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REPORT OF THE DIRECTOR OF PUBLIC  
HEALTH, MADRAS, FOR 1934

INCLUDING

ADMINISTRATION OF VACCINATION  
IN 1934-35

AND

FORTY-FIFTH ANNUAL REPORT OF THE  
SANITARY ENGINEER TO GOVERNMENT  
1934

MADRAS

PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS

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## ANNUAL REPORT OF THE DIRECTOR OF PUBLIC HEALTH, MADRAS, 1934.

### RAINFALL AND PRICES OF FOOD-GRAINS.

The average district rainfall during 1934 was 44.32 inches as against 51.88 and 47.82 inches during 1933 and 1932, respectively. The seasonal distribution in 1934 was as follows:—

|                                                                  | INCHES. |
|------------------------------------------------------------------|---------|
| Inter-monsoon—February to May 1934 ...                           | 4.62    |
| South-west monsoon—June to September 1934 ...                    | 24.20   |
| North-east monsoon—January and October to Decem-<br>ber 1934 ... | 15.50   |
| Total ...                                                        | 44.32   |

Though the amount of rainfall during 1934 was less than that during the two preceding years, it was on the whole evenly distributed except in Bellary and Anantapur districts where the amount of rainfall recorded was 23.16 and 22.72 inches respectively.

2. The following table presents the changes in the prices of the principal food-grains during the last three years as compared with the average for the previous ten years:—

| Grains.    | Seers available per rupee in |       |       |                                                      | Percentage variation from pre-<br>vious 10 years' average in |        |        |
|------------|------------------------------|-------|-------|------------------------------------------------------|--------------------------------------------------------------|--------|--------|
|            | 1934.                        | 1933. | 1932. | Average for the<br>previous 10 years<br>(1924-1933). | 1934.                                                        | 1933.  | 1932.  |
| Rice ...   | 11.5                         | 11.4  | 9.9   | 7.1                                                  | - 87.9                                                       | - 37.1 | - 27.9 |
| Ragi ...   | 19.1                         | 19.1  | 18.4  | 12.3                                                 | - 34.2                                                       | - 34.2 | - 31.6 |
| Cholam ... | 18.3                         | 19.1  | 16.5  | 12.0                                                 | - 33.7                                                       | - 37.3 | - 26.5 |
| Cumbu ...  | 16.8                         | 18.2  | 17.0  | 11.3                                                 | - 31.8                                                       | - 37.5 | - 33.0 |

The table reveals that the prices of Cholam and Cumbu have risen while those of rice and ragi are almost stationary. The prices of principal food-grains showed a tendency to rise only towards the end of the year. The economic distress still continues in the Presidency and failure of crops in Anantapur and Bellary districts has caused famine.

### VITAL STATISTICS INCLUDING POPULATION AND EMIGRATION AND IMMIGRATION.

#### GENERAL POPULATION.

3. The population enumerated at the census of 1931 in the British territory comprising an area of 142,277 square miles was 46,740,107, giving a density of 329 persons per square mile. However, the vital statistics recorded relate only to a population of 45,175,880. This figure is

exclusive of the population of Europeans, Anglo-Indians and that of the Agencies of Ganjam and Vizagapatam districts, where no proper system of registration exists. The estimated mid-year population of 1934 based on the intercensal increase during 1921 to 1931 by the method of geometrical progression is 46,659,269. The mid-year population estimated by the accruing excess of births over deaths and that of immigration over emigration is 47,023,045. These estimates are fairly close approximations in respect of total number of population, the former being less than the latter by 0·8 per cent.

#### IMMIGRATION AND EMIGRATION.

4. During 1934 there was a large increase in the number of unskilled labourers emigrating to Ceylon and Malaya. The following figures show the number of emigrants to these colonies during the past five years:—

|      |     |         |      |     |         |
|------|-----|---------|------|-----|---------|
| 1930 | ... | 133,700 | 1933 | ... | 32,936  |
| 1931 | ... | 68,439  |      |     |         |
| 1932 | ... | 50,886  | 1934 | ... | 118,447 |

Consequent on the improvement in the rubber industry in Malaya, the number of emigrants to Malaya rose from 38 in 1933 to 29,639 in 1934. The number of emigrants to Ceylon increased from 32,898 in 1933 to 88,808 in 1934, and this was due to the better trade conditions prevalent in the Colony. The largest number of emigrants to Ceylon was drawn from the districts of Trichinopoly, Salem, South Arcot, North Arcot and Tanjore. The number of immigrants from Ceylon and Malaya, exclusive of those who returned to India at their own expense, was 4,189.

#### REGISTRATION AND COMPILATION OF VITAL STATISTICS.

5. The work of compilation of the vital statistics of non-municipal areas was transferred to the office of the Director of Public Health in 1932 and this has improved the compilation and accuracy of these statistics. The registration of births and deaths still continues to be defective in most of the districts. The provisions of the Madras Registration of Births and Deaths Act (Act III of 1899) making registration of births and deaths compulsory in the areas to which the Act has been extended, have not been realized by the people. Only a few of the defaulters have been prosecuted and convicted under the Act. It is seen from the reports of the District Health Officers that the village headmen, under the impression that it is not their duty to detect and register births and deaths, register only such events as are reported to them. Though Government issued instructions for the better working of the Act in G.O. No. 2549, P.H., dated the 9th December 1932, scant attention is paid to this part of their duties by the village headmen. As correct vital statistics reveal the state of public health, the Public Health Department should be closely connected with the work of registration of vital statistics and to gain this object the Act III of 1899 must be amended empowering the District Health Officers to sanction the prosecution of offenders under the Act. Propaganda as to the importance and necessity of the Act is also necessary on the part of the village headmen.

6. The District Health staff detected 22,661 births and 8,148 deaths that were not registered previously. The fall in the number of births and deaths detected is due to the fact that the staff were engaged in combating smallpox which was prevalent in many districts during the summer months, resulting in less attention to the detection of unregistered births and deaths. If the summer months had been devoted solely to off-season work (i.e.), detection of unregistered events it is likely that the detections would have been more.

7. As the population increases from year to year, the birth and death rates calculated on the last census population without allowing for the growth of population will not represent accurate figures. Hence it is very essential that the rates for any intercensal year are calculated on the estimated mid-year population. The mid-year populations of this province have been estimated on the basis of the intercensal growth during 1921-1931, as the successive terms of a geometric series, the period between the two censuses being reckoned to be one of 10 years. The following table shows the differences in the rates as calculated on the census and on the estimated populations over a series of years from 1921:—

| Years. | Mid-year population for which vital statistics were recorded. | Number of births. | Birth-rate based on the intercensal population. | Birth-rate based on the present method. | Number of deaths. | Death-rate based on the intercensal population. | Death-rate based on the present method. | Difference in the birth-rates, col. (3) - col. (4). | Difference in death-rates, col. (6) - col. (7). |
|--------|---------------------------------------------------------------|-------------------|-------------------------------------------------|-----------------------------------------|-------------------|-------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|
| (1)    | (2)                                                           | (3)               | (4)                                             | (5)                                     | (6)               | (7)                                             | (8)                                     | (9)                                                 | (10)                                            |
| 1921   | 41,102,171                                                    | 1,108,474         | 27·0                                            | 27·0                                    | 826,897           | 20·1                                            | 20·2                                    | 0·0                                                 | +0·1                                            |
| 1922   | 41,502,495                                                    | 1,231,722         | 30·0                                            | 30·0                                    | 859,236           | 20·7                                            | 21·0                                    | 0·0                                                 | +0·3                                            |
| 1923   | 41,906,712                                                    | 1,358,748         | 32·4                                            | 33·1                                    | 908,825           | 21·7                                            | 22·2                                    | +0·7                                                | +0·5                                            |
| 1924   | 42,314,807                                                    | 1,430,858         | 33·8                                            | 34·9                                    | 1,006,043         | 23·8                                            | 24·5                                    | +1·1                                                | +0·7                                            |
| 1925   | 42,727,000                                                    | 1,382,477         | 32·4                                            | 33·7                                    | 1,000,558         | 23·4                                            | 24·4                                    | +1·3                                                | +1·0                                            |
| 1926   | 43,143,148                                                    | 1,480,293         | 34·3                                            | 36·1                                    | 1,048,529         | 24·3                                            | 25·6                                    | +1·8                                                | +1·3                                            |
| 1927   | 43,563,344                                                    | 1,495,747         | 34·3                                            | 36·5                                    | 997,742           | 22·9                                            | 24·3                                    | +2·2                                                | +1·4                                            |
| 1928   | 43,987,636                                                    | 1,534,445         | 34·9                                            | 37·4                                    | 1,080,744         | 24·6                                            | 25·4                                    | +2·5                                                | +1·8                                            |
| 1929   | 44,416,061                                                    | 1,555,661         | 35·0                                            | 37·9                                    | 1,037,452         | 23·4                                            | 25·3                                    | +2·9                                                | +1·9                                            |
| 1930   | 44,848,649                                                    | 1,632,475         | 36·4                                            | 39·8                                    | 1,045,972         | 23·3                                            | 25·5                                    | +3·4                                                | +2·2                                            |
| 1931   | 45,322,074                                                    | 1,606,403         | 35·4                                            | 35·5                                    | 1,072,572         | 23·7                                            | 23·7                                    | +0·1                                                | 0·0                                             |
| 1932   | 45,763,500                                                    | 1,627,381         | 35·6                                            | 36·0                                    | 992,024           | 21·7                                            | 22·0                                    | +0·4                                                | +0·3                                            |
| 1933   | 46,208,300                                                    | 1,704,245         | 36·9                                            | 37·7                                    | 1,068,923         | 23·1                                            | 23·7                                    | +0·8                                                | +0·6                                            |
| 1934   | 46,659,269                                                    | 1,633,996         | 35·0                                            | 36·2                                    | 1,127,169         | 24·2                                            | 25·0                                    | +1·2                                                | +0·8                                            |

NOTE.—The rates in columns 5 and 8 were calculated on the population enumerated at the census of 1921 and 1931.

Columns 9 and 10 exhibit the differences between the two rates calculated by the two methods. They increase steadily up to a maximum in 1930, the year prior to the last census. The necessity for calculating the rates on the estimated population as they represent more truly the facts is once again emphasized.

8. Registration of vital statistics in municipalities, rural towns and villages still continues to be poor. Twenty-nine per cent of the total number of rural towns registered low birth-rates of less than 30 per mille. The suggestion made in the previous reports to appoint Sanitary Inspectors to look to registration work as well as sanitation of the towns does not seem to have commended itself to the panchayats. I once again

urge the necessity for taking steps in this direction at least in the larger Panchayat towns.

Ten municipalities registered low birth-rates of less than 30 per mille and 5 low death-rates of less than 20 per mille.

9. Though every effort is made by this department to receive all the returns of villages in time from the Tahsildars, a good proportion of them are received late and many of them are defective. The general defects noticed in the registration of births and deaths are (1) incorrect classification of causes of deaths, e.g., registration of most deaths under "fevers" and "other causes", (2) failure to furnish particulars regarding age and class, while other serious defects such as classification of deaths of infants under one week as deaths due to child birth, are not uncommon.

10. The salient features in the recorded vital statistics of the province compared with the previous year are given below:—

(a) A fall in the birth-rate from 37.7 to 36.2 as calculated on the census population (from 36.9 to 35.0 as calculated on the mid-year estimated populations).

(b) A rise in the death-rate from 23.7 to 25.0 as calculated on the census population (from 23.1 to 24.2 as calculated on the estimated populations).

(c) A large increase in the mortality from cholera from 3,851 to 18,158.

(d) An increase in the mortality from smallpox from 10,745 to 18,088.

(e) A slight fall in the mortality from plague from 2,591 to 2,358.

(f) A rise in the mortality from "fevers" from 300,182 to 325,050.

(g) A rise in the mortality from "other causes" from 534,577 to 544,027.

#### BIRTHS IN DISTRICTS.

11. The total number of registered births in the Presidency during 1934 was 1,633,996 giving a birth-rate of 36.17 per mille as compared with the birth-rate of 37.72 per mille in 1933 and the average rate of 37.40 per mille for the previous five years. The proportion of males to 100 females born was 105. The seasonal distribution of births was as follows:—

|                 | Births. |     |         | Average to total. |       |
|-----------------|---------|-----|---------|-------------------|-------|
| First quarter—  |         |     |         |                   |       |
| January         | ...     | ... | 123,763 | 361,092           | 22.10 |
| February        | ...     | ... | 108,863 |                   |       |
| March           | ...     | ... | 128,466 |                   |       |
| Second quarter— |         |     |         |                   |       |
| April           | ...     | ... | 127,536 | 396,183           | 24.25 |
| May             | ...     | ... | 133,156 |                   |       |
| June            | ...     | ... | 135,491 |                   |       |
| Third quarter—  |         |     |         |                   |       |
| July            | ...     | ... | 151,111 | 453,128           | 27.73 |
| August          | ...     | ... | 154,224 |                   |       |
| September       | ...     | ... | 147,793 |                   |       |

|                 | Births. |     |           | Average to total. |        |
|-----------------|---------|-----|-----------|-------------------|--------|
| Fourth quarter— |         |     |           |                   |        |
| October         | ...     | ... | 146,078   | 423,593           | 25.92  |
| November        | ...     | ... | 139,931   |                   |        |
| December        | ...     | ... | 137,584   |                   |        |
| Total           | ...     | ... | 1,633,996 |                   | 100.00 |

The largest number of births was recorded in the third quarter as usual.

The birth-rates in the chief communities were as follows:—

|             |     |       |                 |     |       |
|-------------|-----|-------|-----------------|-----|-------|
| Hindus      | ... | 36.13 | Christians      | ... | 32.93 |
| Muhammadans | ... | 38.25 | All communities | ... | 36.17 |

The birth-rate in the Muhammadan community is the highest.

The birth-rates of individual districts are given in Table I, Appendix I. Three districts registered birth-rates above 40 per mille, twelve between 40 and 35 per mille and ten between 35 and 30 per mille. The remaining district of Tanjore recorded a low birth-rate of 28.22 per mille. Even last year this district registered a birth-rate below 30 per mille. The birth-rate in Ramnad district was 30.64 per mille. Both these districts were consistently registering low birth-rates in the previous years. The low birth-rate in Tanjore is probably due to emigration and the population having reached the saturation point, in addition to defective registration, while that in Ramnad to the poor registration in the Zamindari villages. The birth-rates rose in two districts (Malabar and the Nilgiris) and fell in other districts as compared with those in the previous year. The increases observed in Malabar and The Nilgiris were 4.41 and 1.47 respectively and the decreases varied from 5.05 in Kurnool to 0.54 in Guntur. The survival rate for the province, viz., the excess of birth-rate over death-rate was 11.22. In all districts except Bellary the birth-rate was in excess of death-rate, the excess ranging from 17.32 in Malabar to 1.91 in Tanjore. In Bellary district the death-rate was in excess of birth-rate by 0.58. This negative survival rate in Bellary is reported to be due to the prevalence of malaria, smallpox and plague during the year. The birth-rate in urban areas (municipalities and rural towns) was 36.94 and in non-urban areas 36.05 per mille.

In non-municipal areas the number of still-births was 14,236 giving a rate of 9.5 per 1,000 live-births against 10.4 in the previous year. The rate is however one-fifth of what it is in municipalities and this low rate can only be attributed to defective registration of still-births in non-municipal areas.

#### BIRTHS IN MUNICIPALITIES.

12. Table VI of Appendix I presents the birth-rates of individual municipalities. The birth-rate in the 82 municipalities during the year under report was 38.61 per mille against 37.98 in the previous year. The two municipalities, Tiruvarur and Parlakimedi, recorded low birth-rates of 22.68 and 22.78 per mille, respectively. Tiruvarur registered low

birth-rate of 23.66 last year also. Eight municipalities registered birth-rates between 25 and 30 per mille as compared with six in 1933. The main cause of these low rates is defective registration. As complete record of vital statistics forms the basis of efficient discharge of public health duties, these municipalities should adopt measures to ensure perfect registration of births and deaths.

The number of still-births in municipalities was 6,569, giving a rate of 46.04 per 1,000 live-births as compared with 42.8 in the previous year.

#### BIRTHS IN RURAL TOWNS.

13. The number of births registered in the 246 rural towns was 88,660, giving a birth-rate of 34.53 per mille against 36.43 in the previous year. The rural towns are classified according to their recorded birth-rates in the following statement:—

| Birth-rates.                       | Number of towns. |       |
|------------------------------------|------------------|-------|
|                                    | 1934.            | 1933. |
| Below 20 per mille ... ..          | 11               | 5     |
| Between 20 and 30 per mille ... .. | 60               | 43    |
| Between 30 and 40 per mille ... .. | 113              | 109   |
| 40 per mille and above ... ..      | 62               | 89    |
| Total ... ..                       | 246              | 246   |

A distinct rise in the birth-rates of several rural towns as compared with the previous year has been noticed. The greater accuracy in the work of compilation of the returns of rural towns in this office has contributed to the improvement of registration in rural towns. The rural towns which registered low rates were—

|                            |                           |
|----------------------------|---------------------------|
| Kandanur (15.60).          | Nattarasankottai (19.24). |
| St. Thomas' Mount (15.84). | Ilaiyangudi (19.41).      |
| Porto Novo (16.57).        | Narasannapeta (19.65).    |
| Alandur (18.33).           | Vallam (19.69).           |
| Tiruchendur (18.66).       | Tondi (19.89).            |
| Pallattur (19.04).         |                           |

The attention of the concerned collectors has been drawn to these low rates.

#### DEATHS IN DISTRICTS.

14. The number of deaths registered in the Presidency during the year was 1,127,169 giving a death-rate of 24.95 per mille; as compared with 23.66 in 1933 and the average rate of 24.03 per mille for the previous five years. The death-rate based on the estimated mid-year population was 24.16. During the year the death-rate has increased by 1.29 per mille. In all districts except Bellary, Coimbatore, Madras, Malabar, South Kanara and Salem the death-rates have increased, the increase varying from 5.82 in the Nilgiris to 0.06 in West Gōdāvari. There were 103 deaths among males for every 100 deaths among females. However, in the districts of East Gōdāvari (Plains), South Kanara, Tanjore and Trichinopoly the female mortality was in excess of the male. As mentioned

in the last year's report, the higher female mortality in these districts is probably explained by the excess of female over male population noticed in the census of 1931.

The following table presents the seasonal distribution of deaths during the year:—

|                      | Deaths in 1934. | Percent-age. |
|----------------------|-----------------|--------------|
| First quarter ... .. | 279,655         | 24.81        |
| Second do. ... ..    | 258,257         | 22.91        |
| Third do. ... ..     | 282,043         | 25.91        |
| Fourth do. ... ..    | 297,214         | 26.37        |

As usual the lowest mortality is recorded in the second quarter, suggesting that summer months are the healthiest in the Presidency.

The death-rates in the chief communities of the province were as follows:—

|                          | Death-rate per mille of population |          |        |
|--------------------------|------------------------------------|----------|--------|
|                          | Males.                             | Females. | Total. |
| Hindus ... ..            | 26.08                              | 24.74    | 25.40  |
| Muhammadans ... ..       | 22.92                              | 22.02    | 22.47  |
| Indian Christians ... .. | 19.81                              | 18.87    | 19.34  |
| All communities ... ..   | 25.59                              | 24.31    | 24.95  |

As in the previous years, the Indian Christian death-rate was low.

The death-rate varied from 36.90 per mille in Bellary to 20.16 per mille in Salem. The high death-rate in Bellary has already been indicated.

#### DEATHS IN MUNICIPALITIES.

15. During the year under review 109,203 deaths were registered in all the municipal towns in the Presidency giving a death-rate of 29.51 per mille as compared with 28.18 in the previous year and 29.16 per mille, the average death-rate for the previous five years. Fifty-five municipalities recorded a rise in the death-rates over those in the previous year. Low death-rates below 20 per mille were registered in five municipal towns. These low rates could be ascribed mainly to defective registration. Tenali and Erode registered low rates of 15.90 and 16.07 as in last year. The municipal councils concerned must adopt necessary measures to improve registration in their towns. The death-rates of individual municipalities are given in Table VI.

#### DEATHS IN RURAL TOWNS.

16. The number of deaths registered in the 246 rural towns in the Presidency during the year was 61,991 against 58,256 in 1933, representing death-rates of 24.1 and 22.7 per mille, respectively. Forty-six rural towns registered low rates below 20 per mille and of these, ten returned low rates of less than 15 per mille. This shows a slight improvement on the previous year's record. The towns of Ilaiyangudi (11.71), Tondi

### INFLUENCE OF URBAN AND RURAL LIFE AND OF AGE AND SEX ON DEATH RATES.

17. As per letter of the Public Health Commissioner, Statement IV amplified in accordance with the instructions of the Government of India (G.O. No. 602, P.H., dated 30th March 1931), was modified to show the age and sex death-rates for urban areas (including municipalities and rural towns, and for rural areas (exclusive of municipalities and rural towns). As the populations at each age-period for rural towns were not available, the death-rates for urban areas in all age-periods except that under 1 year, were calculated on the populations obtained by distributing the total population of the urban areas in the ratio in which the populations of the Presidency exclusive of Ganjām and Vizagapatam Agencies were distributed for each age-period. The death-rates in the different age-periods for the rural areas were calculated on the populations arrived at by subtracting the populations of urban areas from the respective populations in the whole presidency excluding Agencies. A summary of the statement is given below. The urban and rural death-rates by sexes in the different age-periods calculated on the estimated mid-year populations for 1934 have also been given. The mid-year populations, for the different age-periods were calculated as suggested by the Public Health Commissioner.

