186 | 268 |
| Alexandria Hosp. | 11 | 5 | 15 | 16 | 26 | 21 | 19 | 7 | 77 | 313 | 25 | 19 | 5 | 14 | 152 | 374 |
| TOTAL | 32 | 25 | 64 | 58 | 96 | 83 | 30 | 10 | 146 | 434 | 40 | 19 | 26 | 46 | 338 | 642 |

TABLE NO. 107—NEW CASES OF GONORRHOEA DURING 1950.

| | Acute | | Chronic | | TOTAL | |
|---------------------|-----------|-----------|------------|------------|------------|------------|
| | M. | F. | M. | F. | M. | F. |
| Cairo H. sp. | 54 | 56 | 176 | 629 | 230 | 685 |
| Alex. Hosp. | 25 | 1 | — | 66 | 25 | 67 |
| TOTAL | 79 | 57 | 176 | 695 | 255 | 752 |

TABLE NO. 108—INFECTED CONTACTS

| | Syph | | Gon. | |
|--------------------|-----------|-----------|-----------|-----------|
| | M. | F. | M. | F. |
| Cairo Hosp. | 50 | 76 | 35 | 50 |
| Alex. Hosp. | — | — | — | — |
| TOTAL | 50 | 76 | 35 | 50 |

TABLE NO. 109—CASES OF VENEREAL DISEASES CURED DURING 1950.

| | Outpatients | | | | Inpatients | | | |
|---------------------|-------------|-----------|------------|------------|------------|------------|-----------|------------|
| | Syph. | | Gon. | | Syph. | | Gon | |
| | | | | | | | | |
| Cairo Hosp. | — | — | 107 | 190 | 20 | 21 | 30 | 66 |
| Alex. Hosp. | 42 | 66 | 24 | — | 73 | 136 | — | 37 |
| TOTAL | 42 | 66 | 131 | 190 | 93 | 157 | 30 | 103 |

TABLE NO. 110—CASES OF SKIN
DISEASES CURED DURING 1950.

| | Scabies | | Ringworms | |
|----------------------|------------|------------|------------|-----------|
| | M. | F. | M. | F. |
| | | | | |
| Cairo Hosp. | 194 | 334 | 38 | 29 |
| Alexandria Hosp. ... | 108 | 103 | 63 | 49 |
| TOTAL | 302 | 437 | 101 | 78 |

TABLE NO. III.—NEW CASES AND VISITS

| Locality of Clinic | NEW CASES | | | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|---------------|----------------|------------|-------------|---------------|----------------|
| | Syphilis | | Gonorrhoea | | Skin Diseases | | Other Dis. | | TOTAL | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| Sayed Zeinab | 95 | 97 | 247 | 161 | 2,707 | 3,434 | 22 | 25 | 3,071 | 3,711 |
| Shubra | 136 | 130 | 323 | 84 | 3,849 | 18,351 | 65 | 193 | 4,373 | 18,735 |
| Gamalia | 193 | 123 | 503 | 305 | 987 | 1,923 | 113 | 321 | 1,796 | 2,671 |
| Abbassia | 8 | 63 | 127 | 56 | 2,782 | 3,633 | 60 | 30 | 3,055 | 3,783 |
| Old Cairo | 14 | 19 | 37 | 37 | 917 | 2,110 | — | 95 | 968 | 2,262 |
| Khalifa | 42 | 16 | 47 | 53 | 1,591 | 8,209 | — | — | 1,680 | 8,221 |
| Heliopolis | 38 | 13 | 160 | 14 | 1,225 | 3,108 | — | — | 1,423 | 3,132 |
| Port-Said | 37 | 64 | 61 | 27 | 2,025 | 2,832 | 34 | 88 | 2,157 | 3,011 |
| Port Said Health Centre | 47 | 82 | 21 | 19 | 1,933 | 2,846 | 2 | 33 | 2,003 | 2,988 |
| Ismailia | 67 | 98 | 34 | 15 | 1,850 | 1,864 | 2 | 60 | 1,453 | 2,037 |
| Suez | 72 | 72 | 164 | 89 | 3,071 | 4,428 | 49 | 585 | 3,356 | 5,173 |
| Damietta | 144 | 258 | 5 | 6 | 3,178 | 8,105 | 6 | 6 | 3,333 | 8,371 |
| Benha | 27 | 35 | 57 | 44 | 2,282 | 2,423 | 34 | 58 | 2,400 | 2,565 |
| Shebin-el-Kom | 66 | 48 | 50 | 30 | 4,775 | 8,237 | — | — | 4,891 | 8,311 |
| Menouf | 31 | 22 | 3 | — | 2,092 | 4,923 | 2 | — | 2,128 | 4,941 |
| Tanta | 330 | 39 | 114 | 9 | 3,771 | 4,324 | 9 | 5 | 4,224 | 4,735 |
| Mehalla-el-Kobra | 74 | 94 | 33 | 22 | 2,061 | 3,679 | 21 | 12 | 2,189 | 3,801 |
| Kafr El Zayat | 104 | 142 | 31 | 23 | 2,585 | 2,853 | — | — | 2,720 | 3,011 |
| Zagazig | 82 | 85 | 53 | 18 | 3,350 | 3,210 | 4 | 2 | 3,489 | 3,311 |
| Facus | 55 | 120 | 9 | 8 | 1,534 | 1,893 | — | — | 1,598 | 2,021 |
| Mansoura | 133 | 232 | 47 | 6 | 2,191 | 2,997 | 79 | 722 | 2,450 | 3,955 |
| Mit-Ghamr | 78 | 158 | 2 | 1 | 3,571 | 4,329 | 8 | 8 | 3,659 | 4,499 |
| Damanhour | 84 | 108 | 118 | 82 | 3,865 | 9,080 | 9 | — | 4,076 | 9,225 |
| Kafr-el-Dawar | 21 | 28 | 6 | 9 | 1,066 | 1,785 | — | — | 1,093 | 1,821 |
| Giza | 63 | 86 | 73 | 9 | 814 | 3,307 | 10 | 7 | 960 | 3,401 |
| Fayoum | 122 | 245 | 39 | 26 | 2,035 | 2,518 | — | — | 2,197 | 2,781 |
| Sennuris | 34 | 88 | 19 | 13 | 1,331 | 3,101 | 2 | 5 | 1,386 | 3,261 |
| Beni-Suef | 63 | 84 | 89 | 7 | 3,256 | 3,400 | 6 | — | 3,414 | 3,491 |
| Minia | 135 | 204 | 59 | 1 | 2,011 | 2,394 | — | 1 | 2,205 | 2,601 |
| Samalut | 69 | 86 | 10 | 13 | 619 | 840 | — | — | 598 | 941 |
| Assiut | 195 | 406 | 95 | — | 2,009 | 3,971 | 2 | — | 2,301 | 4,371 |
| Deirout | 62 | 99 | 2 | — | 2,383 | 3,095 | 16 | 21 | 2,463 | 3,211 |
| Gerga | 111 | 128 | 56 | 20 | 4,963 | 9,860 | — | — | 5,130 | 10,001 |
| Tahta | 224 | 350 | 1 | — | 1,070 | 3,427 | — | — | 1,295 | 3,771 |
| Souhag | 155 | 198 | 11 | — | 1,326 | 1,309 | — | — | 1,492 | 1,501 |
| Qena | 35 | 46 | 10 | 6 | 1,981 | 3,132 | — | — | 2,026 | 3,181 |
| Nag Hammadi | 70 | 193 | 25 | 2 | 975 | 1,218 | 1 | — | 1,071 | 1,411 |
| Luxor | 95 | 94 | 29 | 4 | 726 | 1,532 | 1 | 1 | 851 | 1,631 |
| Aswan | 84 | 101 | 67 | 11 | 808 | 1,518 | 23 | 11 | 982 | 1,641 |
| TOTAL | 3,573 | 4,908 | 2,837 | 1,215 | 84,963 | 155,198 | 580 | 2289 | 91,956 | 163,601 |

THE SKIN AND VENEREAL DISEASES CLINICS DURING 1950.

| NUMBER OF VISITS | | | | | | | | TOTAL | |
|------------------|----------------|--------------|--------------|---------------|---------------|-------------|--------------|----------------|----------------|
| Syphilis | | Gonorrhoea | | Skin Diseases | | Other Dis. | | M. | F. |
| M. | F. | M. | F. | M. | F. | M. | F. | | |
| 3,338 | 7,135 | 128 | 445 | 861 | 2,649 | 3 | 14 | 4,830 | 10,243 |
| 3,708 | 4,768 | 434 | 328 | 1,260 | 3,018 | 697 | 1,314 | 6,099 | 9,428 |
| 7,959 | 9,777 | 1,016 | 1,226 | 1,543 | 2,144 | 377 | 815 | 10,895 | 13,962 |
| 2,106 | 2,753 | 166 | 67 | 958 | 1,323 | 7 | — | 3,237 | 4,643 |
| 1,071 | 1,560 | 128 | 146 | 326 | 1,366 | — | 36 | 1,525 | 3,108 |
| 1,222 | 2,230 | 45 | 26 | 1,751 | 10,059 | — | — | 3,018 | 12,315 |
| 694 | 257 | 83 | 19 | 1,121 | 1,667 | — | — | 1,898 | 1,943 |
| 1,617 | 3,789 | 188 | 51 | 1,034 | 1,315 | — | — | 2,839 | 5,155 |
| 1,026 | 2,803 | 48 | 423 | 798 | 1,320 | — | 60 | 1,872 | 4,606 |
| 1,247 | 2,598 | 51 | 115 | 825 | 1,429 | — | 12 | 2,123 | 4,154 |
| 2,196 | 3,614 | 659 | 517 | 755 | 1,003 | 118 | 729 | 3,728 | 5,863 |
| 2,525 | 5,847 | 55 | 73 | 724 | 1,825 | — | — | 3,304 | 7,745 |
| 568 | 768 | 102 | 104 | 665 | 1,188 | 20 | 45 | 1,355 | 2,105 |
| 2,078 | 2,218 | 235 | 99 | 689 | 1,350 | — | — | 3,002 | 3,667 |
| 1,107 | 1,896 | 17 | — | 1,211 | 1,263 | — | — | 2,335 | 4,159 |
| 3,766 | 15,018 | 314 | 24 | 2,324 | 2,011 | 12 | 3 | 11,416 | 17,056 |
| 2,601 | 4,724 | 100 | 79 | 846 | 2,119 | 24 | — | 3,571 | 6,922 |
| 3,541 | 4,610 | 60 | 40 | 1,613 | 1,285 | — | — | 5,114 | 5,935 |
| 1,366 | 1,889 | 79 | 34 | 1,201 | 1,113 | 8 | 3 | 2,654 | 3,039 |
| 1,330 | 4,682 | 9 | 13 | 1,179 | 1,711 | — | — | 2,518 | 6,406 |
| 3,248 | 5,642 | 144 | 220 | 275 | 487 | 91 | 553 | 3,768 | 6,902 |
| 2,541 | 7,141 | 28 | 10 | 1,210 | 1,499 | 3 | 4 | 3,782 | 8,654 |
| 2,095 | 2,892 | 89 | 19 | 2,065 | 3,765 | — | — | 4,249 | 6,676 |
| 426 | 1,035 | 4 | 2 | 208 | 260 | — | — | 638 | 1,297 |
| 2,190 | 4,415 | 73 | 26 | 293 | 811 | 5 | — | 2,561 | 5,252 |
| 2,668 | 8,870 | 36 | 54 | 376 | 544 | — | — | 3,080 | 9,468 |
| 1,290 | 3,600 | 22 | 17 | 957 | 2,239 | 1 | 6 | 2,270 | 5,862 |
| 2,525 | 4,423 | 270 | 2 | 1,166 | 1,472 | 23 | — | 3,984 | 5,897 |
| 1,499 | 6,898 | 185 | 2 | 585 | 825 | 3 | — | 5,272 | 7,725 |
| 2,436 | 3,902 | 31 | 53 | 283 | 391 | — | — | 2,750 | 4,346 |
| 5,267 | 12,726 | 14 | — | 1,350 | 2,174 | 2 | — | 6,631 | 14,900 |
| 2,767 | 5,334 | 1 | — | 1,825 | 2,395 | 7 | 15 | 4,700 | 7,794 |
| 1,014 | 5,644 | 120 | 29 | 2,119 | 2,867 | — | — | 5,253 | 8,540 |
| 1,112 | 7,047 | 2 | — | 43 | 140 | — | — | 3,157 | 7,187 |
| 5,667 | 9,495 | 11 | — | 429 | 406 | — | — | 6,107 | 9,901 |
| 1,570 | 5,989 | 29 | 58 | 459 | 773 | — | — | 2,058 | 6,820 |
| 2,396 | 8,668 | 29 | 1 | 148 | 148 | — | — | 2,573 | 8,817 |
| 1,862 | 7,425 | 110 | 82 | 676 | 1,104 | — | — | 4,648 | 8,614 |
| 1,893 | 5,728 | 171 | 22 | 391 | 874 | 1 | — | 2,456 | 6,624 |
| 1,132 | 199,863 | 5,286 | 4,426 | 36,442 | 65,832 | 1400 | 3,609 | 147,260 | 273,730 |

TABLE NO. 112.—CASES OF SYPHILIS IN VENEREAL DISEASES CLINICS DURING 1950

| Locality of Clinic | Acute Syphilis | | | | | | Other Stages. | | | | | | | | | | TOTAL | |
|-----------------------------|----------------|-----------|------------|------------|-------------|------------|---------------|------------|-------------|-------------|-----------|-----------|------------|------------|-------------|-------------|-------|----|
| | Primary | | Secondary | | TOTAL | | Tert | | Latent | | Nervous | | Herd. | | | | M. | F. |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | | | | |
| Sayeda Zeinab ... | 31 | — | 22 | 25 | 53 | 25 | 9 | 5 | 28 | 40 | — | — | 5 | 27 | 95 | 97 | | |
| Shubra ... | 35 | 8 | 20 | 14 | 55 | 22 | 8 | 13 | 54 | 75 | — | 1 | 19 | 19 | 136 | 130 | | |
| Gamalia ... | 40 | 9 | 77 | 42 | 117 | 51 | 10 | 2 | 59 | 61 | 1 | — | 6 | 9 | 193 | 123 | | |
| Abbassia ... | 16 | 6 | 14 | 13 | 30 | 19 | 3 | 5 | 47 | 36 | 2 | — | 4 | 3 | 86 | 63 | | |
| Old Cairo ... | 6 | — | 4 | 6 | 10 | 6 | — | 1 | 3 | 11 | — | — | 1 | 1 | 14 | 19 | | |
| Khalifa ... | 8 | 1 | 5 | 2 | 13 | 3 | 12 | — | 8 | 8 | 2 | — | 7 | 5 | 42 | 16 | | |
| Heliopolis ... | 15 | — | 7 | 3 | 22 | 3 | 5 | 4 | 11 | 5 | — | 1 | — | — | 38 | 13 | | |
| Port Said ... | — | — | 8 | 7 | 8 | 7 | 6 | 3 | 16 | 44 | 3 | — | 4 | 10 | 37 | 64 | | |
| Port-Said Health Centre ... | 1 | — | 9 | 7 | 10 | 7 | 1 | — | 21 | 57 | — | 2 | 15 | 16 | 47 | 82 | | |
| Ismailia ... | 12 | — | 6 | 7 | 18 | 7 | 5 | 3 | 39 | 73 | — | — | 5 | 15 | 67 | 98 | | |
| Suez ... | 24 | 3 | 23 | 10 | 47 | 13 | 8 | 5 | 10 | 35 | 3 | 2 | 4 | 17 | 72 | 72 | | |
| Damietta ... | 8 | 2 | 14 | 15 | 22 | 17 | 8 | 11 | 75 | 172 | 17 | 12 | 22 | 46 | 144 | 258 | | |
| Benha ... | 3 | 3 | 7 | 1 | 10 | 4 | 1 | 2 | 15 | 26 | — | — | 1 | 3 | 27 | 35 | | |
| Shebin-el-Kom ... | 3 | 1 | 10 | 7 | 13 | 8 | 3 | — | 38 | 27 | — | — | 12 | 13 | 66 | 48 | | |
| Menouf ... | — | — | 3 | 1 | 3 | 1 | 10 | 4 | 13 | 17 | 3 | — | 2 | — | 31 | 22 | | |
| Tanta ... | 14 | 5 | 17 | 12 | 31 | 17 | 20 | 11 | 201 | 300 | — | — | 78 | 65 | 330 | 393 | | |
| Mehalla-el-Kobra ... | 10 | 4 | 18 | 12 | 28 | 16 | 12 | 11 | 17 | 53 | 1 | — | 16 | 14 | 74 | 94 | | |
| Kafr el Zayat ... | 3 | — | 6 | 13 | 9 | 13 | 1 | — | 77 | 123 | 2 | — | 15 | 6 | 104 | 142 | | |
| Zagazig ... | 16 | 3 | 26 | 33 | 42 | 36 | 20 | 13 | 10 | 34 | 1 | — | 9 | 2 | 82 | 85 | | |
| Facus ... | 2 | — | 22 | 32 | 24 | 32 | 3 | — | 7 | 45 | — | — | 21 | 43 | 55 | 120 | | |
| Mansoura ... | 4 | — | 9 | 10 | 13 | 10 | 21 | 13 | 81 | 181 | — | — | 18 | 28 | 133 | 232 | | |
| Mit-Ghamr ... | 3 | 6 | 7 | 10 | 10 | 16 | 12 | 4 | 31 | 107 | 3 | — | 22 | 31 | 78 | 158 | | |
| Damanhour ... | 11 | 2 | 25 | 22 | 36 | 24 | 8 | 12 | 28 | 47 | 3 | 2 | 9 | 23 | 84 | 108 | | |
| Kafr El Dawar ... | — | — | 1 | 2 | 1 | 2 | 4 | 3 | 12 | 22 | — | — | 4 | 1 | 21 | 28 | | |
| Giza ... | 16 | 1 | 8 | 11 | 24 | 12 | 7 | 4 | 15 | 44 | — | — | 17 | 26 | 63 | 86 | | |
| Fayoum ... | 9 | 5 | 11 | 9 | 20 | 14 | 10 | 11 | 74 | 196 | — | — | 18 | 24 | 122 | 245 | | |
| Sennouris ... | — | 1 | 22 | 21 | 2 | 22 | 1 | 2 | 7 | 52 | — | — | 4 | 12 | 34 | 88 | | |
| Beni-Suef ... | 26 | 1 | 14 | 9 | 40 | 10 | 9 | 11 | 11 | 52 | — | — | 3 | 11 | 63 | 84 | | |
| Minia ... | 4 | — | 16 | 7 | 20 | 7 | 6 | 6 | 79 | 162 | — | 3 | 30 | 26 | 135 | 204 | | |
| Semalut ... | 4 | — | 11 | 7 | 15 | 7 | 2 | 1 | 37 | 58 | — | — | 15 | 20 | 69 | 86 | | |
| Assiut ... | 11 | — | 7 | 7 | 18 | 7 | 8 | 5 | 139 | 337 | — | — | 30 | 57 | 195 | 406 | | |
| Deirout ... | — | 1 | 3 | 5 | 3 | 6 | 5 | 4 | 45 | 80 | — | — | 9 | 9 | 62 | 99 | | |
| Gerga ... | 9 | 1 | 52 | 100 | 61 | 101 | — | 1 | 35 | 8 | 2 | — | 13 | 18 | 111 | 128 | | |
| Tahta ... | 1 | — | 8 | 14 | 9 | 14 | 21 | 19 | 135 | 279 | 3 | 1 | 56 | 37 | 224 | 350 | | |
| Souhag ... | 10 | 11 | 17 | 13 | 27 | 24 | 10 | 8 | 101 | 146 | 1 | — | 16 | 20 | 155 | 198 | | |
| Qena ... | 3 | — | 9 | — | 12 | — | 6 | 15 | 7 | 21 | — | 1 | 10 | 9 | 35 | 46 | | |
| Nag-Hammadi ... | 7 | — | 12 | 8 | 19 | 8 | 17 | 16 | 18 | 144 | 2 | — | 14 | 25 | 70 | 193 | | |
| Luxor ... | 40 | 3 | 13 | 29 | 53 | 32 | 3 | 4 | 30 | 31 | — | — | 9 | 27 | 95 | 94 | | |
| Aswan ... | 37 | — | 4 | 4 | 41 | 4 | 7 | 3 | 19 | 77 | 3 | 1 | 14 | 16 | 84 | 101 | | |
| TOTAL ... | 442 | 77 | 567 | 550 | 1009 | 627 | 302 | 235 | 1653 | 3286 | 52 | 26 | 557 | 734 | 3573 | 4908 | | |

TABLE NO. 113.—NEW CASES OF GONORRHOEA IN VENEREAL DISEASES DURING 1950.

| Locality of Clinics | Acute | | Chronic Clinics | | TOTAL | |
|--------------------------------|--------------|------------|-----------------|------------|--------------|--------------|
| | M. | F. | M. | F. | M. | F. |
| Sayed Zeinab | 236 | 11 | 11 | 150 | 247 | 161 |
| Shubra | 277 | 61 | 46 | 23 | 323 | 84 |
| Gamalia | 494 | 304 | 9 | 1 | 503 | 305 |
| Abbassia | 123 | 54 | 4 | 2 | 127 | 56 |
| Old Cairo | 21 | 26 | 16 | 11 | 37 | 37 |
| Khalifa | 31 | 2 | 16 | 51 | 47 | 53 |
| Heliopolis | 160 | 14 | — | — | 160 | 14 |
| Port-Saïd | 60 | 24 | 1 | 3 | 61 | 27 |
| Port Saïd Health Centre | 21 | 19 | — | — | 21 | 19 |
| Ismailia | 32 | 3 | 2 | 12 | 34 | 15 |
| Suez | 146 | 89 | 18 | — | 164 | 89 |
| Damietta | 3 | 4 | 2 | 2 | 5 | 6 |
| Benha | 57 | 44 | — | — | 57 | 44 |
| Shebin-el-Kom | 46 | 30 | 4 | — | 50 | 30 |
| Menouf | 3 | — | — | — | 3 | — |
| Tanta | 62 | 6 | 52 | 3 | 114 | 9 |
| Mehalla-el-Kobra | 32 | 22 | 1 | — | 33 | 22 |
| Kafr El Zayat | 23 | 2 | 8 | 21 | 31 | 23 |
| Zagazig | 53 | 17 | — | 1 | 53 | 18 |
| Facus | 9 | 8 | — | — | 9 | 8 |
| Mansoura | 47 | 6 | — | — | 47 | 6 |
| Mit-Ghamr | 2 | 1 | — | — | 2 | 1 |
| Damanhour | 75 | 57 | 43 | 5 | 118 | 62 |
| Kafr el Dawar | 5 | 1 | 1 | 8 | 6 | 9 |
| Giza | 68 | 9 | 5 | — | 73 | 9 |
| Fayoum | 19 | 4 | 20 | 22 | 39 | 26 |
| Sennuris | 15 | 12 | 4 | 1 | 19 | 13 |
| Beni-Suef | 34 | 3 | 55 | 4 | 89 | 7 |
| Minia | 59 | 1 | — | — | 59 | 1 |
| Samalut | 8 | 3 | 2 | 15 | 10 | 18 |
| Assiut | 95 | — | — | — | 95 | — |
| Deirout | 1 | — | 1 | — | 2 | — |
| Gerga | 44 | 16 | 12 | 4 | 56 | 20 |
| Tahta | 1 | — | — | — | 1 | — |
| Souhag | 11 | — | — | — | 11 | — |
| Qena | 3 | 2 | 7 | 4 | 10 | 6 |
| Nag Hammadi | 22 | 2 | 3 | — | 25 | 2 |
| Luxor | 22 | — | 7 | 4 | 29 | 4 |
| Aswan | 58 | 1 | 9 | 10 | 67 | 11 |
| TOTAL | 2,478 | 858 | 359 | 357 | 2,837 | 1,215 |

TABLE NO. 114.—CASES CURED IN VENEREAL DISEASES CLINICS
DURING 1950.

| Locality of Clinic | Cases Cured | | | |
|----------------------------|-------------|------------|--------------|------------|
| | Syphilis | | Gonorrhoea | |
| | M. | F. | M. | F. |
| Sayed Zeinab | 2 | 2 | 82 | 47 |
| Shubra | 2 | 3 | 312 | 119 |
| Garnalia | 28 | 45 | 471 | 303 |
| Abbassia | 3 | 3 | 101 | 46 |
| Old Cairo | 1 | 2 | 15 | 10 |
| Khalifa | 1 | 2 | 31 | 2 |
| Heliopolis | — | — | 181 | 22 |
| Port-Saïd | 1 | 5 | 34 | 10 |
| Port-Saïd Health Centre... | — | 5 | 11 | 32 |
| Ismailia | — | — | 28 | 9 |
| Seuz | 4 | 15 | 73 | 48 |
| Damietta | 17 | 44 | 2 | 4 |
| Benha | — | — | 40 | 24 |
| Shebin-el-Kom | — | — | 8 | 2 |
| Menouf | 1 | — | 1 | — |
| Tanta | — | — | 68 | 4 |
| Mehalla-el-Kobra | — | — | 10 | 8 |
| Kafr El Zayat | 4 | 9 | 16 | 20 |
| Zagazig | 5 | 17 | 25 | 17 |
| Facus | 5 | 14 | 9 | 8 |
| Mansoura | 7 | 14 | 41 | 4 |
| Mit-Ghamr | — | — | — | — |
| Damanhour | 6 | — | 95 | 57 |
| Kafr el Dawar... .. | — | — | 4 | 7 |
| Giza | 3 | 2 | 51 | 12 |
| Fayoum | — | — | — | — |
| Sennuris | 3 | 8 | 19 | 12 |
| Beni-Suef | 3 | 2 | 54 | 5 |
| Minia | 20 | 21 | 58 | — |
| Samalut | 2 | 1 | 5 | 4 |
| Assiut | — | — | 97 | — |
| Deirout | — | — | — | — |
| Gerga | 21 | 37 | 49 | 17 |
| Tahta | 7 | 25 | 1 | — |
| Souhag | 2 | 10 | 9 | — |
| Qena | 4 | 3 | 8 | 6 |
| Nag Hammadi | — | — | — | — |
| Luxor | 12 | 15 | 27 | 1 |
| Aswan... .. | 3 | 3 | 63 | 1 |
| TOTAL | 167 | 307 | 2,099 | 861 |

TABLE NO. 115.— NEW CASES OF SCABIES DURING 1950.

| Locality of Clinic | Scabies | | Locality of Clinic | Scabies | |
|-----------------------------|--------------|--------------|------------------------|---------------|---------------|
| | M. | F. | | M. | F. |
| | | | <i>Brought Forward</i> | 8,144 | 9,513 |
| Sayeda Zeinab | 186 | 169 | | | |
| Shubra | 449 | 1,193 | Mansoura | 432 | 496 |
| Gamalia | 169 | 177 | Mit-Ghamr | 659 | 642 |
| Abbassia | 453 | 366 | Damanhour | 776 | 2,289 |
| Old Cairo | 151 | 162 | Kafr El Dawar | 424 | 221 |
| Khalifa | 182 | 580 | Giza | 46 | 143 |
| Heliopolis | 128 | 230 | Fayoum | 323 | 239 |
| Port-Saïd | 329 | 384 | Sennuris | 184 | 257 |
| Port-Saïd Health Centre ... | 201 | 255 | Beni Suef | 372 | 290 |
| Ismailia | 126 | 111 | Minia | 210 | 231 |
| Suez | 233 | 205 | Samalut | 88 | 106 |
| Damietta | 304 | 563 | Assiut | 541 | 821 |
| Benha | 710 | 709 | Deirout | 369 | 289 |
| Shebin El-Kom... .. | 2,060 | 1,987 | Gerga | 379 | 518 |
| Menouf | 136 | 317 | Tahta | 152 | 159 |
| Tanta | 192 | 135 | Souhag... .. | 121 | 70 |
| Mehalla El-Kobra | 573 | 626 | Qena | 188 | 215 |
| Kafr El-Zayat | 236 | 272 | Nag Hammadi | 120 | 83 |
| Zagazig | 925 | 754 | Luxor | 181 | 367 |
| Facus | 401 | 378 | Aswan... .. | 116 | 141 |
| TOTAL | 8,144 | 9,513 | TOTAL | 13,825 | 17,150 |

TABLE NO. 116.— NEW CASES AND NUMBER OF VISITS TO MOBILE
UNITS DURING 1950.

| Units | New Cases | | Number of Visits | |
|---------------------|--------------|--------------|------------------|------------|
| | M. | F. | M. | F. |
| Ibrahimia | 1,020 | 1,230 | 470 | 735 |
| Saft El Khamar ... | 96 | 61 | 6 | 3 |
| TOTAL | 1,116 | 1,291 | 476 | 738 |

TABLE NO. 117.—FULL DETAILS.

| Units | Scabies | | | | Other Skin Diseases | |
|--------------------|-----------|-----|-------------|-----|---------------------|-------|
| | New Cases | | Cured Cases | | | |
| | M. | F. | M. | F. | M. | F. |
| Ibrahimia | 251 | 233 | 117 | 131 | 769 | 997 |
| Saft El Khamar ... | 38 | 11 | — | — | 38 | 11 |
| TOTAL | 289 | 244 | 117 | 131 | 807 | 1,008 |

TABLE NO. 118.—NEW CASES AND VISITS TO SCABIES
TREATMENT BATH DURING 1950.

| New Cases | | Number of Visits | |
|-----------|-------|------------------|-------|
| M. | F. | M. | F. |
| 3,244 | 2,095 | 5,404 | 3,694 |

TABLE NO. 119. -HOSPITALS AND CLINICS FROM
WHICH PATIENTS WERE FORWARDED DURING 1950.

| District | Patients | |
|-----------------------|--------------|--------------|
| | M. | F. |
| Shubra Clinic | 1,678 | 1,700 |
| Sayeda Zeinab Clinic | 44 | 22 |
| Gamalia C. | 139 | 72 |
| Giza C. | 61 | 21 |
| Old Cairo C. | 3 | 5 |
| Abbassia | 157 | 15 |
| Boulaq Health Centre | 300 | 229 |
| Khalifa Clinic | 2 | 6 |
| Demerdash Hospital... | 4 | 5 |
| Malek Hospital | 18 | 4 |
| Cairo H. | 7 | 5 |
| School Hygiene Dept. | 16 | 9 |
| Other Units | 813 | 2 |
| TOTAL | 3,242 | 2,095 |

Chapter XII. — Mental Health

Accommodation and Cases Treated :

The crowding has become more evident so as to cause anxiety. The number of patients re-admitted in both hospitals during the year under report has also risen. This reflects the policy of discharging patients as soon as they improve which had to be adopted to make room for new admissions.

The number of patients remaining in both hospitals on 1/1/1950 was 5,483 (3,338 males and 2,145 females). Admissions numbered 3,906 cases (2,691 males and 1,215 females) bringing the total patients treated during the year to 9,389 (6,029 males and 3,360 females).

Discharges numbered 3,182 (2,209 males and 973 females). 3 males escaped and 369 died (201 males and 168 females) leaving 5,835 (3,616 males and 2,219 females) remaining on 31/12/1950 as against 5,483 (3,338 males and 2,145 females) in the year 1949.

Accommodation remained unchanged ; nor has any change taken place in the number of staff of all categories.

Accused Persons Suspected of Insanity :

Among the cases admitted to Abbassia hospital were 208 (192 males and 16 females) accused persons suspected of insanity sent by the Procurer General for examination and report. 46 males and 2 females were sent back to the parquet as not insane, 30 of whom were accused of theft or attempted theft and embezzlement, 7 of being in possession of narcotics, 6 of murder or attempted murder, and the remainder of different crimes.

Among those found insane, 21 were accused of murder or attempted murder, 42 of assault, 36 of theft and the rest of different crimes.

64 other reports were also sent to the Procurer General about inmates originally admitted as ordinary patients.

Discharges :

Among the discharges were 111 (88 males and 23 females) recovered, 2,559 (1,721 males and 838 females) relieved and 203 (102 males and 101 females) not improved. It is evident that the number of cases recovered is small in comparison with the total cases treated.

Deaths :

It is worth recording that the number of deaths was 201 males and 168 females i.e. 3.90%. This represents a very satisfactory ratio taking into consideration the prevailing conditions of over crowdedness, the shortage of staff and the physical condition of patients on admission.

Ages of Patients and Duration of Residence :

Ages varied between 10 and 90 years while the duration of residence ranged between less than a month and over 40 years.

Nationality, Religion and Occupation of Patients :

Patients from different nationalities, religions and occupations were admitted. They came from all parts of the Country and from the occupied territory of Palestine. Cairo Governorate came first followed by Alexandria and then Gharbia Province.

Pellagra :

1,064 males and 281 females suffering from pellagra were admitted. This represents 39.20% of admissions. The ratio in Khanka Hospital was proportionately very high as the majority of patients admitted to Abbassia Hospital come from the relatively well to do classes who can afford payment of treatment fees.

Ophthalmic and Dental Clinics :

Both clinics have rendered services worthy of mention for the welfare of patients.

Artificial Feeding :

This was carried out 18,744 times in Abbassia and 2,245 in Khanka without accident.

Epileptic Fits :

6,703 fits were recorded during the year in Abbassia and 3,501 in Khanka.

Physical Illness :

7,603 cases were treated in Abbassia and 4,598 in Khanka.

Accidents :

34 major accidents took place in Abbassia and 21 in Khanka.

Minor accidents numbered 551 in Abbassia and 295 in Khanka.

Pharmacy :

40,100 prescriptions were prepared in Abbassia and an almost equal number in Khanka.

X Ray Dept :

238 photos and 327 screenings were made. These were all made in Abbassia, as Khanka Hospital has no X Ray Apparatus.

Physical Condition of patients :

The ratio of those admitted in a poor physical condition in Abbassia was 17.11%
In Khanka this ratio was 47%.

Board of Control :

Both hospitals sent to the Board thousands of reports on new patients and those recommended for renewal of periods of detention. Thousands of other correspondence for the discharge and admission of patients were also sent.

Out-Patient Clinics :

These have rendered good services to attendants and have well served the purposes for which they were provided. More out-patient clinics are recommended. 414 cases were examined in King's Hospital clinic, 477 in Boulaq Hospital clinic and 4 in Abbassia Hospital.

Social Services :

The Department wishes to place on record the many valuable services rendered by the Social Services Section. Besides the activities of the two social workers in the two out-patient clinics, the supervision of the library and indoor games, films were shown and meetings were held in the two hospitals for the entertainment of the inmates.

Chapter XIII.—Health Education and Social Services

The year was marked by large scale propaganda activities in connection with the cerebro-spinal fever epidemic and the B.C.G. vaccination campaign.

With regard to the former, propaganda units were rushed to localities where cases were reported. All the available propaganda means were adopted to advise the inhabitants in methods of protection and the protective measures to be taken: notification, isolation and treatment. In this way, it was possible to isolate and suppress the disease in minimum time.

The following data illustrate the activities:

1. Some 50,000 pamphlets on cerebro spinal fever were published and distributed.
2. 20,000 posters were printed and distributed to towns and villages.
3. 15 talks by medical officers were broadcasted in addition to short advices during the news-bulletin.
4. Three representations dealing with the disease were broadcasted.
5. 22,340 lectures were delivered by propaganda units.
6. Assistance of preachers and Imams of mosques was sought to include their sermons advice to listeners.
7. Medical officers and staff of other ministries and departments contributed in propaganda activities against the disease.

B.C.G. Vaccination Campaign.

On the commencement of the B.C.G. vaccination campaign, propaganda activities were directed towards demonstrating the value of the vaccine and persuading the public to profit by it and to pay no attention to rumours against its presumed danger. Public Health Inspectorates were instructed to direct propaganda units at their disposal according to plan of operation of the vaccination teams. 3,490 villages were visited by propaganda units for the purpose. Out of 50,000 pamphlets on the importance of vaccination, 30,000 were distributed. 20,000 posters were printed for hanging in public places in towns and villages. 35 copies of each of two films were produced dealing with this campaign. These were shown by propaganda vehicles and in cinemas.

With the suppression of the cerebro spinal fever epidemic, propaganda units resumed their ordinary activities against infectious diseases. The following are details of these activities:

| | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-------|
| Daytime propaganda meetings | ... | ... | ... | ... | ... | ... | 4,864 |
| Evening ,, ,, | ... | ... | ... | ... | ... | ... | 3,771 |
| Propaganda meetings in markets | ... | ... | ... | ... | ... | ... | 937 |
| ,, ,, army and police barracks | ... | ... | ... | ... | ... | ... | 111 |
| ,, ,, schools... | ... | ... | ... | ... | ... | ... | 1,510 |
| ,, for workmen | ... | ... | ... | ... | ... | ... | 364 |
| ,, in cinemas | ... | ... | ... | ... | ... | ... | 917 |
| ,, ,, social centres | ... | ... | ... | ... | ... | ... | 781 |

Broadcasting:

Being one of the effective means of health propaganda, arrangements were made with the broadcasting authorities to allow more time and variation for health propaganda broadcasts. During the year, 61 talks on health were broadcasted by competent medical officers of the Ministry as well as 17 theatrical representations.

Literature :

This, too, plays a major rôle in propaganda activities. Two million and a half copies from 31 pamphlets and sermons dealing with health problems were printed and distributed. 1,500 copies from 24 illustrated posters presenting health advice were printed and distributed to health offices and units for hanging on walls in places frequented by the public. 20,000 copies from each of four booklets on rural health, individual health, parasites and care of mother and babe were also published. Illustrated calendars bearing health maxims were printed for 1951 for distribution on the new year.

Cooperation with other Sections of the Ministry :

1. Much propaganda activities were carried out during the health weeks held in connection with tuberculosis, nutrition, endemic diseases, cerebro spinal fever and flies and summer diseases.

2. During pilgrimage season, a propaganda vehicle was sent to Tor lazaret where 60 lectures were delivered on various diseases, 60 cinema shows given, 92 sermons and 20,000 propaganda publications distributed.

3. Extensive propaganda was carried out within Qaliubia Province urging the inhabitants to attend the units under the compulsory mass examination and treatment campaign against bilharzia.

Conferences :

(a) The Ministry assisted in the social seminar held in Turkey. An exhibition was organised in Constantinople. It was provided with models, posters, illustrations and all publications that reflect the health progress and health propaganda means in use in Egypt. Films were shown to the members and literature distributed.

(b) The Ministry also assisted in the social seminar held in Cairo where similar exhibitions as in the former seminar were displayed.

Cooperation with other Countries :

At the request of the Regional Office of the World Health Organization, the ministry displayed at the Constantinople meeting exhibitions of the health propaganda methods adopted in Egypt. All the various propaganda publications were also displayed. The ministry displayed its efforts in coordinating propaganda activities between government and private departments and institutions.

Most of the Middle East countries were supplied with quantities of propaganda literature. Syria and Lebanon ordered quantities of these publications. Propaganda vehicles have been equipped on the lines of those in use in Egypt and supplied to them.

Social Health Services :

The propaganda section has since last year become responsible for social health services rendered by the Ministry.

Welfare of Patients in Hospitals :

Following the success of the meetings held last year for the entertainment of hospital inmates, a sum of L.E. 1,500 was distributed to Cairo hospitals and provincial health inspectorates for the welfare and entertainment of patients.

The Social Health Services Office, Assiut :

1. Investigated 165 patients referred to it by general and district hospitals, child welfare centres, chest diseases dispensaries, ophthalmic hospitals, units of the Ministry of Social Affairs, and private societies.

Investigations carried out by the medical officer, social workers and health visitors revealed :

(a) 108 pregnant complained of frequent abortion or successive death of infants. Blood examination revealed syphilis infection. Of 55 of their husbands referred to the venereal diseases clinic, 41 were returned syphilitic and were provided with treatment facilities.

(b) 23 tuberculosis patients complained of social and financial difficulties. Arrangements were made with charitable societies to extend to them financial aid. Meals were issued to them from public kitchens.

(c) 12 patients required artificial limbs. The Hospital Day Society was requested to supply these.

(d) The remaining cases complained of more than one problem ; poverty, need for specific treatments, etc. These were forwarded to charitable societies for aid and to hospitals for treatment.

2. Health visitors paid visits to 284 houses to instruct mothers and pregnant in principles of hygiene and care of the babe and home.

3. Propaganda activities are now planned to meet the environmental requirements of the region as disclosed by investigations carried out by the office.

4. A health museum was set up where models were displayed. The various classes of the public were invited to visit it. 400 visits were paid to it by students, workmen, etc.

5. 23 meetings were held for the entertainment of patients in hospitals.

6. The office approached all government and private bodies having social and medical activities with a view to co-ordinating their efforts for the benefit of the inhabitants.

PART III—TREATMENT

Chapter XIV.—General Hospitals

Number of Hospitals :

The number of hospitals in operation during the year was 93 of which 22 were located in governorates and chief towns of provinces, 67 in district towns and four out-patient clinics.

Accommodation :

The total number of beds in hospitals was 8,573 including beds of ophthalmic and ancylostoma branches within hospitals, and 1,221 beds for resident medical and nursing personnel.

Treatment :

The number of in-patients treated during the year totalled 114,430 and the out-patients numbered 2,556,715 who paid 4,231,300 visits to hospitals.

Surgical Operations :

A total of 52,006 operations were performed in the in-patient sections and 95,749 in the out-patients as against 46,963 and 76,947 respectively in the previous year.

X-Rays Examination and Treatment :

Some 28,300 cases were examined and treated by X Rays as against 24,665 cases last year.

Deaths :

A total of 4,489 deaths were recorded among the 114,430 in-patients treated during the year. This gives a ratio of 3.92% as against 4.06% last year.

TABLE NO. 120.— NUMBER OF HOSPITALS OPERATED BY THE HOSPITALS
SECTION FROM 1940-1950.

| Year | General Hospitals in chief towns of Provinces and Governorates | Hospitals in Bandars of Markazes and important towns | Village Hospitals | Hospitals in the Oases | General diseases O.P. Dispensaries |
|-------------|--|--|-------------------|------------------------|------------------------------------|
| 1940 | 20 | 51 | 62 | — | 3 |
| 1941 | 20 | 52 | — | — | 3 |
| 1942 | 20 | 52 | — | — | 4 |
| 1943 | 26 | 52 | — | — | 3 |
| 1944 | 27 | 53 | — | — | 2 |
| 1945 | 27 | 53 | — | 6 | 2 |
| 1946 | 28 | 61 | — | 6 | 2 |
| 1947 | 28 | 56 | — | — | 4 |
| 1948 | 28 | 56 | — | — | 5 |
| 1949 | 29 | 56 | — | — | 5 |
| 1950 | 22 * | 67 | — | — | 4 |

* The title "General Hospital" is now restricted to hospitals in Governorates and chief towns of provinces, hence the difference in their number this year and the previous year

TABLE No. 121.—STATEMENT OF HOSPITAL ACCOMMODATION

| Year | No. of Beds | Comments |
|-------------|-------------|--|
| 1940 | 6,926 | In this year Venereal Diseases Hospitals were detached from the Section. |
| 1941 | 6,969 | In this year the Village hospitals were detached from the Section |
| 1942 | 6,880 | |
| 1943 | 6,363 | The Alexandria Hospital was detached this year. |
| 1944 | 6,553 | |
| 1945 | 6,663 | |
| 1946 | 7,014 | |
| 1947 | 6,879 | The Frontiers and Demerdash Hospitals were detached this year from the Section. |
| 1948 | 7,171 | |
| 1949 | 6,878 | The reduction of number of beds this year was due to the Helmieh Zeitoun Hospital being requisitioned by the Ministry of War and Marine. |
| 1950 | 8,573 | This number includes beds of Ophthalmic and Ancylostoma Branches within Hospitals. |

TABLE No 122.—DISTRIBUTION OF HOSPITAL BEDS

| Hospital | 1st Class | 2nd Class | 3rd Class Paying | 3rd Class Gratis | Ancylostoma branch | Ophth. branch | Total beds for patients | Resident M.Os. & Nurses | Grand Total |
|-------------------------------------|---|-----------|------------------|------------------|--------------------|---------------|-------------------------|-------------------------|-------------|
| King's | — | — | — | 346 | — | — | 346 | 109 | 455 |
| Helmiet-el-Zeitoun | Requisitioned by the Ministry of War & Marine | | | | | | | | |
| Boulaq | — | — | — | 32 | — | 6 | 38 | 32 | 70 |
| Incurable Diseases at Helwan | — | — | — | 170 | — | — | 170 | 128 | 298 |
| Bab el Shaaria | — | — | — | 136 | — | — | 136 | 34 | 170 |
| Port Said | 2 | 2 | 16 | 262 | — | — | 282 | 43 | 325 |
| Suez | 8 | 15 | — | 164 | 20 | 25 | 232 | 31 | 263 |
| Damietta | — | 2 | — | 88 | 20 | 37 | 147 | 13 | 160 |
| Damanhour | — | 4 | — | 94 | — | — | 98 | 15 | 113 |
| Tanta | 11 | 22 | — | 314 | 20 | — | 377 | 90 | 467 |
| Mansoura | — | — | — | 207 | 20 | — | 227 | 28 | 255 |
| Mit Ghamr | — | — | — | 47 | 20 | 12 | 79 | 11 | 94 |
| Zagazig | 1 | 3 | — | 220 | — | — | 224 | 20 | 248 |
| Shebin-el-Kom | — | 2 | — | 104 | — | — | 106 | 12 | 112 |
| Benha | — | — | — | 71 | — | — | 71 | 11 | 83 |
| Qaliub | — | — | — | 85 | — | — | 85 | 8 | 93 |
| Fayoum | — | — | — | 93 | — | — | 93 | 10 | 102 |
| Beni-Suef | — | — | — | 114 | 20 | — | 134 | 8 | 147 |
| Minia | — | 1 | — | 89 | — | — | 90 | 37 | 129 |
| Fikria | — | — | — | 28 | 20 | 13 | 61 | 8 | 6 |
| Maghagha | In-Patient department not yet started | | | | | | | | |
| Assiut | — | 4 | — | 192 | 20 | — | 216 | 17 | 233 |
| Mallawi | — | — | — | 48 | 20 | 20 | 88 | 14 | 102 |
| Soubag | — | 2 | — | 87 | — | — | 89 | 29 | 118 |
| Tahta | — | — | — | 33 | — | — | 33 | 5 | 38 |
| Qena | — | 1 | — | 74 | 20 | — | 65 | 12 | 107 |
| Luxor | 4 | 3 | — | 81 | 20 | 25 | 133 | 15 | 148 |
| Ezna | — | — | — | 68 | — | 23 | 91 | 14 | 105 |
| Aswan | 1 | 2 | — | 48 | 20 | 25 | 96 | 3 | 99 |
| Shubra-el-Kheima | — | — | — | 22 | — | — | 22 | 3 | 25 |
| Ismailia | — | 2 | — | 90 | 20 | 12 | 124 | 13 | 140 |
| Delingat | — | — | — | 29 | 20 | 12 | 61 | 1 | 68 |
| Kafr-el-Dawar | — | — | — | 108 | 20 | 12 | 140 | 11 | 151 |
| Itay el Baroud | In-Patient department not yet started | | | | | | | | |
| Rosetta | — | — | — | 29 | 20 | 12 | 61 | 8 | 69 |
| Shoubra-khit | — | — | — | 54 | 20 | 12 | 86 | 8 | 94 |
| Edfina | — | — | — | 44 | — | — | 44 | 6 | 50 |
| Kom Hamada | — | — | — | 29 | 20 | 11 | 60 | 9 | 69 |
| Mahmoudia | — | — | — | 21 | — | — | 21 | 4 | 25 |
| Abu Hommos | — | — | — | 27 | 20 | — | 47 | 7 | 54 |
| Desouk | — | — | — | 54 | 20 | 13 | 87 | 8 | 95 |
| Behout | In-Patient department not yet started | | | | | | | | |
| Mehalla-el-Kobra | — | — | — | 114 | 20 | — | 134 | 14 | 148 |
| Samanoud | — | — | — | 46 | — | 10 | 56 | 8 | 64 |
| Tayeba | — | — | — | 32 | 20 | 15 | 67 | 7 | 74 |
| Sherbin | — | — | — | 31 | 20 | 12 | 67 | 9 | 72 |
| Zifta | — | — | — | 45 | — | — | 45 | 11 | 56 |
| Kafr-el-Sheikh | — | 2 | — | 60 | — | — | 62 | 7 | 69 |
| Al Absheet Dispensary | Out-Patient dispensary | | | | | | | | |
| Fowa | — | — | — | 34 | 20 | 8 | 62 | 6 | 68 |
| Kafr-el-Zayat | — | — | — | 32 | — | 8 | 40 | 10 | 50 |
| Biala | In-Patient department not yet started | | | | | | | | |
| Faraskour | — | — | — | 31 | 20 | 8 | 59 | 7 | 66 |
| Simbellawein | — | — | — | 20 | 20 | 12 | 52 | 11 | 63 |
| Manzala | — | — | — | 41 | 20 | — | 61 | 11 | 72 |
| Aga | — | — | — | 44 | 20 | 8 | 72 | 7 | 79 |
| Dikrnes | — | — | — | 66 | 20 | 12 | 98 | 11 | 109 |

TABLE NO. 122 (contd.)

| Hospital | 1st Class | 2nd Class | 3rd Class Paying | 3rd Class Gratis | Ancylostoma branch | Ophth. | Total beds for patients | Resident M. Os & Nurses | Grand Total |
|---------------------------------------|-----------|-----------|------------------|------------------|--------------------|--------|-------------------------|-------------------------|-------------|
| Shawa Dispensary | | | | | | | | | |
| Out-Patient Dispensary | | | | | | | | | |
| Belbeis | — | — | — | 24 | 20 | 12 | 56 | 13 | 69 |
| Facous | — | — | — | 33 | 20 | 12 | 65 | 11 | 76 |
| Minia-el-Kamh | — | — | — | 32 | 20 | 8 | 60 | 10 | 70 |
| Hehya | | | | | | | | | |
| In-Patient Department not yet started | | | | | | | | | |
| Taftish-el-Wadi Clinic | | | | | | | | | |
| Out-Patient Dispensary | | | | | | | | | |
| Inshas | — | 2 | 2 | 29 | — | 20 | 53 | 11 | 64 |
| Tala | — | — | — | 30 | 20 | 12 | 62 | 7 | 69 |
| Ashmoun | — | — | — | 54 | 20 | 12 | 86 | 9 | 95 |
| Menouf | — | — | — | 60 | 20 | 16 | 96 | 11 | 107 |
| Zawyet el Na'outa | — | — | — | 33 | 20 | 14 | 67 | 9 | 76 |
| Shebin el Kanater | — | — | — | 27 | 20 | 12 | 59 | 10 | 69 |
| Saff | — | — | — | 31 | 20 | 12 | 63 | 7 | 70 |
| Ayat | — | — | — | 49 | 20 | 16 | 85 | 10 | 95 |
| Itsa | — | — | — | 19 | 20 | 12 | 51 | 5 | 65 |
| Westa | — | — | — | 13 | 20 | 12 | 45 | 8 | 53 |
| Beba | — | — | — | 35 | 20 | 12 | 67 | 10 | 77 |
| Beni-Mazar | — | — | — | 40 | 20 | 14 | 74 | 15 | 89 |
| Fasha | — | — | — | 26 | 20 | 12 | 58 | 8 | 66 |
| Semalcut | — | — | — | 71 | 20 | — | 91 | 10 | 101 |
| Deircut | — | — | — | 30 | 20 | 12 | 62 | 10 | 72 |
| Bidari | — | — | — | 27 | 20 | 10 | 57 | 7 | 64 |
| Sahel Selim | — | — | — | 27 | 20 | 8 | 55 | 7 | 62 |
| Manislout | — | — | — | 38 | — | — | 38 | 5 | 43 |
| Abu-tig | — | — | — | 36 | 20 | 12 | 68 | 9 | 77 |
| Akhmin | — | — | — | 31 | 20 | 12 | 63 | 4 | 67 |
| Bahana | — | — | — | 24 | 20 | 12 | 56 | 7 | 63 |
| Gerga | — | — | — | 50 | 20 | 12 | 82 | 9 | 91 |
| Dishna | — | — | — | 25 | 20 | 8 | 53 | 9 | 62 |
| Kous | — | — | — | 33 | 20 | 12 | 65 | 7 | 72 |
| Mata'ana Dispensary | | | | | | | | | |
| Out-Patient Dispensary | | | | | | | | | |
| Nag' Hamadi | — | — | — | 28 | 20 | 14 | 62 | 9 | 71 |
| Kom-Ombo | — | — | — | 25 | — | — | 25 | 4 | 29 |
| Edfou | — | — | — | 27 | 20 | 14 | 61 | 5 | 66 |
| Ineiba | — | — | — | 11 | — | — | 11 | 1 | 12 |
| Ibir Hospital Boat | — | — | — | — | — | — | — | — | — |
| GRAND TOTAL | 27 | 69 | 18 | 5,421 | 1,120 | 697 | 7,352 | 1,221 | 8,573 |

Treatment :

The following table No. 123 gives the number of patients treated in hospitals, during the last five years.

| Year | In patients | Outpatients | No. of visits to O.P. Depts. |
|-------------|-------------|-------------|------------------------------|
| 1946 | 103,496 | 2,285,035 | 3,920,413 |
| 1947 | 92,699 | 1,952,519 | 3,363,931 |
| 1948 | 99,092 | 2,165,007 | 3,520,316 |
| 1949 | 104,732 | 2,286,893 | 4,098,140 |
| 1950 | 114,430 | 2,556,715 | 4,231,300 |

Operations :

**TABLE NO. 124—OPERATIONS PERFORMED IN HOSPITALS
DURING THE LAST FIVE YEARS.**

| Year | Operations for in-patients | Operations for out-patients | TOTAL |
|-------------|----------------------------|-----------------------------|----------------|
| 1946 | 40,454 | 79,977 | 120,431 |
| 1947 | 39,346 | 74,326 | 113,672 |
| 1948 | 39,628 | 73,604 | 113,232 |
| 1949 | 46,963 | 76,947 | 123,910 |
| 1950 | 52,006 | 95,742 | 147,753 |

X-Ray Examinations :

**TABLE NO. 125—X RAY EXAMINATIONS UNDERTAKEN
DURING THE LAST FIVE YEARS.**

| Year | X Ray Examinations |
|-----------------|--------------------|
| 1946 ... | 29,309 |
| 1947 ... | 25,304 |
| 1948 ... | 27,248 |
| 1949 ... | 24,665 |
| 1950 ... | 28,300 |

Deaths.

**TABLE NO. 126.—IN PATIENTS TREATED AT HOSPITALS
AND NUMBER AND PERCENTAGE OF DEATHS AMONG THEM
DURING THE LAST FIVE YEARS**

| Year | Number of patients treated | Number of deaths | Percentage |
|--------------------|-------------------------------|---------------------|------------|
| 1946 | 103,496 | 3,453 | 3.3 |
| 1947 | 92,699 | 4,693 | 5.06 |
| 1948 | 99,092 | 3,723 | 3.75 |
| 1949 | 104,732 | 4,258 | 4.06 |
| 1950 | 114,430 | 4,489 | 3.92 |

Veneréa Diseases.

**TABLE NO. 127.—FEMALE PATIENTS TREATED IN
GENERAL AND DISTRICT HOSPITALS DURING 1950**

| Gonorrhoea | Syphilis | Other diseases | TOTAL |
|------------|----------|-------------------|------------|
| 213 | 300 | — | 513 |

**TABLE NO. 128.—TOTAL PATIENTS TRATED FOR V.D.
AT THE GEN. AND DISTRICT HOSPITALS
DURING THE YEAR 1950**

| | Gonorrhoea | Syphilis | TOTAL |
|------------------|------------|----------|---------------|
| In-patients ... | 2 | 366 | 368 |
| Out-patients ... | 4106 | 12,803 | 16,909 |

Chapter XV.—Ophthalmic Hospitals

New Units :

Branches : Behout - Teh El-Baroud - Sennouris.

| | | |
|--|------------|------------|
| This brings the total number of units to : | Permanent | 91 |
| | Travelling | 15 |
| | | 106 |

Clinical Work :

The following table shows the clinical work done during 1950 as compared with that of 1949.

Table No. 129

| | 1949 | 1950 |
|----------------------------------|-----------|-----------|
| New Patients | 1,287,666 | 1,445,921 |
| Out-patients | 5,436,740 | 5,658,972 |
| Number of out-patient visits ... | 6,774,156 | 7,201,525 |
| Operations | 207,190 | 210,773 |
| Ophthalmias | 305,140 | 313,064 |

Blindness :

The number of cases of blindness including cataract cases was 41,289 or a ratio of 2.7% of the total patients examined. While the number of cases of blindness excluding cataract cases was 38,792 or a ratio of 2.5%.

Other Services :

1. Ophthalmologists pay regular visits to the following institutions and hospitals to examine and treat ophthalmic cases :

- Leprosy Hospitals at Sioufia and Abu-Zaabal.
- Mental Diseases hospitals at Abbassia and Khanka
- Fever Hospitals at Abbassia and Embaba.
- Convalescents colony at Marg.
- Children's preventoria at Giza and Marg.
- Mataria Dispensary.
- Chronic Disease Hospital at Helwan.

2. From time to time, ophthalmologists are sent to Arish, Tor and the oases to examine the inhabitants and treat their eye diseases. Ophthalmologists also accompany the medical mission sent to the Hejaz during pilgrimage to treat pilgrims.

3. Medical officers of other ministries are allowed to attend ophthalmic hospitals to profit by modern technical researches and to be trained in the performance of the various ophthalmic operations.

4. Ophthalmic units of other ministries and departments are provided with ophthalmologists who have been technically trained in ophthalmic hospitals.

5. Assistant midwives and health visitors of rural health centres are trained in ophthalmic treatment so that they can render first aid to villagers and advise them in cases of ophthalmias, etc.

Nursing in ophthalmic Units :

The Ministry is pursuing its policy of replacing male attendants in ophthalmic units by nurses.

Accommodation :

The number of beds in ophthalmic units was 2,412. More beds are provided where space in in-patient sections permits.

Post Graduate Course :

Post graduate courses in ophthalmology are organised for fresh graduates studying for the Diploma in ophthalmic medicine and surgery at Cairo University.

Ophthalmic Library :

The circulating ophthalmic library, with its headquarters at Rod El Farag ophthalmic hospital, is constantly supplied with old and modern references for the benefit of junior ophthalmologists in ophthalmic units and to keep them acquainted with technical developments.

Apparatus and Instruments :

The Ministry keeps ophthalmic units provided with modern apparatus and instruments, thus keeping pace with new developments in the ophthalmic field.

Chapter XVI.—Pharmacies

Private Pharmacies :

45 permits for new private pharmacies were granted this year by the Ministry. Approval was given for the transfer of ownership of 23 pharmacies some of which were owned by non-pharmacists.

Night Service Pharmacies :

Four night service pharmacies were in operation this year as against two in the previous year. These dispensed 12,421 prescriptions, exclusive of patented medicines which are dispensed without prescriptions.

Agents :

21 permits for agents having depots and one for an agent without a depot were granted this year.

Registration of Egyptian Specialities :

91 permits were granted for the preparation of Egyptian specialities and 18 specialities were refused registration. This brings the total of registered specialities to 1,746

Pharmaceutical Laboratories :

Seven permits for pharmaceutical laboratories were granted this year.

Application of the law :

Out of 173 contraventions served this year, 101 were for trading in or being in possession of poisonous substances and drugs without permits ; 3 for practising pharmacy without a licence and 69 were against pharmacists and assistant pharmacists.

Poisonous Drug Stores (Schedules 1 and 2) :

Four permits were granted this year : (One in each of Gharbia, Menoufia, Damietta and Fayoum).

Schedule IV Drug Stores :

18 permits were granted : 9 in Cairo, 5 in Alexandria, 3 in Gharbia and one in Port-Said.

Schedule V Drug Stores :

Seven permits were granted : 4 in Cairo, 2 in Aswan and 1 in Alexandria. One in Cairo has since been withdrawn.

Schedule XI Drug Stores :

13 permits were granted : 3 in Assiut, 2 in each of Gharbia and Menoufia and one in each of Menoufia, Qaliubia, Dakahlia, Canal, Aswan and Minia.

Table No. 130 gives quantities of stupefacients imported into Egypt and exported therefrom during 1950.

TABLE NO. 130

| Drug | Quantity Imported | Quantity Exported |
|----------------------------|-------------------|-------------------|
| Opium and its preparations | 24.036 kgs. | — |
| Morphine and its salts | 2.174 " | — |
| Cocaine and its salts | 1.050 " | — |

Quantities of stupefacients confiscated for illicit import and export :

| | |
|-----------------|-------------|
| Opium | 3,680 kgs. |
| Cannabis Indica | 17,734 kgs. |
| Heroin | 636 grms. |
| Cocaine | 347 " |

Quantities of stupefacients consumed for medicinal purposes :

| | |
|----------------------------|-------------|
| Opium and its preparations | 24.676 kgs. |
| Morphine and its Salts | 1.652 " |
| Cocaine " " " | 0.640 grms. |

Chapter XVII.—Universities Hospitals

Manial University Hospital :

The accommodation remains unchanged as in the previous year, namely 1,449 beds.

In-Patients Department :

A total of 22,118 in-patients were admitted to the various departments during the year or 1,689 more patients than the preceding year. Of this number, 16,733, were discharged as cured, improved or at their own request as against 15,982 in 1949. 4,076 were transferred to the outpatients department for further treatment and 205 were referred to other hospitals. Deaths totalled 896 or a ratio of 4.1 per cent as against 718 deaths and a ratio of 4.2 per cent in 1949.

A new department has been provided in February 1950 in the hospital to accommodate cases involved in accidents. Of 480 cases admitted, 357 were cured and 94 died.

Out-Patients :

The out-patients totalled 916,945 (382,867 new and 534,078 old) or 17,016 out-patients more than the previous year when the out-patients consisted of 338,202 new and 561,727 old. A good feature is the decrease in out-patients suffering from tuberculosis, surgical, urinary, bone and dental diseases. Medical, nervous and tropical diseases cases are on the increase.

Diagnosis of in-patient medical diseases :

The following are details of the ten principal headings under which fall the diagnosis of medical diseases treated within the in-patient departments :

- (1) Respiratory system diseases numbered 2,180 (1,647 males and 533 females). 159 deaths or 7.3 per cent were recorded (124 males and 35 females).
- (2) Digestive system diseases numbered 2,185 (1,487 males and 698 females). 122 deaths or 5.6 per cent were recorded (98 males and 24 females).
- (3) Diseases of the Cardiovascular system numbered 3,552 (2,258 males and 1,294 females). 444 deaths or 12.5 per cent were recorded (308 males and 136 females).
- (4) Diseases of the Uro-genital organs numbered 878 (711 males and 167 females). 78 deaths or 8.9 per cent were recorded (66 males and 12 females).
- (5) Diseases of the central nervous system numbered 1,523 (1,124 males and 399 females). 91 deaths or 6 per cent were recorded (74 males and 17 females).
- (6) Diseases of the blood, lymphatics and spleen numbered 906 (652 males and 254 females). 64 deaths or 7.1 per cent were recorded (49 males and 15 females).
- (7) Diseases of the metabolism and endocrine glands numbered 617 (386 males and 231 females). 30 deaths were recorded (22 males and 8 females).
- (8) Diseases of the joints and bones numbered 459 (244 males and 215 females). Two deaths were recorded.
- (9) Infectious diseases and fevers numbered 107 (82 males and 25 females). Two male and three female deaths were recorded.
- (10) Miscellaneous diseases : ear, eye, obstetric, skin, etc., numbered 231 (152 males and 79 females). 31 deaths (25 males and 6 females) were recorded.

Kasr el Aini Hospital :

The number of beds is the same as last year, i.e. 1,250. Patients admitted to the hospital totalled 21,572 or 224 patients more than last year.

Casualty Cases :

A total of 4,045 casualty cases were admitted to Kasr el Aini Hospital during the year as against 5,158 in 1949. Of this number, 3,679 were discharged as cured and 376 died. Motor accidents accounted for 681 cases, falls, from heights and stairs, accounted for 1,331 cases. Tram accidents accounted for 238 cases. Burns and scalds accounted for 439 cases. Deaths among casualty cases were : 63 from motor cars, 35 from tram, 73 from falls and 151 from burns and scalds.

Discharges :

Of 19,999 patients discharged during the year, 12,329 were cured, 6,905 were referred to the out-patient department or other hospitals for further treatment. 765 died or 3.8 per cent. This is a satisfactory ratio if we remember that 376 of these deaths were casualty cases.

Surgical cases treated during the year totalled 14,785 (10,829 males and 3,956 females). Deaths totalled 1,135 or 7 per cent (826 males and 309 females).

ALEXANDRIA UNIVERSITY HOSPITALS

Central Hospital :

Accommodation :

202 beds were added this year, bringing the total accommodation to 817 beds or 32 beds more than its original strength before the establishment of the Faculty of Medicine.

In-patients :

The total number of in-patients treated during the year was 20,993 or 3,287 in patients more than the previous year.

Surgical and orthopaedic cases numbered 10,326 or almost half the in-patients; medical cases 4,883 and gynaecological and obstetric cases 3,477.

19,974 in-patients were discharged as cured, improved or at their own request. Deaths totalled 970 or 4.8 per cent (655 males and 315 females).

Diagnosis of medical diseases cases revealed that respiratory system diseases accounted for 486 cases, digestive system diseases for 288 ; cardiovascular system diseases for 710 cases ; urogenital system diseases for 62 cases ; central nervous system diseases for 404 cases ; diseases of the blood, lymphatics and spleen for 200 cases ; diseases of the metabolism and endocrine glands for 108 cases ; diseases of the joints and bones for 80 cases ; infectious diseases and fevers for 7 cases and sundry diseases for 413 cases. Deaths from medical diseases totalled 202 or 7.3 per cent (149 males and 53 females).

Surgical cases totalled 5,120 (3,718 males and 1,402 females). Deaths from surgical diseases were 256 or 5 per cent (182 males and 74 females).

Out-patients :

These totalled 742,542 (220,662 new and 521,880 old) as against 733,928 out patients in 1949 (232,303 new and 501,625 old). The ophthalmic department had the greater number of out-patients, i.e. 239,378 followed by the surgical department with 202,135 out-patients and the medical diseases department with 180,714 out-patients.

For more details, please refer to the Annual Report of the Universities Hospitals Department

PART IV.—ENDEMIC DISEASES

Chapter XVIII—Ancylostoma and Bilharzia Treatment

I. Statistical summary of treatment activities during the year.

The following table No.131 is a statistical summary of the treatment activities of the Endemic diseases units during 1950 as compared with the previous year:

1.—Out-patients Services :

TABLE No 131

| Item | Year | New patients | Bilharzia | | Ancylostoma | | Ascaris | | No. of injections to Bilh. Patz. | Anthelmintic Doses |
|-----------------------------------|------|--------------|-----------|----|-------------|-----|----------|------|----------------------------------|--------------------|
| | | | positive | % | Positive | % | Positive | % | | |
| Base Units | 1950 | 1,133,567 | 585,821 | 51 | 132,338 | 14 | 401,366 | 35 | 4,306,583 | 456,592 |
| | 1949 | 1,133,223 | 599,735 | 52 | 181,814 | 16 | 323,367 | 29 | 4,322,370 | 420,296 |
| Village treatment by branch units | 1950 | 5,699 | 3,864 | 68 | 522 | 9 | 3,647 | 66 | 30,380 | 2,685 |
| | 1949 | 10,702 | 2,815 | 26 | 225 | 2 | 1,717 | 16 | 20,495 | 1,247 |
| Mobile units | 1950 | 50,334 | 37,830 | 75 | 5,565 | 11 | 24,950 | 49.5 | 140,092 | 17,181 |
| | 1949 | 34,068 | 17,929 | 53 | 3,631 | 11 | 19,032 | 56 | 104,672 | 16,320 |
| Cooperative Centres | 1950 | 65,378 | 24,350 | 37 | 6,225 | 9.5 | 17,107 | 26 | 174,120 | 15,712 |
| | 1949 | 49,913 | 20,855 | 42 | 5,823 | 12 | 11,649 | 23 | 129,791 | 13,299 |
| School Pupils | 1950 | 30,378 | 9,897 | 33 | 617 | 2 | 3,212 | 11 | 53,756 | 3,244 |
| | 1949 | 21,138 | 7,481 | 35 | 285 | 2 | 1,755 | 8 | 45,346 | 1,414 |
| Army Recruits | 1950 | 4,910 | 2,525 | 51 | 1,307 | 27 | 1,498 | 31 | 26,887 | 2,423 |
| | 1949 | 9,113 | 4,384 | 48 | 1,640 | 18 | 2,206 | 24 | 40,511 | 3,573 |
| Workmen | 1950 | 22,498 | 8,511 | 33 | 2,509 | 11 | 7,810 | 35 | 64,993 | 9,375 |
| | 1949 | 16,354 | 7,730 | 47 | 858 | 5 | 11,130 | 61 | 61,496 | 10,382 |

Meals :

A total of 325,932 meals were distributed to anaemia and pellagra out-patients by the 100 units.

Certificates of Freedom From Parasites :

186,070 certificates of freedom from parasitic infection were issued to pupils and workmen. This does not include the large number issued to pupils by the School Health Service of the Ministry of Education.

2.—In-patients :

Of 21,265 in-patients treated during the year, 20,312 were cured and 953 improved as against 17,783, 17,069 and 714 respectively in 1949.

II.—*New activities started during the year:*

- (a) *New Units:* No new units were provided this year. The number of units remained the same, namely 101.
- (b) *New In-patient Sections:* Two 20-bed inpatient sections were provided in the Endemic Diseases units within Desouk and Nag Hamadi district hospitals and opened for treatment on September 10, 1950. This brings the number of in-patient sections to 99 accommodating 2,020 beds besides a 40-bed section in Tewfikia Endemic and Medical Diseases Hospital (Behera).
- (c) *Movement of Mobile units:* Light travelling and mobile units were transferred to other localities where they were needed most according to the incidence of endemic diseases among their populations.

III.—*New developments in the services:*

1.—*Extension of activities of units by:*

A.—*Village Bases:*

Since endemic diseases examination and treatment units cannot be substantially increased to cope with the large number of patients owing to lack of funds, it was decided to introduce the "village bases" method. A number of laboratory assistants assisted by an equal number of attendants are charged with the work in areas having a population from 5,000 to 10,000 (in one or two neighbouring villages). The laboratory assistant undertakes the recording, examination and treatment of the population under the supervision of the medical officer who visits the area at wide intervals when needed.

The procedure was adopted in villages of Qaliub District. The Ancylostoma Hospital at Qaliub was reinforced by 6 laboratory assistants and 6 attendants and the necessary equipment.

Thirteen villages were involved. The hospital medical officer paid weekly visits to the villages for clinical examination, administering anthelmintic doses and prescribing the doses of injections.

The number of new patients during 1950 was 68,015 as against 16,970 in 1949. The number of anthelmintic doses was 19,582 and the number of injections 171,942 as against 8,467 and 64,594 respectively in 1949.

Thus with an extra L.E.1,000 over the normal expenditures of Qaliub hospital, it was possible to increase its activities threefold by the new procedure.

The average increase of cost per patient was 1.5 milliemes not including cost of medicines. This is a record figure unparalleled elsewhere.