(1) The death-rates based on the estimated population are less than those calculated on the census population, indicating thereby the necessity of calculating the rates on the estimated population.

(3) The female death-rate is markedly higher than the male death-rate both in urban and rural areas in the age-periods 15 to 40 years and in the age-period 10 to 14 years in urban areas while in the other age-periods the male death-rates are in excess or is only slightly in defect. The marked excess of female over male deaths is generally attributed to the greater risk of death to which women are exposed during child-bearing ages.

The above conclusions are in general agreement with those of the previous years.

**NOTE.**—The death-rates for all age-periods under one year have been calculated per mille of live-births.

## GENERAL REMARKS.

18. The following table shows the number of deaths registered under the chief causes during the last five years :—

| Diseases.                   | Deaths in |           |         |           |           | Increase or decrease in 1934 as compared with 1933. |
|-----------------------------|-----------|-----------|---------|-----------|-----------|-----------------------------------------------------|
|                             | 1930.     | 1931.     | 1932.   | 1933.     | 1934.     |                                                     |
| Cholera ...                 | 18,746    | 30,232    | 5,278   | 3,851     | 18,158    | + 14,307                                            |
| Dysentery and diarrhoea ... | 76,815    | 83,838    | 80,410  | 97,584    | 97,844    | + 260                                               |
| Smallpox ...                | 8,025     | 4,660     | 5,363   | 10,745    | 18,088    | + 7,343                                             |
| Plague ...                  | 1,459     | 1,073     | 1,561   | 2,591     | 2,858     | - 233                                               |
| Fevers ...                  | 330,496   | 331,834   | 291,416 | 300,182   | 325,050   | + 24,868                                            |
| Respiratory diseases ...    | 89,510    | 93,222    | 94,312  | 105,828   | 107,742   | + 1,914                                             |
| Deaths from child-birth ... | 12,641    | 14,365    | 12,589  | 13,565    | 13,902    | + 337                                               |
| Other causes ...            | 508,280   | 513,348   | 501,095 | 534,577   | 544,027   | + 9,450                                             |
| Total ...                   | 1,045,972 | 1,072,572 | 992,024 | 1,068,923 | 1,127,169 | + 58,246                                            |

There was an increase of 58,246 deaths over those registered in 1933 increases being noticed in all causes of death except plague.

19. In the following statement are set forth the vital statistical rates of different provinces in India :—

| Provinces.                          | Birth-rate. | Death-rate. | Survival rate—<br>Birth-rate—<br>Death-rate. | Number of male<br>births for<br>every 100<br>female births. | Number of male<br>deaths for<br>every 100<br>female deaths. | Infant mortality<br>rate. |
|-------------------------------------|-------------|-------------|----------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------|
| Assam ...                           | 30.63       | 19.64       | 10.98                                        | 107                                                         | 111                                                         | 135.36                    |
| Bengal ...                          | 29.34       | 23.58       | 5.76                                         | 107                                                         | 107                                                         | 139.20                    |
| Bihar and Orissa ...                | 33.66       | 28.05       | 7.61                                         | 108                                                         | 106                                                         | 149.95                    |
| Bombay ...                          | 35.79       | 25.42       | 11.37                                        | 108                                                         | 106                                                         | 167.37                    |
| Burma ...                           | 30.22       | 20.62       | 9.60                                         | 104                                                         | 110                                                         | 219.39                    |
| Central Provinces ...               | 44.50       | 37.22       | 7.58                                         | 106                                                         | 110                                                         | 253.47                    |
| North-West Frontier<br>Province ... | 30.83       | 21.06       | 9.77                                         | 129                                                         | 123                                                         | 134.29                    |
| Punjab ...                          | 40.01       | 27.70       | 12.31                                        | 112                                                         | 114                                                         | 187.40                    |
| United Provinces ...                | 36.74       | 26.75       | 9.99                                         | 113                                                         | 112                                                         | 184.64                    |
| Madras ...                          | 36.17       | 24.95       | 11.22                                        | 105                                                         | 108                                                         | 192.90                    |

However, the varying standards of completeness and accuracy of registration of vital statistics obtaining in different provinces should be borne in mind in comparing these rates.

20. In estimating the state of public health, vital statistics have a very definite value for those who are able to interpret them and as such the work of registration must be accurate and complete. The attainment of accuracy in registration is necessarily a slow process and can be achieved only with the education of the masses, but every effort should be made to improve the standard of registration.

## STATE OF PUBLIC HEALTH IN THE PROVINCE AND HISTORY OF CHIEF DISEASES.

## CHOLERA.

21. During the year under review 18,158 deaths were registered as against 3,851 in 1933. The following statement gives the comparative figures of statistics of deaths during the decennium 1925-34 :—

| Year.    | Deaths from cholera. | Year.    | Deaths from cholera. |
|----------|----------------------|----------|----------------------|
| 1925 ... | 44,815               | 1930 ... | 18,746               |
| 1926 ... | 24,407               | 1931 ... | 30,232               |
| 1927 ... | 35,834               | 1932 ... | 5,278                |
| 1928 ... | 57,677               | 1933 ... | 3,851                |
| 1929 ... | 25,846               | 1934 ..  | 18,158               |

22. The following table shows the seasonal distribution of deaths from cholera during the year :—

| 1934.             | Deaths. |
|-------------------|---------|
| First quarter ... | 1,471   |
| Second do. ...    | 1,355   |
| Third do. ...     | 6,887   |
| Fourth do. ...    | 8,445   |
| Total ...         | 18,158  |

The epidemic which was prevalent in the last quarter of 1933 continued into the first quarter of 1934 in the districts of West and East Godavari, Guntūr, Kistna, Nellore and North Arcot but rather in a mild form, while in many of the Southern districts the disease was prevalent sporadically. As usual the second quarter registered the lowest incidence but towards the end of June in a few central districts like Chingleput, Chittoor, North and South Arcot, the disease tended to assume an epidemic form. In Ganjam cholera commenced from April and continued to prevail throughout the year. During the third quarter with the onset of the south-west monsoon, the epidemic increased in virulence in the Northern Circars, and the districts chiefly affected were Ganjam, Vizagapatam, Guntūr and a few of the central ones—Chingleput, North and South Arcot and Chittoor. In the last quarter with the onset of the north-east monsoon cholera appeared in an epidemic form in Tanjore, Trichinopoly, South Arcot, North Arcot, Nellore, Chingleput, Chittoor and Salem districts.

*Municipalities.*—Forty-five Municipalities reported cases of cholera during 1934, the total mortality being 1,068. Of these, Chicacole, Vizianagram, Madras, Cuddalore, Villupuram, Trichinopoly, Berhampur, Saidapet and Chittoor were responsible for 81 per cent of total deaths. Stray cases of cholera were reported from 12 other municipalities.

23. Preventive measures adopted were as usual anti-cholera inoculations, chlorination of water-supplies, disinfection of infected material, administration of cholera phage in selected areas and propaganda. These measures continued to be merely palliative and did not strike at the root of the problem. Until protected water-supply is introduced and proper disposal of rubbish and filth is effected in every village and hamlet, cholera and other bowel diseases will continue as a serious menace to public health. It is time that Government take up the question of protected water-supply on a larger scale.

During the previous year a certain number of selected Health Inspectors and Sanitary Inspectors were trained in inoculation and were permitted to conduct anti-cholera inoculations. As this scheme proved satisfactory, Government were pleased to extend this scheme in their Order No. 1504, P.H., dated 12th June 1934, and permitted all the health staff with Sanitary Inspectors' qualifications to be trained and entrusted with anti-cholera inoculation work. Government also approved the proposal of the Principal, Indian School of Medicine, for the supply of vaccine and serum to registered L.I.Ms.-'A' class, and in their Order No. 652, Ms., P.H., dated 10th March 1934, the Medical and Public Health departments were authorized to supply vaccine to L.I.Ms. engaged in combating cholera. The total number of inoculations done was 770,089. No accident or ill effect were reported among the thousands inoculated by Sanitary Inspectors and L.I.Ms., till now.

24. The Indian Research Fund Association sanctioned a grant of Rs. 2,000 for carrying out experimental work with cholera bacteriophage. With the outbreak of cholera in South Arcot district, the experiments were commenced in suitable villages selected for phage and control purposes. Phage was also administered as a curative in certain municipalities to determine its therapeutic value. My grateful thanks are due to the Indian Research Fund Association for generously placing the funds at my disposal for carrying out this research. A detailed reference to this experimental work is made under the section "Research" in this report.

#### SMALLPOX.

25. A fairly severe epidemic of smallpox was prevalent in the Presidency during the year causing 18,088 deaths against 10,745 in 1933, the rates being 0.24 and 0.40 per mille of population in 1933 and 1934 respectively. The mortality was the highest recorded since 1926. Kurnool with 2,344 deaths reported the largest number of deaths, the rate being 2.29 per mille. Other districts which registered high mortality were Guntūr (1,378), South Arcot (1,253), Tanjore (1,111), Cuddapah (1,104), Anantapur (1,066) and Bellary (1,006). The Nilgiris returned the lowest mortality of 23 deaths, Vizagapatam coming next with 233 deaths.

2,762 deaths from smallpox occurred in the municipalities giving a rate of 0.75 per mille. The municipalities that were most affected were Ellore (240), Coimbatore (224), Bellary (206), Mangalore (130), Conjeeveram (122), Bezwada (114), Cocanada (105) and Guntūr (101).

26. As per letter No. 1250, Health, dated 4th September 1925, of the Government of India, 711 cases were treated in the Isolation Hospitals

and Hospital wards. Out of these information with regard to 505 cases only is available and is given below in the form of a statement:—

|                                                                                                |     |     |
|------------------------------------------------------------------------------------------------|-----|-----|
| (a) Vaccinated in infancy as evidenced by one or more cicatrices                               | ... | 313 |
| (b) Stated to have been successfully vaccinated in infancy but no vaccination cicatrix present | ... | 102 |
| (c) Stated to be unvaccinated or unsuccessfully vaccinated and no vaccination cicatrix present | ... | 90  |
| (d) Previously unvaccinated but vaccinated during the incubation period of smallpox            | ... | ... |
| (e) Stated to have been successfully re-vaccinated                                             | ... | ... |
| Total                                                                                          | ... | 505 |

27. *The Relation between the Number of Vaccination Marks and the Deaths from Smallpox.*—The following table shows the number of attacks and deaths from smallpox and the percentage of deaths to attacks arranged according to the number of marks of vaccination. The figures relate to eight districts and six municipalities:—

| Number of marks. | Attacks. | Deaths. | Percentage of deaths to attacks. |
|------------------|----------|---------|----------------------------------|
| Nil.             | 6,474    | 1,510   | 23.3                             |
| 1                | 1,465    | 63      | 4.3                              |
| 2                | 1,951    | 88      | 4.5                              |
| 3                | 1,176    | 48      | 4.1                              |
| 4                | 2,396    | 68      | 2.8                              |

The percentage of deaths has decreased from 23.3 in the case of "no marks" to 4.3 in the case of one mark. This stresses the distinct advantage of vaccination in controlling smallpox. A uniformity in the mortality rates under "one, two and three" marks is observed. Under "four marks" there is a distinct fall. Before any definite conclusions are arrived at, it is proposed to make a series of observations over a number of years.

28. *The Distribution of Mortality from Smallpox according to Age.*—The following table shows the number of deaths and the percentage of the deaths to total from smallpox in the three age-periods, under one year, 1 to 10 years and above 10 years for the decade 1925-34 (both inclusive):—

| Year. | Under 1 year |                      | 1 to 10 years. |                      | Above 10 years. |                      | Total deaths. |
|-------|--------------|----------------------|----------------|----------------------|-----------------|----------------------|---------------|
|       | Deaths.      | Percentage to total. | Deaths.        | Percentage to total. | Deaths.         | Percentage to total. |               |
| 1925  | 7,654        | 37.4                 | 7,487          | 36.6                 | 5,337           | 26.0                 | 20,478        |
| 1926  | 4,889        | 44.6                 | 3,662          | 33.4                 | 2,406           | 22.0                 | 10,957        |
| 1927  | 8,427        | 44.4                 | 2,426          | 31.2                 | 1,928           | 24.8                 | 7,781         |
| 1928  | 8,069        | 40.3                 | 2,393          | 31.4                 | 2,156           | 28.3                 | 7,618         |
| 1929  | 8,431        | 35.3                 | 2,917          | 30.0                 | 3,300           | 34.7                 | 9,708         |
| 1930  | 2,324        | 33.5                 | 1,866          | 28.9                 | 2,753           | 39.6                 | 6,943         |
| 1931  | 1,610        | 40.2                 | 997            | 22.6                 | 1,488           | 37.2                 | 4,095         |
| 1931* | 1,455        | 27.1                 | 1,886          | 31.4                 | 2,222           | 41.5                 | 5,363         |
| 1932  | 3,081        | 28.7                 | 3,009          | 28.0                 | 4,455           | 43.3                 | 10,745        |
| 1933  | 5,693        | 30.9                 | 5,516          | 30.5                 | 6,979           | 38.6                 | 18,088        |

\* The figures for this year are exclusive of those of five districts.

The above table indicates that the percentage of deaths from small-pox under one year has fallen during the decade though the fall has not been steady. The percentage of mortality in the age-period one to ten years does not show any definite trend, while in the age-period above 10 years there is a noticeable increase in the percentage of mortality during the period. As the total number of deaths during 1925-34 is less than that during 1915-24, the increased percentage of deaths in the age-period above 10 years does not mean that the number of men protected is less than that in the previous decade, but that the degree of immunity in the adults is less than that in the infants. This shows the need for re-vaccination among the adults. Re-vaccination has been made compulsory throughout the Presidency in all the compulsory areas except the town of Madras. It is understood that compulsory re-vaccination will be introduced into the town of Madras also.

#### PLAGUE.

29. During the year under review 2,358 deaths were recorded as against 2,591 in 1933.

Comparative statistics for the last five years classified according to seasonal distribution are given below:—

| Period.              | 1930. | 1931. | 1932. | 1933. | 1934. |
|----------------------|-------|-------|-------|-------|-------|
| First quarter ... .. | 590   | 401   | 484   | 544   | 1,077 |
| Second do. ... ..    | 102   | 30    | 128   | 97    | 55    |
| Third do. ... ..     | 275   | 353   | 412   | 1,017 | 622   |
| Fourth do. ... ..    | 492   | 289   | 537   | 933   | 604   |
| Total ... ..         | 1,459 | 1,073 | 1,561 | 2,591 | 2,358 |

As usual the disease was severely prevalent in the 1st, 3rd and 4th quarters, while the 2nd quarter—the usual off-season—recorded the lowest number of deaths.

The epidemic was particularly severe in the districts of Bellary (1,130 deaths), Madura (803 deaths), Coimbatore (154 deaths) and Salem (112 deaths), while it was mild in the districts of Anantapur, Malabar, North Arcot, and Chittoor; in Tinnevely there was an imported case. The disease as in previous years chiefly confined itself to the western taluks of Bellary, Periyakulam taluk of Madura, Kollegal and Gobichettipalayam taluks of Coimbatore and Hosur taluk of Salem. Nilakkottai and Tirumangalam taluks in Madura district were also affected this year.

The one notable feature of this year was the occurrence of pneumonic plague in North Arcot and Chittoor districts. In North Arcot, pneumonic plague broke out during the first quarter and six villages in Vellore taluk and one village in Wallajah taluk were affected. The infection was traced to an imported case from Tumkur in Mysore State. In Chittoor district there were 8 attacks and 6 deaths in two villages. Here also infection was traced to Mysore territory. The first case developed bubonic plague but died with pneumonic symptoms, and later on contacts developed pneumonic plague.

Bodinayakkanur, Hospet and Calicut were the three municipalities which reported severe indigenous infection with 207, 183 and 50 deaths respectively. Bellary, Adoni and Tuticorin had imported cases.

30. Based on the results of investigations in the Cumbum valley in Madura district, a memorandum on plague preventive policy was drawn up during the year. The Government recommended this memorandum for careful study and guidance to local bodies in G.O. No. 1182, P.H., dated 30th April 1934. In accordance with this, the preventive measures chiefly consisted of anti-plague inoculations, evacuation, sun-disinfection wherever feasible and rat destruction. The village boycott system and formation of vigilance committees also helped to a certain extent in combating the spread of the disease. 128,938 inoculations were performed during the year. For destruction of rats, besides the usual methods of baiting and trapping, fumigation with cyanogas was extensively adopted in the districts of Madura, Bellary and Anantapur. Sun-disinfection of grains was restricted to places where weather conditions were favourable and also where the amount of merchandise to be dealt with was comparatively small.

31. Research work in Cumbum Valley was continued during the year and this is dealt with in detail under the head "Research". As the results of cyanogas fumigation were encouraging, it was decided to conduct a scheme of cyanogas fumigation in the districts of Coimbatore, Salem, Bellary and Anantapur and in the municipalities of Hospet and Bellary at a cost of about Rs. 8,800. The cost of the scheme was to be shared equally between the Government and the local bodies concerned. Necessary proposals have been submitted to Government, in the part II schemes for 1935-36.

#### FEVERS.

32. The number of deaths from fevers was 325,050 against 300,182 in 1933, giving death-rates of 7.19 and 6.64 per mille respectively, while the quinquennial average was 7.36 per mille. The mortality from this disease was uniformly high in most of the months, the highest being recorded in August and lowest in June. As the village headmen usually register deaths from influenza, pneumonia, malaria and enteric fever, including deaths whose causes are not definitely ascertained, under the head fevers, it is not possible to draw any definite conclusions from the high mortality rate under "fevers". Districts which returned high mortality from fevers are East Gōdāvari (Agency) (17.57), Vizagapatam (17.05), Ganjam (16.39), Kurnool (12.51), Bellary (10.53), Anantapur (10.36) and Cuddapah (10.32). The first four districts reported high mortality last year also. This is probably due to the fact that large tracts of these districts are malarious. Tanjore registered the lowest mortality (2.57) as in the previous year.

In all the municipalities, 9,814 deaths with a rate of 2.65 per mille were recorded under this cause against 9,357 deaths giving a rate of 2.57 per mille in 1933, the quinquennial average rate being 3.15 per mille. The mortality was high in Tadpatri (11.38), Nandyal (7.21), Peddapuram (7.04) and Tiruppattur (6.72). Nineteen municipalities returned low rate

below one per mille, Adoni registering the lowest mortality rate of 0.03 per mille.

The total deaths registered under "fevers" in all the rural towns in 1934 were 16,446 against 15,162 in 1933, the rates for the two years being respectively 6.41 and 5.91.

#### DYSENTERY AND DIARRHOEA.

33. These diseases caused 97,844 deaths with a rate 2.17 during the year under review, against 97,584 giving a rate of 2.16 and 88,838 giving a rate of 1.78 in 1933 and 1932, respectively. The highest mortality was registered in January, August and December. As these months synchronise with the monsoons, the high mortality in these months is probably due to the pollution of water-supplies. The highest rate of mortality was registered in Madura (3.68) and Nilgiris (3.50).

There were 12,043 deaths from these diseases in all the municipalities giving a rate of 3.25 per mille as compared with 11,954 deaths with a rate of 3.22 per mille in 1933. Narasaraopet (9.15), Madura (8.71) and Chioacole (6.09) registered high rates, while among the 7 municipalities returning mortality rates less than one per mille, Mayavaram (0.47), Tiruppattur (0.55) and Erode (0.74) recorded lowest rates.

#### LEPROSY.

34. The Surgeon-General with the Government of Madras continued to be in charge of anti-leprosy measures in the Presidency, while the Public Health Department helped in the matter of survey, health propaganda and registration of cases village-war by the Medical Officers in charge of Leprosy clinics.

The number of clinics available for treatment of leprosy during 1934 were 405 including Government, local fund, rural, mission and private aided institutions as against 303 during 1933. The number of patients treated in 1934 were 49,350 against 44,622 in 1933. It is reported that about 15 per cent of the cases treated at the clinics underwent treatment long enough to be benefited by it, while the rest discontinued after a few injections for various reasons, chief of which were:—(1) Failure on the part of patients to see marked improvement within a short time; (2) the long course of treatment necessary; (3) the pain caused by the injections; (4) the fear of social boycott; (5) the loss of daily wages on the days they attended the clinics; and (6) the indifference to the disease as it does not cause serious inconvenience. Nevertheless, there was a steady progress in the anti-leprosy campaign in the Presidency. The total number of injections given at the clinics during 1934 were 903,050 as against 695,295 in 1933.

There are 12 leper asylums in the whole Presidency accommodating about 2,100 inmates. The largest and most popular of these is the Lady Willingdon Leper Settlement at Chingleput (Tirumani) with about 750 patients.

The Group Leprosy Officers continued to train medical men in leprosy work, helped in opening new clinics, supervised existing clinics, particularly those where attendance was falling, conducted survey,

propaganda, registration of cases of leprosy and school medical inspection with a view to assess the extent to which Leprosy was prevalent among school population. The Government in G.O. No. 2889, P.H., dated 18th December 1934 have sanctioned for a further period of two years from May 1935, the continuance of the scheme for the reduction of the incidence of Leprosy in this Presidency, indicated in G.O. No. 690, P.H., dated 15th April 1931.

35. In pursuance of the circular of the Surgeon-General, District Leprosy Relief Councils were formed in 19 districts with the object of co-ordinating all anti-leprosy measures. These Councils are at present devising ways and means for financing the existing and proposed clinics and placing Leprosy Relief work on a proper basis. In Salem district, the Leprosy Relief Council has under its consideration the question of opening a Home for tainted children, and also demonstration centres where proper survey and follow up of the cases could be done, and if possible voluntary village isolation could be effected. With the formation of Leprosy Relief Councils, the District Health Officers have been closely associated with the anti-leprosy scheme and it is hoped that a steady advance will be made in tackling this important problem.

#### RESPIRATORY DISEASES.

36. The following table gives the mortality registered under respiratory diseases during the last ten years:—

| Year. |     | Deaths from<br>respiratory<br>diseases. | Rate per<br>mille of<br>popula-<br>tion. | Year. |     | Deaths from<br>respiratory<br>diseases. | Rate per<br>mille of<br>popula-<br>tion. |
|-------|-----|-----------------------------------------|------------------------------------------|-------|-----|-----------------------------------------|------------------------------------------|
| 1925  | ... | 74,591                                  | 1.8                                      | 1930  | ... | 89,159                                  | 2.2                                      |
| 1926  | ... | 85,602                                  | 2.1                                      | 1931  | ... | 93,222                                  | 2.1                                      |
| 1927  | ... | 81,277                                  | 2.0                                      | 1932  | ... | 94,312                                  | 2.1                                      |
| 1928  | ... | 90,012                                  | 2.2                                      | 1933  | ... | 105,828                                 | 2.3                                      |
| 1929  | ... | 90,159                                  | 2.2                                      | 1934  | ... | 107,742                                 | 2.4                                      |

It is seen that the mortality from the disease has shown an increase as compared with the previous year, the quinquennial average being 2.2. As in 1933, the mortality was high in January, November and December. The highest rate of 5.16 per mille was registered in Nilgiris. East Godavari (Agency) (3.86), Madura (3.68), Bellary (3.62), Kistna (3.32), East Godavari (Plains) (3.08) also returned high rates.

In all the municipalities, the total deaths from respiratory diseases were 21,217 during the year, giving a rate of 5.73 per mille, against 19,888 in 1933 giving a rate of 5.35 per mille. The highest rates were registered in Madura (11.19), Madras (10.91), Kodaikanal (10.88), Ootacamund (9.34), Bellary (8.89) and Anakapalle (8.56).

The mortality rate in the rural towns was 1.94 during the year as compared with 1.90 in 1933.

#### RABIES.

37. The number of deaths registered under this cause was 412 (urban 110, rural 302) against 464 (urban 109, rural 355) reported last year.

## OTHER CAUSES OF DEATH.

38. Nearly 530,000 deaths (i.e. nearly 47 per cent of the total mortality) were registered under "other causes." The term "other causes" includes a large number of diseases, so that it is impossible to gauge the distribution of mortality due to each. Moreover, the tendency to classify deaths whose causes are not ascertained under this head by village headmen, makes it difficult to interpret correctly the high mortality under this group. As these "other causes" form the bulk of the total deaths, it is essential to have some detailed knowledge of the various diseases which come under this group. The detailed vital statistical returns received from 15 municipalities with Health Officers, have been compiled together and are given in Annexure A to this report. This annexure is a truer representation of facts than the figures submitted by village headmen. Out of a total mortality rate of 32.17 per mille in these municipalities only a rate of 2.15 per mille is shown under the group "All other causes."

## EPIDEMIOLOGY.

39. *Cholera*.—The incidence of cholera during the year under review showed a phenomenal rise as compared with that of the previous year; there were 18,158 deaths as against 3,851 in 1933. It appears difficult to account for this rise unless perhaps the reason is sought in the comparative freedom of the presidency from June 1932, to the beginning of this year. The disease prevailed in a mild form in the first half of the year, but during the second half, it became widespread in some districts and over 80 per cent of deaths in the year occurred during this period.

Among the northern group of districts, Ganjam was infected practically throughout the year in a fairly severe epidemic form; in the other districts, the epidemic was comparatively mild.

Among the central group, the Ceded districts practically escaped from the disease; Chittoor had mild infection while Nellore, Chingleput, North Arcot, suffered rather severely.

The endemic deltaic districts of South Arcot, Trichinopoly and Tanjore bore the brunt of the infection during the year. About 50 per cent of the total deaths occurred in these three districts. While in South Arcot, the epidemic prevailed in a severe form throughout the year, in Trichinopoly and Tanjore, cholera occurred but sporadically till the end of November and then it suddenly flared up and became widespread in December, corresponding to the winter epidemic.

Among the southern group of districts (Tinnevely, Madura, Ramnad, Coimbatore and Salem), excepting Salem where a mild epidemic broke out in December, the rest of the districts were practically free.

The West Coast districts (Malabar, South Kanara) also enjoyed similar freedom from the disease.

To sum up, Ganjam, North Arcot and South Arcot were the three districts wherein the epidemic prevailed throughout the year while Salem, Trichinopoly and Tanjore had the winter epidemic in December.

As in the past, forecasts of the probable trend of cholera in the presidency were published periodically which proved reliable guiding factors in helping the local bodies and the health staff to forearm themselves to meet the situation.

40. *Smallpox*.—The total number of deaths from smallpox was 18,088 during 1934 against 10,745 in 1933, the quinquennial average being 7,484. The largest number of deaths occurred during the summer months of March and April and the least in September. In the north of the presidency the Ceded districts and Guntur paid a heavy toll, while the districts of North Arcot and Chingleput in the centre and South Arcot and Tanjore in the south were badly affected.

## FAIRS AND FESTIVALS.

41. There were about 570 festivals during the year, 450 of which were celebrated during its first half. Most of the important festivals in rural areas were as usual supervised by the District Health Officers while the management of comparatively less important ones was entrusted to the Health Inspectors. In municipal areas, the Health officers organized the festival arrangements, but where there were no Health Officers, the Commissioners sought the advice of the District Health Officers.

After the abolition of the Taluk Boards from 1st April 1934, the festivals under their management passed under the control of the respective District Boards while those classified as Panchayat festivals continued to be administered by the Panchayat Boards. With this change, though it was expected to secure better management of the festivals, yet in a few districts, the recommendations of this department were not given effect to in full. As a contrast, the arrangements of all festivals in municipalities were generally satisfactory. The Government in reviewing the half yearly festival reports of the Director of Public Health urged on the Local Boards concerned the importance of carrying out the arrangements without any deviation and it is hoped that the conduct of future festivals will be more satisfactory. However, it is gratifying to note that all the festivals during the first half year passed off without any outbreak of cholera, while during the second half, there were a few imported cases in five important festivals due to the prevalence of the disease in and around the festival area. But prompt and effective steps were taken to check the spread of the disease.

In G.O. No. 312, P.H., dated 9th February 1928, the Government laid stress on the importance of carrying out certain permanent arrangements at perennial and important pilgrim centres. The attention of the concerned Local Boards has been drawn year after year to this aspect of public health, but nevertheless the response in this direction has been very meagre; lack of funds has been the usual plea. The District Boards of Chittoor, East Godavari, Coimbatore, Tanjore, Madura, Anantapur, North Arcot and Nellore were the only bodies that made some improvements of a permanent nature in the pilgrim centres in their districts.

42. A prominent feature of this year's festival work was the preliminary investigation that had to be carried out in connexion with Ardhodayam festival. It is a festival which takes place once in about 30 years at a number of seaside places, the more important ones being Vedaranniyam and Kodikkarai in Tanjore district, Rameswaram and Dhanushkodi in Ramnad district, Mahabalipuram in Chingleput district and Masulipatam in Kistna district. In the absence of any past records, the preliminary investigation and the drafting of the actual arrangements necessary were indeed a difficult task. However, the experience gained in the conduct of festivals like the Pushkarams and Mahamakham helped considerably in organizing satisfactorily the requisite arrangements at the different centres. The festival actually took place in February 1935, and it is gratifying to record that with the co-operation of all concerned this eventful occasion passed off very satisfactorily in all the different centres.

#### RURAL SANITATION CAMPAIGN.

43. There is, perhaps, no widespread infection which is so insidious in its progress, but at the same time very far-reaching in its debilitating effects on the race, as hookworm infection. It affects both the strong and the weak, and, by slowly but steadily undermining the physical and mental health of its victims, brings about the physical and economic deterioration of the community. Unless this menace is controlled, no programme of rural development can produce its maximum results. The control of hookworm infestation is intimately connected with the progress of rural sanitation inasmuch as soil pollution with human excreta is the prime factor favouring its spread. Promiscuous defecation by the rural population can be controlled only by the provision of an adequate number of suitable latrines for their use; and, this is the problem that should be tackled by the Sanitarian in this province. Most of the villages are still in a primitive stage in this respect and have nothing by way of sanitary conveniences. The villager is not at all averse to the use of a latrine provided it is clean and free from obnoxious odours.

A detailed hookworm survey of the Presidency was completed by 1927 by the Anklyostomiasis campaign of the International Health Board under the Rockefeller Foundation of America, and the immensity of the problem was clearly demonstrated. As a result, the Government took over all further work from them and started the Rural Sanitation Campaign in 1928 for the prevention and control of hookworm infection in this Presidency. The Rural Sanitation staff consists of a Rural Sanitation Officer and six Rural Sanitation Units and the main activities of the campaign are:—

- (1) Educational propaganda on hookworm and the dangers of soil pollution.
- (2) Hookworm treatment.
- (3) Improvement of Rural Sanitation by the provision of latrines.

44. The Rural Sanitation Unit in Vizagapatam district was transferred to west Godāvāri district in July 1934; and the Unit in Coimbatore

district was transferred to Tinnevely district in November. The Unit which was doing special work in the Rural Development area, Tiruvallur, was reposted in October to South Arcot district in consequence of the discontinuance of the Rural Development scheme. At the close of 1934, the Rural Sanitation Units were thus working in the districts of Madura, Tinnevely, South Arcot, West Godāvāri, Salem and East Godāvāri.

45. *Hookworm Survey.*—Two detailed investigations on the prevalence of hookworm infection were conducted during the year. A hookworm survey of the Rural Development Area, Tiruvallur, necessitated the examination of 2,648 stools from 22 representative villages. Hookworm eggs were detected in 90 per cent of the stool samples, which showed a very high incidence rate of hookworm in the population. The intensity of infection was also determined by egg counts in 1,877 cases. The average number of eggs per gram of faeces was 700. Though hookworm was widely prevalent in the area, the intensity of infection was not very great. Another investigation on the prevalence of hookworm infestation amongst the students of the Y.M.C.A. school of physical education, Saidapet, disclosed an incidence rate of 45 per cent amongst them. On account of good sanitary provision in the institution, the chances of the students getting the infection at the school were very little and the few that showed the infection were those hailing from badly infested districts.

46. *Propaganda.*—Education, concerning the nature and manner of spread of hookworm infections and the great havoc it plays on the health of the community, could accomplish much in the prevention and control of this menace. The villager will avoid polluted soil if he knows the dangers lurking therein and will resort to the latrines which are provided for his benefit. It is only by propaganda that he could be made to realise his responsibilities to himself and to his community and to make proper use of the latrines. If the latrine seats are fouled others cannot use them; and so, he should be taught that it is his duty to use the latrines without carelessly fouling the seats. All sorts of educational devices were pressed into service to secure these objects. Four hundred and sixty-seven cinema shows, 471 magic lantern demonstrations, 1,312 lectures with picture charts and 17 exhibitions and demonstrations were given by the Rural Sanitation staff during the year and they were able to reach five hundred thousand persons. 20,617 pamphlets and bulletins on hookworm were also distributed. The cinema equipment with the Rural Sanitation section was given on loan for propaganda to four municipalities and four voluntary associations.

47. *Hookworm Treatment.*—In addition to its curative value in individual cases, mass treatment for hookworm is of great help in keeping down hookworm infestation in the community and lessening the chances of its spread. An untreated case of hookworm infestation is a fruitful source for disseminating the infection in the community. One treatment will expel 80 per cent to 90 per cent of the worms in an infested individual. If the chances of reinfection are reduced by improvement in rural sanitation, such mass treatments will be very effective in controlling hookworm infestations. During the year under report, 193,273 treatments were given of which 13,687 treatments were administered by the Rural Sanitation staff and the rest by the medical staff of the various hospitals and dispensaries and other agencies.

48. *Provision of Latrines.*—Prevention of soil pollution is by far the most important measure in the control of hookworm infestation and other bowel diseases. Hookworm infestation cannot be entirely eradicated from places, where climatic conditions are favourable, until the ideal of sanitary night soil disposal is reached. The first step in any programme for the improvement of Rural Sanitation should be provision of an adequate number of latrines. What is required is a simple latrine which is cheap, efficient, and at the same time requires only a minimum of attention. The Bore-hole and the trench (pit) latrines would very well answer the purpose, and much of the time and energy of the Sanitation staff was devoted for popularizing these latrines and for constructing them for local bodies. During the year under report, 2,512 latrine seats were constructed and 805 seats were reconstructed. As in previous years, the greatest progress in this branch of work was made in Madura district.

The problem of soil pollution cannot be solved by the provision of public latrines alone. As far as possible every house should have its own latrine. The Bore-hole has proved to be so far the best type suited for private houses in rural areas. With a view to encourage people to put up house latrines, the ferro-concrete squatting slabs were given free of cost in Madura district to those who had agreed to bear all other charges incidental to latrine construction. The result was satisfactory and 579 house latrines were constructed in the district during the year. Salem District Board has decided to give the squatting slabs at half cost to encourage the construction of house latrines. There is considerable demand for the putting up of house latrines in both the East and West Godavari districts, and 480 latrines were constructed in the former during 1934.

49. In accordance with G.O. No. 765 P.H., dated 1st June 1922, twenty-five District Boards, and eighty-one municipalities have submitted reports on the anti-hookworm work done in their areas. The statement below gives a summary of the activities contained in those reports.

|                                   |           |                                               |        |
|-----------------------------------|-----------|-----------------------------------------------|--------|
| 1. Hookworm treatments ...        | 193,273   | 3. Latrines—                                  |        |
| 2. Propaganda—                    |           | (a) New constructions—                        |        |
| (a) Cinema shows ...              | 437       | (i) Public latrine seats ...                  | 1,294  |
| (b) Magic lantern demonstrations. | 1,519     | (ii) Private latrine seats ...                | 12,373 |
| (c) Lectures ...                  | 7,797     | (b) Reconstructions and reborings (seats) ... | 1,662  |
| (d) Exhibitions ...               | 77        |                                               |        |
| (e) Total audience...             | 1,150,000 |                                               |        |

#### MALARIA.

50. (a) *Surveys.*—Malaria surveys were carried out during the year under report in—

- (1) Madakasira taluk in Anantapur district,
- (2) Gudur taluk in Nellore district,
- (3) Kurnool and Koilkunta taluks in Kurnool district,

- (4) Coastal tracts in Ganjam district,
- (5) Srungavarapukota in Vizagapatam district,
- (6) Melur and Kodaikanal taluks in Madura district,
- (7) Kannamuchi village in Mettur taluk, Salem district,
- (8) Coimbatore taluk, Coimbatore district, mainly in connection

with reporting upon the need for extension of the scheme of free distribution of quinine except in the case of Madakasira, Kurnool and Srungavarapukota, where a definite scheme of anti-mosquito work was also drawn up. In Madakasira, work was commenced from September 1934. In Kurnool the District Board Reserve Sub-Assistant Surgeon was trained for the work only in December 1934. In Srungavarapukota the scheme is still under consideration.

(b) *Anti-malarial Measures.*—These were continued as in the previous year in seven centres in the Vizagapatam agency purely under Government auspices. Two of these centres continued to have full-time Health Inspectors in charge while in the other five, medical officers in charge of the dispensaries were directed to supervise Paris greening.

Both at Jeypore and Krishnadevipet the result of the work continues to be encouraging. The spleen rate is still as low as 6 per cent in Krishnadevipet (as against 19 per cent in 1929) and in Jeypore it is now only 15 per cent as against 30 per cent in 1931. The extent of Paris greening has recently been increased from half to one mile radius in Krishnadevipet with a view to see if a further reduction in the incidence of malaria and its index, the spleen rate, cannot be effected.

A second-class Health Officer trained in malaria at Karnal is now in charge of the Public Health work in the Vizagapatam agency tracts and he works under the direction of the Vizagapatam agency surgeon.

In addition to the above centres anti-malarial works were also in progress in Vizagapatam Municipality and in Rameswaram island. Sustained good work has been done at Rameswaram during the last five years. All the important breeding ponds have been filled up. The spleen rate is now only 1.5 per cent (as against 15 per cent in 1929). That this is not due to a natural decline is shown by the continued incidence of malaria in other parts of the island where no work has been carried out.

The permanent measure of roughstone revetment of the irrigation channels in Siruguppa has proved a great success both in reducing the breeding of *A. Culicifacies* and the incidence of malaria. The spleen rate is now only 7 per cent as against 30 per cent in 1928. Government have consequently withdrawn the unhealthy allowances to Government officials with effect from 1st January 1935. This measure of sanitation has therefore paid many times its cost—a feature of special gratification since in Public Health work it is seldom possible to show such quick, direct and concrete financial gains.

(c) *Quinine distribution.*—1,385 lb. of quinine were distributed during the year among 108,296 persons. About 64.9 per mille received treatment in the 13 districts in which the scheme is in force. A fuller report on the working of the scheme has separately been submitted to Government.

(d) *General*.—The resolutions on the malaria policy of Government passed by the Malaria Sub-Committee at its meeting in March 1934 have been approved by the Public Health Advisory Committee and they are now under the consideration of the Government.

#### MATERNITY AND CHILD WELFARE.

51. There has been marked progress in the Maternity and Child Welfare section. G.Os Nos. 2514, P.H., dated 29th October 1934, 2884, P.H., dated 17th December 1934, and 2240 P.H., dated 25th September 1934, have placed the work on a firmer footing under the administration of local bodies, who have shown increasing interest during the year. The total allotments made by District Boards and Municipalities for 1934-35 are Rs. 105,705 and Rs. 106,818 respectively as against Rs. 35,227 and Rs. 90,454 in 1931-32. Fifteen full-time Women Medical Officers have been in charge of the work under various District Boards and Municipalities. (Reference:—Annexures D and E.)

The appointment of medical women as special child welfare assistants to the Health officers concerned has not only considerably helped forward progress of work under officers enabled to devote whole time attention to it, but has been the means of establishing happier conditions of service for women health visitors and midwives who now work under the direct administrative charge of a woman officer. Many difficulties exist for lonely pioneer women workers in rural areas, difficulties which can hardly be realized by those whose lives bring them into little or no contact with rural conditions; at present many of these have been overcome by dint of hard work and dogged perseverance in the face of opposition during the early stages of work from ignorant villagers. Every difficult labour case successfully treated often after persistent and obstinate neglect, has established confidence, and indeed the degree of trust imposed on workers has been in direct proportion to that of opposition and refusal to accept advice at first. Preventive health work among women is now welcomed by the villager in the District Board areas of Coimbatore, Ramnad, West Gōdāvari and Kistna. Departmental experience in this matter proves once again that such work among women must be based on an efficient domiciliary maternity service and that women piloted successfully through a period which is a cause of anxiety alike to prince and peasant, readily seek and accept advice on all other matters relating to their own health and that of their children and families. Educational health work has therefore progressed in centres where sound midwifery has been carried out, and the regular attendance at mother's classes and ante-natal clinics of women taking a real interest in the healthy conduct of their homes is a successful feature of the work.

Health classes have also been regularly held in Girls' schools in areas where Women Medical Officers have been employed. G.O. No. 233 of 9th February 1935 (Law and Education Department) recognizes the value of such visits and District Boards will hereafter be guided by the remarks of these officers who are required to visit the schools for the purpose of noting on the general health of pupils and on the sanitary conditions

obtaining in the school. Arrangements are in progress for the deputation of these Women Medical Officers for a post-graduate course in Maternity and Child Welfare. The number of Maternity and Child Welfare centres under local bodies in 1934-35 was 109.