B.—*Treatment operations:*

These have been extended to 37 factories and firms. Of 22,492 workmen examined, 8,533 were positive for Bilharzia, 2,509 for Ancylostoma and 7,810 for ascaris. 68,383 Bilharzia injections and 9,442 anthelmintic doses were given.

2.—*Use of Stebophen in Bilharzia treatment:*

Stebophen was the drug of choice this year. It was used in the same way as Repodral.

3.—*In-Patients Sections:*

The modification of diet for amoebic dysentery in-patients has been authorised in certain units. During the first few days the in-patient is placed on milk diet with the substitution of the bread, milk, and meat with lemon, sugar cane or orange juice. About 3 days later when the patient improves, he is given ordinary diet, milk and nabatine being substituted by tea.

(b) Diets for anaemia and pellagra patients have been improved to include vitamin-rich foods, so as to produce 3,267 calories.

The results were satisfactory. The haemoglobin content has increased and the patient is cured within two weeks as against three or four weeks with ordinary diet.

4.—*Increasing free meals to out-patients :*

Owing to the great number of out-patients in Qena and Aswan provinces who suffer from anaemia and malnutrition, it has been decided to increase the number of free meals issued to out-patients from 10 to 20 meals daily.

IV.—*Progress of Ancylostoma and Bilharzia new Schemes :*

1.—*Bilharzia compulsory treatment Law :*

Since bilharzia patients are apt to cease treatment on the slightest improvement, and since medical services of other departments now exist in almost every area, a ministerial arrêté was issued in October 1950 for the application to all the country of Law No. 58 of 1941 — providing for the compulsory treatment of Bilharzia which was applied to Fayoum Province in 1943. Where no medical units existed, a mobile unit was sent for examination and treatment. Credits for 27 mobile units have been provided this year.

2.—*Cooperation with other medical services interested in Endemic Diseases treatment :*

Combined Bilharzia treatment at Qaliubia :

Reference was made to this experiment in last year's report. It was started on December 21, 1949 and stopped in mid June 1950. Results obtained during the six months were satisfactory as indicated hereafter.

The base ancylostoma units could not increase their output because their medical officers were occupied with the mobile units in addition to their original duties.

The number of patients treated by the other combined units increased as indicated by the increased number of injections to three times that of 1949 and the anthelmintic doses to five times their number in 1949.

A large proportion, 63.2 per cent, of bilharzia infected persons commenced treatment. With mobile units of the Ministry of Education this ratio was 93.9 per cent. Patients' attendance for treatment was also better. The average number of injections per patient was 10 as against 8 in the past. A credit of L.E. 25,000 has been allocated for the extension of the experiment to another province.

3.—*Certificate of Freedom from Parasitic Infection :*

- (a) Candidates for government daily paid service are now required to produce a certificate of freedom from parasitic infection with their documents of appointment.
- (b) Amendment of Law 73 of 1943 governing itinerant vendors has been proposed. No licences will be issued or renewed to itinerant vendors before they produce certificates of their freedom from parasitic infection.
- (c) Factories and private concerns have acceded to the ministry's request to insist on new workmen producing a certificate of freedom from parasitic infection before they take up appointments.

4.—*Results of the compulsory treatment at Talat Village, Fayoum :*

The Bilharzia Snail Destruction Section was asked to intensify its snail control activities in water courses within a radius of three kilometers around the village. The inhabitants were examined for bilharzia and all positive cases were treated. The inhabitants were re-examined after 3 months from treatment and positive cases were treated.

The first examination showed that out of 3,232 persons examined 1,842 were positive and 1,390 negative. Only 1,802 positive cases were treated.

The second examination revealed that of the 1,802 treated, 1,739 were re-examined and 372 or 21.4 per cent were positive for bilharzia. Of the 1,390 negative cases, 1,333 were re-examined and 82 or 6.1 per cent were found positive. 326 of the positive cases came for treatment.

Since 6.1 per cent of the negative cases on first examination became positive on second examination, negative cases were subjected to monthly examination. And since 21.4 per cent of the positive cases who had been treated and cured became positive again, positive cases have been subjected to three monthly examination to determine the extent of relapses and new infections.

New infections have been detected among children of not more than 4 years of age. It was decided to record births as from 1944 in special lists, each year separately and to examine each group once every year in January. This was done in 1948, 1949, and 1950. The ratios of infection were as follows :

| | | | | |
|------|----------|-----------|---|--------|
| 12.3 | per cent | at age of | 3 | years. |
| 39.6 | " | " | 4 | " |
| 58 | " | " | 5 | " |
| 86.8 | " | " | 6 | " |

Observations :

New Bilharzia infections :

Despite the intensified efforts of the Bilharzia Snail Destruction Section, new infections were continually detected :

- (a) Among cases found negative on first examination.
- (b) Among children and (c) Among children born after the campaign was started.

It was also observed that children contract the disease as early as at the age of two or as soon as they are able to walk.

The ratio of infection is higher among positive cases already treated than among negative cases. This may be due to special circumstances of the former that bring them in contact with contaminated water.

The ratio of infection is higher among younger age groups than among older.

Relapses :

Ratios of relapses were as high as 56 per cent. These occurred at prolonged intervals which emphasizes the futility of examinations carried out directly after treatment.

Incidence of Infection :

Bilharzia infection is scarce during winter and spring. This shows that the incidence is seasonal during Summer when the temperature is high, the water is low and the canals favour the breeding of snails.

Intensity of Infection :

Infection resumes its former intensity among positive cases within two years of treatment. The ratio of infection was almost 100 per cent at the age of six years. This shows the need for strict executive measures to protect children before reaching this age.

Drug Tests :

Mention was made in the 1947 report to the treatment of bilharzia with repodral injections on 10 successive days.

Reference was made in last year's report to the following tests :

- (a) Daily administration of tartar emetic instead of every other day.
- (b) Two-day treatment with repodral for in-patients.
- (c) Four-day treatment with repodral for out-patients.
- (d) Two-day treatment with tartar emetic for out-patients at Shubra Ancylostoma Hospital.

Since great caution needs be taken with short interval treatments and desiring that the results be based on sound foundation, it was decided to continue the experiments which were not completed before the end of the year.

Training :

The training centre of Fom el Khalig Ancylostoma Hospital continued to train new personnel of this Section and other medical services in examination and treatment techniques. During the year, 24 medical officers, 10 clerks and 65 laboratory assistants were trained. Besides, attendants of social centres of the Fellah Department of the Ministry of Social Affairs have been trained in laboratory preparation technique of specimens.

An auxiliary training centre was set up at Sayeda-Zeinab Ancylostoma clinic to meet the ever increasing number of candidates.

A laboratory assistant has been trained at the Research Institute for Tropical Diseases in the preparation of preserved specimens.

The Ancylostoma and Bilharzia inspectors have been asked to hold examinations for old laboratory assistants while inspecting the units to ensure that they have not forgotten the technical information they had received.

VI.—Prophylaxis :

Educational propaganda.

In addition to propaganda activities undertaken by the Ancylostoma and Propaganda units, the section took the following steps :—

- (a) A booklet on bilharzia was distributed to all elementary and compulsory education schools throughout the country, to preachers and the press.
- (b) Participation in the health week held in commemoration of the passing of 25 years since bilharzia control was launched.
- (c) Preachers from Damanhour, Zagazig and Cairo were lectured in endemic diseases so that they may spread the information among their listeners.
- (d) Lectures with cinema illustrations were given in Nokrashi Model School to raise the standard of health education among the pupils.
- (e) Army warrant officers were invited to attend lectures in endemic diseases control at Fom el Khalig Hospital for one week ; so that they can convey the information to their men.
- (f) Laboratory assistants and assistant nurses were instructed to include in their lectures to patients information about nutrition. The units were provided with pamphlets entitled " Proper methods of food preparation " and " Food as a source of infection " for the purpose.

Executive :

Since Law No. 58 of 1941 providing for the compulsory treatment of bilharzia has been applied to the whole country and in order to safeguard treatment activities, steps have been taken to issue a ministerial arrêté for the application to the whole country of Decree dated December 18, 1945, forbidding the pollution of water ways.

Chapter XIX.—Malaria

Two new malaria stations were set up during the year, one at Mit Ghamr, Dakahlia Province, and another at Ashmoun, Menoufia Province. The Egyptian territory is thus covered by 39 main stations and 75 branch stations. Control measures have been carried out on the same lines outlined in last year's report.

The malaria main stations are responsible for the control of breeding places in 322,700 feddans (acres), whereas the branch stations control 181,085 feddans; the total area is thus 503,785 feddans.

New Activities of Malaria Units :

These may be summed up in the following :

- (a) Undertaking a general microscopical examination of blood films for the whole population. This was started in July. The object is to obtain a true estimate of the incidence of malaria in every district and to detect and treat the largest possible number of malaria cases.
- (b) The substitution of clay balls soaked in 5 per cent DDT in malariol for plaster balls in the control of rice cultivations lying within half a kilometre from cities.
- (c) The substitution of a 5 per cent DDT suspension for DDT in kerosene in the spraying of public health units, etc.
- (d) Malaria warnings and contraventions concerning defective water systems of houses served by malaria stations and public health offices will henceforth be approved by the local public health inspectors. The malaria section will only be notified of judgments to arrange for their execution.

Results of blood film examination :

A total of 135,400 blood films collected from patients attending the various public health units and during the general survey were microscopically examined. Tables Nos. 135, 136 and 137 give their numbers and results for Upper and Lower Egypt and the whole of Egypt. Malaria units attached to Ancylostoma Hospitals are now 35 or 17 units more than last year (Table No. 140).

Table No. 139 shows the incidence of filaria in 1950 according to findings of the Research Institute.

Malaria incidence among infants under one year of age :

Table No. 141 shows the incidence of malaria among infants under one year of age in Upper and Lower Egypt in 1950 as compared with 1949. Malaria infections in this age group are considered new.

Types of Malaria :

Table No. 142 gives the incidence of the two types of malaria (Benign and Malignant) in Lower and Upper Egypt provinces and governorates having malaria stations, and percentage of each type to total positive cases.

Monthly distribution of Malaria :

Tables Nos. 143 and 144 give the monthly distribution of the various types of malaria in Lower and Upper Egypt.

Malaria Incidence in Governorates and Provinces :

Table No. 145 gives the number of malaria cases and deaths reported to the Statistical Department from governorates and provinces during 1949 and 1950.

Survey of Mosquito Breeding Places :

Mosquito breeding places were surveyed on the same lines as in previous years. Priority of disposal of breeding places is governed by malaria incidence. Breeding places are reported to the Ministry of Rural Affairs and other competent departments for disposal. Tables Nos. 146, 147 and 148 give the results of larvae survey carried out by malaria units. Distribution of larvae species is given in table No. 146 according to provinces and in tables Nos. 147 and 148 according to birkas in Lower and Upper Egypt. It will be observed that the predominant species is the *A. pharoensis*, the malaria carrier.

Malaria Control Activities :

Various modern control methods were employed. Table No. 149 gives the types, quantities and totals of insecticides used and areas controlled in Lower and Upper Egypt.

Warnings and Contraventions :

Besides the control work referred to above, malaria units served warnings and contraventions under malaria Law No. 1 of 1926 modified by Law No. 78 of 1946. Table No. 150 gives their distribution according to Lower and Upper Egypt.

Treatment and Drugs :

Treatment was given to patients returned positive for malaria by microscopic examination. The same course of treatment was given as in previous years. Table No. 151 gives quantities of the various drugs distributed by malaria units in Lower and Upper Egypt.

Application of Malaria Law :

No Ministerial arrêtés were issued during the year in connection with malaria Law No. 1 of 1926 modified by Law No. 78 of 1946.

Control of mosquitoes and flies in public health units :

A 5 per cent DDT and kerosene solution and 50 per cent DDT suspension were used for spraying hospitals and other public health units for the control of mosquitoes and flies. Table No. 152 gives details of hospitals and public health units sprayed, number of rooms in each and quantities of insecticides used in Lower and Upper Egypt.

Propaganda :

As in previous years, propaganda activities were conducted in conjunction with units of the health education and social services.

Complaints :

All complaints are dealt with and causes removed when possible.

The Principal Malaria Laboratory :

This laboratory undertakes the examination of such surplus blood films and samples of larvae and adult mosquitoes collected by the various units as can not be dealt with by the laboratory assistant of the unit, as well as samples collected by Cairo mosquito branch. Of a total of 17,276 blood films examined during this year, 235 were returned positive for malaria (158 benign and 77 malignant).

A total of 2,016 samples of larvae and adult mosquitoes were identified as follows :

| An. Pear. | An. Mult. | An. Serg. | An. Maur. | Culex Pipiens. | Culex Porix. | Theob. | An. Casp. | Culex Laur. | An. Latin. | An. Gambia | Total |
|--------------|--------------|--------------|--------------|-------------------|-----------------|--------|--------------|----------------|---------------|---------------|-------|
| 01 | 382 | 8 | 161 | 319 | 313 | 9 | 19 | 2 | 7 | 5 | 2,019 |

This laboratory is under the supervision of an agricultural engineer who attended a malaria course at Ein Shams mosquito research station. He is assisted by three laboratory assistants. It may be of interest to mention that the first sample of mosquito larva identified as *A. gambia* was identified by the laboratory on September 21, 1950. It was sent from Abu Sombol, Nubia.

Cairo Anti Mosquito Service :

This was conducted on the same lines as in previous years. The number of darakat (zones) was increased from 97 to 113, distributed over eleven areas. A count made of the houses in those sectors showed that of a total of 116,789 houses 30,979 were connected with the drainage system and 85,810 or 73 per cent drained in covered cesspits.

The work of the Cairo Anti Mosquito Service may be summed up as follows :

1.—*Mosquito Control in habitations :*

All houses draining in covered cesspits were sprayed with a DDT and malariol solution.

On July 30, 1950, houses in Maadi were sprayed with the DDT suspension prepared by Socony Vacuum Co. This was not so effective on the adult mosquito and therefore stopped as from November 2, 1950.

Some 311 complaints against mosquitoes in houses were received and dealt with.

2.—*Malaria Control in Agricultural Areas :*

Malaria gangs surveyed all water courses within their darakat for larvae. Malaria overseers sprayed breeding places with a 5 per cent DDT and Malariol solution, paris green or plaster balls soaked in DDT. State drains were cleared of weeds.

3.—*Sanitary Systems of Houses :*

Mosquito surveyers under sanitary technicians examined houses for defective water systems. Warnings were served on owners of houses for repairing their systems. Failure will entail prosecution and order given by the court to carry these repairs and costs debited to owners.

Of 2,928 malaria warnings served, 742 were fulfilled, 2065 were prosecuted and 121 are pending. It is worthy of mention that this year's high Nile flood caused the overflow of seepage water in 141 basements, 53 feddans of agricultural land, two burrow pits and an underground shelter. All cases were dealt with.

Malaria Incidence :

According to reports from Cairo City Health Department, a total of 509 new malaria cases were notified as against 607 in last year.

Here below are given the quantities of insecticides used during the year.

TABLE No. 132

| | Tons | Kgms | Gms | No. |
|------------------------|------|------|-----|-----|
| Malariol | 99 | 485 | 500 | — |
| Cooking gas oil | 25 | 250 | — | — |
| DDT Emulsiens | — | 10 | — | — |
| Paris Green | — | 1 | 450 | — |
| DDT in Kerosene... .. | — | 384 | — | — |
| DDT Balls | — | — | — | 84 |

The survey work of the Cairo anti mosquito service showed that the total number of the different species of larvæ amounted to 216, out of which 60 were *A. pharoensis*. One *A. multicolor*, 143 *Culex pipiens*, 2 *C. persagesus*, one *A. Aegypti* and 9 *Aedes caspius*.

The strength of the service is 4 supervisors, 13 controllers, 2 surveyors, 121 overseers, one foreman and 387 labourers under a medical officer. Clerical work is done by a clerk assisted by a few overseers.

Credit grants amounted to L.E. 39,000 as against L.E. 41,000 in the previous year. Actual expenditures amounted to L.E. 29,108.860.

Sanitary Engineering Service :

This service undertook the repair of sanitary systems of 83 houses in Cairo City the subject of final judgments under Law No. 1 of 1926 modified by Law No. 78 of 1946. The cost of the repairs amounted to L.E. 2,532 and were debited to the L.E. 3,000 allocated for the purpose.

The repairs were carried out under the supervision of three sanitary engineers assisted by three draughtsmen.

FAYOUM CAMPAIGN 1950

I.—Spray Painting :

During the period from January 1 until the end of September 1950, 32 darakat (zones) were spray painted. One of these darakat existed within Fayoum area, 13 within Sennouris area and 18 within Itsa area. These involved 348 villages and Ezbas having 27,039 houses with 134,325 rooms. A total of 1,440.650 Kgs of 5 per cent DDT suspension was used for the purpose. As from October 1, 1950, the campaign force was engaged in the gambiae campaign in Aswan. The relative increase in consumption is attributed to difficulty of mixing the B type of DDT suspension with water. This blocked the sprayers and re-painting had to be done with the "C" type which is easier to mix and use.

II.—Mosquito Survey Before Spray-Painting :

Of a total of 30,664 houses surveyed before spray painting in 366 darakat during the period from January until the end of September 1950, 2,301 houses harboured mosquitoes or a ratio of 7.5 per cent positive as against 8 per cent in the previous year.

III.—Mosquito Survey after Spray Painting :

Of 19,005 houses surveyed in 195 darakat after spray painting during the same period 216 houses were positive or the ratio of contamination fell to 1.5 per cent as against 6 per cent in the previous year.

IV.—Larvae Survey and Control :

Larvae control was carried out around Fayoum, Sennouris and Abshaway towns since spray painting was difficult owing to the large size of these towns. The larvicide used was a 5 per cent DDT in Malariol with the exception of a few darakat in Abshaway town where 1 per cent Paris Green in dust was used during January only.

Of 113,375 units surveyed, 564 were positive or a ratio of larvæ contamination of 0.4 per cent for the province as against 1.1 per cent in the previous year.

V.—Of 8,437 blood films collected during a general survey carried out between July 1, and end of December 1950, 20 new malaria infections and 5 relapses were detected or ratio of 0.29 per cent.

Among attendances at the malaria treatment units, 5.7 per cent were positive for malaria as against 11.8 per cent in the previous year.

VI.—Personnel and Expenditures :

The personnel engaged in the Fayoum malaria campaign comprised 95 overseers, 136 labourers, 2 supervisors, 10 controllers, 4 clerks, a storekeeper, a draughtsman, an orthographer, two laboratory assistants, 3 mechanics, an assistant mechanic, a tinker, 4 motor car drivers, an orderly and a messenger under an engineer for supervising field and office work.

Expenditures amounted to L.E. 29,281.637 of which L.E. 11,202.168 were expended on larvicides and L.E. 18,079.459 on wages and other petty expenses *e.g.* rents, telegraphs, repairs etc.

VII.—*The Campaign has met with some difficulties, namely :*

(a) *Means of Transport :*

The transport of personnel to sites of operation was the first difficulty encountered. The campaign was in need of seven vehicles. Only three were available and these often went out of order and work in distant places had to be stopped.

(b) Most of the sprayers in use were of the agricultural type and these have been in constant use for over four years, not taking into account the time they had been in use in the Ministry of Agriculture. Thus only one fourth of the number of sprayers was serviceable and this required repeated repairs and spare parts, all of which hindered progress. A great deficiency was felt in other equipment *e.g.* funnels, buckets, strainers, etc.

The Section anticipates remedying this state of affairs within limits of next year's available credits.

TABLE No. 133—CONTROL WORK BY SANITARY AIR SQUADRON CONTINUED DURING 1950 AS INDICATED BELOW;—

| Date | Beginning work | Terminating work | District | No. of sprayings | Hour | Min. | Hour | Min. | Oil in Gallons | D.D.T. in | | Area sprayed in acres | Total expenses: Fuel and Ins. L.E. Mills | Average cost spraying one acre once Mill. |
|-------|----------------|------------------|------------------------------|------------------|------|------|------|------|----------------|-------------------------|----------------------------|-----------------------|--|---|
| | | | | | | | | | | Veisicol 20% in Gallons | Cooking gas 15% in Gallons | | | |
| 7-1 | | 14-5 | Fayoum Auberg ... | 10 | 64 | 35 | 14 | 44 | 1,704 | 26 | 1,780 | 24,686 | 1,781.418 | 722 |
| 2-3 | | 7-3 | Zamalek, Gezira, Cairo ... | 4 | 3 | 35 | 1 | 28 | 128 | 3 | 179 | 2,504 | 170.443 | 68 |
| 18-3 | | 22-3 | Dekheila Aerodrome ... | 5 | 3 | 40 | 1 | 30 | 134 | 3.5 | 179 | 2,460 | 171.855 | 698 |
| 29-3 | | 29-3 | Ballah Aerodrome(Canal Zone) | 1 | 1 | 50 | — | 20 | 68 | 1 | 40 | 560 | 46.249 | 825 |
| 4-5 | | 4-5 | Kubba Palace Area ... | 1 | 1 | 10 | — | 26 | 39 | 1 | 53 | 728 | 50.733 | 696 |
| 4-5 | | 4-5 | Inshas Palace ... | 1 | 1 | 15 | — | 26 | 40 | 1 | 53 | 728 | 50.937 | 699 |
| 11-5 | | 11-5 | Heliopolis Aerodrome ... | 1 | — | 20 | — | 5 | 15 | — | 10 | 140 | 11.060 | 79 |
| 17-6 | | 10-10 | Ras-El-Tin Palace ... | — | 30 | 7 | 9 | 52 | 913 | 14 | 1,168 | 16,546 | 1,125.930 | 68 |
| 20-6 | | 29-7 | Kafr el Sheikh ... | 2 | 44 | 15 | 8 | 24 | 1,113 | 19.5 | 995 | 14,132 | 1,030.403 | 729 |
| 10-6 | | 30-7 | Dessouk ... | 4 | 28 | 35 | 9 | 15 | 845 | 11.5 | 15 | 15,532 | 315.660 | 203 |
| 25-7 | | 11-10 | Montazah Palace ... | — | 20 | 13 | 7 | 45 | 730 | 12 | 917 | 12,978 | 887.044 | 683 |
| 29-10 | | 10-12 | Zamalek, Gezira, Cairo ... | 8 | 9 | 50 | 5 | 13 | 414 | 6 | 622 | 8,776 | 584.318 | 665 |
| 5-11 | | 7-11 | Fay-um Auberg ... | 1 | 4 | 10 | — | 46 | 416 | 2 | 91 | 1,288 | 103.338 | 802 |
| | | | TOTAL ... | — | 213 | 35 | 60 | 14 | 6,289 | 160.5 | 6,102 | 101,058 | 6,329.388 | 626 |

**TABLE NO. 134—RESULTS OF LARVAE SURVEY IN DESSOUK LOCALITY FROM 19/6/1950
TO 3/8/1950 & KAFR-EL-SHEIKH LOCALITY (From 19/6/1950 to 6/8/1950)**

| Area | Divisions of area | Before Spraying | | | After Spraying | | |
|-------------------------|-------------------|----------------------|--------------|---------------|-----------------------|-----------------------|---------------|
| | | No.of units surveyed | No. Positive | Rate per cent | No. of units Surveyed | No. of units positive | Rate per cent |
| Dessouk locality | | | | | | | |
| A | Section 1, 2, 3 | 315 | 155 | 49.5 | 2,887 | 1,250 | 43.3 |
| B | „ 4, 5, 6, 7 | 931 | 228 | 24.47 | 11,081 | 1,138 | 10.26 |
| C | „ 8, 9, 10 | 75 | 34 | 45.3 | 1,055 | 509 | 48.2 |
| Kafr-El-Sheikh locality | | | | | | | |
| A | Section 1, 3, 5 | 352 | 21 | 5.9 | 1,320 | 74 | 5.6 |
| B | „ 2, 4, 6, 8 | 546 | 38 | 6.95 | 1,521 | 96 | 6.4 |
| C | „ 7, 9, 10 | 397 | 39 | 9.8 | 1,204 | 103 | 8.5 |

Credits of this Section, during the fiscal year 1950-1951, amounted to L.E. 120,000. The execution of sanitary measures in certain houses was L.E. 3,000. Cairo Anti malarial campaign was L.E. 39,000.

The actual expenditures during the year were as follows:—

| | L.E. | Mills |
|--|-----------------|------------|
| (a) General Control | 74,631. | 370 |
| (b) Fayoum Campaign | 12,181. | 270 |
| (c) Control by Aircraft | 9,065. | 423 |
| (d) Cairo Anti malarial campaign | 29,108. | 860 |
| (e) Execution of Sanitary Measures in certain houses of Cairo. | 2,692. | 315 |
| TOTAL | 127,679. | 238 |
| Administrative Service and Malaria Units | 40,582. | 110 |
| TOTAL | 168,261. | 348 |

N.B.—High cost of living bonus is excluded.

**TABLE No. 135.—DISTRIBUTION OF BLOOD FILMS EXAMINED FOR LOWER EGYPT
AND CANAL AND SUEZ GOVERNORATES DURING 1950**

| Category | No of Specimens | Positive | | | Rate per cent |
|---|--------------------|----------|----------|--------------|---------------|
| | | New | Relapses | TOTAL | |
| A. Attendance at malaria units and ancylostoma hospitals ... | 5,584 | 49 | 597 | 646 | 11.5 |
| B. General Survey | 81,109 | 689 | 1,170 | 1,859 | 2.2 |

**TABLE No. 136.—DISTRIBUTION OF BLOOD FILMS EXAMINED FOR UPPER EGYPT
AND THE SOUTHERN AND WESTERN DESERT GOVERNORATES DURING 1950**

| Category | No of Specimens | Positive | | | Rate per cent |
|---|--------------------|----------|----------|------------|---------------|
| | | New | Relapses | TOTAL | |
| A. Attendance at malaria units and ancylostoma hospitals ... | 3,500 | — | 585 | 585 | 16.7 |
| B. General Survey | 45,207 | 72 | 718 | 790 | 1.7 |

**TABLE No. 137.—DISTRIBUTION OF BLOOD FILMS EXAMINED FOR
MALARIA IN EGYPT DURING 1950**

| Category | No of Specimens | Positive | | | Rate per cent |
|---|--------------------|----------|----------|--------------|---------------|
| | | New | Relapses | TOTAL | |
| A. Attendance at malaria units and ancylostoma hospitals ... | 9,084 | 49 | 1,182 | 1,231 | 13.55 |
| B. General Survey | 126,316 | 761 | 1'888 | 2,649 | 2.0 |

**TABLE NO. 138. —NUMBER OF SPECIMENS EXAMINED FOR MALARIA BY RESEARCH
INSTITUTE DURING 1950**

| Category | No. of Blood specimens | Positive Malaria | | | Total positive | Rate per cent |
|---|------------------------------|------------------|-----------|--------------------|-------------------|------------------|
| | | Benign | Malignant | Mixed infection | | |
| Specimens from Malaria Stations & Out-Posts | 6,989 | 6 | 1 | — | 7 | 0.1 |
| Specimens from Hospitals | 219 | 46 | 18 | — | 64 | 28.7 |
| „ „ Ancylostoma units | 298 | 24 | 4 | — | 28 | 9.4 |
| Total | 7,506 | 76 | 23 | — | 99 | 1.3 |

**TABLE NO. 139. — DISTRIBUTION OF BLOOD FILMS EXAMINED FOR FILARIASIS BY
RESEARCH INSTITUTE DURING 1950**

| Province or Governorate | Locality | No. of Specimens | Positive Filaria | Rate Per cent | Remarks |
|----------------------------|-------------------------------|---------------------|------------------|---------------|----------|
| Qena | Qena | 969 | — | — | — |
| | Nag Hammadi | 46 | — | — | — |
| Minia | Minia | 208 | — | — | — |
| Beni Suef ... | Beni Suef | 30 | — | — | — |
| Sharkia ... | Abu-Kebir | 116 | 14 | 12.0 | — |
| Qaliubia ... | Qaliub... .. | 1 | — | — | — |
| Fouadia ... | Kafr El Sheikh... .. | 81 | — | — | — |
| Cairo | Research Institute | 30 | 13 | 43.3 | — |
| Giza | Filariasis at Pyramids | 22,503 | 457 | 2.0 | — |
| Canal | Ismailia | 147 | — | — | — |
| TOTAL... .. | | 24,131 | 484 | 2.0 | — |

TABLE NO. 140.—MALARIA UNITS ATTACHED TO ANCYLOSTOMA HOSPITALS AND PATIENTS
ATTENDING FOR THEIR BLOOD-EXAMINATION DURING 1950 AND POSITIVE RESULTS.

| Locality of Unit | No. Examined | Positives | Rate % | B.T. | | Mal. T | | Q. M. | |
|-----------------------|-----------------|-----------|-----------|--------------|---------|--------------|---------|--------------|---------|
| | | | | New Cases | Relaps. | New Cases | Relaps. | New Cases | Relaps. |
| Ismailia | 361 | 76 | 21.05 | 56 | 20 | — | — | — | — |
| Suez... .. | 859 | 4 | 0.4 | 3 | 1 | — | — | — | — |
| Kafr El Dawar | 1,873 | 29 | 1.5 | 11 | 16 | — | 2 | — | — |
| Damanhour | 1,875 | 78 | 4.16 | 34 | 27 | 12 | 5 | — | — |
| Fowa | 2,290 | 1,184 | 51.7 | 1 | 435 | — | 748 | — | — |
| Kafr El Sheikh | 3,180 | 1,592 | 50 | 86 | 1,489 | — | 17 | — | — |
| Dessouk | 3,132 | 1,828 | 58.3 | 100 | 1,662 | 1 | 65 | — | — |
| Biala | 1,590 | 173 | 14 | 2 | 168 | 2 | 1 | — | — |
| Mahalla Kobra | 405 | 126 | 31.1 | 86 | 38 | 2 | — | — | — |
| Belkas | 271 | 107 | 39.4 | 61 | 46 | — | — | — | — |
| Tanta | 489 | 43 | 8.7 | 5 | 30 | — | 8 | — | — |
| Faraskour | 2,906 | 852 | 29.3 | 817 | 28 | 5 | 2 | — | — |
| Dekernis... .. | 2,157 | 343 | 15.9 | 17 | 322 | — | 4 | — | — |
| Damietta | 961 | 312 | 32.5 | 276 | 36 | — | — | — | — |
| Mansoura | 672 | 16 | 2.4 | 11 | 5 | — | — | — | — |
| Mit Ghamr | 1,455 | 175 | 8 | — | 175 | — | — | — | — |
| Aga | 657 | 48 | 7.3 | 43 | — | 5 | — | — | — |
| Shebin El Kom | 706 | 100 | 7 | — | 98 | — | 2 | — | — |
| Ashmoun | 2,263 | 7 | 0.3 | 2 | 5 | — | — | — | — |
| Abu Kebir | 3,797 | 1,398 | 36.8 | 730 | 556 | 31 | 81 | — | — |
| Belbeis | 2,503 | 539 | 21.1 | 31 | 419 | 1 | 88 | — | — |
| Zagazig | 979 | 284 | 29 | 36 | 223 | — | 25 | — | — |
| Fakous | 529 | 119 | 22.5 | 91 | 22 | 2 | 4 | — | — |
| Toukh | 4,328 | 1,522 | 35.1 | 1 | 1,152 | — | 369 | — | — |
| Qaliub | 777 | 88 | 11.3 | 3 | 38 | 1 | 46 | — | — |
| Benha | 689 | 82 | 11.9 | 11 | 66 | — | 5 | — | — |
| Fayoum | 551 | 46 | 8.3 | 15 | 28 | 1 | 2 | — | — |
| Abshaway | 3,626 | 194 | 5.3 | 5 | 178 | 1 | 10 | — | — |
| Beni Suef | 678 | 58 | 8.5 | 19 | 16 | — | 23 | — | — |
| Minia | 978 | 295 | 29.8 | 227 | 63 | 3 | 2 | — | — |
| Assiut | 153 | 38 | 24.8 | 34 | 4 | — | — | — | — |
| Souhag | 183 | 12 | 6.55 | 3 | 9 | — | — | — | — |
| Nag Hammadi | 172 | 44 | 2.55 | 5 | 39 | — | — | — | — |
| Qena | 3,126 | 30 | 1 | — | 22 | — | — | — | 8 |
| Aswan | 207 | — | — | — | — | — | — | — | — |
| TOTAL | 51,387 | 11,872 | 23.05 | 2,822 | 7,436 | 67 | 1,509 | — | 8 |

**TABLE NO. 141—MALARIA INCIDENCE AMONG INFANTS UNDER ONE YEAR OF AGE
IN LOWER AND UPPER EGYPT, 1949 AND 1950**

| Province or Governorate | Name of Station | 1950 | | | 1949 | | |
|----------------------------|-------------------|---|----------|------------------|---|----------|------------------|
| | | No. of Children examined for Malaria | Positive | Rate per cent | No. of Children examined for Malaria | Positive | Rate per cent |
| Behera... .. | Idku | 210 | 42 | 20 | 80 | 1 | 1.2 |
| | Kafr El Dawar ... | — | — | 60 | 60 | — | — |
| Gharbia | Biala | 49 | 19 | 39.3 | 14 | 2 | 18.1 |
| | Mehalla Kobra ... | 40 | 11 | 27 | 9 | — | — |
| | Belkas | — | — | — | 20 | 1 | 5 |
| Dakahlia | Dekernis... .. | 56 | 35 | 62.6 | — | — | — |
| Canal | Ismailia | 216 | — | — | 371 | — | — |
| | Suez... .. | — | — | — | 2 | — | — |
| Sharkia | Belbeis | 3,114 | 1,149 | 37 | 13 | 4 | 30.7 |
| | Abu Kebir | 422 | 119 | 28.1 | — | — | — |
| | Inshas | 19 | 8 | 42 | — | — | — |
| | Zagazig | — | — | — | 147 | 1 | 0.6 |
| Menoufia | Ashmoun | — | — | — | 115 | 1 | 0.9 |
| Qaliubia | Toukh | 100 | 10 | 10 | — | — | — |
| | Qaliub | — | — | — | 8 | 1 | 12.5 |
| Giza | Giza... .. | 3 | — | — | — | — | — |
| Fayoum | Fayoum | 4 | — | — | — | — | — |
| | Abshaway | 610 | 114 | 18.6 | 72 | 3 | 4.1 |
| Qena | Qena | 2 | 2 | 100 | — | — | — |
| Aswan... .. | Aswan | 1 | 1 | 100 | — | — | — |
| Kharga Oases ... | Kharga Oases ... | 45 | — | — | 67 | — | — |
| GRAND TOTAL ... | | 4,891 | 1,510 | 30.8 | 978 | 14 | 1.4 |

TABLE No. 142.— DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES DURING 1950

| Province or Governorate | Total of specimens | Total of positive cases | Rate per cent | Benign Tertian | | | Malignant Tertian | | | | |
|---|--------------------|-------------------------|---------------|----------------|-----|--------|-------------------|-----|-----|--------|---------------|
| | | | | No. | New | Relap. | Rate per cent | No. | New | Relap. | Rate per cent |
| Lower Egypt and Canal Governorates | | | | | | | | | | | |
| Canal ... | 9,624 | 228 | 2.36 | 227 | 194 | 33 | 99.5 | 1 | 1 | — | 0.5 |
| Western Desert... | 4,654 | 85 | 1.82 | 35 | — | 35 | 41.17 | 50 | 1 | 49 | 58.83 |
| Behera... | 13,803 | 671 | 4.71 | 639 | 46 | 593 | 95.23 | 32 | 17 | 15 | 4.77 |
| Gharbia ... | 7,173 | 149 | 2.07 | 148 | 136 | 12 | 99.5 | 1 | 1 | — | 0.5 |
| Fouadia ... | 9,276 | 105 | 1.13 | 101 | — | 101 | 95.23 | 3 | — | 3 | 2.85 |
| Dakahlia ... | 13,136 | 399 | 3.03 | 399 | 101 | 298 | 100 | — | — | — | — |
| Sharkia ... | 16,889 | 704 | 4.16 | 623 | 189 | 434 | 88.43 | 81 | 15 | 66 | 11.57 |
| Menoufia ... | 5,354 | 37 | 0.69 | 37 | 2 | 35 | 100 | — | — | — | — |
| Qaliubia ... | 6,784 | 127 | 1.87 | 75 | 17 | 58 | 59.05 | 52 | 18 | 34 | 40.95 |
| TOTAL ... | 86,693 | 2,505 | 2.88 | 2,284 | 685 | 1,599 | 91.17 | 220 | 53 | 167 | 6.91 |
| Upper Egypt and the Southern Desert Governorate | | | | | | | | | | | |
| Southern Desert | 5,344 | 53 | 1 | 53 | 10 | 43 | 100 | — | — | — | — |
| Giza ... | 7,162 | 1038 | 14.4 | 905 | — | 905 | 87 | 133 | — | 133 | 13 |
| Fayoum ... | 8,352 | 26 | 0.31 | 23 | 18 | 5 | 88 | 3 | 2 | 1 | 12 |
| Beni Suef ... | 4,133 | 41 | 0.99 | 20 | 9 | 11 | 48.8 | 21 | 13 | 8 | 51.2 |
| Minia ... | 1,863 | 49 | 2.0 | 43 | 14 | 29 | 87 | 6 | 6 | — | 13 |
| Assiut ... | 3,674 | 7 | 0.19 | 7 | — | 7 | 100 | — | — | — | — |
| Gerga ... | 2,186 | 2 | 0.09 | 2 | — | 2 | 100 | — | — | — | — |
| Qena ... | 12,232 | 159 | 1.3 | 159 | — | 159 | 100 | — | — | — | — |
| Aswan ... | 3,761 | — | — | — | — | — | — | — | — | — | — |
| TOTAL ... | 48,707 | 1,375 | 2.8 | 1,212 | 51 | 1,161 | 88.1 | 163 | 21 | 142 | 11.9 |

TABLE NO. 143—MONTHLY DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES IN LOWER EGYPT THE CANAL, AND WESTERN DESERT GOVERNORATES DURING 1950

| Months | Total of Specimens | Total of Positive Cases | Rate % | Benign Tertian | | | | Malignant Tertian | | | | Quartan Malaria | | | | Remarks |
|------------------|--------------------|-------------------------|--------|----------------|-----|----------|------|-------------------|-----|----------|------|-----------------|-----|----------|-------|---------|
| | | | | No. | New | Relapses | % | No. | New | Relapses | % | No. | New | Relapses | % | |
| January | 462 | 38 | 8.2 | 25 | 6 | 19 | 5.4 | 13 | — | 13 | 2.8 | — | — | — | — | |
| February | 439 | 50 | 11.3 | 49 | 1 | 48 | 11.1 | 1 | — | 1 | 0.2 | — | — | — | — | |
| March | 1,098 | 43 | 3.8 | 43 | — | 43 | 3.8 | — | — | — | — | — | — | — | — | |
| April | 1,034 | 54 | 5.2 | 54 | 1 | 53 | 5.2 | — | — | — | — | — | — | — | — | |
| May | 1,282 | 27 | 2.1 | 27 | 5 | 22 | 2.1 | — | — | — | — | — | — | — | — | |
| June | 955 | 23 | 2.3 | 23 | 3 | 20 | 2.4 | — | — | — | — | — | — | — | — | |
| July | 7,233 | 235 | 3.2 | 232 | 61 | 171 | 3.2 | 3 | — | 3 | 0.04 | — | — | — | — | |
| August | 16,646 | 584 | 3.4 | 562 | 146 | 366 | 3.3 | 21 | 12 | 9 | 0.1 | 1 | — | 1 | 0.003 | |
| September | 13,598 | 366 | 2.7 | 345 | 113 | 232 | 2.5 | 21 | 4 | 17 | 0.1 | — | — | — | — | |
| October | 14,884 | 468 | 3.2 | 407 | 113 | 294 | 2.7 | 61 | 15 | 46 | 0.04 | — | — | — | — | |
| November | 14,622 | 375 | 2.5 | 311 | 102 | 209 | 2.1 | 64 | 12 | 52 | 0.04 | — | — | — | — | |
| December | 14,440 | 242 | 1.8 | 206 | 84 | 122 | 1.4 | 36 | 10 | 26 | 0.02 | — | — | — | — | |
| TOTAL | 86,693 | 2,505 | 2.8 | 2,284 | 685 | 1,599 | 2.6 | 220 | 53 | 167 | 0.02 | 1 | — | 1 | 0.001 | |

TABLE No. 144.— MONTHLY DISTRIBUTION OF MALARIA CASES ACCORDING TO TYPES IN UPPER EGYPT AND FRONTIER GOVERNORATES DURING 1950

| Months | Total of Specimens | Total of Positive Cases | % | BENIGN TERTIAN | | | | MALIGNANT TERTIAN | | | | REMARKS |
|-------------|--------------------|-------------------------|------|----------------|-----|----------|------|-------------------|-----|----------|-----|---------|
| | | | | No. | New | Relapses | % | No. | New | Relapses | % | |
| January ... | 905 | 12 | 1.3 | 9 | — | 9 | 1 | 3 | — | 3 | 0.3 | |
| February... | 483 | 9 | 1.7 | 8 | — | 8 | 1.6 | 1 | — | 1 | 0.1 | |
| March ... | 673 | 14 | 2.08 | 13 | — | 13 | 1.9 | 1 | — | 1 | 0.1 | |
| April ... | 1,076 | 25 | 2.3 | 24 | — | 24 | 2.2 | 1 | — | 1 | 0.1 | |
| May ... | 1,206 | 66 | 5.4 | 66 | 2 | 64 | 5.4 | — | — | — | — | |
| June ... | 1,031 | 114 | 11.0 | 111 | — | 111 | 10.7 | 3 | — | 3 | 0.4 | |
| July ... | 3,994 | 190 | 4.7 | 186 | — | 186 | 4.6 | 4 | — | 4 | 0.1 | |
| August ... | 11,058 | 289 | 2.6 | 271 | 14 | 257 | 2.4 | 18 | 4 | 14 | 0.2 | |
| September | 6,504 | 145 | 2.2 | 136 | 7 | 129 | 2.0 | 9 | 1 | 8 | 0.2 | |
| October ... | 7,745 | 262 | 3.3 | 196 | 8 | 188 | 2.5 | 66 | 2 | 64 | 0.8 | |
| November | 7,434 | 181 | 2.4 | 136 | 14 | 122 | 1.8 | 45 | 6 | 39 | 0.6 | |
| December | 6,598 | 68 | 1.0 | 56 | 6 | 50 | 0.8 | 12 | 8 | 4 | 0.2 | |
| TOTAL ... | 48,707 | 1,375 | 2.8 | 1,212 | 51 | 1,161 | 2.5 | 163 | 21 | 142 | 0.3 | |

TABLE No. 145.— NUMBER OF MALARIA CASES AND DEATHS
NOTIFIED DURING THE YEARS 1949 AND 1950

| PROVINCE OR GOVERNORATE | New Cases | | | | | | Relapses 1950 | |
|----------------------------|--------------|-----------|--------------|-----------|---------------|------------|------------------|--------------|
| | 1949 | | 1950 | | Difference | | Cases | Deaths |
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | | |
| Cairo | 607 | 3 | 509 | 4 | — 98 | + 1 | 34 | 8 |
| Alexandria | 204 | 1 | 91 | 1 | —113 | — | — | — |
| Other Governorates | 201 | 3 | 307 | — | +106 | — 3 | 10 | 6 |
| Behera Province ... | 30 | — | 188 | 3 | +158 | + 3 | — | 7 |
| Dakahlia „ ... | 107 | 1 | 271 | 1 | +164 | — | 6 | 7 |
| Gharbia „ ... | 575 | 3 | 129 | 1 | —446 | — 2 | 599 | — |
| Fouadia „ ... | — | — | 182 | 1 | — | — | — | 1,291 |
| Menoufia „ ... | 87 | — | 26 | 3 | — 61 | + 3 | 36 | 84 |
| Sharkia „ ... | 110 | 1 | 935 | — | +825 | — 1 | 16 | 31 |
| Qaliubia „ ... | 230 | 1 | 418 | — | +188 | — 1 | 16 | 33 |
| Giza „ ... | 250 | 3 | 254 | 1 | + 4 | — 2 | — | 1 |
| Fayoum „ ... | 82 | — | 60 | — | — 22 | — | 611 | 154 |
| Beni-Suef „ .. | 50 | — | 239 | — | +189 | — | 6 | 1 |
| Minia „ ... | 229 | — | 515 | — | +286 | — | 18 | 5 |
| Assiut „ ... | 32 | — | 71 | — | + 39 | — | — | 1 |
| Gerga „ ... | 7 | — | 12 | — | + 5 | — | — | — |
| Qena „ ... | 13 | 1 | 48 | — | + 35 | — 1 | 25 | 16 |
| Aswan „ ... | 4 | — | — | — | — 4 | — | 15 | — |
| TOTAL | 2,818 | 17 | 4,255 | 15 | +1,437 | — 2 | 1,312 | 1,645 |

TABLE NO. 146.—DISTRIBUTION OF ANOPHELES LARVAE EXAMINED BY PRINCIPAL STATIONS
IN LOWER AND UPPER EGYPT DURING 1959

| Province or Governorate | No of Anopheles | Anopheles Species | | | |
|-----------------------------------|-----------------|-------------------|-----------|-----------|------------|
| | | Pharoen | Mult | Sergenti | Mauri. |
| Canal | 364 | 236 | — | 3 | 125 |
| Baharia Oases | 53 | 4 | 45 | 4 | — |
| Behera | 232 | 232 | — | — | — |
| Fouadia | 1801 | 1760 | 3 | 1 | 37 |
| Gharbia | 215 | 208 | 1 | 1 | 5 |
| Dakahlia | 220 | 214 | — | — | (|
| Menoufia | 40 | 39 | 1 | — | — |
| Sharkia | 338 | 323 | 1 | 1 | 13 |
| Qaliubia | 46 | 44 | 1 | — | 1 |
| TOTAL : Lower Egypt | 3,309 | 3,060 | 52 | 10 | 187 |
| Giza | 54 | 54 | — | — | — |
| Beni Suef | 81 | 80 | — | — | 1 |
| Minia | 480 | 480 | — | — | — |
| Assiut | 111 | 111 | — | — | — |
| Gerga | 205 | 205 | — | — | — |
| Qena | 254 | 252 | 1 | — | 1 |
| Aswan... .. | 60 | 51 | 8 | — | 1 |
| Southern Desert | 156 | 142 | 14 | — | — |
| TOTAL : Upper Egypt | 1,401 | 1,375 | 23 | — | 3 |

TABLE No. 147.—NUMBER OF VILLAGES SURVEYED AND BIRKAS FOUND HARBOURING LARVAE OF ANOPHELES, AND CULEX PIPIENS IN LOWER EGYPT AND CANAL GOVERNORATES DURING THE YEAR 1950

| Province or Governorate | Malaria Station | No. of Villages surveyed | No. of Birkas examined | Positive for Larvae | | Birkas harbouring Anopheles Larvae | | | | | | | | Birkas Harbouring Culex Pipiens | |
|-------------------------|--|--------------------------|------------------------|---------------------|--------|------------------------------------|--------|------------|--------|----------|--------|---------------|--------|---------------------------------|--------|
| | | | | No. | Rate % | Phar. | | Multicolor | | Sergenti | | Other Species | | No. | Rate % |
| | | | | | | No. | Rate % | No. | Rate % | No. | Rate % | No. | Rate % | | |
| Canal ... | { Ismailia ... Suez ... | 9 | 90 | 89 | 98.8 | 43 | 48.2 | 3 | 3.3 | — | — | 43 | 48.2 | — | — |
| | | 4 | 41 | — | — | — | — | — | — | — | — | — | — | 19 | 46 |
| Baharia Oases ... | Wadi El Natroun ... | 1 | 70 | 30 | 43 | — | — | 2 | 7 | — | — | — | — | 28 | 93 |
| Behera ... | Damanhour ... | 9 | 41 | 19 | 46 | 17 | 89.5 | — | — | — | — | 2 | 1.4 | — | — |
| Gharbia ... | { Mehalla el Kobra ... Tanta ... | 17 | 49 | 4 | 8 | — | — | — | — | — | — | 4 | 100 | — | — |
| | | 5 | 5 | 3 | 60 | 3 | 100 | — | — | — | — | — | — | — | — |
| Dakahlia ... | { Faraskour ... Dekernis ... Mit Ghamr ... Mansoura ... | 5 | 7 | 1 | 14 | 1 | 100 | — | — | — | — | — | — | — | — |
| | | 3 | 16 | 2 | 12 | — | — | — | — | — | — | — | — | 2 | 100 |
| | | 1 | 2 | — | — | — | — | — | — | — | — | — | — | — | — |
| | | 3 | 83 | 3 | 3.6 | 3 | 100 | — | — | — | — | — | — | 53 | 63 |
| Menoufia ... | { Shebin el Kom ... Ashmoun ... | 10 | 21 | 15 | 71 | 1 | 6.6 | — | — | — | — | — | — | 18 | 86 |
| | | 1 | 6 | 2 | 33.3 | 2 | 100 | — | — | — | — | — | — | 2 | 100 |
| Sharkia ... | { Belbeis ... Zagazig ... | 3 | 34 | 3 | 9 | 3 | 100 | — | — | — | — | — | — | 18 | 53 |
| | | 14 | 31 | 20 | 64 | 3 | 15 | — | — | — | — | — | — | 16 | 80 |
| | TOTAL ... | 83 | 496 | 191 | 38 | 76 | 39.2 | 5 | 3. | — | — | 49 | 25.6 | 156 | 81.6 |

**TABLE No. 149.—QUANTITIES OF DIFFERENT LARVICIDES CONSUMED IN MALARIA CONTROL
DURING 1950 IN LOWER AND UPPER EGYPT TOGETHER WITH AREAS TREATED**

| District | Province or Governorate | Station | Quantities Consumed | | | | |
|-------------|-------------------------|-------------------------|---------------------------|--------------------------|---------------------|------------------------|-----------------------------|
| | | | DDT with Malariol.Kgs. | Pure D.D.T. Kilograms | Paris Green Kgs. | Water Su- sensionK. | Controlled Area in sq m. |
| Lower Egypt | Canal ... | Ismailia ... | 16,124.254 | 271.000 | — | — | 37,604,375 |
| | | Suez ... | 5,172.000 | 70.750 | — | — | 9,453,729 |
| | Western Desert ... | Wadi el Natroun ... | 221.562 | 104.250 | — | — | 425,069 |
| | | Siwa ... | — | — | 137.700 | — | 1,351,704 |
| | | Baharia Oases | 1,686.952 | — | — | — | 3,373,904 |
| | Behera ... | Idku ... | 5,200.400 | — | — | — | 11,972,049 |
| | | Kafr el Dawar | 3,710.750 | 22.000 | 7.600 | — | 4,486,929 |
| | | Damanhour ... | 7,012.500 | 141.530 | — | — | 8,482,681 |
| | Fouadia | Fowa ... | 5,680.500 | — | — | — | 9,832,939 |
| | | Kafr El Sheikh | 3,158.500 | 1.950 | 83.480 | — | 5,917,191 |
| | | Dessouk ... | 5,642.072 | 9.479 | — | — | 129,433,759 |
| | Gharbia... | Biala ... | 4,800.000 | 184.200 | 78.618 | — | 7,439,970 |
| | | Mehalla Kobra | 4,699.600 | — | 4.000 | — | 10,134,054 |
| | | Belkas ... | 1,770.500 | — | 4.300 | — | 3,326,821 |
| | | Tanta ... | 7,812.000 | — | — | — | 13,112,589 |
| | Dakahlia | Faraskour ... | 3,900.000 | 876.000 | 377.908 | — | 9,544,240 |
| | | Dekernis ... | 4,373.280 | — | — | — | 4,405,170 |
| | | Mansoura ... | 6,730.500 | — | — | — | 12,789,118 |
| | | Mit Ghamr ... | 3,035.000 | — | — | — | 4,031,329 |
| | Menoufia | Shebin El Kom | 3,800.000 | — | 105.776 | — | 12,111,728 |
| | | Ashmoun ... | 2,731.000 | — | — | — | 3,081,135 |
| | Sharkia | Abu Kebir ... | 9,178.000 | — | — | — | 8,902,947 |
| | | Belbeis & Inshas ... | 8,552.000 | — | — | — | 12,746,636 |
| | | Zagazig ... | 7,299.500 | — | — | — | 13,425,599 |
| | Qaliubia | Tonkh ... | 6,280.800 | 17.200 | — | — | 8,625,530 |
| | | Qaliub ... | 6,031.000 | — | 276.950 | — | 11,011,207 |
| | TOTAL | | 134,602.670 | 1,509.359 | 1,076.322 | — | 357,022,402 |
| Upper Egypt | Giza ... | Giza ... | 16,108.000 | 24,759.700 | — | — | 14,770,000 |
| | Beni Suef... | Beni Suef ... | 10,439.000 | 78.950 | — | 136 | 25,395,291 |
| | Minia... | Minia ... | 18,609.521 | 72.000 | 32.600 | — | 34,135,910 |
| | Assiut ... | Assiut ... | 2,103.566 | 65.000 | 404.100 | 248 | 4,370,241 |
| | Gerga ... | Gerga ... | 494.000 | 11.865 | 585.070 | 19 | 4,975,565 |
| | Qena ... | Nag Hamadi | 3,776.420 | — | 2.000 | — | 6,716,191 |
| | | Qena ... | 2,437.000 | 36.874 | — | — | 4,263,749 |
| | | Luxor ... | 3,885.000 | 32.932 | 23.750 | — | 6,576,389 |
| | | Mataana ... | 4,029.197 | 38.500 | — | 82 | 6,694,221 |
| | Aswan ... | Kom Ombo ... | 3,944.023 | — | 506.431 | — | 8,443,378 |
| | | Aswan ... | 2,512.797 | — | 8.830 | — | 3,556,598 |
| | Frontier Govte. ... | Dakhla Oases | 570.000 | — | 1,097,850 | — | 4,512,953 |
| | | Kharga " | 3,546.000 | 105.000 | 312,000 | — | 9,666,000 |
| | TOTAL UPPER EGYPT ; | | 72,455.339 | 25,370.821 | 2,972.943 | 485 | 134,078,486 |
| | TOTAL LOWER EGYPT ; | | 134,602.670 | 1,509.359 | 1,076.322 | — | 357,022,402 |
| | GRAND TOTAL ; | | 207,058.009 | 26,880.180 | 4,049.265 | 485 | 491,100,888 |

**TABLE NO. 150— NUMBER OF WARNINGS AND P.Vs OF CONTRAVENTION SERVED
OUT BY MALARIA UNITS AND THEIR BRANCHES IN UPPER AND LOWER EGYPT, THE
CANAL ZONE AND FRONTIER DISTRICTS DURING 1950**

| Province or Governorate | Unit | Burrow pits or Puddles | | Filling in or covering over disused wells or Sakias and Abolishing pumps | | Clearing Drains or Miskas | | Clearing Ponds or Marshes | | Prohibition of Rice and Sugar cane Cultivations | | Evacuation of or covering cess-pits | |
|------------------------------|-----------------|------------------------|-----------|--|-----------|---------------------------|-----------|---------------------------|----------|---|------------|-------------------------------------|-----------|
| | | Ws. | P.Vs. | Ws. | P.Vs. | Ws. | P.Vs. | Ws. | P.Vs. | Ws. | P.Vs. | Ws. | P.Vs. |
| Canal ... | Ismailia | 1 | — | — | — | 121 | 27 | — | — | — | — | — | — |
| | Suez... .. | — | — | — | — | 3 | 1 | — | — | — | — | — | — |
| Western Desert | W. El Natroun | 9 | 1 | 2 | — | — | — | — | — | — | — | — | — |
| Behera | Damanheir | 17 | — | — | — | — | — | — | — | — | 166 | — | — |
| Gharbia | Mehalla Kobra | — | — | 2 | 2 | — | — | — | — | — | 13 | — | — |
| | Tanta | — | — | — | — | 1 | — | — | — | — | 2 | — | — |
| Dakahlia | Dekernis ... | — | — | — | — | 9 | — | — | — | — | — | — | — |
| Menoufia... .. | Shebin Dl Kom | — | — | 24 | — | — | — | — | — | — | — | — | — |
| Sharkia | Belbeis | 21 | — | 12 | — | 1 | — | — | — | 5 | 5 | — | — |
| | Zagazig | 1 | — | 9 | — | 1 | — | — | — | — | — | — | — |
| TOTAL LOWER EGYPT ... | | 49 | 1 | 49 | 2 | 136 | 28 | — | — | 5 | 186 | — | — |
| | | | | | | | | | | | | | |
| Giza... .. | Giza | 1 | — | 11 | 3 | — | — | — | — | — | — | — | — |
| Fayoum | Fayoum | — | — | — | — | — | — | — | — | — | 11 | — | — |
| Beni-Suef | Beni Suef ... | 16 | 3 | 4 | 2 | — | — | — | — | — | — | 50 | 19 |
| Assiut | Assiut | 3 | 3 | 16 | 16 | — | — | — | — | — | — | — | — |
| Qena | Qena | — | 3 | — | — | — | — | — | — | — | — | — | — |
| „ | Luxor | 1 | — | 3 | — | — | — | — | — | — | — | — | — |
| TOTAL UPPER EGYPT ... | | 21 | 9 | 34 | 21 | — | — | — | — | — | 11 | 50 | 19 |
| | | | | | | | | | | | | | |
| GRAND TOTAL | | 70 | 10 | 83 | 23 | 136 | 28 | — | — | 5 | 197 | 50 | 19 |

TABLE No. 151—QUANTITIES OF DIFFERENT DRUGS ADMINISTERED FOR TREATMENT OF POSITIVE CASES IN LOWER AND UPPER EGYPT DURING 1950.

| Kind of Drug | Administered in Tablets | | Grand Total |
|-----------------------------------|-------------------------|-------------|-------------|
| | Lower Egypt | Upper Egypt | |
| Quinine 5 Grs. | 13,163 | 1,700 | 14,862 |
| „ 2 „ | 18,231 | 2,020 | 20,251 |
| „ chocolate | 6,685 | 11,566 | 18,251 |
| Atebrin | 119,963 | 182,548 | 302,511 |
| Plasmochin Comp, 1 cm. | 2,432 | 844 | 3,276 |
| Plasmochin $\frac{1}{2}$ cm... .. | 990 | 3,694 | 4,684 |
| Blaud's Pills | 72,620 | 16,749 | 89,369 |

TABLE No. 152—HOSPITALS AND HEALTH UNITS ETC, AND NO. OF ROOMS SPRAY-PRINTED WITH INSECTICIDE BY MALARIA STATIONS IN EGYPT DURING 1950.

| Station | No. of Hospitals and Health Units etc | No. of Rooms | Insecticide Employed | Quantities consumed (Kilo Grs.) |
|------------------------------|---------------------------------------|---------------|----------------------------------|---------------------------------|
| Ismailia | 6 | 62 | D.D.T. Kerosene Water suspension | 622,000 |
| Suez | 5 | 420 | „ | 1,759,500 |
| Damanhour | 11 | 350 | „ | 3,153,000 |
| Kafr El Sheikh | 17 | 99 | „ | 711,000 |
| Dessouk | 4 | 95 | „ | 330,000 |
| Biala | 9 | 81 | „ | 52,000 |
| Faraskour | 32 | 546 | „ | 4,288,000 |
| Dekernis... .. | 25 | 301 | „ | 1,260,000 |
| Mansoura | 18 | 929 | „ | 366,000 |
| Mit Ghamr | 9 | 105 | „ | 136,000 |
| Shebin El Kom | 7 | 80 | „ | 832,000 |
| Belbeis | 1 | 67 | „ | 185,000 |
| Zagazig | 2 | 90 | „ | 237,000 |
| Toukh | 32 | 19,458 | „ | 4,947,000 |
| Qaliub | 6 | 144 | „ | 48,000 |
| TOTAL LOWER EGYPT... | 164 | 22,827 | „ | 18,963,500 |
| Beni Suef | 18 | 643 | „ | 1,467,000 |
| Minia | 23 | — | „ | 9,990,000 |
| Assiut | 31 | 1,780 | „ | 248,000 |
| Souhag | 12 | 209 | „ | 1,773,000 |
| Nag Hammadi | 6 | 20 | „ | 108,000 |
| Qena | 17 | 481 | „ | 2,268,000 |
| Luxor | 9 | 276 | „ | 882,000 |
| Mataana... .. | 5 | 175 | „ | 756,000 |
| Aswan | 21 | 330 | „ | 1,390,000 |
| TOTAL UPPER EGYPT ... | 142 | 3,914 | „ | 18,882,000 |
| GRAND TOTAL... | 306 | 26,741 | „ | 37,845,500 |

**TABLE No. 153.—SHOWING GENERAL EXPENDITURES OF PRINCIPAL STATIONS AND
SUB-STATIONS IN LOWER EGYPT DURING 1950 (EXCLUSIVE OF COST
OF TRANSPORT AND THEIR APPURTENANCES).**

| Name of Station | Administrative expenses | | Insecticides consumed and their relative prices | | | | | | | | | | | |
|-------------------------|-------------------------|-------|---|----------------|-----------|----------------|-----------|--------------|-------------|-------|----|-----------------|-------|----|
| | | | Malariol with D.D.T. 5% | | | Pure D.D.T. | | | Paris Green | | | Wettable powder | | |
| | | | Quantity | Price | | Quantity | Price | | Quantity | Price | | Quantity | Price | |
| | | | Kgrs. | L.E. | M. | Kgrs. | L.E. | M. | Kgrs. | L.E. | M. | Kgrs. | L.E. | M. |
| I:maillia | 2,564 | . 188 | 134,602.670 | L.E. 6,191.698 | 1,509.359 | L.E. 1,086.738 | 1,076.322 | L.E. 150.685 | | | | | | |
| Suez | 1,979 | . 751 | | | | | | | | | | | | |
| Wadi El Natroun | 284 | . 635 | | | | | | | | | | | | |
| Siwa | 1,170 | . 072 | | | | | | | | | | | | |
| Baharia Oases | 2,290 | . 400 | | | | | | | | | | | | |
| Idku | 3,629 | . 249 | | | | | | | | | | | | |
| Kafr El Dawar... .. | 1,891 | . 633 | | | | | | | | | | | | |
| Damanhour | 1,889 | . 002 | | | | | | | | | | | | |
| Fowa | 1,844 | . 732 | | | | | | | | | | | | |
| Kafr El Sheikh... .. | 860 | . 179 | | | | | | | | | | | | |
| Dessouk | 2,827 | . 113 | | | | | | | | | | | | |
| Biala | 2,347 | . 581 | | | | | | | | | | | | |
| Mehalla Kobra | 2,077 | . 577 | | | | | | | | | | | | |
| Belkas... .. | 616 | . 352 | | | | | | | | | | | | |
| Tanta | 2,755 | . 777 | | | | | | | | | | | | |
| Faraskour | 2,647 | . 588 | | | | | | | | | | | | |
| Dekernis | 2,701 | . 792 | | | | | | | | | | | | |
| Mansoura | 2,048 | . 751 | | | | | | | | | | | | |
| Mit Ghamr... .. | 970 | . 265 | | | | | | | | | | | | |
| Shebin El Kom | 2,472 | . 681 | | | | | | | | | | | | |
| Ashmoun | 1,340 | . 448 | | | | | | | | | | | | |
| Abu-Kebir | 4,812 | . 105 | | | | | | | | | | | | |
| Belbeis & Inshas | 4,146 | . 808 | | | | | | | | | | | | |
| Zagazig | 3,680 | . 346 | | | | | | | | | | | | |
| Toukh... .. | 5,555 | . 621 | | | | | | | | | | | | |
| Qaliub | 2,180 | . 736 | | | | | | | | | | | | |
| TOTAL | 357,022 | . 402 | | | | | | | | | | | | |

N.B.—Distribution of quantities of larvicide consumed per malaria station is shown in Table No. 149.

TABLE NO. 154—GENERAL EXPENDITURES OF PRINCIPAL STATIONS AND SUB-STATIONS IN UPPER EGYPT, DURING 1950. (EXCLUSIVE OF COST OF TRANSPORT AND THEIR APPURTENANCES)

| Name of Station | Administrative expenses | Insecticides consumed & their relative prices | | | | | | | |
|---------------------|-------------------------|---|----------------|---------------|-----------------|-------------|--------------|-----------------|--------------|
| | | Malarial with D. D. T. 5% | | Pure D. D. T. | | Paris Green | | Wettable powder | |
| | | Quantity | Price | Quantity | Price | Quantity | Price | Quantity | Price |
| | | Kgrs. | L.E.M. | Kgrs. | L.E.M. | Kgrs. | L.E.M. | Kgrs. | L.E.M. |
| | L.E. M. | | | | | | | | |
| Giza | 22,793.767 | | | | | | | | |
| Fayoum | 1,818.356 | | | | | | | | |
| Abshaway | 823.521 | | | | | | | | |
| Beni Suef | 2,524.866 | | | | | | | | |
| Minia | 5,720.236 | | | | | | | | |
| Assiut | 4,324.590 | | | | | | | | |
| Souhag | 3,245.670 | | | | | | | | |
| Nag Hammadi | 2,324.696 | 72,455.339 | L.E. 3,332.933 | 25,370.821 | L.E. 18,266.400 | 2,972.943 | L.E. 416.212 | 485.000 | L.E. 198.365 |
| Qena | 2,664.459 | | | | | | | | |
| Luxor | 6,124.754 | | | | | | | | |
| Mataana | 3,274.969 | | | | | | | | |
| Kom Ombo | 2,708.220 | | | | | | | | |
| Aswan... .. | 5,570.172 | | | | | | | | |
| Dakhla Oasis | 2,629.749 | | | | | | | | |
| Kharga „ | 1,682.023 | | | | | | | | |
| TOTAL | 68,230.048 | | | | | | | | |

N.B.—Distribution of quantities of larvicide consumed per malaria stations is shown in Table No. 149.

Chapter XX.—Insects Control

The Insect Control Section comprises the following branches :

(1) *Mosquito Branch.* at Ein Shams : This includes :

- (a) A permanent station for conducting experiments on the different malaria control methods in the field, laboratory breeding of mosquitoes and the effect of insecticides thereon.

It has also a laboratory for the identification of mosquito species forwarded by the different stations and a team for the periodical spray-painting of aerodromes.

- (b) A mobile station for applying the different mosquito control methods to the different localities.

(2) *Yellow Fever Control Branch:* at Heliopolis.

This branch undertakes the control of *Aedes aegypti* in particular, and other mosquito species in general, within a radius of 2-3 kilometers around aerodromes and ports which receive planes or vessels coming from yellow fever infected areas.

The branch has units at : Heliopolis, Suez, Alexandria, Port Said, Luxor, Hurghada, Safaga, Quseir, Ballana and Mersa-Matrouh. The unit at Tor is operated during the pilgrim season only.

(3) *Fly Control Branch :*

Carries out applied experiments in the field for the study of fly populations, binomics and the various methods of fly control. It also carries out laboratory experiments to study the effect of insecticides on the different stages of flies. Experimental stations belonging to this branch are established at :—

Gabal el Asfar, some villages near Giza (Aboul Nomros, Konayessa, Shubramant and Talbia), some villages in Qaliubia, (Sendion), two summer resorts (Port Said and Suez).

(4) *Ectoparasites Control Branch :*

It carries out different studies on human lice, fleas, bed-bugs and cockroaches. These studies comprise field and laboratory work.

(a) *Field :*

Lice Control.—El Gaafra village of a population of 2,500 was chosen to determine the effect on lice of dusting with 10 per cent DDT and 3.09 per cent BHC. The population was divided into three groups, the first two were dusted each with one of the two insecticides with an average dose of about 35 gms. per person, and the third was left without treatment for control.

Lice counts were done by examining the inner surfaces of the inner clothes before and after dusting.

In the case of DDT, lousiness was reduced by 50 per cent. In BHC, the reduction was 95 per cent. The drop was also evident in the average lice per person. So one can say that both insecticides are effective though it was much more conspicuous in BHC., and the reduction was sustained for a period of 5 weeks.

Fleas :

During 1950, experiments on *P. irritans* were conducted in Gaafra village with DDT and BHC. in order to :

- (1) Evaluate the effectiveness of chemicals on the insect.
- (2) Determine the degree of protection that could be maintained to the host by a single treatment.

- (3) Study the normal seasonal variation in flea density in Menaya village. El Gaafra village was divided into four almost equal parts and were treated as follows:

5 per cent DDT wettable residual spray, 6.6 per cent BHC wettable residual spray.

5 per cent DDT emulsion residual spray, all at a dose of 40 ccs. per sq/m and the fourth was left without treatment for control.

Three counts were done during weeks 14-18, then treatment started during weeks 18-21 inclusive, then fleas counts followed up to week 48.

Extent of treatment:

All floor surfaces of bedrooms, stores, sheds, yards, mats, mattresses and beds. No treatment was applied to the interior walls. It was observed that all chemicals gave good control for 14 weeks, though it was much more conspicuous in BHC than in DDT as was explained in lice control.

The study of the seasonal variation reveals that the peak of infestation was during the months of March and April, also this was observed in October and November.

Other insects:

The treatment of 450 houses was carried out to determine the effect of DDT, BHC and Chlordane on cockroaches and bed-bugs. The results obtained were nearly similar with the three insecticides, their effect was much more stronger on bugs than on cockroaches.

Hence in the latter a combined treatment of residual spraying and dusting will be required to give more effect which will last 13 weeks.

b.—Laboratory:

A colony of lice is maintained under a temp. of 33°-34° and 60-70 per cent R.H. for the purpose of studying the life cycle of the louse and other biological tests. It is bred on human blood.

Another colony of bed-bugs is also bred for the same reason.

(5) School of Insect Control:

Two schools exist:

One for malaria and mosquitoes and another for control of other insects. It is intended to amalgamate the two schools into one in the future. Each school gives two courses, a senior course for physicians, engineers and other university graduates, and a junior course for sanitary technicians, laboratory assistants and others of intermediate qualifications.

A practical training is also provided for those having only primary or similar education.

(6) Workshop:

Is annexed to the Mosquito Branch at Ein Shams. It carries out:

(a) Car repairs,

(b) Maintenance of sprayers and other equipment, and

(c) Making such scientific apparatus as may be required.

Activities of the Section:

(1) Mosquito Branch-Ein Shams:

A.—The experimental station:

The following experiments were conducted:

- (1) Malaria control by spray painting houses in Ezbet Sarsak with 5 per cent DDT solution at a dilution of 2 grs. per cubic metre twice a year in June and October 1950.

Results :

- (a) Disappearance of malaria cases among infants (The ratio for 1949 was 12.5 per cent).
- (b) Compared with the same months for 1949, the positive units gave a reduction in adult mosquitoes exceeding 50 per cent.
- (c) No effect on the larval density.
- (d) Costs = 487 milliems per head per year.

B.—Control of larvae within a radius of 1 kilometer around El Khosous village by means of a 5 per cent D.D.T. solution, weekly from August 1950 till the end of the year.

Results :

- (a) Positive anopheline larvae units dropped to 5 per cent of its number before control.
- (b) The ratio of positive anopheline larvae units in habitations dropped to almost one fourth.
- (c) Disappearance of malaria in infants under one year of age (this was 2.5 per cent in 1949). No incidence of new malaria cases throughout the year.
- (d) Costs = 277 milliems per head per year.

From these two experiments it will be noted that either method is effective in malaria control. The choice is determined by the cost. It will be observed, however, that in the Sarsak experiment, the cost of spray-painting was nearly twice the cost of larviciding in El Khosous but it must be pointed out that the number and size of habitations in Sarsak compared to their residents are rather higher than the average namely 118 houses occupied by 500 inhabitants *i.e.*, 4 persons per house of 325 sq. metres as against an average of 5–6 persons per house of 180 sq. metres.