52. *Health Visitors*.—Nine Health Visitors have been employed under local bodies in 1934-35 as against four in 1931-32. The Health School under the Red Cross was reopened in July 1934 and seven candidates have obtained their diplomas at the time of writing. There is no doubt that they will all be absorbed in service. Conditions relating to the appointment under local bodies of health visitors trained in the School for the Training of Health Visitors, Red Cross Society, have been revised with the active co-operation of the society. Administration has thus been rendered smoother for health officers who are the officers held responsible by Government for conduct of Maternity and Child Welfare work in their respective areas.

53. *Midwives*.—One hundred and ninety midwives are employed for domiciliary service under local bodies. They are under the guidance and supervision of women medical officers who pay particular attention to the development of ante-natal work. Arrangements are made for refresher courses; seventeen midwives have been granted exemption from registration according to recommendations made by the Director of Public Health after special inspection of their work. Twenty-seven additional hospitals have been recognized as training centres for midwives during the year thus rendering it possible for a larger output of trained hands available for employment. The Madras Nurses and Midwives Act was amended at the request of the Director of Public Health, and the Director of Public Health is now a member of the Madras Nurses and Midwives Council. There is now closer co-operation between the department and the Council both in improving the type of worker and in the recognition of suitable hospitals as training centres. Owing to the fact that the practice of midwifery is still largely in the hands of untrained women, there is little recognition yet on the part of the public of the degree of professional skill required of the efficient midwife. Although the position of midwives under local bodies has been somewhat improved and stabilised by G.O. No. 2884, P.H., dated 17th December 1934, yet the conditions of their service call for further improvement in order that suitable educated women may readily enter the profession.

The midwives in the rural areas of Coimbatore, Ramnad, West Gōdāvari districts have done good work involving personal hardships and have conducted 680 labour cases, and paid 14,378 home visits to ante-natal and post-natal cases during the year. Women workers whose professional services are night and day at the disposal of a public not always able to appreciate either their work or their difficulties, have a claim to protection, and recommendations made to local bodies after departmental inspection always include those for adequate housing of midwives, regulation of their hours of duty and rest, and protection from unnecessary annoyance in the course of their duties.

54. According to G.O. No. 2019, P.H., dated 27th August 1934 the Assistant Directress of Public Health (Maternity and Child Welfare) has

paid quarterly visits to the districts of Coimbatore, West Gōdāvari, Ramnad and Tanjore and also to nine other districts and twenty municipalities.

Satisfactory progress has been achieved in the districts of Coimbatore, West Gōdāvari and Ramnad in spite of difficulties experienced in the establishment of new work. Progress in Tanjore district has been hampered by various factors, one of these being the bifurcation of the Board in January 1935. As required by Government a special report on the progress in these areas will be submitted at the end of a year's working. The visits of inspection to the various areas have stimulated the interest of local bodies concerned and have enabled new staff appointed locally to receive personal teaching, guidance and supervision in the organisation and conduct of work. The first hand knowledge of local conditions thus obtained has also been of value to the Director of Public Health in moulding departmental policy during the early years of development of a new section. The expenditure of local bodies has been directed along right channels, and there is every reason to believe that their work is definitely promising, and deserves further support and encouragement.

#### SCHOOL HYGIENE.

55. The fees received by officers of the Public Health Department for issue of sanitary certificates to schools have been ordered to be credited to Government. In view of the elaborate public health staff working in the districts there is a proposal to discontinue the practice of empowering Medical Officers to grant these sanitary certificates. The amendment of the relative sections of the Madras Educational Rules and the Code of Regulations for European Schools in accordance with the above proposal is under consideration of Government.

#### HEALTH PROPAGANDA.

56. There can be no doubt that considerable headway has been made in health propaganda in this Presidency; but it is too soon to assess its results. The Campaign should, however, go on with unabated vigour, for progress in certain directions necessitates a thorough change in the customs and outlook of the people; and this cannot be achieved in one generation. A visit to the village school will convince even a pessimist that there has been considerable advance in public health knowledge amongst the school children. They know more about cholera, smallpox, malaria, hookworm, etc., than their forbears. Such advance has been a source of great encouragement to the department which has never failed to press into its service any novel method of propaganda if it could ensure the advancement of health education by its greater attractiveness and impressiveness.

Health Propaganda in villages will be effective and fruitful only if the villagers can visualise and grasp what is said to them. What is required for them is a short and simple talk with some form of visual demonstration such as the cinematograph, the projection lantern, illustrated posters, etc.

57. Several portable cinema sets and suitable cinema films are now available for propaganda work in the districts. There is always a good stock of pamphlets, leaflets, posters, magic lantern slides, magic lanterns and cinema films in the propaganda section and these are supplied on indents from the local bodies, health staff and others. The leaflets, pamphlets and posters are only sold, while magic lantern slides and cinema films are given on hire. The hire for the cinema film is Rs. 5 per reel per week and there is a general feeling in the districts that this rate is very high. An amount of Rs. 1,370 has been realized by the hire of films alone during 1934. Health films are available from the Red Cross Film Library at a much cheaper rate. Separate proposals will therefore be submitted regarding the revision of hire charges of the films.

464,255 pamphlets and leaflets and 11,195 posters were sold during the year. Six of the magic lanterns were structurally altered for working with Baby Petromax lights instead of with the usual Acetylene gas burners. This was found to be a great improvement. Four new leaflets on Leprosy and 15 leaflets on Tuberculosis were issued during the year. The latter were issued under the auspices of the Anti-Tuberculosis Sub-Committee. A new set of coloured slides on Plague was also issued. One remarkable feature in the evolution of propaganda work was the utilisation of gramophone music this year for health education. With the kind co-operation of Orr's Columbia House, Madras, four popular songs on "Flies", "Consumption", "Ante-natal Care", and "Care of the Child" were issued as gramophone records. These records are in Tamil and are very popular in the Tamil districts.

58. The Health Week affords an opportunity for intensive propaganda and as usual it was celebrated throughout the Presidency. A separate report on Health Week will be submitted to Government.

The Park Fair at the South Indian Athletic Association Grounds during the Christmas season was taken advantage of for putting up a Health exhibition by this department. The exhibition was very popular and there was a huge crowd to see the exhibits every day. The moving models worked by electricity attracted much attention.

Weekly bulletins on the health conditions of the Presidency were regularly published in all the local news papers.

The following statement gives a summary of the propaganda work done in the Presidency during the year:—

|                              |     |     |     |     |         |
|------------------------------|-----|-----|-----|-----|---------|
| Lectures and Short talks     | ... | ... | ... | ... | 139,186 |
| Magic Lantern demonstrations | ... | ... | ... | ... | 18,552  |
| Cinema shows                 | ... | ... | ... | ... | 621     |
| Health exhibitions           | ... | ... | ... | ... | 1,461   |
| Health dramas                | ... | ... | ... | ... | 813     |

The total audience reached has been estimated to be seventy-eight lakhs.

Health propaganda in municipalities has shown a general improvement during the year when compared with the previous years. Walajapet Municipality was a singular exception which did no work under propaganda. Chiacole has not submitted its Annual Propaganda Report in spite of several reminders.

59. Health propaganda is one of the routine duties of the district health staff and the activities under this head were maintained at the same level as last year. The District Boards of Nellore, Cuddapah, Coimbatore, and Chittoor have propaganda motor vans specially fitted up with cinema machines, magic lanterns, health exhibits, etc. The propaganda van in Chittoor district has, in addition, a wireless receiver set, a gramophone pick up and a speech amplifier. These vans tour extensively in the districts and do intensive propaganda even in remote villages.

60. *Temperance Propaganda*.—In G.O. Ms. No. 1152, Public Health, dated 27th April 1934, funds were placed at my disposal for giving grants to non-official associations engaged on Temperance Propaganda. Applications received from various associations were scrutinized and a total grant of Rs. 527-8-0 was sanctioned as below :—

|                                                                                                      | Rs.  |
|------------------------------------------------------------------------------------------------------|------|
| 1. Sree Sujana Samajam, Anakapalle, Vizagapatam district                                             | 65   |
| 2. Women's Christian Temperance Union, Madras                                                        | 60   |
| 3. The Servindia Rural Centre, Mayanur, Trichinopoly district                                        | 150  |
| 4. Pride of Hills Lodge No. 14, The International Order of Good Templars, Coonoor, The Nilgiris      | 27½  |
| 5. Konmaragurukulam, Mannargudi, Tanjore district                                                    | 60   |
| 6. Liberty Lodge No. 60, The International Order of Good Templars, Aravankadu, The Nilgiri district. | 65   |
| 7. The Madras Hindu Good Templars' League, Madras                                                    | 100  |
| Total                                                                                                | 527½ |

The financial statement required in G.O. Ms. No. 748, Public Health, dated 20th March 1929, is furnished in Annexure C.

### VACCINATION.

61. The statement given below shows the total number of vaccination operations performed during the year as compared with that of the previous year :—

| Year.                | Primary and secondary vaccination. | Re-vaccination. | Total.    |
|----------------------|------------------------------------|-----------------|-----------|
| 1934-35              | 1,381,176                          | 3,842,741       | 5,223,920 |
| 1933-34              | 1,297,829                          | 3,254,926       | 4,552,755 |
| Increase or decrease | +83,347                            | +587,815        | +671,165  |

The above statement presents an all round progress of vaccination both under primary and secondary vaccination as well as re-vaccination. The increase of outturn is due to the prevalence of smallpox in epidemic form and the vigorous preventive campaign carried on by the Health staff. The marked increase in re-vaccination figures is in addition to the above reason due to the enforcement of compulsory re-vaccination.

### VACCINATION IN RURAL AREAS.

62. The total number of vaccination operations in the rural areas of the Presidency is 4,444,061 consisting of 1,233,562 primary and secondary vaccinations and 3,210,499 re-vaccinations. This shows an increase of 599,077 in the total over that of the previous year. The largest number is recorded in Guntūr district with 292,824 operations and is followed by Malabar with 274,104. The Nilgiris returned the lowest figures, i.e., 39,603. The number of children under one year successfully vaccinated is 543,947 as against 558,702 in 1933-34. The percentage of successful infantile vaccination to total births varies from 63·8 in Madura district to 18·5 in Tanjore district.

Government in G.O. Ms. No. 1581, Revenue, dated 9th August 1934 have directed that it is unnecessary to introduce compulsory vaccination in the Agency Tracts.

Though vaccination is compulsory in most parts of the Presidency it is yet to be made compulsory in (1) the 91 villages of Kallakurichi taluk, South Arcot District, (2) 7 villages of Cuddapah taluk, 17 villages of Kamalapuram taluk and 104 villages of Badvel taluk of Cuddapah District, (3) Attapady valley in Walluvanad taluk, Malabar District and (4) in Tinnevely Health Inspector's range in Tinnevely District.

Since vaccination administration is now vested in the District Boards it is hoped that the Presidents of District Boards concerned will declare vaccination compulsory throughout their district at an early date.

The year witnessed one of the most important changes in the history of vaccination administration, namely the abolition of the Taluk Boards. The advantages brought about by the transfer of control to the District Board are manifold. It has effected centralisation of control and enabled a uniformity of procedure, prompt action being taken in many districts in supplying equipment, in sanctioning prosecutions and in acting quickly in times of epidemics. It has enabled the District Health Officers to concentrate the staff in infected localities to conduct mass vaccination. A number of vaccinators of the district were asked to take up the infected area and do vaccination in a short period of time completing about 60 per cent of the population.

Several District Boards have delegated their powers of prosecution of vaccination offenders to the District Health Officers as advised in G.O. No. 1642, P.H., dated 28th July 1933.

The obstacles that still stand in the way of the spread of vaccination may be enumerated briefly as follows :—

(a) Absence of compulsory registration of births throughout all the districts.

(b) Existence of non-compulsory areas for vaccination.

(c) Indifference of village officers—many of whom pay little attention to maintaining unprotected children lists up-to-date. In several instances, the village munsifs fail to report cases of smallpox and very often the reports are belated.

(d) Non-delegation by a few District Boards of powers of prosecution to District Health Officers. The reluctance of local bodies to sanction prosecution is a real disability.

(e) The leniency of magisterial authorities, especially honorary magistrates in the matter of awarding punishments to vaccination offences though Government in their Order No. 1703, P.H., dated 21st August 1928, have stressed the necessity of awarding deterrent punishments.

(f) The absence of adequate powers of discipline and control over vaccination staff by District Health Officers and Municipal Health Officers as advised in the previous annual report.

#### VACCINATION IN MUNICIPALITIES.

63. The total number of vaccination operations performed in the municipalities of this Province is 713,723 consisting of 139,099 primary and secondary vaccinations and 574,624 re-vaccinations. This shows a slight fall in primary and secondary vaccination from the figures of last year, though an enormous increase is recorded in re-vaccination. 94,413 children under one year of age were successfully vaccinated when compared with 95,641 in the previous year. The percentage of infantile vaccination to total births varied from 98.8 in Kodaikanal municipality to 25.2 in Anakapalle. The rate of successful vaccination per mille of population ranged from 242.2 in Madura to 32.2 in Guntūr.

64. *General.*—The total number of successful vaccinations performed during the year by the different agencies are classified as follows:—

| Agencies.                                         | Number of successful vaccinations. |                 |                  | Percentage of success. |                 |             |
|---------------------------------------------------|------------------------------------|-----------------|------------------|------------------------|-----------------|-------------|
|                                                   | Primary vaccination.               | Re-vaccination. | Total.           | Primary vaccination.   | Re-vaccination. | Total.      |
| Local Fund vaccinators ...                        | 1,024,766                          | 659,961         | 1,684,727        | 95.2                   | 25.7            | 46.2        |
| Government vaccinators.                           | 24,102                             | 6,914           | 31,016           | 87.5                   | 32.0            | 63.1        |
| Municipal vaccinators ...                         | 134,906                            | 141,723         | 276,629          | 98.9                   | 29.5            | 44.9        |
| Cantonment vaccinators...                         | 3,971                              | 9,139           | 13,110           | 95.3                   | 39.7            | 48.2        |
| Medical subordinates and Port Health Officers ... | 1,409                              | 6,114           | 7,523            | 98.6                   | 53.4            | 58.3        |
| Railways ...                                      | 1,919                              | 2,584           | 4,503            | 92.6                   | 30.9            | 43.1        |
| <b>Total ...</b>                                  | <b>1,191,073</b>                   | <b>828,435</b>  | <b>2,017,508</b> | <b>95.5</b>            | <b>26.5</b>     | <b>46.3</b> |

The strength of vaccination staff employed by various agencies during the year is noted below:—

| Year.                                          | Health Inspectors. | Vaccinators. |           |               |        |
|------------------------------------------------|--------------------|--------------|-----------|---------------|--------|
|                                                |                    | I Class.     | II Class. | Probationary. | Total. |
| 1933-34 ...                                    | 274                | 224          | 608       | 30            | 862    |
| 1934-35 ...                                    | 278                | 224          | 633       | 22            | 879    |
| Increase or decrease compared with 1933-34 ... | +4                 | Nil.         | +25       | -8            | +17    |

The increase in the number of health inspectors is due to the abolition of the Rural Development Scheme, Tiruvallur and their consequent

absorption among the range health inspectors. The strength of II class vaccinators has been enhanced owing to the appointment of additional men. The small class of probationers is gradually diminishing.

Government in their Order No. 2884, P.H., dated 17th December 1934, have prescribed uniform scales of pay to I and II class vaccinators and abolished the cadre of probationary vaccinators. It is hoped that all District Boards and Municipalities will give effect to this Government Order without delay.

65. An abstract of expenditure incurred by the various agencies for vaccination establishments is shown hereunder—

| Establishment.                         | Total expenditure. |                 | Average cost of each successful case. |              |
|----------------------------------------|--------------------|-----------------|---------------------------------------|--------------|
|                                        | 1933-34.           | 1934-35.        | 1933-34.                              | 1934-35.     |
| <b>Rural areas—</b>                    |                    |                 |                                       |              |
| Government establishments—             | RS.                | RS.             | RS. A. P.                             | RS. A. P.    |
| Vaccinators and health inspectors *... | 1,88,600           | 1,94,800        | ...                                   | ...          |
| Local Fund ...                         | 4,08,600           | 4,16,600        | ...                                   | ...          |
| <b>Total of rural areas ...</b>        | <b>5,97,200</b>    | <b>6,11,400</b> | <b>0 5 7</b>                          | <b>0 5 8</b> |
| <b>Municipal ...</b>                   | <b>1,08,700</b>    | <b>1,09,700</b> | <b>0 6 4</b>                          | <b>0 6 4</b> |
| <b>Cantonment ...</b>                  | <b>4,500</b>       | <b>5,300</b>    | <b>0 4 5</b>                          | <b>0 6 6</b> |
| <b>Total ...</b>                       | <b>7,10,400</b>    | <b>7,26,400</b> | <b>0 5 8</b>                          | <b>0 5 9</b> |

\* One-third of the expenditure in the establishment of health inspectors is debited to vaccination.

The average cost of each successful case was lowest in Malabar District (As. 3-9) and highest in Tanjore District (As. 9-2).

In municipalities the cost varied from As. 2-1 in Periyakulam to As. 15-10 in Kodaikanal.

#### INSPECTION OF VACCINATION CASES.

66. The number of cases inspected by District Health Officers varied from 6,597 by the District Health Officer, Malabar to 273 by the District Health Officer, Ramnad. In the case of municipalities, 18 Municipal Health Officers failed to inspect 75 per cent of primary vaccination and 13 Municipal Health Officers failed to verify 50 per cent of re-vaccination cases. Six Municipal Health Officers failed in both. In towns having no Health Officers, the number of Medical Officers who have not done the minimum verification of primary cases is 9, while the number of Medical Officers who have failed to inspect 50 per cent of re-vaccination cases is 10. Seven Medical Officers failed in both.

Twenty-nine Health Inspectors have failed to verify the prescribed minimum under primary vaccination and as many as 16 Health Inspectors to reach the minimum 70 per cent in the inspection of re-vaccination cases. This is a decided improvement in verification work over that of the previous year.

67. The appointment of women vaccinators to facilitate vaccination among the Goshia communities was recommended to local bodies in G.O. No. 145, P.H., dated 19th January 1934. Some local bodies have already appointed them. Requisitions are being received for the services of qualified women vaccinators, since there is a dearth of trained women vaccinators, District Health Officers of few selected districts have been directed to train a few women as vaccinators to meet these demands.

## OTHER PUBLIC HEALTH SERVICES.

### INDUSTRIAL HYGIENE.

68. Many a mill has been constructed in unsuitable and congested localities and sometimes without obtaining the previous permission from the local body concerned. Several of these come to the notice of the officers of the public health department when they tour in the areas where they are situated, sometimes years after the factory is established. Instances are not wanting where permission to start factories was given by local bodies without consulting the Health Officer as required in section 194 of the Local Boards Act and 250 of the District Municipalities Act. This haphazard method of dealing with factories results in unnecessary complications, as a factory once installed in an insanitary site cannot easily be removed to a better site without involving much financial loss. The local bodies are being constantly urged to set apart industrial areas for the location of factories in accordance with G.O. No. 1119, P.H., dated 7th June 1927.

The district health officers inspected 254 factories and the municipal health officers 220 under the Factories Act during the year under review.

The Indian Factories Act, 1911 has been amended in 1934 and the existing rules framed by the Local Government under the Act are being modified accordingly. The question of appointment of an Assistant Director of Public Health and a research assistant for investigation of questions of industrial hygiene has been dropped for the present.

### MINES.

69. As per the review on mines by the Director of Industries for 1934 mining was carried on in the districts of Cuddapah, Nellore, The Nilgiris, Salem, Trichinopoly, Vizagapatam and Anantapur.

The largest number of mines are in the Nellore district and the District Health Officer after inspection has suggested many sanitary improvements to be effected in them. The supply of good drinking water at many of these mines is reported to be inadequate and the huts occupied by resident workers are said to be insanitary.

The Health Officers inspected 22 mines during the year 1934.



## FOOD ADULTERATION ACT.

70. The Prevention of Food Adulteration Act is now operating in all municipalities which have a Health Officer and also in the municipalities of Palni, Karaikudi, Erode, Palamcottah, Tirupati and Tiruvannamalai and in the panchayat of Mettupalaiyam. During the year, 6,200 samples were submitted for analysis. Of these, 979 were taken in Madras city and examined by their own Public Analyst. The remaining samples were analysed by the Government Analyst. Approximately, 44 per cent of the samples were found to be adulterated. Prosecutions were normally instituted in connection with adulterated samples; and in general, the magistrates have co-operated with the officers working the Act in their efforts to reduce adulteration of food by imposing substantial fines. In spite of this, gross adulteration of staple articles of food such as ghee, butter, gingelly oil and milk continues.

In G.O. No. 2479, Public Health, dated 25th October 1934, the adulteration of gingelly oil has been prohibited.