C.—Survey of 14 villages in Qaliubia for mosquitoes and malaria from May till September.

Results :

- (a) The most prevalent species of *Anopheles* is *A. pharoensis*, then *A. multicolor* and lastly *A. Coustani*. Of *Culex*, *C. laurenti*, then *C. pipiens* and *C. pusillus*. Other Culicini are *Aedes caspius*, *Uranotaenia unguiculata* and *Theobaldia longiareolata*.
- (b) Of 2,142 blood films from persons of different ages examined for malaria, 33 or 1.5 per cent were positive for benign malaria and 4 or 0.2 per cent for malignant malaria.

These results should be considered with caution since the experiments had to be suspended following the appearance of *A. gambiae* in Nubia and the mobilisation of all the strength of the Section for its control.

Mobile station :

A survey of mosquitoes and malaria in Siwa Oasis was undertaken prior to planning control measures next year.

Results :

- (a) Anophelines present in order of prevalence :

A. sergenti.—Abundant in Khamisa, north and south Siwa, Agormi and Maraki villages, and less abundant in Zeitoun. Breeds mostly in surface water and channels. Enters houses very frequently, *seasonal prevalence* : in July–October. Minimum : February.

A. multicolor.—Abundant in North and South Zeitoun and Gerba villages, less abundant in Agormi and Khamisa. Breeds mostly in infiltration water.

Seasonal prevalence.—February and March. Minimum August. Enters houses.

A. algeriensis.—Mostly found in East and West Maraki, Zeitoun, North Siwa and Agormi villages; rare in Gerba and South Siwa. Breeds in surface water.

Seasonal prevalence.—February and March, rare in July–November; was not found as adults in houses.

(b) *Malaria incidence in infants.*—25 per cent (96 blood films were taken out of which 24 proved positive: 16 malignant and 8 quartan).

In children 1–4 years old: 50 per cent (54 specimens were taken, 26 positive: 21 malignant and 5 quartan).

In children 5–12 years old: 20.4 per cent (132 specimens were taken, 27 positive: 22 malignant and 5 quartan).

In adults: 10.3 per cent (132 specimens were taken, 24 positive: 15 malignant and 9 quartan).

All specimens were taken in November and therefore malaria during that month was hyper endemic.

The Section will continue this survey and inter treatment next year.

Spray-painting team:

16,176 buildings were spray-painted (having a total area of 50,764,318 square meters. These include aerodromes, government buildings, Sarsak, Nubia, etc. (see table 155).

Laboratory:

See table 156 for larvae identified and table 157 for adults.

Malaria School:

(a) Senior course of 3 months was given twice in 1950 for 6 and 9 graduates—all except one passed.

(b) Junior course of 2 months was given twice for 14 and 12 students, 4 failed.

Gambiae campaign in 1950:

Nubia was invaded for the second time by *A. gambiae* in September 1950. Region of infiltration extended 80 kilometers from Ballana in the south to Genena and Shobak in the North (near Eneba). The first larva was collected on 9th September 1950, while the last one was collected on October 24, 1950. Total positive *gambiae* larvae was 18. Control started on September 21st., preliminary measures having been taken from September 9th. to 20 th. Not a single case of malaria was recorded.

A separate report is compiled about this campaign. Reference is made here to the *A. Gambiae* first invasion of Egypt in 1942 for comparison only. Whereas in 1942, the mosquito reached Assiut i.e. 800 kilometers North, accounted for more than 100,000 deaths due to malaria and required 3 years to eradicate, it did not exceed 80 kilometers North, caused no deaths and took six weeks to eradicate.

The outlines of the control measures were as follows:

1.—Prevention of the Northward infiltration of the insect by means of flitting and spray-painting all means of transport with 0.5 per cent pyrethrum in kerosene and 5 per cent D.D.T. solution.

3,523 railway carriages were flitted and 3,094 were spray-painted.

3,967 floating units were flitted and 1,174 rooms were spray-painted.

2,774 vehicles were flitted only.

860 litres of pyrethrum solution and 6,172 litres of 5 per cent DDT solution were consumed.

2.—Survey :

292,583 units were surveyed for larvae within the infected area. 18 only were positive for *A. gambiae*. Outside the infected area, 13,204 units were surveyed and 242 were positive for other anophelines (during the period September to December).

For adult mosquitoes, 34,245 houses were surveyed and only one was positive for *A. gambiae* within the infected area. Outside the infected area 1,407 houses were surveyed and all found negative (from September to December, 1950).

3.—Larviciding :

Breeding places were sprayed with 5 per cent DDT in malariol. 29,410,851 units were sprayed and 20 tons of malariol and a ton of DDT were consumed.

4.—Adulticiding :

Three teams, each of 100 members were formed for spray-painting inner surfaces of houses. The first worked from Kom-Ombo to Aswan, the second from Aswan to Amberkab and the third from Amberkab till the borders between Egypt and the Sudan. 25,000 houses were spray-painted by the first team, 9,000 by the second and 13,500 by the third. 29.5 tons of commercial DDT and 6.5 tons of gammexane were consumed.

Cost of spray-painting was 1.3 milliems per square meter, 38.4 m. per house and 13.5 m. per head.

YELLOW FEVER CONTROL BRANCH

Control of yellow fever is carried out by :—

- (a) Prevention of the entry of the disease through an infected person or an infected mosquito arriving in an aircraft or a steam ship. This is undertaken by the Quarantine Department.
- (b) Control of mosquitoes in general and *Aedes aegypti* in particular inside and within 2-3 kilometers around aerodomes.

This is carried out by the Insect Control Section. Reference has already been made to units of the Yellow Fever Control Branch.

Work at Luxor and Alexandria airports was stopped this year since no planes from yellow fever areas landed in these airports.

Spray-painting :

Aerodrome buildings were spray-painted with 5 per cent DDT solution. Almaza military aerodrome, Cairo airport and Alexandria air-port were sprayed three times. Surface area sprayed was more than 5 million square meters. 3½ tons of 25 per cent DDT emulsion and 3.2 tons of 10 per cent gammexane solution were consumed.

Larval Survey :

466,710 houses were surveyed for *Aedes aegypti*, 10 units were positive for larvae of this mosquito and 2,340 for other larvae (Table 158).

Aedes aegypti was only found in Hurghada and Quseir during the months of July, August, September, October and November (Table 159).

FLY CONTROL BRANCH

Units of the Branch :

Villages in Giza Province.—Talbia, Tersa, Konaysa, Abul Nomros, Shubramant.

Villages in Menoufia Province.—Agayza, Omkhnan, Shubra Kebala.

Villages in Qaliubia Province.—Sindion, Gabal el Asfar.

Villages in Sharkia Province.—Inshas.

Towns.—Port-Said and Suez.

Oases.—Siwa.

Estimation of Fly Density:

The grid method was used and results of the effect of insecticides were entered as follows:

Poor result : Fly count 50 or more.

Fair result : „ from 20-50.

Good result : „ less than 20.

Control of flies in the village:

A.—By dusting breeding places with insecticides diluted with phosphate rock at an average of 10-12 grs. of powder per sq. meter.

(Breeding places include: manure heaps, chicken-houses, latrines, dung, stables and and garbage).

Results of different insecticides:

(1) Good or satisfactory: using 2.5 per cent chlordane powder fortnightly from September-middle of October.

(2) Moderate: using 1.3 per cent gammexane alfa weekly from April to June and 5 per cent toxaphene fortnightly from middle of September-October.

(3) 4% gammexane, 2.5% toxaphene weekly, 0.3% gammexane alfa fortnightly.

B.—Spraying breeding places with chlordane:

This was carried in Sindion at an average of 68 ccs. to the square metre of a 5 per cent chlordane aqueous suspension.

This gave good results for 2 weeks and then the effect deteriorated.

The cost is high compared to the result of the process.

C.—Spray-painting houses with 6 per cent gammexane DDT and Chlordane suspension:

These gave good results in the 1st and 2nd applications for 5 weeks and in the 3rd., the effect was for two weeks only. Samples of flies were collected and examined in the laboratory and proved to be resistant to the insecticides. Resistance therefore is probably acquired after 8-9 weeks from the last application of insecticide. Resistance was overcome by the use of 5 per cent chlordane suspension at the rate of 2 grams. per sq. metre.

Good results were obtained at Inshas using DDT emulsion at the rate of 2 grams. per sq. metre which lasted 5 weeks. The second application of the same insecticide failed to give the former effect. In September, using 2.5 per cent chlordane suspension at the rate of 1 gm. per sq. metre. It gave good results for 3 weeks.

Fly control at Gabal el Asfar (Sewage Farm):

Both DDT and Gammexane spray-painting of houses failed to reduce the density of flies.

Nor was it possible to judge the result of dusting the drying basins as these were flooded with sludge after dusting. At any rate we can say that spray-painting and dusting failed to give any result at Gabal el Asfar.

Fly Control in Towns:

Port Said.—In 1949, good results were obtained by dusting breeding places every 2-3 weeks together with fogging, using Tifa machine, and spray-painting hospitals.

In 1950, owing to some local difficulties, the operations in Port Said were not regular and intervals between the 3rd., 4th., and 5th applications were prolonged which resulted in the failure of the last two applications.

Suez.—The same method of control as in Port Said was applied to Suez. Moreover restaurants and other establishments for the preparation or sale of foodstuffs were spray painted. Results were satisfactory for only a short period.

The reason may be due to overflow of cesspits in the poorer districts which resulted in an increase in the fly population.

Laboratory Tests :

- (1) *Materials tested.*—Pyrethrin and pyrenon were tested and compared to pyrethrum. They were found to be comparatively weaker.

M.E.S.C.A. and Volatex thermal smokes proved to have no effect. Vulcan electric bulb killed flies after one hour.

- (2) *Fumigant action.*—Chlordane was found to have more pronounced effect than either DDT or Toxaphene.

TABLE No. 155.—SPRAY-PAINTING OPERATION IN 1950

| Place | Date | | Places painted | | Surfaces painted in sq. metres | Insecticides used (in kilograms) | | | | |
|----------------------------|-------|-------|----------------|--------|-----------------------------------|------------------------------------|------------------------|-------------------|-----------------------------|-------------------------|
| | From | to | houses | rooms | | Pure DDT, powder. | Water sus. 50% DDT. | Emul. 25% DDT. | Emul. L. G. 110 Gamma | Water sus. 15% Gamma |
| Almaza ai - port ... | 25/ 2 | 1/ 3 | 55 | 327 | 79,360 | 6 | — | 320 | — | — |
| Cairo " | 5/ 3 | 14/ 3 | 80 | 733 | 73,275 | — | — | 543 | — | — |
| Houses of staff ... | 25/ 3 | 5/ 4 | 20 | 143 | 10,525 | 1.4 | — | 78 | — | — |
| Alexandria air-port ... | 8/ 4 | 9/ 4 | 139 | — | 12,000 | — | — | 96 | — | — |
| Sarsak ... | 14/ 6 | 19/ 6 | 118 | 311 | 38,242 | — | — | 270 | — | — |
| Almaza air-port ... | 25/ 6 | 29/ 6 | 58 | 378 | 46,325 | — | — | 372 | — | — |
| Cairo " | 1/ 7 | 11/ 7 | 85 | 872 | 113,050 | — | — | 834 | — | — |
| Convales. colony ... | 21/ 7 | 30/ 7 | 136 | 670 | 42,700 | — | — | — | 78.1 | — |
| Port-Tewfik sea-port ... | 5/ 8 | 7/ 8 | 23 | 116 | 86,207 | — | — | 864 | 44.6 | — |
| Abu Zaabil worker's houses | 19/ 8 | 30/ 8 | 278 | 1,648 | 98,026 | — | — | 1,070 | — | — |
| Aldxandria air-port ... | 21/ 8 | 23/ 8 | 40 | 144 | 17,550 | — | — | 138 | — | — |
| Mental Hos. ... | 9/ 8 | 10/ 8 | 38 | 772 | 92,050 | — | — | 840 | — | — |
| Tor Quarantine ... | 11/ 9 | 14/ 9 | 333 | 1,560 | 127,083 | — | — | 1,368 | — | — |
| Sarsak ... | 30/ 9 | 5/10 | 120 | 428 | 49,804 | — | — | 336 | — | — |
| Almaza air-port ... | 7/10 | 12/10 | 56 | 430 | 52,600 | — | — | 480 | — | — |
| Cairo " | 16/10 | 31/10 | 88 | 970 | 107,100 | — | — | 702 | 32.8 | — |
| Convalescents colony ... | 4/11 | 12/11 | 128 | 629 | 44,400 | — | — | — | 60.9 | — |
| Nubia ... | 14/10 | 21/12 | 14,381 | 41,614 | 4,683,021 | — | 4,261 | 11,409 | — | 3,061. |
| | — | — | 16,176 | 51,445 | 10,750 | 7.4 | 4,261 | 19,720 | 216.4 | 3,061. |

TABLE No. 155.—SPRAY-PAINTING OPERATION IN 1950

TABLE No. 156.—LARVAE IDENTIFIED IN THE LABORATORY DURING 1950.

| Locality | Total No. of specimens | Anopheles | Culis | Constant | Algeriensis | Pharoensis | Sergenti | Multicolor | 1st. stage | Urenoloma | Thibaldia | A. aegypti | A. caepius | A. detritus | C. pipiens | C. laurenti | C. pusillus | C. deserticola | C. poliolepes | C. univittatus | Others |
|--------------------|------------------------|-----------|-------|----------|-------------|------------|----------|------------|------------|-----------|-----------|------------|------------|-------------|------------|-------------|-------------|----------------|---------------|----------------|--------|
| Khosous | 793 | 76 | 739 | — | — | 75 | — | — | 1 | 2 | 1 | — | 84 | — | 482 | 170 | — | — | — | — | — |
| Sarsak... .. | 1,351 | 770 | 732 | 9 | — | 759 | — | — | 2 | 1 | 12 | — | 100 | — | 191 | 412 | 4 | — | — | — | 2 |
| Esbet el Nakhl... | 992 | 236 | 818 | 20 | — | 216 | — | — | — | — | 44 | — | 48 | — | 599 | 127 | — | — | — | — | — |
| Gabal el Asfar ... | 876 | 122 | 826 | 5 | — | 117 | — | — | — | 6 | 3 | — | 159 | — | 179 | 475 | 1 | — | — | 3 | — |
| Khanka | 2 | 1 | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — |
| Qalubia | 2,593 | 2,067 | 1,143 | 10 | — | 2,047 | — | 6 | 4 | 3 | 24 | — | 166 | — | 211 | 720 | 7 | 9 | — | — | 3 |
| Siwa | 2,595 | 1,899 | 933 | — | 108 | — | 1,361 | 414 | 16 | 41 | 9 | — | 723 | 3 | 86 | 4 | 57 | 4 | 2 | — | 4 |
| Alexandria | 1,506 | 61 | 1,560 | 56 | — | 6 | — | — | — | 44 | 20 | 3 | 410 | — | 850 | 223 | 7 | — | 2 | — | 6 |
| Mersa Matrouh ... | 11 | — | 13 | — | — | — | — | — | — | — | 4 | — | — | — | 7 | — | — | — | — | — | 2 |
| Suez | 17 | — | 17 | — | — | — | — | — | — | — | — | — | 1 | — | 16 | — | — | — | — | — | — |
| Hurghada | 23 | — | 23 | — | — | — | — | — | — | 1 | — | — | — | 20 | 2 | — | — | — | — | — | — |
| Quseir | 10 | — | 10 | — | — | — | — | — | — | — | — | — | — | — | 9 | 1 | — | — | — | — | — |
| Heliopolis | 590 | 36 | 569 | 2 | — | 32 | — | — | 2 | — | 5 | — | 24 | — | 458 | 72 | — | — | 1 | — | 9 |
| Luxor | 182 | 3 | 179 | — | — | 1 | — | 1 | 1 | — | 1 | — | 5 | — | 155 | 17 | — | — | — | — | 1 |
| Ballana | 6 | — | 7 | — | — | — | — | — | — | — | 1 | — | 1 | — | 3 | 2 | — | — | — | — | — |

TABLE No. 157.—DETAILS OF ADULT MOSQUITOES EXAMINED IN THE LABORATORY IN 1950

| Locality | Total No. of specimens | Anopheles | Culiseta | Anopheles | | | Culiseta | | | Culex |
|-----------------------|------------------------|-----------|----------|--------------|----------|------------|--------------|------------|------------|-------|
| | | | | Pha- roensis | Sergenti | Multicolor | Theo- baldia | A. aegypti | A. caspius | |
| Khosous | 2,085 | 77 | 2,061 | 77 | — | — | — | — | 5 | 2,056 |
| Sarsak | 764 | 285 | 671 | 285 | — | — | 1 | — | 25 | 645 |
| Ezbet el Nakhl | 1,001 | 14 | 1,001 | 14 | — | — | 4 | — | 4 | 993 |
| Gabal El Asfar | 600 | 6 | 623 | 6 | — | — | — | — | 43 | 581 |
| Khanka | 5 | — | 5 | — | — | — | — | — | — | 5 |
| Mobile Units | 1,599 | 685 | 1,479 | 685 | — | — | 11 | — | 17 | 1,451 |
| Siwa | 1,501 | 2,193 | 329 | 1 | 13 | 884 | — | — | 38 | 201 |
| Suez | 1 | — | 1 | — | — | — | — | — | — | 1 |
| Heliopolis | 6 | — | 6 | — | — | — | — | — | — | 6 |

TABLE No. 158.—YELLOW FEVER BRANCH REPORT IN 1950.

| | No. of houses examined | No. of units examined | No. of closed houses | No. of closed units. | No. of vacant houses | No. of vacant units | No. of new houses | No. of new units | No. of inaccessible houses. | No. of inaccessible units | No. of houses possit. for A. aegypti | No. of U. p. for A. aegypti | No. of houses P. for other mosquitoes | No. of U. P. for other mos. | No. of houses possit. for pupae | No. of units possit. for pupae. | No. of open lands possit. for larvae | No. of open lands possit. for pupae | No. of open lands positive for Aedes aegypti |
|---------------|------------------------|-----------------------|----------------------|----------------------|----------------------|---------------------|-------------------|------------------|-----------------------------|---------------------------|--------------------------------------|-----------------------------|---------------------------------------|-----------------------------|---------------------------------|---------------------------------|--------------------------------------|-------------------------------------|--|
| January ... | 43,028 | 174,432 | 3,249 | 9,707 | 599 | 754 | 218 | 419 | 152 | 946 | — | — | 25 | 25 | — | — | 231 | — | — |
| February... | 42,345 | 159,565 | 2,830 | 8,066 | 427 | 122 | 238 | 444 | 161 | 882 | — | — | 20 | 20 | — | — | 201 | — | — |
| March ... | 40,793 | 171,164 | 3,432 | 9,158 | 336 | — | 331 | 468 | 204 | 1,068 | — | — | 28 | 28 | — | — | 253 | — | — |
| April ... | 49,289 | 210,371 | 4,033 | 12,020 | 421 | 620 | 360 | 833 | 271 | 1,442 | — | — | — | 34 | — | — | 426 | — | — |
| May. ... | 41,072 | 117,904 | 2,919 | 8,064 | 446 | 583 | 205 | 470 | 114 | 519 | — | — | — | 36 | — | — | 230 | — | — |
| June. ... | 32,986 | 70,053 | 2,641 | 7,456 | 470 | 546 | 204 | 441 | 38 | 161 | — | — | 44 | 44 | — | — | 110 | — | — |
| July. ... | 40,371 | 85,598 | 2,767 | 11,106 | 427 | 583 | 257 | 672 | 38 | 162 | 1 | 1 | 48 | 48 | — | — | 94 | — | — |
| August. ... | 33,171 | 83,120 | 3,320 | 11,439 | 503 | 661 | 244 | 595 | 30 | 104 | 4 | 4 | 11 | 11 | — | — | 57 | — | — |
| September ... | 29,461 | 63,178 | 2,177 | 8,390 | 353 | 567 | 171 | 426 | 31 | 94 | 1 | 1 | 16 | 24 | — | — | 31 | — | — |
| October ... | 41,358 | 87,583 | 3,256 | 11,273 | 379 | 502 | 320 | 721 | 29 | 147 | 1 | 1 | 63 | 63 | — | — | 84 | — | — |
| November ... | 36,995 | 80,332 | 3,344 | 7,289 | 421 | 402 | 224 | 559 | 38 | 163 | 3 | 3 | 10 | 12 | — | — | 116 | — | — |
| December ... | 466,710 | 77,999 | 2,414 | 7,950 | 228 | 330 | 347 | 766 | 39 | 162 | — | — | 4 | 6 | — | — | 104 | — | — |
| TOTAL. ... | 466,710 | 1,381,299 | 36,182 | 113,918 | 5,629 | 6,710 | 3,119 | 6,819 | 1,145 | 5,850 | 10 | 10 | 271 | 351 | — | — | 1,929 | — | — |

18 specimens of Aedes aegypti larvae were collected by the surveying team of the Branch.

TABLE NO. 159.—*Aedes Aegypti* LARVAE FOUND IN 1950 IN YELLOW FEVER AREAS

| | January | Febr. | March | April | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | TOTAL |
|---------------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|-----------|
| Alexandria | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mersa Matrouh ... | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Port Said | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Suez | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hurghada | — | — | — | — | — | — | 1 | 14 | 1 | — | 3 | — | 19 |
| Quseir | — | — | — | — | — | — | — | 8 | — | 1 | — | — | 9 |
| Safaga | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Cairo | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Luxor | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Ballana | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Tor | — | — | — | — | — | — | — | — | — | — | — | — | — |
| TOTAL | — | — | — | — | — | — | 1 | 22 | 1 | 1 | 3 | — | 28 |

All larvae were found in Zeers.

Chapter XXI.—Bilharzia Snail Control

Snail Control Work has been gradually expanding in the last decade to cover the provinces of Giza, Aswan, Qena, Beni Suef, Menoufia, Qaliubia and Behera and also the Oases. During 1951 the work has been substantially extended in the Delta provinces. The large territory comprised between the two branches of the Nile North of Menoufia, formerly Gharbia province, but lately divided into Fouadia and Gharbia provinces, has been tackled from 3 centres: Tanta, Bilqas and Kafr-el-Sheikh, forming the head-quarters of 3 new inspectorates. The streams were measured and mapped to a large extent and partially surveyed for snails.

In Behera province, where control has slowly spread from a Southern to a Middle Behera Inspectorate, the territory brought under control grew large enough to warrant the formation of a new North Behera Inspectorate with headquarters at Siouf.

In Beni Suef province, two strips of territory were added: one south of the administration boundaries, to include the intakes of various main streams and another west of Bahr Youssef where additional territory was brought under cultivation in recent years.

In Aswan province, several irrigation schemes South of Kom Ombo were also included.

A special effort was made by the training centres to train new junior staff for the Delta Provinces. A total of 410 trainees attended the classes of which 341 were subsequently engaged while 69 either dropped out or failed to pass the examination. Owing to financial and other difficulties this training had to be curtailed later and the work in the Delta could not be expanded to the full.

The limitations of trained personnel coupled with a chronic lack of hired labour has caused patchy application of control in the new provinces and retardation of control measures in certain areas of the old provinces.

The situation and the success of control during any year is assessed by comparing the main spring survey of the year with that of the following year, which is made after the treatments, taking into consideration the biological necessities for surveying in spring and not in winter. A comparison of the spring surveys of 1950 and 1951 is given in tables 160 and 161 and the extent of the intervening treatments in Table 162.

In the 3 Oases, no *Bulinus* was found, except one new infection in Baharia, in the terminal streams of a spring which had not been infected with this species. *Limnaea* is still found.

Application of Law 29/1948.

During the year 1950 the provincial field staff of the section registered 138,241 distributaries measuring 52,943 kms. and belonging to 190,188 owners. 75,670 notifications were sent out concerning the clearance of 51,817 streams. 8,890 streams measuring 4,416 kms. were cleared by 10,613 owners. The section cleared, at the owners' expense, 21,831 streams, measuring 11,228 kms. and belonging to 67,036 owners. Costs amounting to L.E. 32,547 will be collected together with land taxes.

TABLE No. 161.—INTENSITY OF INFESTATION IN STREAMS INFESTED WITH THE SNAIL CARRIERS
OF BILHARZIASIS, MAIN NET SURVEYS OF SPRING 1950 AND 1951

| Province or Inspectorate | Year | Bulinus truncatus | | | Planorbis boissyi | | |
|--------------------------|------|--------------------------|-------------------|-----------------|--------------------------|-------------------|-----------------|
| | | Dips in infested streams | snails dipped out | snails/100 dips | Dips in infested streams | snails dipped out | snails/100 dips |
| Fayoum | 1950 | 354,325 | 19,851 | 6 | — | — | — |
| | 1951 | 320,683 | 11,736 | 4 | — | — | — |
| Giza | 1950 | 156,912 | 16,848 | 11 | — | — | — |
| | 1951 | 132,498 | 13,281 | 10 | — | — | — |
| Aswan | 1950 | 93,224 | 26,064 | 28 | — | — | — |
| | 1951 | 59,583 | 6,238 | 10 | — | — | — |
| Qena | 1950 | 43,551 | 1,932 | 4 | — | — | — |
| | 1951 | 46,317 | 2,137 | 5 | — | — | — |
| Beni Suef | 1950 | 265,608 | 40,888 | 15 | — | — | — |
| | 1951 | 236,643 | 13,348 | 6 | — | — | — |
| Qaliubia | 1950 | 107,280 | 11,711 | 11 | 22,971 | 4,470 | 20 |
| | 1951 | 117,990 | 11,636 | 10 | 23,442 | 2,448 | 10 |
| Menoufia | 1950 | 533,202 | 63,298 | 12 | 68,931 | 27,904 | 40 |
| | 1951 | 541,932 | 72,364 | 13 | 84,390 | 28,918 | 34 |
| South Behera | 1950 | 352,671 | 57,706 | 16 | 156,198 | 69,844 | 45 |
| | 1951 | 253,983 | 40,746 | 16 | 116,613 | 44,833 | 38 |
| Middle Behera | 1950 | 393,195 | 49,125 | 13 | 404,322 | 105,834 | 26 |
| | 1951 | 234,261 | 30,132 | 13 | 236,973 | 64,339 | 27 |
| Gharbia | 1951 | 344,031 | 43,872 | 13 | 324,804 | 54,659 | 17 |
| TOTAL | 1950 | 2,062,425 | 250,532 | 12 | 652,422 | 208,102 | 32 |
| | 1951 | 2,072,587 | 235,392 | 11 | 786,222 | 195,197 | 25 |

Note The total number of dips taken in 1950 was 10,608,349 and in 1951, 13,881,642.

TABLE No. 162.—TREATMENT OF STREAMS INFESTED WITH THE SNAIL VECTORS OF
BILHARZIASIS, APRIL 1950 — MARCH 1951

| Province or Inspectorate | Clearance | | | Sulphation | | | |
|--------------------------|-----------|--------|----------|------------|--------|----------|-----------------|
| | Numbers | Kms. | man-days | Numbers | Kms. | man-days | Tons Cu So 4 |
| Fayoum | 777 | 937 | 17,081 | 4,455 | 4,213 | 9,845 | 290 |
| Giza | 2,144 | 1,374 | 23,006 | 2,624 | 2,317 | 3,735 | 236 |
| Aswan | 632 | 697 | 11,085 | 1,236 | 902 | 2,880 | 140 |
| Qena | 1,458 | 1,099 | 6,064 | 1,107 | 970 | 3,237 | 139 |
| Beni Suef | 3,327 | 2,124 | 41,375 | 4,549 | 3,061 | 5,497 | 226 |
| Qaliubia | 105 | 113 | 2,462 | 2,892 | 2,305 | 4,923 | 204 |
| Menoufia | 3,232 | 3,253 | 52,350 | 2,475 | 3,252 | 6,911 | 229 |
| South Behera | 2,577 | 1,853 | 28,164 | 4,458 | 3,437 | 4,960 | 237 |
| Middle Behera | 5,291 | 2,220 | 46,068 | 13,709 | 6,273 | 8,061 | 210 |
| Gharbia | 685 | 598 | 11,772 | 778 | 862 | 977 | 35 |
| TOTAL | 20,228 | 14,268 | 239,427 | 38,283 | 27,592 | 50,026 | 1,946 |

The Laboratory :

(1) Routine *examinations of snails* for bilharzia infection were made in the main laboratory on snail samples from Giza, Qaliubia, Menoufia and G'arbia provinces. 6,526 *Bulinus* from 45 localities and 9,324 *Planorbis* from 37 localities were examined and 13 samples showed infection.

(2) Since it is well known that the concentration of CuSO_4 solutions decreases rapidly in nature after application to the streams, the effects of various factors on 30 p.p.m. solutions of copper sulphate in Nile water were investigated :

(a) *in vitro* ; the following results, demonstrating the neutralizing effects of silt and mud were obtained in 4 litre aquaria at temperatures ranging from 19° – 31° C.

APPROXIMATE CuSO_4 CONCENTRATIONS, GIVEN AS A FRACTION OF THE ORIGINAL
(30 p.p.m.)* AFTER EXPOSURE TIMES OF:

| Solution in | 1 hour. | 1 day | 2 days | 3 days |
|--|---------|-------|--------|--------|
| Distilled water (control) | 1 | 1 | 1 | 1 |
| Nile water only | 2/3 | 1/2 | 1/3 | 1/7 |
| Nile water with mud bottom (very silty) | 1/2 | 1/6 | 1/25 | 1/70 |

*(30 p.p.m.=1)

(b) in an *environmental laboratory pond* of 0.9 cubic metres capacity containing clear water over 8 cms. of mud and some aquatic vegetation, at temperatures varying from 10° to 30° C.

TABLE 5.—APPROXIMATE AVERAGE DECREASE OF CONCENTRATION OF A 30 p.p.m. CuSO_4
SOLUTION IN NILE WATER, FROM VARIOUS MEASUREMENTS, AFTER EXPOSURE TIMES OF :

| | 5 min. | 2 hrs. | 1 day | 2 days | 3 days |
|--|--------|--------|-------|--------|--------|
| Calculated initial concentration 30 p.p.m.=1 | 2/3 | 1/3 | 1/6 | 1/10 | 1/15 |

(c) The *stabilizing effect of citric acid*, in vitro, is illustrated as follows :

| 30 p.p.m. solution of CuSO_4 | Exposure time | | | | |
|--|---------------|-------|--------|--------|--------|
| | 0 hr | 2 hrs | 24 hrs | 48 hrs | 72 hrs |
| In Nile water (control) | 30 | 15.7 | 11.8 | 7.8 | 7.8 |
| Same, with 5 p.p.m. citric acid | 30 | 23.6 | 15.7 | 15.7 | 13.8 |

Chapter XXII.—Leprosy Control

Every effort is being made since 1929 for the detection and isolation of lepers. Central leprosy clinics with segregation quarters have been provided in chief towns of provinces. Four branch clinics in connection with each are provided in neighbouring district towns. Under Law No. 131 of 1946, the isolation of lepers is now compulsory to protect the community against this fatal disease and ensure care being taken of leprosy patients.

Statistics :

Examination of 2,055 patients presenting themselves to leprosy units revealed that 1,156 were leprosy as compared with 2,060 and 1,214 respectively in the previous year. Review of the records revealed that 374 lepers were repeatedly recorded leaving 783 new lepers during the year. This brings the total number of new lepers recorded since leprosy control was started in 1929 until the end of the year under review to 12,484.

The following Table No. 163 gives the details of patients returned positive for leprosy by the different units :

TABLE No. 163

| Unit | Branches | No. Lepers |
|-----------------------------------|--------------------------|------------|
| Abou Zaabal Leprosy Colony | — | 307 |
| Amria Leprosy Colony | — | 82 |
| Cairo Leprosy Hospital | Main Clinic | 2 |
| | Embaba | 39 |
| | Karamidan | 106 |
| | Qaliub... .. | 12 |
| | TOTAL | 159 |
| Zagazig Leprosy Clinic | Main Clinic | 27 |
| | Abou Hammad | — |
| | Shebin el Kanater | 15 |
| | Minia el Kamh | 4 |
| | Abou Kebir | 6 |
| | TOTAL | 52 |
| Souhag Leprosy Clinic | Main Clinic | 34 |
| | Tema | 15 |
| | Gerga | 15 |
| | Tahta | 14 |
| | Akhmim | 5 |
| | TOTAL | 83 |
| Tanta Leprosy Clinic | Main Clinic | 63 |
| | Mahalla Kobra | 9 |
| | Zefta | 14 |
| | Kallin | 5 |
| | Dessouk | 16 |
| | Kafr el Zayat | 1 |
| | TOTAL | 106 |
| Minia Leprosy Clinic | Main Clinic | 36 |
| | Beni Mazar | 7 |
| | Abou Kerkas | 9 |
| | Samallout | 12 |
| | Mallawi | 15 |
| | TOTAL | 79 |
| Alexandria Leprosy Clinic | Main Clinic | 21 |
| | Damanhour | 14 |
| | Rosetta | 7 |
| | Edku | — |
| | TOTAL | 42 |

TABLE No. 163 (contd.)

| Unit | Branches | No. Lepers |
|-------------------------------------|---------------------|------------|
| Mansoura Leprosy Clinic | Main Clinic | 31 |
| | Damietta | 4 |
| | Sinbellawein | 7 |
| | Sherbin | 4 |
| | Dekernis | 8 |
| | TOTAL | 54 |
| Shebin el Kom Leprosy Clinic | Main Clinic | 22 |
| | Menouf | 13 |
| | Ashmoun | 8 |
| | Quesna | 8 |
| | Benha | 11 |
| | Tala | 8 |
| | TOTAL | 70 |
| Qena Leprosy Clinic | Main Clinic | 14 |
| | Luxor | 10 |
| | Koïs | 10 |
| | Deshna | 2 |
| | Nag' Hammadi | 9 |
| | TOTAL | 45 |
| Beni Suef Leprosy Clinic | Main Clinic | 74 |
| | Beba | 3 |
| | TOTAL | 77 |

A total of 974 lepers were in segregation in Abu Zaabal and Amria Colonies, Cairo Hospital and segregation annexes of clinics at the end of 1950 as against 923 at the end of 1949. Details are as follows:—

| | |
|---------------------------|-----|
| Abou Zaabal Colony | 637 |
| Amria Colony | 282 |
| Souhag Clinic | 5 |
| Tanta Clinic | 6 |
| Minia Clinic | 17 |
| Mansoura Clinic | 16 |
| Qena Clinic | 11 |

The average rate of attendance for treatment was 22% as shown below:

TABLE No. 164.

| Month | No. of attendances (visitors) | Rate Percent |
|------------------|-------------------------------|--------------|
| January | 11,313 | 17 |
| February | 10,352 | 22 |
| March | 11,026 | 24 |
| April | 11,070 | 23 |
| May | 13,835 | 23 |
| June | 10,785 | 22 |
| July | 9,428 | 19 |
| August | 12,904 | 21 |
| September | 9,359 | 19 |
| October | 13,052 | 21 |
| November | 10,889 | 33 |
| December | 10,317 | 21 |

Treatment :

Hydnocarpus oil was used in the treatment of all lepers. Every leper received a weekly intramuscular injection of 4-5 ccs. of the oil. Treatment with Sulfa compounds was tried at Abou Zaabal and Amria Colonies subject to introduction in other units. Good results were obtained.