### PORT HEALTH ADMINISTRATION.

71. The Director of Public Health continued to be in charge of the Port Health administration in this Presidency.

A brief summary of the activities of the Port Health department as requested by the Public Health Commissioner with the Government of India is furnished in annexure F.

Orders of Government of India on the question of offering further facilities to seamen in regard to treatment of venereal diseases en-voyage have not yet been received.

Rules for the prevention of spread of smallpox from ports in the Madras Presidency to foreign countries were issued in G.O. Ms. No. 417, Finance (Marine), dated 10th August 1934. In working these rules, certain difficulties in the matter of verification and countersignature of vaccination certificates were brought to the notice of the Director of Public Health and the matter is under correspondence with the local Government.

Draft rules were submitted in July 1934 regarding the importation into the ports of the Presidency of Madras by sea of human corpses and cremated remains. These rules were approved in Government of India letter No. F. 13. 31/34-G., dated 12th December 1934, and were issued in G.O. No. 108, Finance (Marine), dated 28th February 1935.

### THE CAUVERY-METTUR PROJECT.

72. During the year under review anti-malarial measures were in force till 10th October 1934, under a second-class Health Officer. Since that date a gang of coolies has been sanctioned by Government to work under a Sanitary Inspector. The camp was, on the whole, healthy and there were no epidemics. The amount spent on anti-malarial operations during 1934-35 was Rs. 2,480 as compared with Rs. 11,000 during 1933-34.

## SANITARY WORKS (CIVIL).

73. The following is a summary of the statement furnished by the Sanitary Engineer:—

(a) *Water-supply*—(i) *Municipalities*.—Two new water-supply installations were completed during the year at Tiruvannamalai and Rajahmundry thereby increasing the number of municipalities with protected water-supply systems from 39 to 41. Water-supply works were in progress in three municipalities, while improvements to the existing water-works were on hand at 11 municipalities. Two new schemes at Peddapuram and Hindupur were ordered to be executed.

(ii) *Rural Areas*.—No new water-supply scheme came into operation. Water-supply scheme for Arkonam was in progress and the scheme for Tiruvallur was approved for execution. Plans and estimates for water-supply to Karur, Sembiam, Tiruppur and Tirumani Lepper Settlement were under preparation, while investigations for a scheme for Udamalpet and Mettupalaiyam were completed.

(b) *Drainage*.—No new drainage scheme came into operation, the only towns possessing scientific system of drainage being Ootacamund, Vellore and Madura. Drainage works were in progress in Salem, Bezwada and Tirupati. Plans and estimates were under preparation for drainage schemes of Cochin, Madanapalle, Kurnool, and Vizianagram, and investigations of schemes for four towns were completed.

## GENERAL REMARKS.

## RESEARCH WORK.

74. *Plague Research*.—Studies on the problems of plague on lines similar to those indicated in the previous year's report were continued at Cumbum under the auspices of the Indian Research Fund Association.

The year was marked by absence of a definite off-season as there was plague in three villages during the usual off-season months of April to July. Evidences of epizootics in rats were, however, obtained in three villages during the routine examination of rats. A method of examining specimens by means of group animal tests was attempted. This method proved very useful as compared to the usual smear examination and helped to detect villages which threatened infection and to organize timely preventive measures such as cyanogas fumigation. 4,887 specimens of house rats (*R. rattus*), bandicoots (*B. Malabarica*), and house mice (*M. urbanus*) which were the species chiefly concerned in local epizootic plague were examined both singly by smears and also by animal group tests. Three positive results by the former and 12 positives by the latter method were obtained.

154 carcasses of rodents were examined, of which 81 were found positive for plague. Resolving plague lesions were noted in a few specimens of *R. rattus*, *Mus urbanus* and *Bandicota Malabarica*, but virulent *B. pestis* could not be isolated from any.

3,005 wild rodents were examined for evidence of plague but all were negative excepting 2 *Golunda ellioti* obtained a mile away from Cumbum town. It may be noted that *X. astia* was the predominating flea infesting all species of field rats. However, a few specimens of *X. cheopis*, *Stivalius ahalae* and *ctenoccephalides* fleas were also obtained from these field rodents.

1,500 rat fleas (including 962 from wild rodents) were examined but showed no evidence of plague. One *ctenoccephalides* flea obtained from an infected house proved positive on examination. A series of experiments were therefore made to detect if they really played a role in the transmission of plague. It was found that they could not transmit infection, though they were able to retain viable *B. pestis* for as long as 8 days after infection.

The carry over experiments in model houses were repeated a fourth time with the technique modified only in offering the infected fleas occasional short feeds on normal Madura rats introduced in cages and removed long before they could develop symptoms of septicaemia. This test proved plague transmission by fleas at intervals of 16, 18, 29 and 30 days respectively, after the original infection.

Rat flea surveys were continued. As reported before, *X. cheopis* predominated during all months, the index varying from 3.3 in September to 1.2 in April. An interesting observation made was the finding of *X. brasiliensis* (not so far detected in the Cumbum Valley) at one of the frontier camps (Bodimettu) at an elevation of about 5,000 feet.

75. *Observations on the Factors relating to the spread of Plague*.—Only villages in the southern half of the valley were involved this year while in the previous year those of the northern half were chiefly affected. The epizootics usually smoulder in the bigger villages and during the proper season assume epidemic proportions and serve as foci for dissemination of infection to contiguous villages, though an occasional metastasis is not uncommon. In several villages infection first commenced in bandicoots, the house rats and mice getting infected later. Repeated attempts were made to detect loose fleas in grain consignments at the Kumili frontier, but were all negative perhaps due to the fact that most of these consignments were ex-rat proof godowns at Cumbum. However the possibility of such transference of fleas was indirectly proved on three occasions by artificially infesting grain loaded carts with fleas and recovering over 50 per cent of them after a night's journey. The fact of this possibility of importation of fleas through grains is further amply proved by the fact that there was heavy *cheopis* infestation of rats examined by Mr. M. O. T. Iyengar from the Northern half of the Peermade taluk adjoining the Cumbum Valley while they were conspicuously absent from the southern half of the same taluk.

The study of climatology of rat burrows was continued. The atmosphere in the burrows was found to be affected to only a small extent in spite of large diurnal variations outside. The saturation deficiency of the sheltered atmosphere in the rat burrows as measured by the apparatus designed by Messrs. Casella (Buxton, 1933) was found to be uniformly low compared to that of the exposed outside air. Thus the conditions in

rat burrows are uniformly favourable for *cheopsis* multiplication and the longevity of infected fleas.

76. Observations on the utility of cyanogas fumigation of rat burrows in plague prevention were continued. This item of work was jointly financed by the Travancore Government, Indian Research Fund Association, the District Board, Madura, and the Madras Government. All villages from which reports of rat falls were received were promptly fumigated and the infection was either aborted or the epidemic considerably delayed. Better results were obtained in small villages because more thorough work was possible in a limited time. In several big villages the course of the epidemic did not show any marked change particularly when they were tackled late. In 5 villages plague appeared subsequent to fumigation. It may therefore be said that fumigation cannot entirely prevent an outbreak of plague in any village, but it is certain that it will have a considerable modifying effect upon the intensity of infection inasmuch as it deals with large numbers of the rats and fleas confined in the burrows excepting the few that are at large. Twenty-five different localities comprising of 15,535 houses were fumigated during the year: 188,807 rat holes in all were fumigated. Four thousand nine hundred and twenty-six house rats, 3,504 house mice, 542 bandicoots, 78 musk rats and 20 snakes were picked up dead during fumigation. Many more must have died in the burrows.

77. Attempts were made to evolve a suitable method for the disinfection of grain consignments under field conditions. Tarpaulin sheets were used to cover the consignments of grains which were then fumigated by cyanogas or caloid. The chief difficulty experienced was that of rendering the tarpaulin air-tight. On my suggestion this difficulty was greatly obviated by smearing the tarpaulins with crude oil. (1) It was found that the period of exposure was more important than the concentration of the gas or dosage. While two hours would be the minimum under favourable conditions, three hours would ensure sufficient penetration of the gas into the interior of the grains, (2) the dryness of the floor on which fumigation was carried out is essential. Higher concentrations of HCN will be necessary when the floor is wet and even then the results will be unreliable. (3) Tarpaulins allowed perceptible leakage, hence the need for increased dosage.

The method now under trial is to cover up the whole grain laden bullock carts with tarpaulin sheets and then fumigate. This is intended to obviate the unnecessary labour involved in unloading and re-loading the grain. With this in view, an experimental shed has recently been put up at Kumili for the purpose of fumigating loaded carts and experiments will be conducted shortly.

The 12 rat proof godowns completed previously have been found to be functioning efficiently, and therefore the necessity for storing grains in rat proof godowns has been strongly stressed amongst the merchants.

78. *Research on Bacteriophage*.—To determine the value of bacteriophage both as a prophylactic and as a curative agent against cholera, experiments were conducted in North Arcot district during 1938. But as the figures dealt with were small, it was felt that it was unsafe to accept the

conclusions as final. The repetition of the experiment with slight modifications during 1934 in South Arcot district where suitable conditions were prevalent was made possible by the grant of Rs. 2,000 placed at my disposal by the Indian Research Fund Association for 1934-35. Villages having wells as exclusive source of drinking water-supply were taken up for experimental purposes, so that it was easy to ensure that everyone in the village had a dose of 'phage every time water was drunk. Secondly the dose of 'phage added to water was increased to 9 times the dose added on the previous occasion. Thirdly, with a view to exclude the immunal effects of anti-cholera inoculation, the number of persons inoculated in 'phaged villages was kept at a minimum by inoculating only those who volunteered to have it.

As the experiment was not completed by the end of the year, an interim report was sent based on the available figures. The value of 'phage was worked out both by excluding and including the villages which yielded no figures after the experiment began and the results are set forth below.

The best comparison to assess the prophylactic value of 'phage would be to compare the attack rate among the " 'phaged only " in the group of villages where 'phage was used, with that among "the not inoculated " in the group of control villages.

*Case I.*—Excluding the villages where there were no cases after the experiment commenced.

|                  |     | Population<br>at risk. | Attacks. | Attack rate per<br>mille of<br>population. |
|------------------|-----|------------------------|----------|--------------------------------------------|
| 'Phaged villages | ... | 2,282                  | 8        | 3.5                                        |
| Control villages | ... | 8,904                  | 67       | 7.5                                        |

It is seen that the attack rate is smaller in the villages where 'phage was used than in the control villages and this difference was found to be significant on mathematical analysis.

*Case II.*—Including the villages where there were no cases after the experiment began.

|                  |     | Population<br>at risk. | Attacks. | Attack rate per<br>mille of<br>population. |
|------------------|-----|------------------------|----------|--------------------------------------------|
| 'Phaged villages | ... | 4,154                  | 8        | 1.9                                        |
| Control villages | ... | 9,052                  | 67       | 7.4                                        |

The smaller attack-rate in the 'phaged villages were found to be significant.

To assess the therapeutic value of 'phage, the case mortality rates in both the 'phaged and control villages were examined. The statement below shows the result:—

|                     |     | Attacks. | Deaths. | Case mortality<br>per cent. |
|---------------------|-----|----------|---------|-----------------------------|
| In 'Phaged villages | ... | 8        | 2       | 25.0                        |
| In Control villages | ... | 67       | 20      | 29.9                        |

The difference in mortality rates was found mathematically to be due to chance.

It was also found that there was no significant difference between bacteriophage and pro-diarrhoea mixture as curative agents against cholera.

79. As the experiment was not completed, the findings below are only provisional pending further examination on the data that may be collected till its completion. The results may be briefly summarised as follows:—

(1) Prophylactic administration of 'phage has been shown to be effective in reducing the incidence rate.

(2) 'Phage administered prophylactically does not show any reduction in the mortality rate.

(3) That bacteriophage is more useful than pro-diarrhoea mixture as curative agent has not been established.

After completion of the experiment and on the conclusions arrived at, it will be decided whether further experimental work should be taken up in the same or other directions.

#### RURAL DEVELOPMENT SCHEME.

80. The Rural Development scheme, Tiruvallur, sanctioned in G.O. No. 1467 (50-S) P.H., dated 30th June 1933, was discontinued in October 1934 in accordance with G.O. No. 2230, P.H., dated 24th September 1934.

#### FAMINE.

81. During the last month of the year famine test camps were opened by the Government in the famine areas in Anantapur and Bellary districts.

#### PERSONAL PROCEEDINGS AND OFFICE.

82. The strength of the Public Health Department on 31st December 1934 was:—

|                                           |      |                                                                                                                                                                  |
|-------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Director of Public Health ...          | 1.   |                                                                                                                                                                  |
| 2. Assistant Directors of Public Health.  | 4.   | This includes the post of the Professor of Hygiene.                                                                                                              |
| 3. Assistant Directress of Public Health. | 1.   |                                                                                                                                                                  |
| 4. First-class Health Officers.           | 58.  | This includes the posts of the Health Officer and two Assistant Health Officers of the Madras Corporation. (Not included in the Provincial Public Health cadre). |
| 5. Second-class do.                       | 51.  | This includes two posts of Reserve Health officers sanctioned during the year.                                                                                   |
| 6. Health Inspectors ...                  | 286. | This includes the temporary post sanctioned for Anti-malarial work in Madakasira in Anantapur district.                                                          |
| 7. Government Vaccinators ...             | 42.  |                                                                                                                                                                  |
| 8. First-class do. ...                    | 224. | Employed by local bodies.                                                                                                                                        |
| 9. Second-class do. ...                   | 633. | Do.                                                                                                                                                              |
| 10. Probationary do. ...                  | 22.  | Do.                                                                                                                                                              |
| 11. Entomological Assistant ...           | 1.   |                                                                                                                                                                  |
| 12. Compounders ...                       | 2.   |                                                                                                                                                                  |

Four Health Inspectors were punished, three retired, one resigned and one died.

The Malaria Officer was deputed to undergo a course of training at Singapore under the auspices of the League of Nations Malaria Commissioners to enable him to get into touch with the latest methods of malaria control. One Second-class Health Officer was deputed for Malaria training at Karnal for appointment in the Vizagapatam Agency. The quinquennial training of Health and Sanitary Inspectors was suspended for a further period of 2 years from 1934-35.

A first class Health Officer from the existing cadre was continued to be appointed as Malaria Officer. Consequent on the decision of the Government to discontinue the experimental scheme of Rural Development in Tiruvallur, the Health Officers and Health Inspectors who had been detailed for duty at Tiruvallur were withdrawn. At Mettur, the post of a first-class Health Officer was replaced by a second class Health Officer from 1st April 1934 and the whole Public Health staff was disbanded from 10th October 1934, leaving the District Health staff including the Local Fund Health staff to attend to the work thereafter.

Two posts of Reserve second-class Health Officers, one temporary post of Entomological Assistant to the Malaria Officer and one temporary post of Health Inspector for anti-malarial work in Madakasira, Anantapur district (from August 1934 to 1st April 1935) were sanctioned. The continuance of the temporary posts of six Assistant District Health Officers and peons, two temporary units in the Anti-hookworm campaign and two temporary posts of Health Inspectors for anti-malarial work in the Vizagapatam Agency was sanctioned for a further period of one year from 1st April 1934.

Following the issue of the amendment to the District Municipalities Act and Local Boards Act, which empowered Government to provincialise local board employees, first class Health Officers were included in the Madras Public Health Service and statutory rules were framed for them. Such of the Health Officers whose confirmation was pending provincialization were confirmed.

83. There were changes in the holders of the office of the head of the Department. Lt.-Col. J. R. D. Webb, O.B.E., I.M.S., held the post of the Director of Public Health till 14th March 1934, a.n. when he proceeded on leave preparatory to retirement. Major A. M. V. Hesterlow, I.M.S., acted in the vacancy till 15th October 1934, when Major, now, Lt.-Col. C. M. Ganapathy, M.C., I.M.S. appointed as Director of Public Health for 5 years took over charge.

C. M. GANAPATHY, LT.-COL., M.C., I.M.S.,  
Director of Public Health, Madras.

# ANNEXURE A.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coacanada, Coimbatore, Cojjeveeram, Cuddalore, Kumbakonam, Madura, Mangalore, Negapatam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1934.

| Age at the time of death.    | (1)                                                                                                                                   | (2)<br>Population according to the census of 1931. | Infectious diseases. |         |           |          |             |                           |             |         | Fever.   |            |                  |            |                  |               | Respiratory diseases. |     |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------|---------|-----------|----------|-------------|---------------------------|-------------|---------|----------|------------|------------------|------------|------------------|---------------|-----------------------|-----|
|                              |                                                                                                                                       |                                                    | Cholera.             | Plague. | Smallpox. | Measles. | Chickenpox. | Typhoid or enteric fever. | Diphtheria. | Others. | Malaria. | Influenza. | Relapsing fever. | Kala Azar. | Rheumatic fever. | Other fevers. |                       |     |
|                              |                                                                                                                                       |                                                    |                      |         |           |          |             |                           |             |         |          |            |                  |            |                  |               |                       | (3) |
| 1                            | Under one year.<br>Not exceeding one month.<br>Over one month and not exceeding 6 months<br>Over 6 months and not exceeding 12 months | ...                                                | ...                  | ...     | ...       | ...      | ...         | ...                       | ...         | 1       | ...      | ...        | ...              | ...        | ...              | ...           | 9                     | ... |
| 2                            |                                                                                                                                       | ...                                                | ...                  | 7       | 4         | 1        | ...         | ...                       | 2           | ...     | 1        | ...        | ...              | ...        | ...              | 18            | ...                   |     |
| 3                            |                                                                                                                                       | ...                                                | ...                  | 101     | 30        | 2        | 1           | ...                       | 4           | 5       | 3        | ...        | ...              | ...        | ...              | 154           | 1                     |     |
| 4                            |                                                                                                                                       | ...                                                | ...                  | 143     | 33        | 6        | 2           | 3                         | 17          | 2       | 4        | ...        | ...              | ...        | ...              | 175           | ...                   |     |
| Total under one year         |                                                                                                                                       | 27,045                                             | ...                  | ...     | 251       | 67       | 9           | 3                         | 2           | 24      | 7        | 8          | ...              | ...        | ...              | 356           | 1                     |     |
| One and under 5 years        | ...                                                                                                                                   | 122,037                                            | 19                   | 2       | 331       | 102      | 10          | 44                        | 6           | 45      | 25       | 21         | 1                | ...        | ...              | 443           | 9                     |     |
| 5 years and under 10 years   | ...                                                                                                                                   | 134,323                                            | 30                   | 1       | 110       | 22       | 2           | 42                        | 1           | 4       | 19       | 12         | ...              | ...        | ...              | 172           | 10                    |     |
| 10 years and under 15 years  | ...                                                                                                                                   | 127,112                                            | 12                   | 11      | 52        | 6        | ...         | 35                        | ...         | 2       | 22       | 5          | ...              | ...        | ...              | 86            | 27                    |     |
| 15 years and under 20 years  | ...                                                                                                                                   | 115,008                                            | 13                   | 12      | 91        | 2        | ...         | 56                        | ...         | 2       | 23       | 4          | ...              | ...        | ...              | 83            | 178                   |     |
| 20 years and under 25 years  | ...                                                                                                                                   | 232,205                                            | 34                   | 11      | 143       | 6        | 3           | 82                        | ...         | 4       | 72       | 13         | ...              | ...        | ...              | 197           | 601                   |     |
| 25 years and under 30 years  | ...                                                                                                                                   | 169,884                                            | 25                   | 8       | 77        | 1        | ...         | 38                        | ...         | 1       | 70       | 17         | ...              | ...        | ...              | 161           | 537                   |     |
| 30 years and under 35 years  | ...                                                                                                                                   | 114,986                                            | 26                   | 4       | 47        | ...      | ...         | 84                        | ...         | 5       | 53       | 6          | ...              | ...        | ...              | 13            | 480                   |     |
| 35 years and under 40 years  | ...                                                                                                                                   | 68,755                                             | 22                   | 2       | 22        | 2        | ...         | 28                        | ...         | ...     | 44       | 7          | ...              | ...        | ...              | 9             | 283                   |     |
| 40 years and under 45 years  | ...                                                                                                                                   | 49,326                                             | 12                   | ...     | 24        | ...      | ...         | 9                         | ...         | ...     | 23       | 5          | ...              | ...        | ...              | 10            | 141                   |     |
| 45 years and under 50 years  | ...                                                                                                                                   | ...                                                | ...                  | ...     | ...       | ...      | ...         | ...                       | ...         | ...     | ...      | ...        | ...              | ...        | ...              | ...           | ...                   |     |
| 50 years and under 55 years  | ...                                                                                                                                   | ...                                                | ...                  | ...     | ...       | ...      | ...         | ...                       | ...         | ...     | ...      | ...        | ...              | ...        | ...              | ...           | ...                   |     |
| 55 years and under 60 years  | ...                                                                                                                                   | ...                                                | ...                  | ...     | ...       | ...      | ...         | ...                       | ...         | ...     | ...      | ...        | ...              | ...        | ...              | ...           | ...                   |     |
| 60 years and upwards         | ...                                                                                                                                   | ...                                                | ...                  | ...     | ...       | ...      | ...         | ...                       | ...         | ...     | ...      | ...        | ...              | ...        | ...              | ...           | ...                   |     |
| Total of all ages            |                                                                                                                                       | 1,152,231                                          | 193                  | 51      | 1,148     | 208      | 24          | 871                       | 9           | 88      | 363      | 103        | 1                | 1          | 52               | 2,014         | 2,247                 |     |
| Rate per 1,000 of population |                                                                                                                                       | ...                                                | 17                   | 04      | 99        | 18       | 02          | 32                        | 008         | 08      | 31       | 09         | 0008             | 0008       | 04               | 175           | 195                   |     |

# ANNEXURE A—cont.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coacanada, Coimbatore, Cojjeveeram, Cuddalore, Kumbakonam, Madura, Mangalore, Negapatam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1934—cont.

| Age at the time of death. | Respiratory diseases—cont. |         | Alimentary system. |            |         | Disease of the liver. |         | Circulatory system. |                    |         | Genito-urinary diseases excluding venereal diseases. |         | Venereal diseases. |         |  |
|---------------------------|----------------------------|---------|--------------------|------------|---------|-----------------------|---------|---------------------|--------------------|---------|------------------------------------------------------|---------|--------------------|---------|--|
|                           | Pneumonia.                 | Others. | Dysentery.         | Diarrhoea. | Others. | Cirrhosis.            | Others. | Heart disease.      | Arterio-sclerosis. | Others. | Bright's disease.                                    | Others. | Gonorrhoea.        | Others. |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
| 1                         | 1                          | 42      | ..                 | 7          | 3       | 2                     | 1       | ..                  | ..                 | ..      | ..                                                   | ..      | 10                 | 27      |  |
| 2                         | 1                          | 22      | 8                  | 26         | 11      | 10                    | 2       | ..                  | ..                 | 1       | ..                                                   | ..      | 25                 | 9       |  |
| 3                         | 142                        | 174     | 63                 | 275        | 40      | 10                    | 10      | 1                   | ..                 | 4       | 2                                                    | 1       | 19                 | 4       |  |
| 4                         | 195                        | 222     | 191                | 341        | 14      | 28                    | 10      | 1                   | ..                 | 3       | 1                                                    | ..      | 5                  | 1       |  |
|                           | 339                        | 460     | 257                | 649        | 68      | 50                    | 23      | 2                   | ..                 | 8       | 3                                                    | 1       | 59                 | 41      |  |
|                           | 694                        | 660     | 921                | 638        | 76      | 170                   | 121     | 6                   | ..                 | 18      | 24                                                   | 14      | 2                  | ..      |  |
|                           | 269                        | 62      | 186                | 49         | 18      | 13                    | 24      | 9                   | ..                 | 13      | 23                                                   | 11      | ..                 | ..      |  |
|                           | 141                        | 16      | 50                 | 21         | 10      | 6                     | 7       | 21                  | ..                 | 14      | 19                                                   | 6       | 1                  | ..      |  |
|                           | 168                        | 6       | 61                 | 48         | 14      | 5                     | 9       | 37                  | ..                 | 18      | 25                                                   | 7       | 2                  | ..      |  |
|                           | 334                        | 41      | 199                | 203        | 68      | 25                    | 12      | 108                 | 1                  | 61      | 77                                                   | 20      | 15                 | 3       |  |
|                           | 296                        | 57      | 230                | 187        | 75      | 34                    | 21      | 122                 | ..                 | 65      | 102                                                  | 21      | 6                  | 1       |  |
|                           | 243                        | 113     | 213                | 132        | 85      | 44                    | 26      | 143                 | ..                 | 76      | 105                                                  | 30      | 6                  | 1       |  |
|                           | 189                        | 131     | 224                | 149        | 93      | 35                    | 23      | 159                 | ..                 | 81      | 164                                                  | 15      | 5                  | ..      |  |
|                           | 87                         | 150     | 209                | 173        | 92      | 11                    | 10      | 124                 | ..                 | 47      | 131                                                  | 14      | 1                  | 7       |  |
|                           | 2,810                      | 1,696   | 2,550              | 2,249      | 599     | 382                   | 276     | 731                 | 1                  | 401     | 678                                                  | 189     | 97                 | 56      |  |
|                           | 244                        | 147     | 231                | 196        | 52      | 33                    | 24      | 63                  | 0008               | 84      | 58                                                   | 12      | 08                 | 05      |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         |                                                      |         |                    |         |  |
|                           |                            |         |                    |            |         |                       |         |                     |                    |         | </                                                   |         |                    |         |  |

# ANNEXURE A—cont.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coacanada, Coimbatore, Conjeevaram, Cuddalore, Kumbakonam, Madurai, Mangalore, Negapatam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1934—cont.

| Age at the time of death.                     | Diseases of the nervous system. |      |                                 |          |           | Accidents of pregnancy and child-birth. |                   |           | Deficiency diseases.                                       |            |          | Malignant diseases. |                   |                 |         |                |                 |
|-----------------------------------------------|---------------------------------|------|---------------------------------|----------|-----------|-----------------------------------------|-------------------|-----------|------------------------------------------------------------|------------|----------|---------------------|-------------------|-----------------|---------|----------------|-----------------|
|                                               | Convulsions.                    |      | Cerebral hæmorrhage (apoplexy). | Tetanus. | Epilepsy. | Others.                                 | Puerperal sepsis. | Abortion. | Other accidents and diseases of pregnancy and parturition. | Beri-Beri. | Rickets. | Others.             | Alimentary tract. | Genito-urinary. | Breast. | Other regions. | Ankylosomiasis. |
|                                               | (33)                            | (34) | (35)                            | (36)     | (37)      | (38)                                    | (39)              | (40)      | (41)                                                       | (42)       | (43)     | (44)                | (45)              | (46)            | (47)    | (48)           | (49)            |
| 1 { Under one week ...                        | 405                             | 7    | ...                             | ...      | 4         | ...                                     | ...               | ...       | ...                                                        | ...        | ...      | ...                 | ...               | ...             | ...     | ...            | ...             |
| 2 { Not exceeding one month.                  | 572                             | 9    | 1                               | 2        | 3         | ...                                     | ...               | ...       | ...                                                        | ...        | 1        | ...                 | ...               | ...             | 1       | ...            | ...             |
| 3 { Over one month and not exceeding 6 months | 1,301                           | ...  | ...                             | ...      | 6         | ...                                     | ...               | ...       | ...                                                        | ...        | 10       | 13                  | ...               | ...             | ...     | ...            | ...             |
| 4 { Over 6 months and not exceeding 12 months | 683                             | ...  | 2                               | 1        | 1         | ...                                     | ...               | ...       | ...                                                        | ...        | 22       | 6                   | ...               | ...             | ...     | ...            | ...             |
| Total under one year                          | 2,911                           | 16   | 3                               | 3        | 14        | ...                                     | ...               | ...       | ...                                                        | ...        | 33       | 19                  | ...               | ...             | ...     | 2              | ...             |
| One and under 5 years                         | 880                             | 1    | 4                               | 11       | 10        | ...                                     | ...               | ...       | ...                                                        | ...        | 171      | 9                   | ...               | ...             | ...     | 5              | 23              |
| 5 years and under 10 years                    | 36                              | 1    | 16                              | 15       | 7         | ...                                     | ...               | ...       | ...                                                        | ...        | 30       | 1                   | ...               | ...             | ...     | 2              | 22              |
| 10 years and under 15 years                   | 5                               | 2    | 9                               | 12       | 9         | ...                                     | ...               | ...       | ...                                                        | ...        | 5        | 1                   | ...               | ...             | ...     | 1              | 15              |
| 15 years and under 20 years                   | 1                               | 4    | 6                               | 6        | 13        | ...                                     | ...               | ...       | ...                                                        | ...        | 2        | 1                   | ...               | ...             | ...     | ...            | 8               |
| 20 years and under 30 years                   | ...                             | 9    | 17                              | 15       | 18        | ...                                     | ...               | ...       | ...                                                        | ...        | 1        | 5                   | ...               | ...             | ...     | 4              | 7               |
| 30 years and under 40 years                   | ...                             | 13   | 17                              | 13       | 51        | ...                                     | ...               | ...       | ...                                                        | ...        | ...      | 1                   | ...               | ...             | ...     | 2              | 14              |
| 40 years and under 50 years                   | ...                             | 19   | 5                               | 8        | 64        | ...                                     | ...               | ...       | ...                                                        | ...        | ...      | 1                   | ...               | ...             | ...     | 2              | 5               |
| 50 years and under 60 years                   | ...                             | 34   | 4                               | 6        | 127       | ...                                     | ...               | ...       | ...                                                        | ...        | ...      | 1                   | ...               | ...             | ...     | 4              | 6               |
| 60 years and upwards                          | ...                             | 67   | 1                               | 2        | 201       | ...                                     | ...               | ...       | ...                                                        | ...        | 2        | 14                  | ...               | ...             | ...     | 2              | 5               |
| Total of all ages                             | 2,834                           | 163  | 82                              | 89       | 514       | 411                                     | 55                | 330       | 69                                                         | 245        | 62       | 20                  | 6                 | 13              | 77      | 101            | 212             |
| Rate per 1,000 of population                  | 3.38                            | .14  | .07                             | .08      | .44       | .35                                     | .05               | .28       | .06                                                        | .21        | .05      | .02                 | .006              | .01             | .07     | .09            | .18             |

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ANNEXURE B—cont.

Detailed Return of Births and Deaths in the 15 Municipalities of Bellary, Calicut, Coacanada, Coimbatore, Conjeevaram, Cuddalore, Kumbakonam, Madurai, Mangalore, Negapatam, Salem, Tanjore, Tinnevely, Trichinopoly and Vellore during the year 1934—cont.

| Age at the time of death.                                                                                                                                                                                                                                             | Leprosy.                                                                               | (51) | (52)  | (53) | Rabies. | Wounds and accidents. | Snake-bite. | Killed by wild beasts. | Suicides. | Poisons. | Old age. | (60)  | (61)   | (62)    | Remarks.                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------|-------|------|---------|-----------------------|-------------|------------------------|-----------|----------|----------|-------|--------|---------|-------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
| Under one year.                                                                                                                                                                                                                                                       | Not exceeding one month.                                                               | 1    | 2,085 | ...  | ...     | 1                     | 1           | ...                    | ...       | 1        | ...      | 120   | 2,706  | ...     | Males ... 23,367 22,234 45,601<br>Females ...<br>Total.                       |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
| Under one year.                                                                                                                                                                                                                                                       | Over one month and not exceeding 6 months<br>Over 6 months and not exceeding 12 months | 2    | 628   | ...  | ...     | 2                     | 1           | ...                    | ...       | ...      | ...      | 93    | 1,456  | ...     | Males ... 18,894 18,177 37,071<br>Deaths ...<br>Still-births. 1,047 798 1,844 |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
| Under one year.                                                                                                                                                                                                                                                       | Total under one year                                                                   | ...  | 2,969 | ...  | ...     | 8                     | 1           | ...                    | ...       | 1        | ...      | 540   | 9,208  | 201.93† | Males ... 18,894 18,177 37,071<br>Deaths ...<br>Still-births. 1,047 798 1,844 |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
| One and under 5 years<br>5 years and under 10 years<br>10 years and under 15 years<br>15 years and under 20 years<br>20 years and under 30 years<br>30 years and under 40 years<br>40 years and under 50 years<br>50 years and under 60 years<br>60 years and upwards | Total of all ages                                                                      | 140  | 2,964 | 39   | 439     | 16                    | ...         | ...                    | 113       | 13       | 4,907    | 2,475 | 37,071 | 32.17   | Males ... 18,894 18,177 37,071<br>Deaths ...<br>Still-births. 1,047 798 1,844 |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |
| Rate per 1,000 of population                                                                                                                                                                                                                                          | ...                                                                                    | .12  | .002  | .08  | .01     | .98                   | .01         | ...                    | .10       | .01      | 4.34     | 2.15  | 32.17  | ...     | Males ... 18,894 18,177 37,071<br>Deaths ...<br>Still-births. 1,047 798 1,844 |
|                                                                                                                                                                                                                                                                       |                                                                                        |      |       |      |         |                       |             |                        |           |          |          |       |        |         |                                                                               |

† Total births and deaths exclude "still-births."

† Rate per 1,000 live births.

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## ANNEXURE B.

Statement showing the Total Number of Deaths and Death-rate from Cholera during 1934 in the Municipalities protected with Water-supply.

| No  | Names of municipalities. | Total deaths from cholera during 1934. | Rate per mille of population. | No  | Names of municipalities. | Total deaths from cholera during 1934. | Rate per mille of population. |
|-----|--------------------------|----------------------------------------|-------------------------------|-----|--------------------------|----------------------------------------|-------------------------------|
| 1.  | Adoni ...                | 2                                      | 06                            | 21. | Kurnool ...              | ...                                    | ...                           |
| 2.  | Anantapur ...            | ...                                    | ...                           | 22. | Madras ...               | 166                                    | 26                            |
| 3.  | Bellary ...              | ...                                    | ...                           | 23. | Madura ...               | ...                                    | ...                           |
| 4.  | Berhampur ...            | 57                                     | 1.51                          | 24. | Masulipatam ...          | 11                                     | 18                            |
| 5.  | Bezwada ...              | 11                                     | 18                            | 25. | Negapatam ...            | 2                                      | 04                            |
| 6.  | Chidambaram ...          | 12                                     | 48                            | 26. | Nellore ...              | 12                                     | 26                            |
| 7.  | Chingleput ...           | 3                                      | 21                            | 27. | Ootacamund ...           | ...                                    | ...                           |
| 8.  | Cocanada ...             | 1                                      | 02                            | 28. | Palni ...                | ...                                    | ...                           |
| 9.  | Coimbatore ...           | 2                                      | 02                            | 29. | Periyakulam ...          | ...                                    | ...                           |
| 10. | Conjeeveram ...          | 18                                     | 28                            | 30. | Proddatur ...            | ...                                    | ...                           |
| 11. | Coonoor ...              | ...                                    | ...                           | 31. | Salem ...                | ...                                    | ...                           |
| 12. | Cuddalore ...            | 88                                     | 1.49                          | 32. | Tadpatri ...             | ...                                    | ...                           |
| 13. | Cuddapah ...             | ...                                    | ...                           | 33. | Tanjore ...              | 9                                      | 13                            |
| 14. | Dindigul ...             | 1                                      | 02                            | 34. | Tirupati ...             | 2                                      | 01                            |
| 15. | Ellore ...               | 6                                      | 10                            | 35. | Trichinopoly ...         | 67                                     | 47                            |
| 16. | Erode ...                | 8                                      | 09                            | 36. | Tuticorin ...            | ...                                    | ...                           |
| 17. | Gudiyattam ...           | 1                                      | 04                            | 37. | Vellore ...              | 6                                      | 10                            |
| 18. | Guntur ...               | 3                                      | 05                            | 38. | Vizagapatam ...          | 6                                      | 10                            |
| 19. | Kodaikanal ...           | ...                                    | ...                           | 39. | Vizianagram ...          | 149                                    | 3.83                          |
| 20. | Kumbakonam ...           | ...                                    | ...                           |     |                          |                                        |                               |

## ANNEXURE C.

Financial Statement showing the Working of the Health Propaganda Section of the Office of the Director of Public Health, during the year 1934.

| Serial number. | Details.                                                                                                       | Amount.               |    |    |
|----------------|----------------------------------------------------------------------------------------------------------------|-----------------------|----|----|
|                |                                                                                                                | RS.                   | A. | P. |
| 1.             | Establishment charges (including pay of officers, establishment, allowances, honorarium, etc.)                 | 1,656                 | 0  | 0  |
| 2.             | Cost of printing                                                                                               | 3,684                 | 8  | 0  |
| 3.             | Miscellaneous charges including repairs, renewals of equipment, slides, purchase of materials for artist, etc. | 1,881                 | 15 | 0  |
| 4.             | Total cost                                                                                                     | 7,222                 | 7  | 0  |
| 5.             | Sale-proceeds of literature                                                                                    | 3,059                 | 7  | 0  |
| 6.             | Value of literature unsold                                                                                     | 22,001                | 0  | 0  |
| 7.             | Receipts from loan of magic lanterns, slides, films, etc.                                                      | 1,693                 | 12 | 0  |
| 8.             | Total of items 5 to 7                                                                                          | 26,754                | 3  | 0  |
| 9.             | Net gain                                                                                                       | 19,531                | 12 | 0  |
| 10.            | Net extra expenditure deducting Rs. 8,000 being the grant originally made to the Madras Health Council.        | No extra expenditure. |    |    |
| 11.            | Net extra expenditure according to the sanctioned scheme                                                       | Nil.                  |    |    |
| 12.            | Capital expenditure (purchase of films, etc.) specially sanctioned from time to time                           | 450                   | 0  | 0  |

## ANNEX

## Maternity Relief and Child-welfare—

| Number.                                             | Name of district. | Area in square miles. | Total revenue of District Board. | Amount spent on Maternity and Child-welfare work. | Percentage of total revenue spent on Maternity and Child-welfare work. | Maternity and Child-welfare centres. |                                      | Medical women.                                  |                           |                   | Number of Health visitors. | Midwives.     |          |
|-----------------------------------------------------|-------------------|-----------------------|----------------------------------|---------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------------------|---------------------------|-------------------|----------------------------|---------------|----------|
|                                                     |                   |                       |                                  |                                                   |                                                                        | Local bodies.                        | Aided and managed by private bodies. | Appointed for Maternity and Child-welfare work. | Available as consultants. | Per 1,000 births. |                            | Local bodies. | Private. |
| (1)                                                 | (2)               | (3)                   | (4)                              | (5)                                               | (6)                                                                    | (7)                                  | (8)                                  | (9)                                             | (10)                      | (11)              | (12)                       | (13)          | (14)     |
|                                                     |                   |                       | RS.                              | RS.                                               |                                                                        |                                      |                                      |                                                 |                           |                   |                            |               |          |
| 1                                                   | Anantapur ...     | 8,741                 | 4,26,817                         | 200                                               | 0.05                                                                   | ...                                  | ...                                  | ...                                             | 4                         | 0.10              | ...                        | ...           | ...      |
| 2                                                   | Bellary ...       | 5,871                 | 2,77,509                         | ...                                               | ...                                                                    | ...                                  | 1                                    | ...                                             | ...                       | ...               | ...                        | ...           | ...      |
| 3                                                   | Chingleput ...    | 3,071                 | 6,81,597                         | 5,916                                             | 0.91                                                                   | 2                                    | 2                                    | ...                                             | 3                         | 0.08              | ...                        | 4             | ...      |
| 4                                                   | Chittoor ...      | 5,915                 | ...                              | 1,500                                             | ...                                                                    | ...                                  | 5                                    | ...                                             | 5                         | 0.10              | ...                        | ...           | 6        |
| 5                                                   | Coimbatore ...    | 7,223                 | 25,60,967                        | 6,882                                             | 0.27                                                                   | 8                                    | ...                                  | 1                                               | ...                       | ...               | ...                        | ...           | ...      |
| 6                                                   | Cuddapah ...      | 5,919                 | 6,38,705                         | 404                                               | 0.06                                                                   | 1                                    | ...                                  | ...                                             | 4                         | 0.13              | ...                        | 1             | ...      |
| 7                                                   | Ganjām ...        | 4,799                 | 9,85,045                         | ...                                               | ...                                                                    | ...                                  | ...                                  | ...                                             | ...                       | ...               | ...                        | ...           | ...      |
| 8                                                   | Godāvari, East.   | 2,538                 | 24,24,975                        | 410                                               | 0.02                                                                   | 2                                    | ...                                  | ...                                             | 3                         | 0.04              | ...                        | ...           | ...      |
| 9                                                   | Godāvari, West.   | 2,361                 | 10,00,000                        | 7,000                                             | 0.7                                                                    | 4                                    | ...                                  | 1                                               | 5                         | 0.11              | 1                          | ...           | ...      |
| 10                                                  | Guntūr ...        | 5,757                 | 26,86,170                        | ...                                               | ...                                                                    | ...                                  | ...                                  | ...                                             | 4                         | 0.06              | ...                        | ...           | ...      |
| 11                                                  | Kistna ...        | 3,547                 | ...                              | 1,743                                             | ...                                                                    | 4                                    | ...                                  | 1                                               | 2                         | 0.04              | ...                        | ...           | ...      |
| 12                                                  | Kurnool ...       | 7,580                 | 13,36,000                        | ...                                               | ...                                                                    | 1                                    | ...                                  | ...                                             | ...                       | ...               | 1                          | 3             | ...      |
| 13                                                  | Madura ...        | 4,899                 | 30,14,708                        | 2,311                                             | 0.06                                                                   | 3                                    | ...                                  | ...                                             | ...                       | ...               | ...                        | 2             | ...      |
| 14                                                  | Malabar ...       | 5,794                 | ...                              | 800                                               | ...                                                                    | ...                                  | 2                                    | ...                                             | 3                         | 0.02              | ...                        | ...           | ...      |
| 15                                                  | Nellore ...       | 7,945                 | ...                              | ...                                               | ...                                                                    | 1                                    | ...                                  | ...                                             | 1                         | 0.02              | ...                        | 1             | ...      |
| 16                                                  | The Nilgiris ...  | 989                   | 4,97,554                         | 425                                               | 0.001                                                                  | ...                                  | 1                                    | ...                                             | 1                         | 0.25              | ...                        | 1             | ...      |
| 17                                                  | North Arcot ...   | 4,945                 | 5,91,345                         | 5,121                                             | 0.86                                                                   | ...                                  | 2                                    | ...                                             | 4                         | 0.05              | ...                        | ...           | 2        |
| 18                                                  | Ramnad ...        | 4,810                 | 9,75,420                         | 8,270                                             | 0.8                                                                    | 6                                    | ...                                  | 1                                               | 9                         | 0.19              | ...                        | 1             | ...      |
| 19                                                  | Salem ...         | 7,053                 | 9,68,680                         | 8,340                                             | 0.85                                                                   | 18                                   | ...                                  | 1                                               | 8                         | 0.05              | ...                        | 15            | ...      |
| 20                                                  | South Arcot ...   | 4,192                 | 10,37,125                        | ...                                               | ...                                                                    | ...                                  | ...                                  | ...                                             | 3                         | 0.04              | ...                        | ...           | ...      |
| 21                                                  | South Kanara.     | 4,021                 | ...                              | 280                                               | ...                                                                    | ...                                  | 1                                    | ...                                             | 3                         | 0.06              | ...                        | ...           | 1        |
| 22                                                  | Tanjore ...       | 3,742                 | 47,29,060                        | 12,557                                            | 0.27                                                                   | 12                                   | ...                                  | 1                                               | 1                         | 0.08              | 2                          | 12            | ...      |
| 23                                                  | Tinnevely ...     | 4,042                 | 10,95,570                        | ...                                               | ...                                                                    | ...                                  | ...                                  | ...                                             | 2                         | 0.03              | ...                        | ...           | ...      |
| 24                                                  | Trichinopoly ...  | 4,314                 | 11,78,480                        | 1,900                                             | 0.16                                                                   | ...                                  | ...                                  | 1                                               | 3                         | 0.07              | ...                        | 3             | ...      |
| 25                                                  | Vizagapatam ...   | 6,000                 | 5,99,234                         | 5,982                                             | 0.1                                                                    | 4                                    | ...                                  | ...                                             | 1                         | 0.01              | 1                          | 4             | ...      |
| Total for Districts exclusive of Municipalities ... |                   | ...                   | ...                              | ...                                               | ...                                                                    | 68                                   | 14                                   | 7                                               | 64                        | 0.04              | 6                          | 45            | 11       |