A total of 128,058 injections weighing 583 kgs. were given to lepers this year as against 117,903 injections weighing 529 kgs. in the previous year. The number of dressings applied to patients was 203,134 as against 173,822 last year. Details are as follows :

TABLE No. 165

| Month | Number of injections | Quantity of oil | N. of dressings |
|---------------------|----------------------|-----------------|-----------------|
| January | 10,524 | 44.871 | 14,880 |
| February | 19,782 | 44.151 | 13,530 |
| March | 10,410 | 38.212 | 13,576 |
| April | 10,599 | 49.862 | 14,964 |
| May | 13,173 | 60.650 | 19,011 |
| June | 10,610 | 48.581 | 16,921 |
| July | 8,899 | 39.959 | 16,366 |
| August | 13,329 | 62.180 | 21,521 |
| September | 8,219 | 37.375 | 15,516 |
| October | 12,296 | 55.971 | 19,751 |
| November | 9,855 | 44.143 | 17,984 |
| December | 10,362 | 46.670 | 18,114 |
| TOTAL | 128,058 | 582.629 | 203,134 |

In addition to treatment of leprosy, patients received treatment for other accompanying diseases.

ABOUL ZAABAL COLONY

Patients :

The remaining female residents at Cairo Leprosy Hospital have been accommodated at Abou Zaabal Colony. The hospital will be used as a preventorium for the accommodation of children of leprous parents. Of 429 lepers admitted to the colony during the year, 307,(208 females and 99 males) were segregated for the first time and 122 had been inmates and discharged for different reasons, as against 279, 159 and 120 respectively during the previous year.

The number of lepers in segregation at the end of the year was 637 as against 437 in the previous year.

Technical Works :

(1) Of the 307 new admissions, 170 were of the anesthetic type, 18 of the tubercular type and 119 of the mixed type. Examination of the 122 re-admissions revealed that 45 were of the anesthetic type, 8 of the tubercular and 69 of the mixed type.

(2) Samples from the nose and skin were taken from the 637 lepers in segregation for bacteriological examination and gave the following results : 258 positive for nose only, 129 positive for skin only, 190 positive for nose and skin and 60 negative for nose and skin. Of these 17 were positive and became negative ; 3 were negative and became positive and 617 remained without change.

(3) Clinical examination of all the inmates revealed that the condition of 450 lepers improved, 141 remained stationary and 46 deteriorated.

(4) 42 cases of perforating ulcers were met with. All were treated and improved except 17 cases which were still under treatment at the end of the year.

(5) Of 420 cases of lepra reactions met with, 84 were severe. All were treated and improved except 25 cases (including 6 cases of severe reaction) which were still under treatment at the end of the year.

(6) A total of 104,785 dressings were applied to patients during the year.

(7) 138 surgical operations were performed in the colony as follows: 63 incisions, 72 widening of incisions, 1 amputation, 2 piles.

(8) Of 730 cases of skin diseases met with, 48 were treated for scabies and all recovered; 668 for dermatitis and all recovered except 37 which were still under treatment at the end of the year; 3 for tinea and all 3 were still under treatment, and 11 for urticaria and all were cured.

(9) Venereal diseases cases (syphilis) met with numbered 27 and all were treated.

(10) Medical cases treated during the year numbered 411 as follows 2 cholecystitis, 355 constipation and enteritis, 7 heart failure and 47 general debility. All cases were treated and cured.

(11) 137 cases of chest diseases were met with as follows: 3 pulmonary tuberculosis, 3 asthma, all under treatment; 12 acute bronchitis, 116 bronchitis. All were treated.

(12) The ophthalmic clinic was attended by patients 3,737 times. 64 ophthalmic operations were done this year as follows: 8 probing and syringing of lacrymal canals, 9 skin and muscle, 13 trachoma, 18 follicles (pitching), 1 excision of the eye, 4 conjunctivoplasty, 5 leprotic masses, 6 trichiasis (snellen's operation).

The ophthalmologist visited the colony 37 times during the year.

(13) 425 lepers were treated in the dental clinic. 60 dental operations were performed during the year, namely, 62 extractions and 3 gum boils. 30 visits to the colony were paid by the dentist.

(14) Cases of intestinal parasites numbered 155, namely 142 bilharzia and 13 ascaris. All were treated and cured.

(15) 842 samples of urine from patients and staff were examined at the colony laboratory and gave the following results: 142 bilharzia, 86 salts and cylindroids, 66 pus and 25 albumen.

(16) Examination of 214 samples of faeces gave the following results: 5 ancylostoma, 25 ascaris and other parasites.

Staff Clinic :

Resident staff and their families attended the staff clinic 4,345 times or a ratio of 12 visits daily :

Social Activities :

(1) *School*.—30 lepers attended the day school and 20 the night classes.

(2) *Library*.—A monthly average of 290 lepers attended the library or 10 lepers daily. An average of 160 books were loaned to lepers monthly or 5 books daily.

(3) *Preaching*.—Sermons were delivered weekly with Friday prayers at the mosque of the colony. These had a good effect on the conduct of patients.

(4) *Sports*.—The boy-scout troop of 30 lepers continues its scout exercises with the object of infusing discipline and obedience in young lepers. The two foot-ball teams held a few games during the year.

Recreation :

The inmates were entertained on different occasions and were provided with extra meals during Ramadan and feasts. The canteen provided commodities and the club organised games and recreations.

Prison :

There were 30 lepers remaining in prison on January 1, 1950. 83 leprous prisoners were admitted during the year and 98 released, leaving 15 prisoners in detention at the end of the year.

Industrial Activities :

All the industrial requirements of the colony have been performed by the different workshops which are manned by the lepers. Large amounts of clothes, slippers, mattresses, etc., were manufactured, besides repairs to doors, windows, sanitary installations, etc.

Agricultural Activities :

Some 12 feddans of land have been reclaimed by the inmates. This brings the total area under cultivation to about 115 feddans. Large quantities of various crops were produced during the year. The number of cows kept in the dairy was 50 cows. These yielded 26,237 kgs. of milk. Male calves are slain and the meat served to inmates. Some 5,749 kgs. of meat were provided this year.

Power and Pumping Plants :

551,610 Kilo Watts were consumed in lighting and filters. 1,204,033 cubic metres of fresh water were pumped for irrigation. 114,351 cubic metres of potable water were filtered. 329,400 cubic metres of sewage were drained and used as fertiliser.

The repair workshop undertook all the repairs required by these plants.

CAIRO LEPROSY HOSPITAL

This hospital was used for the segregation of female lepers. Early in the year, the inmates were accommodated in the special quarters provided within Abou Zaabal Colony. It is proposed to use this hospital as a preventorium for the accommodation of children of leprous parents. Meanwhile, it is used as an out-patient dispensary until funds are allocated.

Of 279 persons presenting themselves to the hospital during the year, 159 suffered from leprosy and the rest from other diseases.

Of the 159 lepers, 15 were of the tubercular type, 91 of the anesthetic type and 53 mixed.

There are 3 out-patient branch clinics in connection of this hospital.

- (a) Embaba Branch recorded 39 new cases and 3,669 visits during the year.
- (b) Karamidan Branch recorded 106 new cases and 8,499 visits during the year.
- (c) Qaliub Branch recorded 14 new cases and 2,445 visits during the year.

Lepers were again treated with hydnocarpus oil given intramuscularly. 14,660 injections weighing 72.918 kgs. of oil were administered and 7,425 dressings applied during the year.

AMRIA COLONY

The number of lepers in segregation at the end of the year was 282. Hydnocarpus oil was used in treatment. Sulphone compounds were tried in treatment with satisfactory results. 11,587 injections weighing 42.150 kgs. of oil were administered and 19,510 dressings applied during the year.

Recreation :

The same arrangements for entertainment and recreation employed at Abou Zaabal Colony are employed in Amria Colony.

Drinking Water :

The colony is supplied with drinking water from El Noubaria filtration plant of the Ministry of War, some 30 kilometres from the colony. Water is pumped to an auxiliary pumping station at Abdel Kader village and thence into two large tanks to be distributed through pipes to the various compounds.

Light :

Five electric generators are used for lighting the compounds and roads of the colony. Solar oil is used in driving these generators which are in a bad condition inspite of the few repairs made.

Guards :

A camel force composed of a sergeant, two corporals and 18 men kept guard at the colony. For military reasons, half the force was replaced by frontier policemen. This arrangement did not prove satisfactory and arrangements are being made to restore the force to its original formation.

TABLE No. 166.—NUMBER OF PATIENTS IN LEPROSY UNITS DURING 1950 ACCORDING TO THEIR BIRTH PLACES AND RESIDENCE

| Units | Cairo | | Alexandria | | Damietta | | Canal | | Suez | | Behera | | Gharbia | | Menoufia | | Dakahlia | | Sharkia | | Qalubia | |
|-----------------------------|-------|-----------|------------|-----------|----------|-----------|-------|-----------|-------|-----------|--------|-----------|---------|-----------|----------|-----------|----------|-----------|---------|-----------|---------|-----------|
| | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence |
| Abu Zaabal Colony | 7 | 17 | 6 | 6 | — | — | 1 | 1 | — | — | 14 | 14 | 41 | 42 | 35 | 37 | 41 | 41 | 31 | 27 | 31 | 29 |
| Amria " | 1 | 1 | 1 | 6 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 8 | 7 | 3 | 3 | 10 | 10 | 1 | 1 | 5 | 5 |
| Cairo Hospital | 7 | 50 | 1 | 1 | 1 | — | — | — | — | 1 | 1 | — | 1 | 1 | 19 | 6 | 3 | 1 | 6 | 3 | 21 | 22 |
| Zagazig Clinic | — | — | — | — | — | 2 | 2 | — | 1 | 1 | — | — | — | — | 2 | — | 3 | 3 | 3 | 34 | 11 | 12 |
| Souhag " | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Tanta " | — | — | — | — | — | — | — | — | — | 4 | 4 | 4 | 58 | 60 | 13 | 12 | 7 | 6 | — | — | — | — |
| Minia " | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Alexandria " | — | — | 8 | 15 | — | — | — | — | — | 16 | 27 | 7 | 6 | 6 | 1 | — | — | — | — | — | — | — |
| Mansoura " | — | — | — | — | 2 | 2 | — | — | — | — | — | — | 6 | 6 | — | — | 44 | 45 | 1 | — | — | — |
| Shebin el Kom Clinic | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | 58 | 58 | — | — | — | — | 11 | 11 |
| Qena Clinic | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Beni Suef Clinic | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| TOTAL | 15 | 68 | 16 | 28 | 4 | 3 | 2 | 5 | 2 | 3 | 37 | 37 | 121 | 122 | 131 | 116 | 108 | 106 | 7 | 65 | 79 | 79 |

TABLE No. 166.—NUMBER OF PATIENTS IN LEPROSY UNITS DURING 1950 ACCORDING TO THEIR BIRTH-PLACES AND RESIDENCE. (Cont.)

| Units | Giza | | Beni Suef | | Fayoum | | Minia | | Assiat | | Gerga | | Qena | | Aawan | | Western Desert | | Fouadja | | Sinal | | Abroad | | Total | |
|-------------------|-------|-----------|-----------|-----------|--------|-----------|-------|-----------|--------|-----------|-------|-----------|-------|-----------|-------|-----------|----------------|-----------|---------|-----------|-------|-----------|--------|-----------|--------|-----------|
| | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence | Birth | Residence |
| Abu Zaabal Colony | 24 | 21 | 10 | 12 | 6 | 6 | 18 | 14 | 16 | 15 | 10 | 9 | 10 | 10 | 3 | 3 | 1 | 1 | 1 | 1 | — | — | 1 | 1 | 307 | 307 |
| Amria | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 10 | 9 | 9 | 7 | 14 | 13 | 1 | 1 | — | — | 6 | 6 | — | — | 1 | 1 | 82 | 82 |
| Cairo Hospital | 60 | 63 | 4 | 2 | 2 | — | — | — | 13 | 4 | 9 | 2 | 7 | 2 | 2 | — | — | — | 1 | 1 | — | — | 1 | — | 159 | 159 |
| Zagazig Clinic | — | — | — | — | — | — | — | — | 1 | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | 52 | 52 |
| Souhag | — | — | — | — | — | — | — | — | 5 | 5 | 77 | 77 | 1 | 1 | — | — | — | — | — | — | — | — | — | — | 83 | 83 |
| Tanta | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 24 | 24 | — | — | — | — | 106 | 106 |
| Minia | — | — | — | — | — | — | 48 | 54 | 97 | 25 | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | 79 | 79 |
| Alexandria | — | — | — | — | — | — | — | — | 1 | 1 | 4 | 2 | 5 | 1 | — | — | — | — | — | — | — | — | — | — | 42 | 42 |
| Mansoura | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | 1 | — | — | — | — | 54 | 54 |
| Shebin el Kom | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 70 | 70 |
| Qena | — | — | — | — | — | — | — | — | — | — | — | — | 40 | 40 | 5 | 5 | — | — | — | — | — | — | — | — | 45 | 45 |
| Beni Suef | 4 | 4 | 64 | 64 | 4 | 5 | 4 | 4 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | 77 | 77 |
| TOTAL | 91 | 91 | 81 | 80 | 13 | 12 | 71 | 73 | 73 | 59 | 112 | 57 | 79 | 67 | 11 | 9 | 1 | 1 | 33 | 33 | — | — | 3 | — | 21,156 | 1,156 |

TABLE No. 167—ANNUAL STATISTICS OF LEPERS TREATED IN LEPROSY UNITS DURING 1950

| Units | No. of Patients | | | General Notes on Lepers | | | | | | | | | | Transmission of Infection | | | | | | | | | | Type of infection | | | | |
|--------------------------|-----------------|----------|----------|-------------------------|---------|---------|-----------|-----------|------------|---------|-------|-----------------|-----------|---------------------------|-------------|-----------|-------------|--------|--------------|---------|------|--------------------|---------|-------------------|-----------------|------------|-------|-----|
| | New patients | Negative | Positive | Males | Females | Married | Unmarried | Egyptians | Foreigners | Moslems | Copts | Other religions | Deny Inf. | Admit Inf. | Forgn. Inf. | Fam. Inf. | Father only | Mother | Parents only | Husband | Wife | Sons and daughters | Sisters | Relatives | C.U. Tubercular | Anæsthetic | Mixed | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Abu Zaabal Colony | 307 | — | 307 | 99 | 208 | 148 | 159 | 306 | 1 | 289 | 17 | 1 | 277 | 30 | 13 | 17 | 2 | — | — | 4 | — | 1 | 8 | 2 | 8 | 170 | 129 | |
| Amria Colony | 84 | 2 | 82 | 82 | — | 28 | 54 | 81 | 1 | 80 | 2 | — | 64 | 18 | 8 | 10 | 1 | — | — | — | — | — | — | 9 | 6 | 41 | 35 | |
| Cairo Hospital | 279 | 120 | 159 | 117 | 42 | 90 | 69 | 158 | 1 | 146 | 13 | — | 116 | 43 | 16 | 27 | 3 | — | — | 1 | — | — | 9 | 14 | 15 | 91 | 53 | |
| Zagazig Clinic | 112 | 60 | 52 | 38 | 14 | 28 | 24 | 52 | — | 51 | 1 | — | 45 | 7 | — | 7 | 2 | — | — | — | — | — | — | 5 | — | 21 | 31 | |
| Souhag " | 83 | — | 83 | 64 | 19 | 47 | 36 | 83 | — | 70 | 13 | — | 82 | 1 | — | 1 | 1 | — | — | — | — | — | — | — | — | 36 | 47 | |
| Tanta " | 302 | 196 | 106 | 72 | 43 | 39 | 67 | 106 | — | 106 | — | — | 81 | 25 | — | 25 | 3 | 1 | — | — | — | — | 14 | 7 | 22 | 57 | 27 | |
| Minia " | 104 | 25 | 79 | 62 | 17 | 36 | 43 | 79 | — | 58 | 21 | — | 69 | 10 | — | 10 | 6 | — | — | — | — | 1 | 3 | — | — | 59 | 20 | |
| Alexandria " | 90 | 48 | 42 | 27 | 15 | 21 | 21 | 42 | — | 42 | 1 | — | 42 | — | — | — | — | — | — | — | — | — | — | — | 4 | 15 | 23 | |
| Mansoura " | 121 | 67 | 54 | 39 | 15 | 14 | 40 | 54 | — | 53 | 1 | — | 48 | 6 | — | 6 | 1 | — | — | — | — | — | 1 | 4 | — | 35 | 19 | |
| Shebin el Kom " | 430 | 360 | 70 | 52 | 18 | 42 | 28 | 70 | — | 70 | — | — | 61 | 9 | — | 9 | 2 | 1 | — | — | — | 1 | 2 | 3 | 2 | 47 | 21 | |
| Qena " | 50 | 5 | 45 | 40 | 5 | 29 | 16 | 45 | — | 42 | 3 | — | 42 | 3 | — | 3 | 3 | — | — | — | — | — | — | — | 2 | 29 | 14 | |
| Beni Suef " | 93 | 16 | 77 | 65 | 12 | 46 | 31 | 77 | — | 66 | 11 | — | 66 | 11 | — | 11 | 3 | — | — | — | — | 1 | 2 | 5 | 11 | 29 | 37 | |
| TOTAL | 2,055 | 899 | 1,156 | 757 | 399 | 568 | 588 | 1,153 | 3 | 1,072 | 83 | 1 | 993 | 163 | 37 | 126 | 27 | 2 | — | 5 | — | — | 4 | 39 | 49 | 70 | 630 | 456 |

TABLE No. 167.—ANNUAL STATISTICS OF LEPROSY TREATED IN LEPROSY UNITS DURING 1950 (contd.)

| | Age of Patients on first exam. | | | | | | | Age of Patients on appearance of disease | | | | | | | | | | | | Duration of Disease | | | | | | Laboratory findings | | | | | | | |
|-----------------------|--------------------------------|-------|-------|-------|-------|-------|-------------|--|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|-----------|-----------|-----------|------------|-------------|---------------------|-------------|--------|--------|------|------|-----------|----|
| | from 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 60 and over | from 1-5 | 6-10 | 11-15 | 16-20 | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | Over 60 | One years | Two years | 3-5 years | 6-10 years | 11-15 years | 16-20 years | 21 and over | Neg. B | Pos. B | Nose | Skin | N. and S. | |
| Abu Zaabal Colony ... | 5 | 39 | 176 | 52 | 25 | 10 | — | 2 | 12 | 71 | 110 | 44 | 37 | 14 | 9 | 1 | 2 | — | — | — | 49 | 92 | 115 | 38 | 9 | 4 | — | 125 | 182 | 47 | 33 | 102 | |
| Amria Hospital... | — | 11 | 25 | 27 | 14 | 3 | 2 | 1 | 7 | 16 | 24 | 7 | 10 | 5 | 5 | 4 | 1 | 2 | — | — | 3 | 7 | 19 | 23 | 13 | 6 | 11 | 39 | 43 | 1 | 6 | 36 | |
| Cairo „ | 3 | 50 | 25 | 25 | 11 | 4 | 1 | 1 | 11 | 23 | 33 | 33 | 26 | 10 | 7 | 8 | 4 | 2 | 1 | 1 | 38 | 46 | 37 | 10 | 6 | 2 | — | 79 | 80 | 12 | 9 | 59 | |
| Zagazig Clinic ... | — | 22 | 15 | 8 | 4 | 3 | — | — | 2 | 12 | 12 | 6 | 6 | 8 | — | 2 | 2 | — | 2 | — | 34 | 9 | 7 | 1 | — | 1 | — | 20 | 32 | 1 | 1 | 30 | |
| Souhag „ | — | 20 | 18 | 12 | 12 | 11 | 10 | 1 | 2 | 9 | 13 | 16 | 18 | 9 | 2 | 3 | 2 | 5 | 2 | 1 | 1 | 2 | 71 | 7 | 2 | — | — | — | 83 | 36 | — | 47 | — |
| Tanta ... | 15 | 38 | 23 | 17 | 8 | 4 | 1 | 5 | 21 | 18 | 12 | 14 | 9 | 7 | 8 | 6 | 2 | 1 | 2 | 1 | 45 | 24 | 27 | 7 | 2 | 1 | — | 54 | 52 | 13 | 3 | 36 | |
| Minia ... | 3 | 18 | 25 | 17 | 14 | 2 | — | — | 8 | 10 | 12 | 10 | 12 | 11 | 10 | 4 | 2 | — | — | — | 4 | 24 | 41 | 9 | — | 1 | — | 59 | 20 | 2 | 6 | 12 | |
| Alexandria „ | 1 | 14 | 13 | 5 | 3 | 5 | 1 | — | 4 | 9 | 6 | 8 | 4 | 2 | 1 | 1 | 2 | 4 | 1 | — | 4 | 7 | 21 | 10 | — | — | — | 14 | 28 | 1 | 7 | 20 | |
| Mansoura „ | — | — | 35 | 12 | 6 | 1 | — | — | — | — | 37 | 9 | 4 | 2 | 1 | 1 | — | — | — | — | 15 | 32 | 3 | 4 | — | — | — | 2 | 52 | 32 | 1 | 1 | 19 |
| Shebin el Kom C. | 8 | 10 | 25 | 10 | 11 | 6 | — | 1 | 8 | 9 | 7 | 11 | 11 | 5 | 5 | 2 | 3 | 5 | 2 | 1 | 5 | 24 | 27 | 13 | — | 7 | — | 42 | 28 | 5 | 20 | 3 | |
| Qena Clinic ... | — | 11 | 9 | 5 | 13 | 7 | — | — | 1 | 7 | 6 | 3 | 3 | 5 | 7 | 4 | 7 | 2 | — | — | 7 | 6 | 22 | 10 | — | — | — | 30 | 15 | — | 2 | 13 | |
| Beni Suef Clinic | 3 | 13 | 27 | 19 | 11 | 5 | 3 | 2 | 4 | 6 | 12 | 9 | 16 | 8 | 6 | 3 | 3 | 2 | 4 | 2 | 24 | 15 | 18 | 11 | 4 | 3 | 2 | 32 | 45 | — | 8 | 37 | |
| TOTAL ... | 38 | 246 | 452 | 209 | 132 | 61 | 18 | 13 | 80 | 190 | 284 | 175 | 156 | 86 | 61 | 39 | 30 | 22 | 14 | 6 | 249 | 288 | 408 | 143 | 36 | 19 | 13 | 496 | 660 | 150 | 96 | 414 | |

PART V.—RESEARCHES AND LABORATORY EXAMINATIONS

Chapter XXIII.—Summary of the Work of the Department of Laboratories

1.—*Bacteriological Section :*

The total number of specimens examined bacteriologically in the Central, Provincial and Branch laboratories, during the year 1950, amounted to 545,870.

2.—*Clinical Pathological Section :*

3,715 specimens were examined in the Section during the year under review.

3.—*Chemical Section :*

The total number of samples examined chemically in the Central laboratories as well as in the Tanta and Assiut laboratories, during the year 1950, was 93,118.

4.—*Water Section :*

(a) *Bacteriological Service :*

The total number of samples of water, aerated water, ice and syrup examined by this service during 1950 amounted to 9,855.

(b) *Chemical Service :*

During the year under review, 1,168 samples of water were subjected to chemical analysis.

5. *Antirabic Institute and Hospital :*

During the year 1950, 9,686 patients attended the Institute at Cairo. Of these 9,448 were fully treated.

The number of patients who attended the Antirabic Out-Centres at Alexandria and Luxor amounted to :

Alexandria 1,441 of whom 982 were fully treated.

Luxor 430 of whom 393 were fully treated.

6.—*Serum and Vaccine Laboratory :*

The following vaccines and sera were prepared during the year 1950.

| | | | |
|--|-----|---|-------|
| (i) T.A.B. Vaccine... | ... | 1,952,000 | ccs |
| (ii) Anti-cholera Vaccine | ... | 1,882,000 | ccs |
| (iii) Anti-plague Vaccine | ... | 210,000 | ccs |
| (iv) Typhus Vaccine | ... | 12,000 | ccs |
| (v) Calf Lymph Vaccine | ... | 15,750,000 | doses |
| (vi) Diphtheria prophylactic (Formal Toxoid) | ... | 1,838,500 | ccs |
| (vii) Diphtheria Antitoxin | ... | {3,000 Amp. of 10,000 I.U. each. 3,798 Amp. 4,000 I.U. each. | |
| (viii) Anti Tetanus | ... | 940,569 | ccs |
| (ix) Anti-Scorpion | ... | 810,148 | ccs |

Chapter XXIV.—Summary of the Work of the Research Institute and Hospital for Tropical Diseases

ARTICLES PUBLISHED IN THE JOURNAL OF THE EGYPTIAN MEDICAL ASSOCIATION

- (1) Report on the conference on Microbiology held at Rio de Janeiro (17-25th, September 1950): by Dr. A. Halawani.
- (2) Target cell anemia. Description of 3 cases, By Dr. Gamal Nor el Din and Dr. A. Awni.
- (3) The Causative organisms of Lobar Pneumonia in Egypt: by Dr. M.M. Dawoud and M. Elyan.
- (4) Recent advances in the Treatment of Bilharziasis Part I, by Dr. A. Halawani and Dr. M.M. Dawoud.
- (5) Recent advances in the Treatment of Bilharziasis, Part II Miracil D: by Dr. A. Halawani and M.M. Dawoud.
- (6) A Preliminary Report on Wia in the treatment of Amœbic Dysentery: by Dr. Gamal Nor el Din.
- (7) Treatment of Malaria cases with a single massive dose of the Anti-malarial Drugs. By Dr. A. Halawani and Dr. I. I. Baz.
- (8) Observations on the side effects of Miracil D: By Dr. Gamal Nor el Din and Dr. M. M. Dawoud.
- (9) Aureomycin in Intestinal Amoebiasis, A Preliminary Report: by Dr. A. Halawani, Dr. A. Abdallah & Dr. M. I. El Kordy.
- (10) Nursing Scheme at the Hospital for Tropical Medicine, London: by Atia Fahmy.
- (11) Health Security in Great Britain, Report and Observations: by Atia Fahmy.
- (12) Cardio-vascular complications in cases of Myxoedema: by Dr. Gamal Nor el Din.
- (13) *Dixa-Aestivalis* in Egypt: by Dr. I. I. Baz.

CLINICAL SECTION

During this year, 7,550 patients frequented the out-patient department. All the necessary investigations and particular research work were performed at the different sections of the Institute. Treatment for parasites and their complications was carried out both in the out-patient department and inside the hospital. 793 patients were found suffering from organic diseases.

Bilharziasis.—(1,131 cases) 6 per cent freshly prepared Repodral solution given intramuscularly in a dose of 1 c.c. per 12 Kgms. of body weight daily for 10 days. The apparent cure rate was 70 per cent on the average.

(2) Stibophen solution in the same concentration and dose as Repodral was tried about the end of the year and no toxic effects were observed.

(3) Oral Miracil D was tried and the results were given in the published literature.

Ancylostomiasis.—(857 cases). Carbon tetrachloride was given in a dose of 1 c.c. per 12 Kgms. of body weight and the result was 43 per cent cures after the first dose.

Severe anaemia (Hb less than 50 per cent) was found in 33 per cent of the cases.

Ascariasis.—(910 cases):

- (1) Oil of chinopodium in a dose of 1 c.c. per 24 Kgms. of body weight was used. 44 per cent cures were recorded after the first dose.

- (2) Hexylresorcinol in a dose of 1 grm. per patient over 12 years of age was tried with 77 percent cures after the first dose and 83 per cent cures after the second dose. No toxic effects were observed.
- (3) Hetrazan tablets were tried and the subject is still under investigation, though preliminary results approximate those of Crystoids.

Taeniasis.—(62 cases). Atebrin was used in a dose of 0.9gm. for adults weighing 60 Kgms. or more.

Heterophyes.—(8 cases). Filix mas was used in a dose of 4.c.cs. for adults weighing 60 Kgms. or more. Cure rate was 100 per cent after the first dose.

Hymenolepis nana.—(65 cases).

- (1) Filix mas was used as in heterophyes.
- (2) Chloroquin is under trial.

Amoebic Dysentery:

- (1) Enterovioform and Stovarsol tablets were used in the out-patient department.
- (2) Also Emetine was used.
- (3) About the recent modes of treatment details are mentioned in the published literature.

PROTOZOOLOGICAL SECTION

- (1) Trial experiments in an attempt to find some new and easy method for staining intestinal protozoa.
- (2) Studying the effect of Aureomycin on Amoebae of intestine (Published report).
- (3) Average percentage of Ent. histolytica infection in Egypt was found to range from 30 to 85% according to our methods which are:—
 - (a) Direct smear method and staining with iodine.
 - (b) Using Hematoxyline and quircitrine.
 - (c) Cultural methods.
 - (d) Zinc sulphate flotation method.
- (4) Use of Hydatid fluid in the diagnosis of E. histolytica.

BIOCHEMICAL SECTION

- (1) Application of the polarograph in estimating Sb III in blood in cases of bilharzia.
- (2) Analysis of samples of D.D.T. sent from the stores of the Ministry of Public Health.
- (3) Analysis of samples of Stibophen sent from the health unit of the Ministry of Education and from the Ministry of Public Health.
- (4) Study of the effect of alkalinity on the oxidation of Sb III.

BACTERIOLOGICAL SECTION

- (1) Wassermann Reaction, 739 Samples.
- (2) Agglutination test for Typhoid and Malta group. 58 Samples.
- (3) Blood Cultures, 13 Samples.
- (4) Urine Cultures, 339 Samples.
- (5) Stools, 65 Samples.

- (6) Sputum for T.B., 194 samples.
- (7) Sputum for Bilharzia Ova, 3 samples.
- (8) Smears of prostatic discharge, 11 samples.
- (9) Casoni test, 3 samples.
- (10) Hair for ring-worm, one case.

EXPERIMENTAL ANIMALS SECTION

- (1) Infection of gerbils with cercaria of *Schistosoma mansoni* and the use of the hatching method in diagnosis.
- (2) Maintenance of trypanosome species by passing them in mice.
- (3) Infecting mice and monkeys with micro-filaria.
- (4) Passing *Plasmodium bergi* in mice and the preparation of films and sections.
- (5) Biological trials on the infection of gerbils with Bilharzia.
- (6) Biological tests of Repodral, Stibophen, Emetine and Miracil.
- (7) Trials on the production of cancer of bladder in dogs.
- (8) Experiments on miracidia of Bilharzia.
- (9) Experiments on coccidiosis and the use of new lines of treatment.

MALARIOLOGY AND ENTOMOLOGY SECTION

- (1) 7,561 thick drop films were examined for malaria. 1.3 per cent were found positive, of which 23.3 per cent were M.T.M. and the rest B.T.M.
- (2) 24,170 films were examined for microfilaria of which 2 per cent proved positive.
- (3) 3,383 specimens of mosquito larvae were examined.
- (4) 124 specimens of fleas collected from rats trapped by the quarantine authorities were examined.
- (5) Visits to the research stations at Fayed, Khanka, Rosetta and Pyramids for supervision of research work on malaria, snails and filaria survey.

KHANKA MALARIA CONTROL STATION

- (1) Clearing drains, streams, ponds and swamps of weeds.
- (2) Spraying mosquito breeding areas with 5 per cent D.D.T. in malariol to kill larvae.
- (3) Spraying rice cultivated areas with the above-mentioned emulsion.
- (4) Draining some ponds in the neighbouring drains through connecting channels.
- (5) Filling in of small ponds and swamps.
- (6) Survey of malaria incidence in villages through taking blood films, and also spraying houses with D.D.T. emulsion.
- (7) Starting examination of inhabitants for parasites in stools and urine preparatory to their treatment.
- (8) Trials on the prophylactic treatment of malaria by the use of drugs as Quina-crine, Nivaquin, Paludrine and Resochin.
- (9) Trials on the use of some antimalarial drugs.
- (10) Starting search of drains, ponds and swamps for bilharzia snails and treating them with Copper sulphate.
- (11) 24,905 blood films were examined for malaria, 12.6 per cent were found positive for B.T.M. and 1.4 per cent positive for M.T.M.

FAYED MALARIA CONTROL STATION

- (1) Clearing ponds, swamps and drains of weeds.
- (2) Spraying these places with 5 per cent D.D.T. in malariol.
- (3) Filling in of small ponds and water collections.
- (4) Spraying of house latrines with the above mentioned emulsion.
- (5) Treatment of cases of malaria, bilharzia and intestinal parasites.
- (6) 7,062 blood films were examined for malaria of which 0.62 per cent were found positive for B.T.M.
- (7) 32 mosquito breeding areas were found of which 24 harboured *A. pharoensis* and 8 harboured *A. sergenti*.
- (8) Treatment of areas harbouring bilharzia snails with Copper sulphate.
- (9) Arranging for the construction of public latrines for inhabitants.

ROSETTA FILARIA STATION

- (1) Examination of mosquitoes and larvae in the area. The prevalent species was the *C. pipiens*.
- (2) The most important breeding places were the cesspits of houses, slaughter-house swamps, Wakf swamps, water tanks, wells and drains. The necessary measures were taken.
- (3) 5 per cent D.D.T. in malariol was found to be the best emulsion for eradication of larvae.
- (4) Infection rate with microfilaria was 5.71 per cent. Percentage in children was less than the year before as a result of the measures taken.
- (5) Hetrazan was used and found effective in microfilaria positive cases.
- (6) This type of treatment was tried on cases of chyluria and is still under trial.
- (7) Hetrazan was found of no effect on swellings of limbs.

Chapter XXV.—Memorial Ophthalmic Laboratory

The work of the Memorial Ophthalmic Laboratory during 1950 falls, as in previous years, under 4 main categories: (1) Research, (2) Routine Pathological examinations, (3) Clinical investigations, (4) Post-graduate instruction.

(1) *Research*.—Field experiments on the bacteriology, epidemiology and prevention of the acute ophthalmias were continued in two groups of villages. Interest was particularly centred on the effects of fly-control in limiting the spread of these diseases and very promising results were obtained. This work is now being carried on in collaboration with the Rural Health Research Section and the Rockefeller Foundation.

Some further progress was achieved in research on the infective agent of trachoma and new technique developed for the cultivation of the virus in chick embryos, etc.

Clinical trials were carried out with some of the newer antibiotics, but so far no consistent results have been obtained in uncomplicated Egyptian trachoma.

(2) *Routine pathology*.—In the course of the past year, 207 pathological specimens received from Government hospitals were reported on. Nearly 6,000 bacteriological examinations were carried out.

(3) *Clinical Department*.—Many patients were referred to the Laboratory during the year for special examination, second opinion and treatment.

(4) *Post-graduate instruction*.—The Director and other members of the staff of the Laboratory again gave courses of lectures and demonstrations to post-graduate students taking the D.C.M.S. of Cairo.

During 1950, many volumes were added to the reference library of the Laboratory, which now contains nearly 2,500 volumes.

APPENDICES

APPENDIX I.—Medical Permits.

TABLE NO. 168—NUMBER OF PRACTITIONERS OF THE MEDICAL AND ALLIED PROFESSIONS AT THE END OF THE YEAR 1950 AS COMPARED WITH THAT OF THE YEAR 1949.

| Professions | At the end of 1949 | At the end of 1950 |
|--------------------------------|-----------------------|-----------------------|
| Medical practitioners | 4,612 | 4797 |
| Veterinary Surgeons | 596 | 637 |
| Dental Surgeons | 584 | 591 |
| Dentists without Diplomas* ... | 107 | 106 |
| Pharmacists | 1,391 | 1487 |
| Midwives... .. | 996 | 1046 |
| Asistant Pharmacists*... .. | 322 | 321 |

* Permits are no longer issued to persons of these two categories.