## URE D.

## Rural Areas—Districts exclusive of Municipalities.

| Local bodies. | Private. | In private practice. | In hospitals and dispensaries (Govt. L.F. and Private). | Rural medical relief dispensaries. | Total. | Number of midwives per 1,000 births. | Percentage of cases receiving skilled aid at child birth. | Number of maternity beds in hospitals. | Number of maternity beds per 1,000 births. | Live-births. | Still-births. | Number of infantile deaths. | Infantile mortality rate per 1,000 births. | Maternal deaths. | Maternal mortality rate per 1,000 births. |
|---------------|----------|----------------------|---------------------------------------------------------|------------------------------------|--------|--------------------------------------|-----------------------------------------------------------|----------------------------------------|--------------------------------------------|--------------|---------------|-----------------------------|--------------------------------------------|------------------|-------------------------------------------|
| (15)          | (16)     | (17)                 | (18)                                                    | (19)                               | (20)   | (21)                                 | (22)                                                      | (23)                                   | (24)                                       | (25)         | (26)          | (27)                        | (28)                                       | (29)             | (30)                                      |
| ...           | ...      | ...                  | 14                                                      | 2                                  | 16     | 0.41                                 | 5.4                                                       | 7                                      | 0.18                                       | 39,097       | 846           | 8,713                       | 222.86                                     | 576              | 14.60                                     |
| ...           | ...      | ...                  | 11                                                      | 2                                  | 13     | 0.42                                 | 6.14                                                      | ...                                    | ...                                        | 31,004       | 179           | 7,593                       | 244.85                                     | 286              | 8.53                                      |
| 12            | ...      | ...                  | 27                                                      | 10                                 | 37     | 0.98                                 | ...                                                       | 19                                     | 0.37                                       | 53,259       | 699           | 10,610                      | 199.21                                     | 324              | 6.00                                      |
| ...           | ...      | ...                  | 28                                                      | ...                                | 34     | 0.70                                 | 6.59                                                      | 35                                     | 0.72                                       | 47,995       | 504           | 8,290                       | 172.78                                     | 331              | 6.82                                      |
| 8             | ...      | ...                  | 20                                                      | 8                                  | 28     | 0.44                                 | ...                                                       | 33                                     | 0.40                                       | 82,222       | 271           | 15,773                      | 191.82                                     | 392              | 4.75                                      |
| ...           | ...      | ...                  | 12                                                      | 5                                  | 17     | 0.59                                 | 5.7                                                       | 10                                     | 0.33                                       | 30,251       | 111           | 5,625                       | 185.89                                     | 319              | 10.50                                     |
| ...           | ...      | ...                  | 23                                                      | 2                                  | 25     | 0.84                                 | 3.8                                                       | 8                                      | 0.10                                       | 77,368       | 221           | 17,701                      | 228.78                                     | 443              | 5.71                                      |
| 2             | ...      | ...                  | 28                                                      | 10                                 | 38     | 0.58                                 | ...                                                       | 10                                     | 0.15                                       | 65,545       | 472           | 12,242                      | 185.43                                     | 560              | 8.48                                      |
| 4             | 7        | ...                  | 17                                                      | 5                                  | 22     | 0.71                                 | 3.3                                                       | 19                                     | 0.41                                       | 45,878       | 486           | 9,863                       | 214.97                                     | 421              | 9.08                                      |
| ...           | ...      | ...                  | 35                                                      | 15                                 | 50     | 0.71                                 | 3.97                                                      | 16                                     | 0.23                                       | 69,642       | 462           | 14,717                      | 211.30                                     | 469              | 6.69                                      |
| 4             | ...      | ...                  | ...                                                     | ...                                | 4      | 0.08                                 | ...                                                       | ...                                    | ...                                        | 46,697       | 585           | 10,333                      | 221.28                                     | 445              | 9.42                                      |
| ...           | ...      | ...                  | 11                                                      | 2                                  | 13     | 0.35                                 | 26.6                                                      | ...                                    | ...                                        | 37,199       | 276           | 8,756                       | 235.38                                     | 306              | 8.16                                      |
| ...           | ...      | ...                  | 17                                                      | 6                                  | 23     | 0.40                                 | ...                                                       | 14                                     | 0.22                                       | 64,365       | 890           | 12,350                      | 191.86                                     | 364              | 5.62                                      |
| ...           | ...      | ...                  | 26                                                      | 16                                 | 42     | 0.38                                 | 2.5                                                       | ...                                    | ...                                        | 131,418      | 2,658         | 20,234                      | 153.87                                     | 788              | 5.67                                      |
| ...           | ...      | ...                  | 21                                                      | 5                                  | 26     | 0.54                                 | ...                                                       | 5                                      | 0.10                                       | 49,328       | 488           | 9,084                       | 184.15                                     | 348              | 6.99                                      |
| ...           | ...      | ...                  | ...                                                     | ...                                | 6      | 1.49                                 | 10.0                                                      | 4                                      | 0.99                                       | 3,985        | 85            | 777                         | 194.98                                     | 17               | 4.23                                      |
| ...           | 1        | ...                  | 24                                                      | 9                                  | 33     | 0.04                                 | 3.3                                                       | 34                                     | 0.42                                       | 80,146       | 765           | 13,611                      | 169.82                                     | 597              | 7.88                                      |
| 5             | ...      | ...                  | 36                                                      | 7                                  | 43     | 0.92                                 | ...                                                       | 18                                     | 0.34                                       | 52,845       | 648           | 8,525                       | 161.31                                     | 376              | 7.08                                      |
| ...           | ...      | ...                  | 21                                                      | ...                                | 21     | 0.45                                 | 70.0                                                      | 3                                      | 0.04                                       | 79,916       | 353           | 14,278                      | 178.65                                     | 495              | 6.17                                      |
| 16            | ...      | ...                  | 4                                                       | 4                                  | 8      | 0.81                                 | 3.4                                                       | 10                                     | 0.14                                       | 72,794       | 857           | 13,346                      | 183.34                                     | 682              | 9.32                                      |
| ...           | ...      | ...                  | 28                                                      | 11                                 | 39     | 0.71                                 | 5.5                                                       | 14                                     | 0.28                                       | 56,535       | 779           | 7,126                       | 146.29                                     | 818              | 5.55                                      |
| ...           | ...      | ...                  | 36                                                      | 11                                 | 47     | 0.99                                 | 4.0                                                       | 10                                     | 0.17                                       | 58,325       | 1,339         | 12,237                      | 209.79                                     | 1,103            | 18.49                                     |
| ...           | ...      | ...                  | 23                                                      | 6                                  | 29     | 0.42                                 | 2.9                                                       | ...                                    | ...                                        | 73,355       | 818           | 15,044                      | 205.07                                     | 658              | 8.87                                      |
| ...           | ...      | ...                  | 21                                                      | 11                                 | 32     | 0.71                                 | ...                                                       | 20                                     | 0.41                                       | 48,701       | 531           | 10,827                      | 187.06                                     | 675              | 13.71                                     |
| ...           | ...      | ...                  | 14                                                      | ...                                | 14     | 0.19                                 | ...                                                       | ...                                    | ...                                        | 93,241       | 513           | 19,108                      | 204.91                                     | 505              | 5.89                                      |
| 50            | 8        | 9                    | 500                                                     | 147                                | 770    | 0.51                                 | ...                                                       | 289                                    | 0.19                                       | 1,491,107    | 14,236        | 286,763                     | 192.20                                     | 11,778           | 7.83                                      |

## ANNEX

## Maternity Relief and Child

| Number. | Name of municipality. | Area in square miles. | Total revenue of the municipality. | Amount spent on Maternity and Child-welfare work. | Percentage of total revenue spent on Maternity and Child-welfare work. | Maternity and Child-welfare centres. |                                     | Medical women.                                  |                           |                   | Number of Health visitors. | In child-welfare centres. |                 |
|---------|-----------------------|-----------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------------------|---------------------------|-------------------|----------------------------|---------------------------|-----------------|
|         |                       |                       |                                    |                                                   |                                                                        | Municipal.                           | Aided and under private management. | Appointed for Maternity and Child-welfare work. | Available as consultants. | Per 1,000 births. |                            | Municipal.                | Private bodies. |
| (1)     | (2)                   | (3)                   | (4)                                | (5)                                               | (6)                                                                    | (7)                                  | (8)                                 | (9)                                             | (10)                      | (11)              | (12)                       | (13)                      | (14)            |
|         |                       |                       | RS.                                | RS.                                               |                                                                        |                                      |                                     |                                                 |                           |                   |                            |                           |                 |
| 1       | Hindapur              | 1.59                  | 1,38,911                           | 230                                               | 0.16                                                                   | ...                                  | ...                                 | ...                                             | 1                         | 1.56              | ...                        | ...                       | 1               |
| 2       | Anantapur             | 2.27                  | 70,011                             | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 1.78              | ...                        | ...                       | ...             |
| 3       | Tadpatri              | ...                   | 44,346                             | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 2.08              | ...                        | ...                       | ...             |
| 4       | Bellary               | ...                   | 2,43,585                           | 638                                               | 0.27                                                                   | ...                                  | 1                                   | ...                                             | 4                         | 2.06              | ...                        | ...                       | 1               |
| 5       | Adoni                 | 4.43                  | 2,12,914                           | 984                                               | 0.46                                                                   | 1                                    | ...                                 | ...                                             | 1                         | 0.66              | ...                        | 1                         | ...             |
| 6       | Hospet                | 5.62                  | 66,450                             | 456                                               | 0.7                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 1.18              | ...                        | ...                       | ...             |
| 7       | Conjeevaram           | 4                     | 2,13,400                           | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 0.37              | ...                        | ...                       | ...             |
| 8       | Saidapet              | 7.5                   | 1,93,604                           | 482                                               | 0.24                                                                   | ...                                  | 1                                   | ...                                             | ...                       | ...               | ...                        | ...                       | ...             |
| 9       | Ohinglepud            | 1.5                   | 43,053                             | 1,650                                             | 3.8                                                                    | 1                                    | ...                                 | ...                                             | 1                         | 1.21              | ...                        | 1                         | ...             |
| 10      | Chittoor              | 7.5                   | 44,408                             | 1,910                                             | 4.30                                                                   | ...                                  | 1                                   | ...                                             | ...                       | ...               | ...                        | ...                       | ...             |
| 11      | Tirupati              | 1.5                   | 95,853                             | 4,881                                             | 5                                                                      | 1                                    | ...                                 | 1                                               | 1                         | 2.85              | ...                        | 1                         | ...             |
| 12      | Coimbatore            | 9                     | 12,02,273                          | 4,552                                             | 0.37                                                                   | ...                                  | 3                                   | 1                                               | 6                         | 1.97              | ...                        | ...                       | 1               |
| 13      | Erode                 | 2.42                  | 2,21,355                           | 705                                               | 0.22                                                                   | ...                                  | 1                                   | 1                                               | 4                         | 5.43              | ...                        | ...                       | ...             |
| 14      | Dharapuram            | 1.84                  | 60,000                             | 440                                               | 0.75                                                                   | 1                                    | ...                                 | ...                                             | 3                         | 4.36              | ...                        | 1                         | ...             |
| 15      | Pollachi              | 4                     | 1,70,774                           | 392                                               | 0.2                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 1.08              | ...                        | ...                       | ...             |
| 16      | Tiruppur              | ...                   | ...                                | ...                                               | ...                                                                    | 1                                    | ...                                 | ...                                             | 2                         | 3.24              | ...                        | 1                         | ...             |
| 17      | Udumalpet             | 2.5                   | 84,106                             | Nil.                                              | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 2.03              | ...                        | ...                       | ...             |
| 18      | Cuddapah              | 2.7                   | 1,03,508                           | 300                                               | 0.28                                                                   | ...                                  | ...                                 | ...                                             | 1                         | 1.01              | ...                        | ...                       | ...             |
| 19      | Prodattur             | 2.5                   | 1,18,295                           | 640                                               | 0.54                                                                   | 1                                    | ...                                 | ...                                             | 1                         | 1.20              | ...                        | ...                       | ...             |
| 20      | Berhampur             | 5                     | 2,34,422                           | 500                                               | 0.2                                                                    | ...                                  | 1                                   | ...                                             | 4                         | 7.86              | ...                        | ...                       | 1               |
| 21      | Parlakimedi           | ...                   | ...                                | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 1.40              | ...                        | ...                       | ...             |
| 22      | Chicacole             | ...                   | 69,965                             | 440                                               | 0.62                                                                   | ...                                  | ...                                 | ...                                             | 1                         | 1.98              | ...                        | ...                       | ...             |
| 23      | Rajahmundry           | 3.5                   | 2,67,800                           | 1,116                                             | 0.4                                                                    | ...                                  | 1                                   | ...                                             | 3                         | 1.15              | ...                        | ...                       | ...             |
| 24      | Oocanada              | 7.85                  | 2,88,540                           | 1,350                                             | 0.47                                                                   | 1                                    | ...                                 | ...                                             | 2                         | 0.99              | ...                        | 1                         | ...             |
| 25      | Peddapuram            | 7                     | 32,189                             | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | ...                       | ...               | ...                        | ...                       | ...             |
| 26      | Ellore                | ...                   | 2,20,000                           | 1,694                                             | 0.7                                                                    | 1                                    | ...                                 | 1                                               | 2                         | 1.51              | ...                        | ...                       | ...             |
| 27      | Palacole              | ...                   | 1,00,000                           | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | ...                       | ...               | ...                        | ...                       | ...             |
| 28      | Guntur                | 6                     | 2,08,886                           | 1,233                                             | 0.59                                                                   | 1                                    | ...                                 | ...                                             | 12                        | 4.01              | ...                        | 1                         | ...             |
| 29      | Tenali                | 2.68                  | ...                                | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 1.07              | ...                        | ...                       | ...             |
| 30      | Chirala               | 2                     | 54,360                             | Nil.                                              | ...                                                                    | ...                                  | ...                                 | ...                                             | 2                         | 2.57              | ...                        | ...                       | ...             |
| 31      | Ongole                | 4.5                   | 52,570                             | 50                                                | 0.1                                                                    | ...                                  | 1                                   | ...                                             | 2                         | 2.55              | ...                        | ...                       | 1               |
| 32      | Narasaraopet          | 2.63                  | 56,920                             | 240                                               | 0.4                                                                    | ...                                  | ...                                 | ...                                             | ...                       | ...               | ...                        | 1                         | ...             |
| 33      | Beswada               | 7.5                   | 4,43,208                           | 1,216                                             | 1                                                                      | 1                                    | ...                                 | ...                                             | 3                         | 1.07              | 1                          | ...                       | ...             |
| 34      | Masulipatam           | ...                   | 1,60,788                           | 2,895                                             | 1.6                                                                    | ...                                  | ...                                 | ...                                             | 3                         | 1.21              | ...                        | ...                       | ...             |
| 35      | Kurnool               | 4.5                   | 2,50,000                           | ...                                               | ...                                                                    | ...                                  | 1                                   | ...                                             | 1                         | 0.59              | ...                        | ...                       | ...             |
| 36      | Nandyal               | ...                   | ...                                | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | ...                       | ...               | 1                          | ...                       | ...             |
| 37      | Madras                | 19.728                | 63,85,230                          | 1,75,519                                          | 3                                                                      | 12                                   | 1                                   | 13                                              | 13                        | 0.89              | 81                         | ...                       | ...             |
| 38      | Madura                | 8.07                  | 11,18,623                          | 17,020                                            | 1.52                                                                   | 4                                    | 1                                   | ...                                             | 14                        | 2.06              | ...                        | ...                       | 1               |
| 39      | Dindigul              | 5.04                  | 1,59,838                           | ...                                               | ...                                                                    | 1                                    | ...                                 | ...                                             | 2                         | 1.02              | 1                          | 1                         | ...             |
| 40      | Bodinayakanur         | ...                   | ...                                | ...                                               | ...                                                                    | ...                                  | ...                                 | ...                                             | ...                       | ...               | ...                        | ...                       | ...             |
| 41      | Palni                 | 1.63                  | 52,310                             | 50                                                | ...                                                                    | ...                                  | ...                                 | ...                                             | ...                       | ...               | ...                        | ...                       | ...             |
| 42      | Periyakulam           | 84                    | 78,355                             | 675                                               | 1                                                                      | 1                                    | ...                                 | ...                                             | 1                         | 0.86              | ...                        | 1                         | ...             |
| 43      | Kodaikanal            | 6                     | 92,830                             | 315                                               | 2.79                                                                   | ...                                  | 1                                   | ...                                             | 1                         | 3.28              | ...                        | ...                       | 1               |
| 44      | Calicut               | 10.77                 | 3,43,786                           | 1,860                                             | 0.53                                                                   | ...                                  | 4                                   | ...                                             | 5                         | 1.14              | ...                        | ...                       | 4               |
| 45      | Palghat               | 10.49                 | 1,46,340                           | Nil.                                              | ...                                                                    | ...                                  | ...                                 | ...                                             | 1                         | 0.47              | ...                        | ...                       | ...             |
| 46      | Cannanore             | 4.87                  | 1,12,846                           | 1,940                                             | 1                                                                      | ...                                  | ...                                 | ...                                             | 3                         | 2.06              | ...                        | 2                         | ...             |
| 47      | Tellicherry           | 2.5                   | 70,247                             | 866                                               | 1.21                                                                   | ...                                  | ...                                 | ...                                             | 1                         | 0.78              | ...                        | ...                       | ...             |