TABLE NO. 169—NUMBER OF PERSONS AUTHORISED TO PRACTISE THEIR PROFESSIONS IN EGYPT DURING THE LAST FIVE YEARS.

| Professions | 1946 | 1947 | 1948 | 1949 | 1950 |
|------------------------------|------|------|------|------|------|
| Medical Practitioners | 194 | 142 | 128 | 186 | 218 |
| Veterinary Surgeons | 28 | 24 | 1 | 53 | 42 |
| Dental Surgeons | 8 | 14 | 19 | 32 | 9 |
| Pharmacists | 62 | 120 | 77 | 81 | 98 |
| Midwives | 61 | 68 | 30 | 32 | 50 |
| Kabela (Daya) | 192 | 141 | 221 | 56 | 7 |
| Barbers | 2 | 7 | 6 | 2 | 1 |

**TABLE No. 170.— ORIGIN OF MEDICAL DIPLOMAS WHOSE HOLDERS WERE AUTHORISED
TO PRACTISE MEDICAL PROFESSIONS DURING 1950**

| Professions | Cairo | Abbassia | Alexandria | Great Britain | Greece | Switzerland | France | Lebanon | America | Italy | Poland | Austria | Germany | Turkey | Total |
|--------------------|-------|----------|------------|---------------|--------|-------------|--------|---------|---------|-------|--------|---------|---------|--------|-------|
| Medicine | 155 | 19 | 18 | 7 | 2 | 2 | 6 | 3 | 2 | 1 | — | 1 | 2 | — | 218 |
| Veterinary Surgery | 42 | — | — | — | — | — | — | — | — | — | — | — | — | — | 42 |
| Dental Surgery | 4 | — | 1 | — | — | — | — | 2 | — | — | — | — | — | — | 7 |
| Pharmacy | 81 | — | — | 1 | 2 | — | 4 | 8 | — | — | 1 | — | — | 1 | 98 |
| Midwifery | 50 | — | — | — | — | — | — | — | — | — | — | — | — | — | 50 |

**TABLE No. 171.— NATIONALITIES OF PERSONS AUTHORISED
TO PRACTISE MEDICAL PROFESSIONS DURING 1950**

| Professions | Egyptians | Greeks | Americans | Saudi Arabians | British | Palestinians | French | Portuguese | Total |
|---------------------------|-----------|--------|-----------|-------------------|---------|--------------|--------|------------|-------|
| Medical Practitioners ... | 205 | 2 | 2 | 2 | 2 | 3 | 2 | — | 218 |
| Veterinary Surgeons ... | 42 | — | — | — | — | — | — | — | 42 |
| Dental Surgeons ... | 5 | — | — | — | — | 2 | — | — | 7 |
| Pharmacists ... | 91 | 5 | — | — | — | 2 | — | — | 98 |
| Midwives ... | 50 | — | — | — | — | — | — | — | 50 |

**TABLE No. 172.—ORIGIN OF MEDICAL DIPLOMAS OF EGYPTIAN PRACTITIONERS WHO
WERE AUTHORISED TO PRACTISE MEDICAL PROFESSIONS DURING 1950.**

| Professions | Cairo | Abbassia | Alexandria | Great Britain | Switzerland | France | Lebanon | Germany | Turkey | Austria | TOTAL |
|--------------------|-------|----------|------------|---------------|-------------|--------|---------|---------|--------|---------|------------|
| Medicine | 154 | 19 | 18 | 6 | 2 | 2 | 2 | 1 | — | 1 | 205 |
| Veterinary Surgery | 42 | — | — | — | — | — | — | — | — | — | 42 |
| Dentistry | 4 | — | 1 | — | — | — | 2 | — | — | — | 7 |
| Pharmacy | 78 | — | — | 1 | — | 4 | 7 | — | 1 | — | 91 |
| Midwifery | 50 | — | — | — | — | — | — | — | — | — | 50 |

**TABLE No. 173.—RESULT OF THE STATE EXAMINATION HELD DURING 1950
FOR MEDICAL PRACTITIONERS, PHARMACISTS AND DENTAL SURGEONS
HOLDING FOREIGN DIPLOMAS FOR THE PURPOSE OF RECORDING
THEIR NAMES IN THE MINISTRY'S REGISTER.**

| Examination | Number | EGYPTIANS | | FOREIGNERS | | TOTAL | |
|------------------|--------|-----------|--------|------------|--------|-----------|-----------|
| | | Succeeded | Failed | Succeeded | Failed | Succeeded | Failed |
| Medicine | 24 | — | — | 2 | 22 | 2 | 22 |
| Pharmacy | 9 | — | — | 3 | 6 | 3 | 6 |
| Dentistry | 14 | 2 | 2 | 3 | 7 | 5 | 9 |

Appendix II.—Report on the work of the Central Medical Commission and the other Governorate and Provincial Medical Commissions during the Year 1950

The Central Medical Commission :

The number of medical certificates issued by the Central Medical Commission during 1950 was 35,794 *i.e.* 3,812 certificates more than 1949, in spite of the extension of the attributions of the Medical Commissions in Governorates and Provinces to cover the granting and approval of sick leaves up till 60 days and the invaliding out of service of temporary officials and hors cadre employees and daily paid staff without further reference to the Central Medical Commission for final sanction.

Of this number 20,444 candidates for government service or educational missions abroad were examined by the Central Medical Commission. These consisted of 13,422 candidates for permanent or temporary posts, 336 for educational missions and 6,686 hors cadre posts.

62.11 per cent of the first group and 47.18 per cent of the last group passed the medical examination. Of the 37.89 per cent failures in the first group, 27.57 per cent failed in vision, myopia accounting for most of them; 4.5 per cent for defects of the urinary system, albumin or traces thereof being the main cause; 1.26 per cent for heart diseases with incompetency of the heart as the main complaint and 4.5 per cent for other diseases, *e.g.* varicoceles, hydroceles not treated or removed by operation, deformation, debility or respiratory diseases. Of the 52.82 per cent failures in the last group, 41.84 per cent failed in vision-Myopia accounting for most of them; 5.08 per cent failed in urine-albumin or traces thereof being the main cause; 6.86 per cent for heart diseases with incompetency of the heart as the main complaint and 5.04 per cent for other diseases, *e.g.* varicoceles, hydroceles not treated or removed by operation, deformity, debility, flat foot or respiratory diseases.

A total of 10,205 medical certificates dealt with leaves granted to government officials reporting sick. These consisted of 7,415 pensionable and temporary officials and 2,790 hors cadre employees.

Of those granted sick leaves by the C.M. Commission or by the Cairo Medical Officers of Health and approved by the C.M. Commission, 4,130 permanent and temporary officials and 1,204 hors cadre employees were found suffering from medical diseases, and 1,675 P. and T. officials and 634 H.C. employees suffered from surgical and ophthalmic diseases.

Herebelow are the diseases accounting for the sick leaves and the ratio of their prevalence :

TABLE No.174

| Diseases | Pensionable and Temporary Officials | | Hors Cadre Employees | |
|---|-------------------------------------|------------------------------|----------------------|------------------------------|
| | Number | Percentage to the Total % | Number | Percentage to the Total % |
| Nose and Larynx | 346 | 6·27 | 777 | 4·19 |
| Bronchi and Lungs | 423 | 6·29 | 112 | 6·09 |
| Heart and Blood Circulatory System | 567 | 9·77 | 48 | 2·62 |
| Stomach and Intestines | 137 | 2·26 | 36 | 1·96 |
| Liver | 465 | 8·01 | 73 | 4·24 |
| Kidneys and Cystis | 267 | 4·60 | 62 | 3·37 |
| Neurasthenia | 93 | 1·60 | 1 | 0·05 |
| Mental Diseases | 264 | 4·55 | 253 | 13·77 |
| Nervous system | 183 | 3·15 | 29 | 1·58 |
| Anaemia and General Debility... .. | 322 | 5·55 | 97 | 5·28 |
| T.B. | 476 | 8·19 | 276 | 15·02 |
| Syphilis | — | — | 3 | 0·16 |
| Rheumatism | 470 | 8·10 | 98 | 5·33 |
| Fevers | 66 | 1·14 | 31 | 1·69 |
| Other Medical Diseases | 33 | 0·57 | 3 | 0·16 |
| Eye Diseases | 147 | 2·53 | 35 | 1·91 |
| Ear Diseases | 44 | 0·76 | 9 | 0·49 |
| Appendicitis | 78 | 1·34 | 52 | 1·83 |
| Hernia... .. | 62 | 1·07 | 17 | 0·91 |
| Fistulas | 83 | 1·43 | 14 | 0·76 |
| Piles... .. | 99 | 1·71 | 30 | 1·63 |
| Hydroceles | 16 | 0·27 | 5 | 0·27 |
| Urinary System and Stones | 76 | 1·31 | 26 | 1·41 |
| Various Other Surgical Operations | 806 | 13·88 | 350 | 19·05 |
| Fractures | 195 | 3·36 | 78 | 4·24 |
| Dental Diseases | 69 | 1·10 | 18 | 0·98 |

48,017 officials and employees were granted from 1-10 days sick leaves by District Markaz or Out-post medical officers in all the Governorates and Provinces Of these, 37,217 or 77·5 per cent suffered from medical diseases, 7,590 or 15·8 per cent suffered from surgical diseases and 3,210 or 6·7 per cent suffered from ophthalmic diseases.

The total number of days sick leave granted to the P. and T. officials only amounted to 214,126.

1,477 P. and T. officials and 527 H.C. employees in Cairo only were granted from 1-10 days sick leave by the C.M. Commission or by Cairo Medical Officers of Health.

637 Permanent and Temporary officials and 173 Hors Cadre employees were examined by the C.M. Commission but were not granted any sick leave.

1,107 P. and T. officials and 1,186 H.C. employees were examined by the other Governorate and Provincial Medical Commissions but were not granted any sick leave.

4,328 P. and T. officials and 1,311 H.C. employees were granted from 11-30 days sick leave and over by the C.M. Commission and by Cairo Medical Officers of Health.

The C.M. Commission granted 29 P. and T. officials longer sick leaves terminating by their retirement on pension ; and pronounced 138 H.C. employees medically unfit for further service.

21 P. and T. officials and 30 H.C. employees were pronounced fit for further service.

Medical Examination of Private and Passenger Pilots :

Of 204 candidates for private pilot licence " A " examined by the C.M. Commission, 134 were found fit (112 in the first exam., 19 in the second and 3 in the third). 70 of 75 failures were examined once, 11 twice and 4 three times.

Of 25 candidates for passenger pilot licence " B " examined by the C.M. Commission, 23 were found fit (21 in the first exam. and 2 in the second). One of the failures was examined once and the other twice.

Out of 191 private pilots examined for renewal of licences, 178 were found fit (146 in the first exam., 32 in the second). 13 were found unfit (11 in the first exam. and 2 in the second).

Out of 151 passenger pilots examined for renewal of licences, 145 were found fit (142 in the first exam., 2 in the second and 1 in the third). 6 were found unfit (5 in the first exam. and 1 in the second).

Governorates and Provincial Medical Commissions :

A total of 54,893 medical certificates were issued by the Governorate and Provincial Medical Commissions i.e. an increase of 5,136 medical certificates over those of last year.

TABLE No. 175.—ANNUAL REPORT ON THE WORK OF THE CENTRAL, PROVINCIAL AND GOVERNORATE MEDICAL COMMISSIONS DURING THE YEAR 1950.

| Total | Defective Vision | | Urinary System | Respiratory System | | Circulatory System | Nervous System | | Digestive System | Other Systems | | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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| For Admission into Service | | | | | | | | | | | | | Candidates for Missions | | | | | | | | | | | | | For Sick Leave | | | | | | | | | | | | | Invaliding | | | | | | | | | | | | | For Determination of Age | | | | | | | | | | | | | Other Examinations | | | | | | | | | | | | | (Total) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | | P. & T. | | | | | | | | | | | | | H. C. | | | | | | | | | | | | |

N.B.—P. = Pensionable, T. = Temporary, H.C. = Hors Cadre.

TABLE No. 176.—CLASSIFICATION OF DISEASES CONTRACTED BY OFFICIALS AND EMPLOYEES FOR WHICH SICK LEAVES WERE GRANTED BY THE CENTRAL, PROVINCIAL AND GOVERNORATE MEDICAL COMMISSIONS AND BY THE DISTRICT M.O.S.H. IN CAIRO AND APPROVED BY THE C.M.C. DURING THE YEAR 1950.

DISEASES

| | Medical Diseases | | | | | | | | | | | | | | | Surgical and Ophthalmic Diseases | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------|-------------------|---------------------------------|------------------------|-------|-------------------|--------------|-----------------|----------------------------------|------------------------------|-------|----------|------------|-------|------------------------|----------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------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| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | Total | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Nose and Larynx | Bronchi and Lungs | Heart and Cir. System for blood | Stomach and Intestines | Liver | Kidneys and Cysts | Neurasthenia | Mental Diseases | Nervous System (Cereb. and Cord) | Anaemia and General Debility | T. B. | Syphilis | Rheumatism | Fever | Other Medical Diseases | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. | P. & T. | H. C. |

N.B.—P. = Pensionable T. = Temporary. H.C. = Hors Cadre.

Appendix III.—Report on the Work of the Central Stores

The Central Stores continued to supply new and old units with the most modern apparatus, equipment and drugs. During the year under review, the following new units were furnished and equipped:

- 2 Ancylostoma branches at Desouk and Nag Hammadi.
- 1 Mobile unit for the Frontier Districts Medical Section in the Eastern Desert.
- 5 Hospitals at Teh el Baroud, Maghagha, Hehya, Mallawi and Shukri Pasha, Manchiet el Bakri.
- 4 Chest Diseases Dispensaries at Zagazig, Shebin el Kom, Damanhour and Mallawi. Two stationary mass radiography units were installed at Muftadayan and Alexandria Chest dispensaries.
- 1 Bacteriological Laboratory at Damanhour.
- 2 Leprosy clinics at Beni Suef and Beba.
- 2 Ophthalmic branches at Behout and Teh el Baroud.
- 4 Bilharzia Control inspections at Shebin el Kom, Tanta, Fouadia West at Kafr el Sheikh and Fouadia East at Belqas.
- 5 Health Offices at Abu Hommos, Samsatal Wakf, Awlad Gabara and Mehres.
- 3 Fever hospitals at Fareskour, Tahta and Kafr el Dawar.
- 6 Child Welfare units at Tema, Dekernis, Etsa, Abshaway, Kalaa and Ismailia.
- 17 Health centres at Teta (Menoufia), Faroukia (Qaliubia), Bisentiwai (Behera), Menshat el Kurdi (Gharbia), Kom el Dirby, Negiar and Kafr Ghanam (Dakahlia), Tel el Kebir, Singha, Basateen Barakat, Shubak Basta and Akhaiwa (Sharkia), Tamia and Matar Tares (Fayoum), Atawla (Assiut), Sheikh Marzouk (Gerga), and Kift (Qena).
- 43 Public baths at Mehallet Marhoum (Gharbia), Saadiyeen and Mit Yazid (Sharkia), Mashtoul el Kadi and Hilma (Fouadia), El Mai, Shubra Bas, Shatanouf, Shanshour Agaiza, Kafr Rabie, Shuhada, Menouf I, Menouf II and Tanbadi (Menoufia), Balaks, Tanan, Musturod and Manadil (Qabliubia), Birkash, Menshat el Bakari, Bani Magdal, Ikhsas el Kiblia, Badrashain, Basateen, Abu Suer and Sakkara (Giza), Bosh, Miana el Galabia, Maimoun and Ashmant (Beni Suef), Defno, Tatoun, El Gharak, El Robe and Kasr el Gibali (Fayoum), Bergaya (Minia), Gerahia (Qena), Nag el Hasa (Aswan), and Balsafoura and Edfo (Gerga).

TABLE NO 177.—CONTRACTS CONCLUDED DURING THE YEAR.

| Type of Work | Number |
|---|--------|
| Questions submitted to Contracts Board | 1,032 |
| Meetings held by Contracts Board | 140 |
| General Adjudications | 291 |
| Tenders submitted in general adjudications | 1,347 |
| Local adjudications | 91 |
| Tenders submitted in local adjudications | 191 |
| Contracts | 595 |
| Agreements | 4 |
| Local orders | 85 |
| Foreign orders | 16 |
| Forms 50 c. g.... .. | 3,287 |
| Purchases by Negotiation | 50 |

TABLE NO. 178.—SUMMARY OF ACTIVITIES DURING THE YEAR.

| Type of Work. | Number |
|---|---------|
| Receipt Vouchers | 11,316 |
| Issue Vouchers, free of charge | 57,983 |
| Issue Vouchers, against payment | 3,049 |
| Claims... .. | 1,388 |
| Outward correspondence | 187,099 |
| Inward correspondence and forms | 173,940 |
| Postal parcels dispatched | 13,770 |
| „ „ received | 2,331 |
| Railway consignments received | 1,697 |
| „ parcels dispatched | 37,554 |
| Repairs carried out by Workshops | 84,396 |
| New works „ „ „ „ | 85,258 |

Appendix IV.—Budget Credits and Details of Posts

Central Administration

TABLE NO. 179.—BUDGET CREDITS

| TITLES | Budget Credits | | Actual Expenditures | |
|---------------------------------------|------------------|------------------|---------------------|------------------|
| | 1949 | 1950 | 1949 | 1950 |
| | L.E. | L.E. | L.E. | L.E. |
| TITLE I | | | | |
| Salaries, Wages and Allowances | 1,046,503 | 953,541* | 929,718 | 877,619 |
| TITLE II | | | | |
| General Expenditures | 1,203,400 | 1,720,050† | 1,219,092 | 1,693,745 |
| TITLE III | | | | |
| New Works | 846,000 | 798,250 | 513,290 | 635,577 |
| TOTAL | 3,095,903 | 3,471,841 | 2,662,100 | 3,206,941 |

* This sum includes L.E. 2,500 representing salaries, wages and allowances of Museum of Hygiene inserted under item 19 (Chapter 2.)

† This sum includes an additional credit of L.E. 575,000 granted under Law No. 30 of 1951.

DETAILS OF POSTS

| Posts | 1949 | 1950 |
|---|--------------|--------------|
| <i>Permanent Posts :</i> | | |
| Senior Technical and Administrative Posts | 894 | 868 |
| Intermediate Technical Posts | 760 | 725 |
| Clerical Posts | 734 | 705 |
| <i>Temporary Posts :</i> | | |
| Technical Posts | — | — |
| Clerical Posts | 232 | 198 |
| Hors Cadre Personnel... .. | 5,369 | 5,146 |
| TOTAL | 7,989 | 7,642 |

Medical Treatment Department

TABLE NO. 180.—BUDGET CREDITS

| Title | Budget Grants | | Actual Expenditures | |
|--|------------------|------------------|---------------------|------------------|
| | 1949 | 1950 | 1949 | 1950 |
| TITLE I | | | | |
| Salaries, Wages and Allowances. | 431,645 | 475,800 | 358,572 | 399,362 |
| TITLE II | | | | |
| General Expenditures | 786,000 | 660,400 | 622,132 | 659,843 |
| TITLE III | | | | |
| New Works | 319,300 | 504,500 | 39,686 | 139,807 |
| TOTAL | 1,536,945 | 1,640,700 | 1,020,390 | 1,199,012 |

DETAILS OF POSTS

| Posts | 1949 | 1950 |
|---|--------------|--------------|
| <i>Permanent Posts :</i> | | |
| Senior Technical and Administrative Posts | 638 | 667 |
| Intermediate Technical Posts | 273 | 291 |
| Clerical Posts | 161 | 174 |
| <i>Temporary Posts :</i> | | |
| Technical | 43 | 143 |
| Clerical | 45 | 48 |
| Hors Cadre Personnel | 3,668 | 3,766 |
| TOTAL | 4,828 | 5,089 |

Preventive Medicine Department.

TABLE No. 181.—Budget Credits

| Titles | Budget Grants. | | Actual Expenditures | |
|-----------------------------------|------------------|------------------|---------------------|------------------|
| | 1949 | 1950 | 1949 | 1950 |
| TITLE I | | | | |
| Salaries Wages and Allowances ... | 606,590* | 588,660 | 579,799 | 587,599 |
| TITLE II | | | | |
| General Expenditures | 400,000 | 419,000 | 298,484 | 404,892 |
| TITLE III | | | | |
| New Works | 81,300 | 117,700 | 12,759 | 81,110 |
| Total | 1,087,890 | 1,125,360 | 891,042 | 1,073,601 |

*An additional credit of L.E. 83,000 was granted by law No. 157 of 1949

Details of Posts

| Posts | 1949 | 1950 |
|---|--------------|--------------|
| <i>Permanent Posts :</i> | | |
| Senior Technical and Administrative Posts | 322 | 356 |
| Intermediate Technical Posts | 435 | 516 |
| Clerical Posts | 323 | 420 |
| <i>Temporary Posts :</i> | | |
| Technical Posts | — | — |
| Clerical Posts | 95 | 103 |
| Hors Cadre Personnel | 2,518 | 2,914 |
| TOTAL | 3,693 | 4,309 |

Appendix V.—International Health

WORLD HEALTH ORGANIZATION

World Health Assembly :

The World Health Assembly held its Third Session in Geneva during the period 8-27 May, 1950, where Egypt was represented by a delegation composed of :

Late Dr. M. K. Abdel Khalik, Bey, the ex. U.S.S. of the Ministry ... *President*

| | | |
|---|---|----------------|
| Dr. Abdel Fattah el Tobgi, Bey, Professor Kasr el Aini Faculty of Medicine | } | <i>Members</i> |
| Dr. M. M. Sidky, Director, Food Control Section | | |

Executive Board :

Egypt's membership in the Executive Board ended on May 1950 whence the Board became composed of representatives of the following member states :

Republic of the Philippines, Sweden, Turkey, Venezuela, United Kingdom, United States of America, Chile, Italy, Salvador, France, Pakistan, Thailand, Brazil, India, Netherlands, Poland, Union of South Africa and Yugoslavia.

Regional Committee :

The Regional Committee for the Eastern Mediterranean held its Third Session in Istamboul during the period 4-7 September 1950, followed by a Regional Conference on Health Statistics. An Exhibit of Public Health Education Material from Egypt was also held during that Session.

Egypt was represented in these meetings by a delegation composed of seven members

Expert Committees :

The WHO issued several Technical Report Series of its Experts Committees which were distributed to the Departments and Sections concerned for necessary action.

The following Experts Committees were attended by Experts from Egypt :

TABLE NO. 182

| Name of Experts Committee | Place | Session |
|---|----------|------------|
| Committee on Unification of pharmacopœia | New-York | 20-29/4/50 |
| Committee on Tuberculosis | Geneva | 11-16/9/50 |
| Committee on Epidemiology and Quarantine | " | 9-18/10/50 |

Nomination, of Egyptian Experts for surveys and studies abroad.

Dr. M. A. K. El Dalgamouny, Director, Leprosy Section of the Ministry was seconded to the WHO for training the Ethiopian Health Authorities on the methods of treating leprosy by Sulfetrone.

Egypt's Contribution to the WHO Budget :

Egypt's contribution for 1950 amounted to \$ 55,773 and was paid on May 3, 1950.

World Health Day :

The Ministry celebrated the World Health Day on April 7, 1950, being the anniversary of the ratification of the WHO Constitution by 26 Members of the United Nations on April 7, 1948.

Principal Activities of International Organizations in Egypt during 1950 :

(1) The Mass B.C.G. Vaccination Campaign continued in Egypt the whole year with the assistance of the United Nations International Children's Emergency Fund and the Danish Red Cross.

(2) Arrangements have been taken for the establishment at Tanta in 1951 of a Venereal Diseases Control Demonstration Centre with the cooperation of WHO.

(3) The Ministry agreed to apply in Egypt the Sixth Revision of the International List of Diseases and Causes of Death (WHO Regulations No. 1) as from January 1, 1951.

(4) Some experts came to Egypt and discussed with the Ministry some health problems.

(5) A Nutrition Training Centre for the Middle East was established in Cairo on October 1, 1950 with the cooperation of WHO & FAO. The course lasted for 3 months and was attended by candidates from the countries of the Region.

(6) WHO supplied the Ministry with many publications and teaching equipment which were distributed to its Departments.

CONFERENCES

The following are the conferences held in 1950 and were attended by representatives of the Ministry :

TABLE No. 183

| Name of Conference | Place | Date |
|---|----------------------|----------------|
| Permanent Committee of the " Office International d'Hygiene Publique.... .. | Geneva | 5- 6/5/50 |
| XVIth International Congress of Ophthalmology | London | 17-21/7/50 |
| Fifth International Cancer Congress | Paris | 17-22/7/50 |
| VIth International Pediatric Congress... .. | Zurich | 21-31/7/50 |
| VIth International Congress of Radiology. | ^{a-} London | 23-29/7/50 |
| Congress of the International Union against Venereal Diseases | Zurich | 29/7-1/8/50 |
| Fifth International Congress of Microbiology | Rio de Janeiro | 17-24/8/50 |
| Ist International Congress of Heart Diseases | Paris | 3- 9/9/50 |
| XIth Conference of the International Union against Tuberculosis | Copenhagen | 3- 6/9/50 |
| Ist International Congress of Chest Diseases Specialists | Rome | 15-19/9/50 |
| International Congress of Psychiatry.... .. | Paris | 18-27/9/50 |
| Symposium on Tropical Medicine... .. | Beirout | 18-19/9/50 |
| 2nd United Nations Social Welfare Seminar for the Arab States | Cairo | 22/11-14/12/50 |

FELLOWSHIPS

The following fellowships were awarded in 1950 at the expense of WHO or UNICEF:

TABLE No. 184

| Subject Study | Country of study | Time |
|---|---------------------------------------|---------------------------|
| Sanitary Engineering ... | U.S.A.... | July 1950. |
| „ „ | „ | July 1950. |
| V.D. Control | U.S.A.... | 9 months from, 8/10/1950. |
| Social and Economical Aspects of T.B, | Denmark, England and U.S.A. | 5 months from 15/1/1950. |
| Pediatrics | France... .. | 4 months from 1/3/1950. |
| „ | „ | 4 months from 1/3/1950. |
| „ | Stockholm | 2 months from 1/9/1950. |

CONVENTIONS

(1) On August 25, 1950, an Agreement was concluded between the Government of Egypt and the World Health Organization for the provision of Services by WHO in Egypt. It was promulgated by Law No. 174 of 1950 and Decree of January 23, 1951.

(2) On September 12, 1950, an Agreement was concluded between the Government of Egypt and the United Nations Relief and Works Agency for Palestine Refugees in the Near East. It was promulgated by Law No. 175 of 1950.

Appendix VI.—Summary of Report on the State of Public Health in Alexandria.

TABLE No. 185.—AGE AND SEX DISTRIBUTION OF BIRTHS AND DEATHS ACCORDING TO QISMS.

| Qisms | Births | | | | Deaths | | | | | | | | | | | |
|---------------------|-------------|--------|--------------|--------|----------------|--------|-----------|--------|------------|--------|-------------|--------|-------------|--------|---------------|--------|
| | Live Births | | Still Births | | Under one year | | 1—5 years | | 5—15 years | | 15—45 years | | 45—65 years | | Over 65 years | |
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| Gumrok | 3,062 | 2,816 | 33 | 23 | 578 | 545 | 237 | 255 | 22 | 26 | 62 | 45 | 111 | 57 | 233 | 209 |
| Manshiet... .. | 750 | 708 | 3 | 3 | 136 | 140 | 54 | 61 | 5 | 4 | 20 | 15 | 39 | 18 | 47 | 60 |
| Labban | 1,650 | 1,626 | 3 | 5 | 311 | 284 | 191 | 175 | 18 | 13 | 52 | 28 | 88 | 44 | 150 | 130 |
| Attarine | 1,720 | 1,736 | 127 | 112 | 236 | 227 | 131 | 115 | 52 | 40 | 342 | 181 | 323 | 142 | 168 | 120 |
| Mina El Basal I ... | 2,868 | 2,611 | 175 | 130 | 375 | 377 | 151 | 169 | 19 | 13 | 45 | 51 | 37 | 27 | 61 | 102 |
| „ II | 1,338 | 1,322 | 4 | 2 | 293 | 284 | 144 | 163 | 16 | 14 | 28 | 21 | 34 | 22 | 72 | 81 |
| Karnouz I | 1,916 | 1,903 | 36 | 19 | 376 | 384 | 209 | 220 | 16 | 19 | 53 | 44 | 59 | 55 | 114 | 113 |
| „ II | 2,315 | 2,433 | 7 | 5 | 391 | 431 | 212 | 216 | 16 | 22 | 37 | 40 | 74 | 54 | 82 | 80 |
| „ III | 2,065 | 2,018 | 24 | 15 | 399 | 420 | 243 | 249 | 15 | 21 | 36 | 22 | 49 | 35 | 86 | 80 |
| Moharram Bey ... | 2,614 | 2,540 | 52 | 41 | 400 | 373 | 332 | 301 | 67 | 49 | 141 | 103 | 125 | 94 | 130 | 136 |
| Hadra | 3,247 | 3,014 | 66 | 76 | 490 | 509 | 230 | 253 | 33 | 18 | 120 | 102 | 237 | 189 | 253 | 253 |
| Raml I | 2,413 | 2,348 | 6 | 3 | 445 | 418 | 223 | 267 | 15 | 7 | 81 | 37 | 85 | 60 | 99 | 112 |
| „ II | 1,145 | 1,069 | 17 | 8 | 231 | 227 | 110 | 117 | 11 | 8 | 34 | 30 | 39 | 17 | 61 | 64 |
| TOTAL | 27,103 | 26,144 | 553 | 442 | 4,663 | 4,617 | 2,467 | 2,561 | 305 | 254 | 1,051 | 719 | 1,300 | 814 | 1,556 | 1,546 |
| | | | | | | | | | | | | | | | 11,342 | 10,511 |

TABLE No. 186.—AGE AND SEX DISTRIBUTION OF INFECTIOUS DISEASES CASES AND DEATHS
IN ALEXANDRIA 1950

| Disease | Sex | 0-1 Year | | 1-5 Years | | 5-15 Years | | 15-25 Years | | 25-45 Years | | 45-65 Years | | 65 and over | | TOTAL | |
|---------------------------------|-----|-------------|--------|--------------|--------|---------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|-------|--------|
| | | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Typhus | M | — | — | — | — | — | — | 1 | — | 3 | — | 1 | — | — | — | 5 | — |
| | F | — | — | — | — | — | — | 1 | — | 1 | — | — | — | — | — | 2 | — |
| Encephalitis ... | M | 2 | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 3 | — |
| | F | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Leprosy | M | — | — | — | — | — | — | 1 | — | — | — | — | — | 1 | — | 2 | — |
| | F | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Puerperal Fever | M | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | F | — | — | — | — | — | — | 23 | — | 76 | 8 | 2 | — | — | — | 101 | 8 |
| Cerebro Spinal Fever | M | 15 | 9 | 47 | 11 | 89 | 10 | 50 | 11 | 29 | 8 | 9 | 3 | — | — | 239 | 52 |
| | F | 7 | — | 30 | 5 | 70 | 4 | 25 | 2 | 22 | 4 | 10 | 4 | — | — | 164 | 19 |
| Rabies | M | — | — | — | — | — | — | 1 | 1 | — | — | — | — | — | — | 1 | 1 |
| | F | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Scarlet Fever ... | M | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | F | — | — | 1 | — | 1 | — | 1 | — | — | — | — | — | — | — | 3 | — |
| Tetanus | M | 4 | 4 | 4 | 3 | 5 | 3 | 6 | 1 | 7 | 5 | 7 | 4 | — | — | 33 | 20 |
| | F | 6 | 5 | 2 | 2 | 1 | 1 | 4 | 1 | 3 | 1 | 1 | 1 | — | — | 17 | 11 |
| Acute Poliomyelitis | M | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | F | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Undulant Fever... | M | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | 1 | — |
| | F | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Whooping Cough | M | 25 | 3 | 111 | 6 | 18 | 1 | — | — | 1 | — | — | — | — | — | 155 | 10 |
| | F | 24 | 1 | 73 | 7 | 17 | 1 | — | — | — | — | — | — | — | — | 114 | 9 |
| Chicken Pox ... | M | 63 | — | 184 | — | 89 | — | 10 | — | 3 | — | — | — | — | — | 349 | — |
| | F | 53 | — | 112 | — | 56 | — | 4 | — | 2 | — | — | — | — | — | 227 | — |
| Diphtheria | M | 11 | 2 | 91 | 23 | 36 | 5 | 1 | — | 2 | 1 | — | — | — | — | 141 | 31 |
| | F | 7 | 3 | 67 | 27 | 39 | 10 | 2 | — | 1 | — | — | — | — | — | 116 | 40 |
| Malaria | M | 1 | — | 7 | — | 4 | — | 22 | — | 24 | 1 | 11 | — | — | — | 69 | 1 |
| | F | — | — | 5 | — | 3 | — | 4 | — | 7 | — | 2 | — | — | — | 21 | — |
| Parotitis | M | 1 | — | 32 | — | 215 | — | 75 | — | 45 | — | 2 | — | — | — | 370 | — |
| | F | 1 | — | 20 | — | 154 | — | 20 | — | 13 | — | 2 | — | 1 | — | 211 | — |
| Erysipelas | M | 24 | 2 | 34 | 1 | 18 | — | 69 | — | 100 | 1 | 77 | 3 | 16 | 3 | 338 | 10 |
| | F | 29 | — | 71 | — | 15 | — | 29 | — | 93 | — | 70 | 1 | 6 | — | 283 | 1 |
| Dysentery Be. ... | M | — | — | 10 | — | 9 | 1 | 21 | 1 | 33 | 2 | 14 | 1 | 3 | 1 | 90 | 6 |
| | F | 1 | — | 7 | — | 8 | 1 | 8 | — | 27 | 1 | 11 | — | — | — | 62 | 2 |
| Dysentery Amœe. | M | 3 | 3 | 3 | 3 | 3 | 3 | 11 | 3 | 30 | 2 | 16 | 7 | 1 | — | 67 | 21 |
| | F | 1 | 1 | 8 | 7 | 2 | 1 | 6 | — | 21 | 6 | 4 | 1 | 1 | 1 | 43 | 17 |
| Influenza | M | 20 | — | 170 | — | 140 | — | 511 | — | 501 | — | 102 | 1 | 5 | — | 1499 | 1 |
| | F | 26 | — | 99 | — | 87 | — | 215 | — | 235 | — | 47 | 1 | — | — | 709 | 1 |
| Measles | M | 88 | 3 | 491 | 20 | 78 | 1 | 3 | — | 4 | — | 1 | — | — | — | 665 | 24 |
| | F | 77 | 7 | 321 | 32 | 65 | 2 | 1 | — | 2 | — | — | — | — | — | 463 | 41 |
| Paratyphoid A&B | M | — | — | 13 | 1 | 24 | 1 | 28 | 1 | 32 | — | 4 | — | — | — | 101 | 3 |
| | F | — | — | 8 | — | 17 | 1 | 15 | 1 | 7 | — | 1 | — | — | — | 48 | 2 |
| Typhoid | M | 6 | 1 | 70 | 9 | 100 | 6 | 75 | 3 | 65 | 6 | 17 | 4 | 3 | — | 336 | 29 |
| | F | 6 | — | 48 | 7 | 90 | 10 | 35 | 4 | 50 | 8 | 13 | 1 | 3 | — | 245 | 30 |
| Broncho Pneumo- nia | M | 507 | 201 | 704 | 368 | 117 | 49 | 16 | 6 | 41 | 10 | 30 | 23 | 13 | 8 | 1228 | 665 |
| | F | 214 | 161 | 525 | 315 | 80 | 49 | 18 | 5 | 28 | 8 | 18 | 10 | 6 | 6 | 889 | 554 |
| Lobar Pneumonia | M | 65 | 20 | 152 | 15 | 62 | 10 | 85 | 3 | 114 | 13 | 52 | 12 | 4 | 2 | 574 | 75 |
| | F | 35 | 12 | 134 | 12 | 40 | 4 | 15 | 3 | 40 | 5 | 14 | 2 | 6 | 3 | 284 | 41 |
| Pulmonary... .. | M | 4 | 1 | 22 | 16 | 38 | 18 | 240 | 108 | 306 | 173 | 138 | 73 | 10 | 6 | 758 | 390 |
| Tuberculosis ... | F | 3 | 1 | 13 | 7 | 33 | 15 | 107 | 66 | 141 | 85 | 37 | 20 | 2 | 1 | 336 | 196 |
| T.B. of other organs | M | — | — | 6 | 6 | 9 | 9 | 12 | 12 | 14 | 14 | 8 | 7 | — | — | 49 | 48 |
| | F | — | — | 2 | 2 | 14 | 13 | 10 | 9 | 6 | 6 | 3 | 2 | — | — | 35 | 32 |
| Granular Menin- gitis | M | 3 | 3 | 4 | 3 | 1 | 1 | 3 | 3 | 1 | 1 | — | — | — | — | 12 | 11 |
| | F | — | — | 1 | 1 | 2 | 2 | — | — | — | — | — | — | — | — | 3 | 3 |

Appendix VII.—Report on the Work of Cairo City Health Department

Population :

The estimated mid-year population of Cairo City in 1950 was 2,266,900. Table No. 187 gives the distribution of this population in the different Qisms.

TABLE No. 187

| Qism | Population |
|-----------------------|------------------|
| Qubba... .. | 91,000 |
| Heliopolis | 90,600 |
| Zeitoun | 87,500 |
| Abbassia | 133,000 |
| Ezbekia | 107,900 |
| Rod el Farag | 183,700 |
| Shubra | 121,400 |
| Sharabia | 77,000 |
| Gamalia | 118,000 |
| Bab el Shaaria | 131,600 |
| Abdin | 93,300 |
| Mouski | 77,600 |
| Darb el Ahmar | 114,300 |
| Khalifa | 124,900 |
| Sayeda I | 108,500 |
| Sayeda II | 99,500 |
| Boulaq I | 68,000 |
| Boulaq II | 75,500 |
| Adawia | 68,700 |
| Old Cairo | 110,400 |
| Helwan | 49,500 |
| Maadi | 46,000 |
| Hadayeq Shubra | 89,000 |
| TOTAL | 2,266,900 |

Births :

The total number of births, excluding still births, recorded during the year was 113,448 or 9,402 more births than the previous year and a birth rate of 50.06 per 1,000 of population. Table No. 188 gives the distribution of births according to Qisms and their rates per 1,000 of population.

Still births registered during the year totalled 2,000 or 17.62 per 1,000 births as against 1,876 and 18.02 in 1949 ; 1,831 and 18.4 in 1948 and 2,081 and 18.39 in 1947.

Deaths :

A total of 52,184 deaths were recorded during the year. Of this number, 1,512 were non-residents of Cairo City and 2,000 were still births. This leaves 48,672 deaths for Cairo proper, or 1,094 deaths less than last year, and a death rate of 21.47 per 1,000 of population as against 22.7, 25.1, 27.5 and 33.7 in 1949, 1948, 1947 and 1946 respectively.

Table No. 188 gives the distribution of deaths and death rates on the various Qisms.

Infantile Mortality :

The total number of infantile deaths under one year of age was 20,269 or 178.6 per 1,000 live births as against 183 in 1949, 191 in 1948, 161 in 1947 and 200 in 1946.

Infantile deaths constituted 41.6 per cent of total Cairo deaths as against 38.2 in 1949, 38.1 in 1948, 39.3 in 1947 and 36.6. in 1946.

Causes of Infantile Deaths :

Diarrhoea and enteritis continue to be the main causes of infantile deaths, having accounted for 11,539 deaths out of a total of 20,269 infantile deaths or a ratio of 56.9 per cent. Next comes Debility accounting for 5,991 or 29.6 per cent, and respiratory system diseases accounting for 1,613 or 7.9 per cent (excluding deaths from pneumonia). Other diseases accounted for 593 deaths or 2.9 per cent, while infectious diseases accounted for 533 deaths or 2.6 per cent.

Death Inquiries :

Qism medical officers of health examined 6,739 uncertified deaths and Qism midwives examined 16,665.

Infectious Diseases :

The number of cases of infectious diseases reported in Cairo City was 18,455 or 8 per thousand of population as against 18,406 in 1949, 14,793 in 1948 ; 14,413 in 1947 and 29,196 in 1946. Deaths from infectious diseases numbered 4,157 or 7.9 per cent of total Cairo deaths, as against 9.9 per cent in 1949 ; 9.6 in 1948 and 1947 and 11.5 per cent in 1946.

Tables Nos. 190 and 191 give the number of cases and deaths of infectious diseases in Cairo City and the distribution of the more prevalent diseases in Cairo Qisms together with the case and death rates.

Cholera :

No cases or deaths were notified during this year nor the previous year, which shows that the control measures taken were effective in exterminating the disease.

Relapsing Fever :

No cases or deaths were reported during this year, nor the two previous years. Thus the epidemic which broke out in 1945 disappeared in 1947, thanks to the control measures adopted including the regular D.D.T. dusting of the poorer quarters. 2,452,904 persons were dusted with D.D.T. during the year.

Small Pox :

One case with no deaths was notified this year as against 2 cases and no deaths in the previous year.

Anti Small Pox Vaccination :

The 4 year anti small pox general vaccination was started in 1946 by house to house teams. Persons vaccinated numbered 286,715 in 1946, 645,764 in 1947, 552,074 in 1948 and 321,501 in 1949. This completes the vaccination of the whole population of Cairo and amounts to 1,806,054.

During this year 188,020 persons were vaccinated at Shubra Gardens, Qubba, Heliopolis, Darb el Ahmar, Sayeda I and II, and Mouski Qisms. Another 151,988 persons attending hospitals were also vaccinated bringing the total vaccinated during the year to 340,088 persons. New born infants vaccinated at the public health offices numbered 108,184.

Typhus :

32 cases with two deaths were reported or a ratio of 0.014 and 0.0008, respectively per thousand of population and a case-mortality rate of 6.25 per cent, as against 13 cases and no deaths and a ratio of 0.006 in 1949, 30 cases and no deaths and a ratio of 0.014 in 1948 and 49 cases with 10 deaths and a ratio of 0.031 and 0.016 respectively per thousand in 1947.

Typhoid :

3,711 cases with 359 deaths were reported or a ratio of 1.6 and 0.158 per thousand of population and a case mortality rate of 9.16 per cent, as against 4,066 cases with 380 deaths and a ratio of 1.9 and 0.16 respectively in 1949 and 2,581 cases with 293 deaths and a ratio of 1.23 and 0.14 in 1948.

Persons inoculated against typhoid numbered 294,295 receiving the first injection and 149,117 receiving the second injection.

Children between 1 and 5 years immunised against typhoid numbered 179,290 receiving the first injection and 145,432 receiving the second injection.

Diphtheria :

530 cases with 117 deaths were notified this year or a ratio of 0.233 and 0.05 respectively per 1,000 of population and a case-mortality-rate of 22.07 per cent; as against 818 cases with 155 deaths in 1949 and 944 cases with 189 deaths in 1948.

Children immunized against diphtheria numbered 85,070 receiving one injection, 78,616 receiving two injections and 76,751 receiving three injections.

Measles :

585 cases with 230 deaths were reported this year or a ratio of 0.258 and 0.1 respectively per 1,000 of population and a case mortality-rate of 39.3 per cent as against 1,711 cases with 682 deaths in 1949 and 1,979 cases with 1,209 deaths in 1948.

Cerebro Spinal Fever :

1,274 cases with 167 deaths were reported or a ratio of 0.56 and 0.07 respectively per 1,000 of population and a case-mortality-rate of 13.1 per cent as against 133 cases and 41 deaths in 1949; 39 cases with 9 deaths in 1948 and 72 cases with 21 deaths in 1947.

Scarlet Fever :

10 cases with no deaths were reported as against 7 cases in 1949, 4 cases in 1948 and two cases in 1947.

Influenza :

2,777 cases with 9 deaths were reported or a ratio of 1.22 and 0.003 respectively per 1,000 of population and a case-mortality rate of 0.032 per cent as against 2,148 cases with 12 deaths in 1949; 1,345 cases with one death in 1948 and 1,421 cases with two deaths in 1947.

Tuberculosis :

3,583 cases with 1,683 deaths were reported or a ratio of 1.58 and 0.74 respectively per 1,000 of population and a case-mortality-rate of 46.9 per cent as against 3,581 cases with 1,607 deaths in 1949; 3,508 cases with 1,568 deaths in 1948 and 2,232 cases with 1,483 deaths in 1947.

Deaths Attributed to Confinement :

95 maternal deaths were attributed to confinement this year or a ratio of 0.837 per thousand births as against 64 in 1949 and 88 in 1948.

Of these deaths, 13 were due to puerperal fever or a ratio of 0.11 per 1,000 births as against a ratio of 0.11 in 1949; 0.39 in 1948 and 1.47 in 1947.

82 mothers died within a fortnight of confinement (excluding puerperal fever deaths) as against 93 in 1949, 63 in 1948 and 106 in 1947. The causes of these deaths were as follows: 1 Thrombosis, 1 Caesarian operation, 1 peritonitis, 1 intestinal paralysis, 2 uremia, 3 placenta praeva, 4 abortion, 4 heart failure, 5 toxæmia, 8 nervous shock after difficult labour, 9 rupture of uterus, 13 eclampsia, 30 hæmorrhagy and 13 puerperal fever.

Disinfection :

Besides the dusting with D.D.T. of persons, beddings and effects in the poorer quarters as referred to in connection with relapsing fever, 2,452,904 persons, 110,035 rooms and 427,929 articles were disinfected by Cairo disinfecting stations.

TABLE No. 188.—VITAL STATISTICS OF CAIRO CITY FOR 1950 DISTRIBUTED ACCORDING TO QISMS

| Cairo Districts (Qisms) | Population | No. of Deaths | Death Rate per 1000 of pop. | No. of Births | Birth Rate per 1000 of pop. | No. of deaths Below One year | infantile death Rate per 1000 births |
|----------------------------|------------------|------------------|-----------------------------------|------------------|-----------------------------------|------------------------------------|---|
| Qubba... .. | 91,000 | 4,892 | 53.758 | 1,998 | 21.945 | 905 | 181.9 |
| Heliopolis | 90,600 | 2,399 | 26.479 | 1,200 | 13.245 | 362 | 150.8 |
| Zeitoun | 87,500 | 5,079 | 58.045 | 2,193 | 25.062 | 893 | 175.8 |
| Abbassia | 133,000 | 6,992 | 52.571 | 2,545 | 19.135 | 864 | 120.9 |
| Ezbekia | 107,900 | 4,207 | 38.989 | 1,850 | 17.145 | 672 | 159.7 |
| Rod el Farag ... | 183,700 | 8,269 | 45.013 | 3,509 | 19.101 | 1,570 | 189.8 |
| Hadayeq Shubra | 89,000 | 5,306 | 59.617 | 2,146 | 24.112 | 975 | 183.7 |
| Shubra | 121,400 | 6,791 | 55.939 | 2,428 | 20.0 | 1,022 | 150.4 |
| Sharabia | 77,000 | 5,299 | 68.818 | 2,114 | 28.103 | 1,059 | 199.8 |
| Gamsia | 118,000 | 6,355 | 53.857 | 2,798 | 23.711 | 1,171 | 184.2 |
| Bab el Shaaria ... | 131,600 | 5,434 | 41.291 | 2,254 | 17.127 | 884 | 162.6 |
| Abdin | 93,300 | 3,010 | 32.261 | 1,583 | 16.966 | 514 | 170.7 |
| Mouski | 77,600 | 3,093 | 39.858 | 1,277 | 16.452 | 531 | 171.6 |
| Darb el Ahmar . | 114,300 | 5,533 | 48.407 | 2,556 | 22.362 | 1,073 | 193.9 |
| Khalifa | 124,900 | 6,554 | 52.473 | 3,265 | 26.140 | 1,411 | 215.2 |
| Sayeda I | 108,500 | 6,598 | 60.811 | 2,683 | 24.728 | 1,088 | 164.8 |
| „ II | 99,500 | 3,951 | 39.708 | 1,876 | 18.854 | 891 | 186.4 |
| Boulaq I | 68,000 | 2,836 | 41.558 | 1,687 | 24.808 | 660 | 232.7 |
| „ II | 75,500 | 3,652 | 48.370 | 1,578 | 20.900 | 681 | 186.4 |
| Adawia | 68,700 | 6,688 | 97.350 | 1,820 | 26.491 | 860 | 113.6 |
| Old Cairo | 110,400 | 5,974 | 54.110 | 2,780 | 25.181 | 1,214 | 203.2 |
| Helwan | 49,500 | 2,290 | 46.262 | 1,033 | 20.868 | 442 | 193.0 |
| Maadi | 46,000 | 2,286 | 49.692 | 2,149 | 31.500 | 545 | 238.4 |
| TOTAL | 2,266,900 | 113,488 | 50.06 | 48,672 | 21.47 | 29,269 | 178.6 |

TABLE No. 189.—DISTRIBUTION OF UNCERTIFIED DEATHS 1950 ON CAIRO DISTRICTS.

| District | Total No. of Deaths | Deaths Examined by | | | |
|-----------------------|------------------------|---------------------|---------------|--------------------------|---------------------------------|
| | | Medical Officers | Midwives | Private Practitioners | Hospital Medical Officers |
| Qubba | 1,823 | 304 | 800 | 716 | 3 |
| Heliopolis | 1,245 | 118 | 248 | 581 | 298 |
| Zeitoun | 2,144 | 276 | 1,164 | 698 | 6 |
| Abbassia | 3,901 | 78 | 228 | 1,716 | 1,879 |
| Ezbekia | 1,719 | 59 | 726 | 844 | 90 |
| Rod el Farag | 3,329 | 166 | 743 | 2,418 | 2 |
| Hadayeq Shubra | 2,181 | 47 | 655 | 1,432 | 47 |
| Shubra | 2,293 | 52 | 454 | 1,500 | 287 |
| Sbarabia | 2,158 | 200 | 1,118 | 616 | 169 |
| Gamalia | 2,531 | 195 | 300 | 2,036 | — |
| Bab el Shaaria | 1,990 | 98 | 362 | 1,510 | 20 |
| Abdin | 1,268 | 357 | 569 | 318 | 94 |
| Mouski | 1,157 | 363 | 295 | 499 | — |
| Darb el Ahmar | 2,264 | 880 | 974 | 409 | — |
| Khalifa | 3,023 | 1,130 | 1,544 | 349 | — |
| Sayeda I | 5,857 | 179 | 647 | 323 | 4,708 |
| „ II | 2,408 | 210 | 494 | 325 | 879 |
| Boulaq I | 1,475 | 252 | 847 | 353 | 23 |
| „ II | 1,528 | 282 | 852 | 393 | 1 |
| Adawia | 2,753 | 296 | 1,047 | 128 | 1,282 |
| Old Cairo | 2,712 | 705 | 1,405 | 602 | — |
| Helwan | 1,054 | 144 | 571 | 236 | 103 |
| Maadi | 1,371 | 293 | 622 | 257 | 199 |
| TOTAL | 52,184 | 6,739 | 16,665 | 18,759 | 9,822 |
| Rate | 12.91 | 31.93 | 30.94 | 18.820 | .38 |

TABLE NO. 190— INFECTIOUS DISEASES CASES, DEATHS AND RATES PER 1,000 OF POPULATION

| Diseases | Cases | Deaths | Case Mortality Rate percent | Case-rates per 1000 of population | Death rates per 1,000 of population |
|-----------------------------|---------------|--------------|-----------------------------------|---|---|
| Typhoid | 3,711 | 359 | .92 | 9.72 | .15 |
| Typhus | 32 | 2 | 6.25 | .01 | .0008 |
| Diphtheria | 530 | 117 | 22.07 | .23 | .05 |
| Chicken pox | 731 | 11 | 1.54 | .434 | .004 |
| Small pox | 1 | — | — | .004 | — |
| Measles | 585 | 230 | 39.82 | .25 | .102 |
| Meningitis | 1,274 | 167 | 13.11 | .56 | .07 |
| Scarlet fever | 10 | — | 10.— | .004 | .0004 |
| Whooping cough | 134 | 13 | 9.70 | .05 | .005 |
| Mumps | 534 | — | — | .23 | — |
| Rabies | 1,157 | 7 | — .60 | .51 | .003 |
| Tetanus | 58 | 30 | 51.72 | .02 | .01 |
| Peurperal fever | 133 | 22 | 16.54 | .05 | .009 |
| Relapsing fever | 57 | — | — | .02 | — |
| Dysentery | 179 | 78 | 43.57 | .07 | .03 |
| Tuberculosis | 3,583 | 1,683 | 46.97 | .58 | .74 |
| Influenza | 2,777 | 9 | — .32 | .22 | .003 |
| Erysipelas... .. | 301 | 13 | — .43 | .13 | .004 |
| Malaria | 507 | 1 | — .19 | .22 | .0004 |
| Broncho pneumonia | 1,715 | 1,152 | 67.17 | .75 | .508 |
| Lobar ,, | 446 | 263 | 58.82 | .19 | .11 |
| Total | 18,455 | 4,157 | 22.52 | 8.09 | 1.83 |

TABLE No. 191.—DISTRICT DISTRIBUTION OF THE PRINCIPAL INFECTIOUS DISEASES, 1950

| Qizma | Population | Small-pox | | Cerebro Spinal fever | | Typhus fever | | Typhoid | | Scarlet fever | | Diphtheria | | Measles | | TOTAL | |
|-------------------|------------|-----------|--------|----------------------|--------|--------------|--------|---------|--------|---------------|--------|------------|--------|---------|--------|-------|--------|
| | | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Qubba... | 91,000 | — | — | 62 | 5 | 3 | — | 211 | 15 | — | — | 20 | 4 | 23 | — | 319 | 24 |
| Helipolis | 90,600 | — | — | 102 | 10 | 1 | — | 164 | 14 | 5 | — | 20 | 4 | 6 | 3 | 298 | 31 |
| Zeitoun | 87,500 | — | — | 32 | 4 | 2 | 1 | 133 | 14 | — | — | 17 | 5 | 28 | 27 | 212 | 51 |
| Abbassia | 133,000 | — | — | 64 | 15 | 3 | 1 | 320 | 55 | — | — | 55 | 13 | 33 | 1 | 505 | 91 |
| Ezbekia | 107,900 | — | — | 72 | 9 | 1 | — | 148 | 12 | — | — | 20 | 2 | 12 | 5 | 253 | 28 |
| Rod-el-Farag | 183,700 | — | — | 100 | 9 | 2 | — | 380 | 32 | — | — | 34 | 11 | 47 | 18 | 565 | 70 |
| Hadayeq Shubra... | 89,000 | — | — | 41 | 2 | 1 | — | 194 | 10 | — | — | 25 | 3 | 15 | 2 | 276 | 17 |
| Shubra | 121,400 | — | — | 47 | 4 | 1 | — | 42 | 31 | — | — | 33 | 11 | 42 | 23 | 166 | 79 |
| Sharabia | 77,000 | — | — | 67 | 7 | 3 | — | 213 | 15 | — | — | 90 | 9 | 103 | 56 | 426 | 85 |
| Gamalia | 118,000 | — | — | 88 | 10 | 2 | — | 223 | 17 | 1 | — | 22 | 3 | 37 | 5 | 373 | 35 |
| Bab-el-Shaaria | 131,600 | — | — | 63 | 8 | 3 | — | 216 | 27 | — | — | 29 | 6 | 42 | 3 | 353 | 44 |
| Abdin | 93,300 | — | — | 52 | 9 | 1 | — | 127 | 10 | — | — | 24 | 5 | 13 | 8 | 217 | 32 |
| Mouski | 77,600 | 1 | — | 38 | 5 | 1 | — | 112 | 11 | 1 | — | 16 | 3 | 19 | 7 | 188 | 26 |
| Darb-el-Ahmar | 114,300 | — | — | 65 | 14 | 3 | — | 159 | 14 | — | — | 31 | 3 | 13 | 3 | 271 | 34 |
| Khalifa | 124,900 | — | — | 57 | 8 | 1 | — | 212 | 22 | — | — | 20 | 2 | 15 | 5 | 316 | 33 |
| Sayed I | 108,500 | — | — | 54 | 16 | 1 | — | 142 | 12 | — | — | 28 | 9 | 13 | 2 | 238 | 39 |
| Sayed II | 99,500 | — | — | 43 | 5 | 2 | — | 173 | 10 | 2 | — | 22 | 5 | 13 | 1 | 255 | 21 |
| Boulaq I | 68,000 | — | — | 42 | 12 | — | — | 98 | 7 | — | — | 16 | 4 | 17 | 8 | 173 | 31 |
| Boulaq II | 75,500 | — | — | 50 | 3 | — | — | 94 | 8 | — | — | 16 | 4 | 13 | 9 | 173 | 24 |
| Adawia | 68,700 | — | — | 42 | 5 | — | — | 108 | 7 | — | — | 14 | 6 | 16 | 9 | 180 | 27 |
| Old Cairo | 110,400 | — | — | 26 | 5 | — | — | 160 | 10 | 1 | — | 21 | 5 | 42 | 30 | 260 | 50 |
| Helwan | 49,500 | — | — | 5 | 2 | — | — | 32 | 3 | — | — | 3 | — | 8 | — | 48 | 5 |
| Maadi | 46,000 | — | — | 22 | — | 1 | — | 49 | 3 | — | — | 4 | — | 2 | 1 | 78 | 4 |
| TOTAL | 2,266,900 | 1 | — | 1,274 | 167 | 32 | 2 | 3,711 | 359 | 10 | — | 530 | 117 | 585 | 230 | 6,143 | 885 |

TABLE NO. 192.— DISTRICT DISTRIBUTION OF TYPHOID FEVER CASES AND DEATHS, 1950.

| District | Mid-year Population | Number of Cases | Case rate per 1000 of Population | Number of Deaths | Death-rate per 1000 of Population | Case mortality rate per cent |
|-----------------------|---------------------|-----------------|----------------------------------|------------------|-----------------------------------|------------------------------|
| Qubba | 91,000 | 211 | ·431 | 15 | ·164 | 7·109 |
| Heliopolis | 90,600 | 164 | 1·810 | 14 | ·154 | 8·536 |
| Zeitoun | 87,500 | 133 | ·152 | 14 | ·16 | 10·526 |
| Abbassia | 133,000 | 320 | 2·406 | 55 | ·413 | 17·156 |
| Ezbekia | 107,900 | 148 | 1·371 | 12 | ·111 | 8·108 |
| Rod-el-Farag | 183,700 | 380 | 2·068 | 32 | ·174 | 8·042 |
| Hadayeq Shubra | 80,000 | 194 | 2·179 | 10 | ·116 | 5·154 |
| Shubra | 121,400 | 42 | ·345 | 31 | ·255 | 73·809 |
| Sharalia | 77,000 | 213 | 2·766 | 15 | ·194 | 7·342 |
| Gamalia | 118,000 | 223 | 1·889 | 17 | ·144 | 7·623 |
| Bab-el-Shaaria | 131,600 | 216 | 1·641 | 27 | ·205 | 12·5 |
| Abdin | 93,300 | 127 | 1·361 | 10 | ·107 | 7·874 |
| Mouski | 77,600 | 112 | 1·443 | 11 | ·141 | 9·821 |
| Darb-el-Ahmar | 114,300 | 159 | 1·391 | 14 | ·122 | 8·918 |
| Khalifa | 124,900 | 213 | 1·705 | 22 | ·176 | 10·328 |
| Sayeda I | 108,500 | 142 | 1·269 | 12 | ·110 | 8·450 |
| Sayeda II | 99,500 | 173 | 1·738 | 10 | ·100 | 5·780 |
| Boulaq I | 68,000 | 98 | 1·441 | 7 | ·102 | 7·142 |
| Boulaq II | 75,500 | 94 | 1·245 | 8 | ·105 | 8·500 |
| Adawia | 68,700 | 108 | 1·572 | 7 | ·101 | 6·481 |
| Old Cairo | 110,400 | 160 | 1·449 | 10 | ·090 | 6·250 |
| Helwan | 49,500 | 32 | ·646 | 3 | ·080 | 9·375 |
| Maadi | 46,000 | 49 | 1·065 | 3 | ·065 | 6·122 |
| TOTAL | 2,266,900 | 3,711 | 1·637 | 359 | ·158 | 9·183 |

TABLE NO. 193.— DISTRICT DISTRIBUTION OF TYPHUS CASES AND DEATHS, 1950

| District | Population | Number of Cases | Case rate per 1000 of Population | Number of Deaths | Death-rate per 1000 of Population | Case mortality rate percent |
|-----------------------|------------------|-----------------|----------------------------------|------------------|-----------------------------------|-----------------------------|
| Qubba | 91,000 | 3 | ·032 | — | — | — |
| Heliopolis | 90,600 | 1 | ·011 | — | — | — |
| Zeitoun | 87,500 | 2 | ·022 | 1 | ·011 | 50 |
| Abbassia | 133,000 | 3 | ·022 | 1 | ·007 | 33·33 |
| Ezbekia | 107,900 | 1 | ·000 | — | — | — |
| Rod-el-Farag | 183,700 | 2 | ·010 | — | — | — |
| Hadayeq Shubra | 80,000 | 1 | ·011 | — | — | — |
| Shubra | 121,400 | 1 | ·008 | — | — | — |
| Sharalia | 77,000 | 3 | ·038 | — | — | — |
| Gamalia | 118,000 | 2 | ·006 | — | — | — |
| Bab-el-Shaaria | 131,600 | 3 | ·022 | — | — | — |
| Abdin | 93,300 | 1 | ·010 | — | — | — |
| Mouski | 77,600 | 1 | ·012 | — | — | — |
| Darb-el-Ahmar | 114,300 | 3 | ·026 | — | — | — |
| Khalifa | 124,900 | 1 | ·008 | — | — | — |
| Sayeda I | 108,500 | 1 | ·003 | — | — | — |
| Sayeda II | 99,500 | 2 | ·020 | — | — | — |
| Boulaq I | 68,000 | — | — | — | — | — |
| Boulaq II | 75,500 | — | — | — | — | — |
| Adawia | 68,700 | — | — | — | — | — |
| Old Cairo | 110,400 | — | — | — | — | — |
| Helwan | 49,500 | — | — | — | — | — |
| Maadi | 46,000 | 1 | ·021 | — | — | — |
| TOTAL | 2,266,900 | 32 | ·014 | 2 | 0·008 | 6·25 |

TABLE NO. 194.—DISTRICT DISTRIBUTION OF DIPHTHERIA CASES AND DEATHS, 1950.

| District | Population | Number of Cases | Case-rate per 1000 of Population | Number of Deaths | Death-rate per 1000 of Population | Case mortality rate per cent |
|-----------------------|------------------|-----------------|----------------------------------|------------------|-----------------------------------|------------------------------|
| Qubba | 91,000 | 20 | ·219 | 4 | ·0·3 | 20· |
| Heliopolis | 90,600 | 20 | ·220 | 4 | ·014 | 20· |
| Zeitoun | 87,500 | 17 | ·194 | 5 | ·051 | 29·41 |
| Abbassia | 133,000 | 55 | ·411 | 13 | ·096 | 23·60 |
| Ezbekia | 107,900 | 20 | ·1·5 | 2 | ·018 | 10· |
| Rod-el-Farag | 183,700 | 34 | ·185 | 11 | ·059 | 32·32 |
| Hadayeq Shubra | 89,000 | 25 | ·280 | 3 | ·033 | 12· |
| Shubra | 121,400 | 33 | ·271 | 11 | ··90 | 33·33 |
| Sharabia | 77,000 | 40 | ·519 | 9 | ·116 | 22·50 |
| Gamalia | 118,000 | 22 | ·186 | 3 | ·025 | 13·63 |
| Bab-el-Shaaria | 131,600 | 29 | ·220 | 6 | ·044 | 20·68 |
| Abdin | 93,300 | 21 | ·2·7 | 5 | ·053 | 20·83 |
| Mouski | 77,600 | 16 | ·206 | 3 | ·038 | 18·75 |
| Darb-el-Ahmar | 114,360 | 31 | ·271 | 3 | ·026 | 9·67 |
| Khalifa | 124,900 | 20 | ·160 | 2 | ·010 | 10·00 |
| Sayed I | 108,500 | 28 | ·258 | 9 | ·090 | 32·14 |
| Sayed II | 99,500 | 22 | ·221 | 5 | ·050 | 22·72 |
| Boulaq I | 68,000 | 16 | ·235 | 4 | ·058 | 25·00 |
| Boulaq II | 75,500 | 16 | ·213 | 4 | ·053 | 25·00 |
| Adawia | 68,700 | 14 | ·200 | 6 | ·085 | 42·85 |
| Old Cairo | 110,400 | 21 | ·190 | 5 | ·045 | 23·80 |
| Helwan | 409,500 | 3 | ·060 | — | — | — |
| Maadi | 46,000 | 4 | ·086 | — | — | — |
| TOTAL | 2 266,900 | 530 | ·233 | 117 | ·051 | 22·07 |

TABLE NO. 195.—DISTRICT DISTRIBUTION OF MEASLES CASES AND DEATHS, 1951.

| District | Population | Number of Cases | Case-rate per 1000 of Population | Number of Deaths | Death-rate per 1000 of Population | Case mortality rate per cent |
|-----------------------|------------------|-----------------|----------------------------------|------------------|-----------------------------------|------------------------------|
| Qubba... .. | 91,000 | 23 | ·252 | — | — | — |
| Heliopolis | 90,600 | 6 | ·066 | 3 | ·033 | 50· |
| Zeitoun | 87,500 | 28 | ·032 | 27 | ·308 | 96·43 |
| Abbassia | 133,000 | 33 | ·248 | 7 | ·052 | 21·21 |
| Ezbekia | 107,900 | 12 | ·111 | 5 | ·046 | 41·66 |
| Rod-el-Farag | 183,700 | 49 | ·266 | 18 | ·097 | 36·73 |
| Hadayeq Shubra | 89,000 | 15 | ·168 | 2 | ·022 | 13·33 |
| Shubra | 121,400 | 43 | ·354 | 23 | ·189 | 53·48 |
| Sharabia | 77,000 | 103 | ·337 | 54 | ·701 | 52·42 |
| Gamalia | 118,000 | 37 | ·313 | 5 | ·042 | 13·51 |
| Bab-el-Shaaria | 131,600 | 42 | ·319 | 3 | ·022 | 7·14 |
| Abdin | 93,300 | 13 | ·139 | 8 | ·085 | 61·53 |
| Mouski | 77,600 | 19 | ·244 | 7 | ·090 | 36·84 |
| Darb-el-Ahmar | 114,300 | 13 | ·113 | 3 | ·026 | 23·07 |
| Khalifa | 124,900 | 25 | ·200 | 5 | ·040 | 20·00 |
| Sayed I | 108,500 | 13 | ·119 | 2 | ·018 | 15·38 |
| Sayed II | 99,500 | 13 | ·130 | 1 | ·010 | 7·69 |
| Boulaq I | 68,000 | 17 | ·25 | 8 | ·117 | 47·05 |
| Boulaq II | 75,500 | 13 | ·170 | 9 | ·119 | 69·23 |
| Adawia | 68,700 | 16 | ·232 | 9 | ·131 | 56·25 |
| Old Cairo | 110,400 | 42 | ·380 | 30 | ·271 | 71·42 |
| Helwan | 49,000 | 8 | ·161 | — | — | — |
| Maadi | 46,000 | 2 | ·043 | 1 | ·021 | 50·00 |
| TOTAL | 2 266,900 | 585 | ·258 | 230 | ·101 | 39·31 |

TABLE NO. 196.—DISTRICT DISTRIBUTION OF CEREBRO SPINAL FEVER
CASES AND DEATHS, 1950.

| District | Population | Number of Cases | Case rate per 1000 of Population | Number of Deaths | Death-rate per 1000 of Population | Case mortality rate per cent |
|-----------------------|------------------|-----------------|----------------------------------|------------------|-----------------------------------|------------------------------|
| Qubba | 91,000 | 62 | ·681 | 5 | ·054 | 8·06 |
| Heliopolis | 90,600 | 102 | 1·125 | 10 | ·110 | 9·80 |
| Zeitoun | 87,500 | 32 | ·365 | 4 | ·045 | 12·5 |
| Abbassia | 133,000 | 94 | ·706 | 15 | ·112 | 15·95 |
| Ezbekia | 107,900 | 72 | ·667 | 9 | ·083 | 12·5 |
| Rod-el-Farag | 183,700 | 100 | ·543 | 9 | ·049 | 9·00 |
| Hodayeq Shubra | 89,000 | 41 | ·460 | 2 | ·022 | 4·87 |
| Shubra | 121,400 | 47 | ·387 | 4 | ·032 | 8·51 |
| Sharabia | 77,000 | 67 | ·870 | 7 | ·090 | 10·44 |
| Gamalia | 118,000 | 88 | ·745 | 10 | ·084 | 11·36 |
| Bab-el-Shaaria | 131,600 | 63 | ·478 | 8 | ·060 | 12·69 |
| Abdin | 93,300 | 52 | ·557 | 9 | ·096 | 17·30 |
| Mouski | 77,600 | 35 | ·489 | 5 | ·064 | 13·15 |
| Darb-el-Ahmar | 114,300 | 65 | ·568 | 14 | ·122 | 21·53 |
| Khalifa | 124,900 | 57 | ·546 | 8 | ·064 | 14·03 |
| Sayeda I | 108,500 | 54 | ·479 | 16 | ·147 | 29·62 |
| Sayeda II | 99,500 | 43 | ·432 | 5 | ·050 | 11·62 |
| Boulaq I | 68,000 | 42 | ·617 | 12 | ·176 | 28·57 |
| Boulaq II | 75,500 | 42 | ·611 | 5 | ·072 | 11·90 |
| Adawia | 68,700 | 50 | ·662 | 3 | ·039 | 6·00 |
| Old Cairo | 110,400 | 36 | ·326 | 5 | ·045 | 13·88 |
| Helwan | 49,500 | 5 | ·101 | 2 | ·040 | 40·00 |
| Maadi | 46,000 | 22 | ·478 | — | — | — |
| TOTAL | 2,266,900 | 1,274 | ·562 | 167 | ·078 | 13·11 |

TABLE NO. 197. —DISTRICT DISTRIBUTION OF SCARFET FEVER CASES AND DEATHS 1950

| District | Population | Number of Cases | Case-rate per 1000 of Population | Number of Deaths | Death-rate per 1000 of Population | Case mortality rate per cent |
|-----------------------|------------------|-----------------|----------------------------------|------------------|-----------------------------------|------------------------------|
| Qubba | 91,000 | — | — | — | — | — |
| Heliopolis | 90,600 | 5 | ·055 | — | — | — |
| Zeitoun | 87,500 | — | — | — | — | — |
| Abbassia | 133,000 | — | — | — | — | — |
| Ezbekia | 107,900 | — | — | — | — | — |
| Rod-el-Farag | 183,700 | — | — | — | — | — |
| Hodayeq Shubra | 89,000 | — | — | — | — | — |
| Shubra | 121,400 | — | — | — | — | — |
| Sharabia | 77,000 | — | — | — | — | — |
| Gamalia | 118,000 | 1 | ·008 | — | — | — |
| Bab-el-Shaaria | 131,600 | — | — | — | — | — |
| Abdin | 93,300 | — | — | — | — | — |
| Mouski | 77,600 | 1 | ·001 | — | — | — |
| Darb-el-Ahmar | 114,300 | — | — | — | — | — |
| Khalifa | 124,900 | — | — | — | — | — |
| Sayeda I | 108,500 | — | — | — | — | — |
| Sayeda II | 99,500 | 2 | ·020 | — | — | — |
| Boulaq I | 68,000 | — | — | — | — | — |
| Boulaq II | 75,500 | — | — | — | — | — |
| Adawia | 68,700 | — | — | — | — | — |
| Old Cairo | 110,400 | 1 | ·009 | — | — | — |
| Helwan | 49,500 | — | — | — | — | — |
| Maadi | 46,000 | — | — | — | — | — |
| TOTAL | 2,266,900 | 10 | ·004 | — | — | — |

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