## URE E.

## welfare Survey—Municipalities.

| wives. | For domi-<br>ciliary<br>service<br>alone | In private practice. | In hospitals and dis-<br>pensaries, Govern-<br>ment, municipal and<br>private. | Total. | Per 1,000 births. | Percentage of cases re-<br>ceiving skilled aid at<br>child birth. | Maternity<br>beds in<br>hospitals<br>and dis-<br>pensaries. |                      | Live births. | Still births. | Number of<br>infantile<br>deaths. | Infantile mortality rate<br>per 1,000 births. | Maternal deaths. | Maternal mortality rate<br>per 1,000 births. |
|--------|------------------------------------------|----------------------|--------------------------------------------------------------------------------|--------|-------------------|-------------------------------------------------------------------|-------------------------------------------------------------|----------------------|--------------|---------------|-----------------------------------|-----------------------------------------------|------------------|----------------------------------------------|
|        |                                          |                      |                                                                                |        |                   |                                                                   | Number.                                                     | Per 1,000<br>births. |              |               |                                   |                                               |                  |                                              |
| (15)   | (16)                                     | (17)                 | (18)                                                                           | (19)   | (20)              | (21)                                                              | (22)                                                        | (23)                 | (24)         | (25)          | (26)                              | (27)                                          | (28)             | (29)                                         |
| 1      | ...                                      | ...                  | 1                                                                              | 2      | 8.12              | 26.2                                                              | ...                                                         | ...                  | 628          | 18            | 100                               | 159.24                                        | 12               | 18.72                                        |
| 2      | ...                                      | ...                  | 1                                                                              | 4      | 7.09              | 79                                                                | 4                                                           | 7.09                 | 547          | 17            | 74                                | 135.28                                        | 8                | 14.18                                        |
| 3      | ...                                      | ...                  | 1                                                                              | 1      | 2.08              | ...                                                               | ...                                                         | ...                  | 469          | 11            | 78                                | 166.31                                        | 11               | 22.92                                        |
| 4      | ...                                      | ...                  | 2                                                                              | 8      | 4.13              | 24.7                                                              | 4                                                           | 2.07                 | 1,873        | 62            | 583                               | 311.26                                        | 31               | 16.02                                        |
| 5      | ...                                      | 3                    | 1                                                                              | 2      | 1.32              | 10.3                                                              | 6                                                           | 3.97                 | 1,470        | 40            | 178                               | 121.09                                        | 3                | 1.99                                         |
| 6      | ...                                      | 1                    | 1                                                                              | 3      | 3.39              | 34                                                                | 4                                                           | 4.51                 | 860          | 26            | 129                               | 150.00                                        | 8                | 9.03                                         |
| 7      | ...                                      | 1                    | 1                                                                              | 3      | 2.91              | 49                                                                | 16                                                          | 5.85                 | 2,589        | 147           | 466                               | 179.99                                        | 34               | 12.43                                        |
| 8      | ...                                      | ...                  | 4                                                                              | 5      | 4.08              | 35.53                                                             | 2                                                           | 1.61                 | 1,212        | 23            | 245                               | 202.14                                        | 4                | 3.22                                         |
| 9      | ...                                      | 2                    | 2                                                                              | 5      | 6.05              | 97.90                                                             | 9                                                           | 10.90                | 780          | 96            | 127                               | 173.97                                        | 16               | 19.87                                        |
| 10     | ...                                      | ...                  | 1                                                                              | 4      | 5.23              | 86                                                                | ...                                                         | ...                  | 690          | 68            | 110                               | 159.42                                        | 13               | 17.15                                        |
| 11     | ...                                      | ...                  | 2                                                                              | 5      | 7.12              | ...                                                               | 6                                                           | 8.55                 | 658          | 44            | 122                               | 185.41                                        | 13               | 18.52                                        |
| 12     | ...                                      | ...                  | 2                                                                              | 5      | 5.61              | ...                                                               | 28                                                          | 7.86                 | 3,432        | 180           | 911                               | 236.31                                        | 49               | 13.76                                        |
| 13     | ...                                      | 5                    | 6                                                                              | 20     | 8.26              | 5                                                                 | 8                                                           | 6.52                 | 898          | 22            | 116                               | 129.68                                        | 18               | 19.57                                        |
| 14     | ...                                      | 1                    | ...                                                                            | 4      | 3.80              | 30.6                                                              | 6                                                           | 8.76                 | 663          | 22            | 101                               | 152.38                                        | 10               | 14.60                                        |
| 15     | ...                                      | ...                  | ...                                                                            | 2      | 2.18              | 46.37                                                             | 9                                                           | 9.71                 | 395          | 32            | 205                               | 229.05                                        | 8                | 8.63                                         |
| 16     | ...                                      | ...                  | ...                                                                            | 1      | 8.09              | 3                                                                 | ...                                                         | ...                  | 575          | 43            | 71                                | 123.48                                        | 12               | 19.42                                        |
| 17     | ...                                      | 2                    | ...                                                                            | 2      | 4.07              | 76.6                                                              | ...                                                         | ...                  | 470          | 23            | 90                                | 191.49                                        | 12               | 24.39                                        |
| 18     | ...                                      | ...                  | 2                                                                              | 2      | 2.01              | 27.3                                                              | 2                                                           | 2.01                 | 934          | 60            | 160                               | 171.31                                        | 29               | 38.17                                        |
| 19     | ...                                      | 3                    | 2                                                                              | 6      | 7.19              | 48                                                                | 8                                                           | 9.59                 | 806          | 28            | 128                               | 158.81                                        | 12               | 14.39                                        |
| 20     | ...                                      | 4                    | 7                                                                              | 5      | 5.00              | 42.3                                                              | 19                                                          | 13.57                | 1,356        | 44            | 182                               | 134.22                                        | 19               | 18.57                                        |
| 21     | ...                                      | ...                  | 2                                                                              | 3      | 4.46              | 40.7                                                              | 2                                                           | 2.97                 | 658          | 15            | 109                               | 165.65                                        | 8                | 11.89                                        |
| 22     | ...                                      | ...                  | 1                                                                              | 2      | 3.96              | 44.7                                                              | 7                                                           | 13.86                | 503          | 2             | 67                                | 133.20                                        | 5                | 9.90                                         |
| 23     | ...                                      | 1                    | 11                                                                             | 13     | 5.00              | ...                                                               | 2                                                           | 2.77                 | 2,498        | 103           | 741                               | 296.63                                        | 40               | 15.38                                        |
| 24     | ...                                      | ...                  | 2                                                                              | 8      | 3.96              | 48                                                                | 6                                                           | 2.97                 | 2,007        | 14            | 507                               | 252.62                                        | 24               | 11.88                                        |
| 25     | ...                                      | ...                  | 1                                                                              | 1      | 1.65              | ...                                                               | 2                                                           | 3.70                 | 535          | 5             | 76                                | 142.06                                        | 15               | 27.76                                        |
| 26     | ...                                      | ...                  | 2                                                                              | 5      | 2.05              | ...                                                               | 4                                                           | 2.02                 | 1,948        | 34            | 175                               | 89.84                                         | 20               | 10.09                                        |
| 27     | ...                                      | ...                  | ...                                                                            | ...    | ...               | ...                                                               | 1                                                           | 2.10                 | 471          | 4             | 108                               | 229.30                                        | 13               | 27.37                                        |
| 28     | ...                                      | 2                    | 12                                                                             | 16     | 5.35              | 70.73                                                             | 102                                                         | 34.13                | 2,725        | 264           | 481                               | 176.61                                        | 86               | 28.77                                        |
| 29     | ...                                      | ...                  | 1                                                                              | 2      | 2.15              | 24.4                                                              | 12                                                          | 12.90                | 894          | 36            | 152                               | 170.02                                        | 11               | 11.88                                        |
| 30     | ...                                      | ...                  | 2                                                                              | 2      | 2.57              | 26.7                                                              | 4                                                           | 5.14                 | 730          | 47            | 138                               | 189.04                                        | 11               | 14.14                                        |
| 31     | ...                                      | ...                  | 3                                                                              | 4      | 5.10              | ...                                                               | ...                                                         | ...                  | 707          | 88            | 116                               | 164.07                                        | 18               | 22.98                                        |
| 32     | ...                                      | ...                  | 1                                                                              | 2      | 3.21              | 34.8                                                              | 2                                                           | 3.21                 | 575          | 48            | 155                               | 269.57                                        | 8                | 12.34                                        |
| 33     | ...                                      | 1                    | 1                                                                              | 5      | 1.73              | 30.6                                                              | 14                                                          | 4.99                 | 2,765        | 48            | 781                               | 282.46                                        | 50               | 17.81                                        |
| 34     | ...                                      | ...                  | 2                                                                              | 11     | 4.44              | 49.4                                                              | 22                                                          | 8.89                 | 2,860        | 116           | 552                               | 233.90                                        | 28               | 9.29                                         |
| 35     | ...                                      | ...                  | 11                                                                             | 11     | 6.45              | 50                                                                | ...                                                         | ...                  | 1,630        | 25            | 214                               | 127.39                                        | 15               | 8.80                                         |
| 36     | ...                                      | ...                  | ...                                                                            | 3      | 3.7               | ...                                                               | ...                                                         | ...                  | 914          | 52            | 166                               | 181.62                                        | 18               | 13.46                                        |
| 37     | ...                                      | ...                  | 41                                                                             | 123    | 4.23              | ...                                                               | 159                                                         | 4.78                 | 27,723       | 1,867         | 6,424                             | 231.68                                        | 313              | 10.76                                        |
| 38     | ...                                      | ...                  | 10                                                                             | 34     | 5.01              | 36                                                                | 70                                                          | 10.31                | 8,441        | 343           | 1,785                             | 269.37                                        | 117              | 17.23                                        |
| 39     | ...                                      | 2                    | 2                                                                              | 9      | 4.58              | 37.8                                                              | 4                                                           | 2.04                 | 1,839        | 78            | 329                               | 174.17                                        | 15               | 7.63                                         |
| 40     | ...                                      | ...                  | ...                                                                            | ...    | ...               | ...                                                               | ...                                                         | ...                  | 1,175        | 18            | 170                               | 144.68                                        | 6                | 5.03                                         |
| 41     | ...                                      | ...                  | 1                                                                              | 2      | 2.87              | ...                                                               | ...                                                         | ...                  | 687          | 11            | 126                               | 183.40                                        | 5                | 7.16                                         |
| 42     | ...                                      | ...                  | 1                                                                              | 3      | 2.87              | 19.9                                                              | 3                                                           | 1.91                 | 1,011        | 33            | 210                               | 207.71                                        | 12               | 11.49                                        |
| 43     | ...                                      | ...                  | 1                                                                              | 6      | 19.67             | 50.34                                                             | 5                                                           | 16.89                | 294          | 11            | 83                                | 282.31                                        | 5                | 16.39                                        |
| 44     | ...                                      | ...                  | 5                                                                              | 15     | 33.4              | 12                                                                | 12                                                          | 2.73                 | 4,119        | 276           | 436                               | 105.85                                        | 58               | 13.20                                        |
| 45     | ...                                      | ...                  | ...                                                                            | 6      | 2.81              | 13                                                                | 5                                                           | 2.34                 | 2,034        | 108           | 359                               | 176.49                                        | 15               | 7.01                                         |
| 46     | ...                                      | ...                  | ...                                                                            | 8      | 5.50              | ...                                                               | 10                                                          | 6.87                 | 1,370        | 85            | 196                               | 143.07                                        | 11               | 7.56                                         |
| 47     | ...                                      | ...                  | 2                                                                              | 8      | 6.20              | 42.48                                                             | 12                                                          | 9.30                 | 1,203        | 87            | 137                               | 113.88                                        | 14               | 10.85                                        |

## ANNEX

## Maternity Relief and Child-

| (1)                            | Name of municipality. | Area in square miles. | Total revenue of the municipality. | Amount spent on Maternity and Child-welfare work. | Percentage of total revenue spent on Maternity and Child-welfare work. | Maternity and Child-welfare Centres. |                                      | Medical women.                                  |                           |                   | Number of Health visitors. | Mid In Child-welfare centres. |                 |
|--------------------------------|-----------------------|-----------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------------------|---------------------------|-------------------|----------------------------|-------------------------------|-----------------|
|                                |                       |                       |                                    |                                                   |                                                                        | Municipal.                           | Aided and under private manage-ment. | Appointed for Maternity and Child-welfare work. | Available as consultants. | Per 1,000 births. |                            | Municipal.                    | Private bodies. |
| (1)                            | (2)                   | (3)                   | (4)                                | (5)                                               | (6)                                                                    | (7)                                  | (8)                                  | (9)                                             | (10)                      | (11)              | (12)                       | (13)                          | (14)            |
|                                |                       |                       | Rs.                                | Rs.                                               |                                                                        |                                      |                                      |                                                 |                           |                   |                            |                               |                 |
| 48                             | Oochin...             | 1.01                  | 1,08,688                           | 1,050                                             | 0.96                                                                   | ..                                   | ..                                   | ..                                              | 2                         | 2.11              | ..                         | ..                            | 1               |
| 49                             | Nellore               | 5                     | ...                                | 350                                               | ...                                                                    | ..                                   | 1                                    | ..                                              | 6                         | 2.72              | ..                         | 1                             | ...             |
| 50                             | Ootacamund            | 14.5                  | 5,43,680                           | 3,874                                             | 0.6                                                                    | 1                                    | ..                                   | 1                                               | 2                         | 2.74              | ..                         | 1                             | ...             |
| 51                             | Oonoer                | 5.81                  | 2,20,618                           | 858                                               | 0.388                                                                  | 1                                    | ..                                   | ..                                              | ..                        | ...               | ..                         | 1                             | ...             |
| 52                             | Vellore               | 4.5                   | ...                                | ...                                               | ...                                                                    | 2                                    | ..                                   | ..                                              | 4                         | 1.17              | ..                         | 2                             | 1               |
| 53                             | Gudiyattam            | ...                   | 88,141                             | 434                                               | 0.48                                                                   | ..                                   | 1                                    | ..                                              | 2                         | 2.34              | ..                         | ..                            | 1               |
| 54                             | Tiruvanna-malai       | ...                   | 74,446                             | 600                                               | 0.8                                                                    | 1                                    | ..                                   | ..                                              | 1                         | 0.86              | ..                         | 1                             | ...             |
| 55                             | Vaniyambadi           | ...                   | 69,680                             | 432                                               | 0.66                                                                   | ..                                   | ..                                   | ..                                              | 1                         | 1.49              | ..                         | ..                            | ...             |
| 56                             | Tirupattur            | ...                   | 71,944                             | ...                                               | ...                                                                    | ..                                   | ..                                   | ..                                              | ..                        | ...               | ..                         | ..                            | ...             |
| 57                             | Walajapet             | ...                   | 3,400                              | ...                                               | ...                                                                    | ..                                   | ..                                   | ..                                              | ..                        | ...               | ..                         | ..                            | ...             |
| 58                             | Srivilliputtur        | 1.33                  | 63,890                             | 388                                               | 0.55                                                                   | ..                                   | ..                                   | ..                                              | 1                         | 0.83              | ..                         | ..                            | ...             |
| 59                             | Virudhunagar          | 2.25                  | 1,42,610                           | 380                                               | 0.25                                                                   | ..                                   | ..                                   | ..                                              | 1                         | 0.78              | ..                         | ..                            | ...             |
| 60                             | Sivakasi              | 2.5                   | ...                                | ...                                               | ...                                                                    | ..                                   | ..                                   | ..                                              | 2                         | 4.62              | ..                         | ..                            | ...             |
| 61                             | Karaikudi             | 6                     | 78,942                             | 100                                               | 0.001                                                                  | ..                                   | ..                                   | ..                                              | 1                         | 1.51              | ..                         | ..                            | ...             |
| 62                             | Salem                 | 5.45                  | 3,35,295                           | 8,993                                             | 2.6                                                                    | 3                                    | ..                                   | 1                                               | 3                         | 0.99              | 1                          | 3                             | ...             |
| 63                             | Cuddalore             | 12.05                 | 1,48,820                           | 1,040                                             | 1.37                                                                   | 1                                    | 1                                    | ..                                              | 3                         | 1.38              | ..                         | 1                             | 1               |
| 64                             | Chidambaram           | 2                     | 72,957                             | 674                                               | 0.9                                                                    | ..                                   | 1                                    | ..                                              | 1                         | 1.22              | ..                         | ..                            | 1               |
| 65                             | Villupuram            | 2.33                  | ...                                | ...                                               | ...                                                                    | ..                                   | ..                                   | ..                                              | 1                         | 1.55              | ..                         | ..                            | ...             |
| 66                             | Mangalore             | 5.25                  | 3,34,200                           | 3,367                                             | 1                                                                      | ..                                   | 1                                    | ..                                              | 2                         | 0.76              | ..                         | ..                            | ...             |
| 67                             | Kumbakonam            | 4.42                  | 2,94,264                           | 1,153                                             | 0.37                                                                   | 1                                    | ..                                   | ..                                              | 4                         | 1.58              | ..                         | ..                            | ...             |
| 68                             | Tanjore               | 8.30                  | 2,84,754                           | 700                                               | ...                                                                    | ..                                   | 2                                    | ..                                              | 4                         | 1.34              | ..                         | ..                            | 2               |
| 69                             | Negapatam             | 5.44                  | 1,39,340                           | 1,480                                             | 1.07                                                                   | 1                                    | 1                                    | ..                                              | 3                         | 1.77              | ..                         | 2                             | ...             |
| 70                             | Mayavaram             | 4.70                  | 1,07,151                           | 551                                               | 0.5                                                                    | 1                                    | ..                                   | ..                                              | 1                         | 1.07              | ..                         | ..                            | ...             |
| 71                             | Tiruvavur             | ...                   | 57,980                             | ...                                               | ...                                                                    | 1                                    | ..                                   | ..                                              | ..                        | ...               | ..                         | 1                             | ...             |
| 72                             | Mannargudi            | 4.2                   | 75,718                             | 840                                               | 1.1                                                                    | 1                                    | ..                                   | ..                                              | 1                         | 1.08              | ..                         | 1                             | ...             |
| 73                             | Tinnevely             | 3.58                  | 1,41,428                           | 1,071                                             | 0.75                                                                   | 1                                    | ..                                   | ..                                              | 1                         | 0.46              | ..                         | 2                             | ...             |
| 74                             | Palamcottah           | 4.84                  | 1,00,000                           | ...                                               | ...                                                                    | ..                                   | 2                                    | ..                                              | 5                         | 2.43              | ..                         | 1                             | ...             |
| 75                             | Tuticorin             | 3.07                  | 4,17,650                           | 2,715                                             | 0.65                                                                   | ..                                   | 1                                    | ..                                              | 1                         | 0.40              | ..                         | ..                            | 1               |
| 76                             | Trichinopoly          | 8.9                   | 7,34,135                           | 6,210                                             | 0.84                                                                   | 1                                    | 1                                    | 1                                               | 8                         | 1.88              | ..                         | 1                             | 1               |
| 77                             | Srirangam             | 5.06                  | 1,24,891                           | 603                                               | 0.48                                                                   | ..                                   | ..                                   | ..                                              | 1                         | 1.27              | ..                         | ..                            | ...             |
| 78                             | Karur                 | ...                   | 1,19,555                           | 360                                               | 0.3                                                                    | ..                                   | ..                                   | ..                                              | 1                         | 1.66              | ..                         | ..                            | ...             |
| 79                             | Vizagapatam           | 6.18                  | 3,04,489                           | 2,347                                             | 0.77                                                                   | 1                                    | ..                                   | ..                                              | 4                         | 1.82              | ..                         | 1                             | ...             |
| 80                             | Visakhapatnam         | 3.43                  | 1,84,028                           | 2,555                                             | 1.4                                                                    | 1                                    | ..                                   | 1                                               | 1                         | 0.57              | ..                         | ..                            | ...             |
| 81                             | Ankapalle             | ...                   | 1,46,226                           | ...                                               | ...                                                                    | ..                                   | ..                                   | ..                                              | ..                        | ...               | ..                         | ..                            | ...             |
| 82                             | Bimlipatam            | 5.2                   | ...                                | 100                                               | ...                                                                    | ..                                   | 1                                    | ..                                              | ..                        | ...               | ..                         | ..                            | ...             |
| Total for Municipalities       |                       | ...                   | ...                                | ...                                               | ...                                                                    | 46                                   | 30                                   | 21                                              | 177                       | 1.32              | 34                         | 32                            | 22              |
| Grand Total for the Presidency |                       | ...                   | ...                                | ...                                               | ...                                                                    | 109                                  | 44                                   | 28                                              | 241                       | 0.15              | 40                         | 77                            | 33              |

## URE E—cont.

## welfare Survey—Municipalities—cont.

| (15) | Municipal. | Private bodies. | In private practice. | In hospitals and dispensaries. Government municipal and private. | Total. | Per 1,000 births. | Percentage of cases receiving skilled aid at child birth. | Maternity beds in hospitals and dispensaries |                   | Live births. | Still births. | Number of infantile deaths. | Infantile mortality rate per 1,000 births. | Maternal deaths. | Maternal mortality rate per 1,000 births. |
|------|------------|-----------------|----------------------|------------------------------------------------------------------|--------|-------------------|-----------------------------------------------------------|----------------------------------------------|-------------------|--------------|---------------|-----------------------------|--------------------------------------------|------------------|-------------------------------------------|
|      |            |                 |                      |                                                                  |        |                   |                                                           | Number.                                      | Per 1,000 births. |              |               |                             |                                            |                  |                                           |
| (15) | (16)       | (17)            | (18)                 | (19)                                                             | (20)   | (21)              | (22)                                                      | (23)                                         | (24)              | (25)         | (26)          | (27)                        | (28)                                       | (29)             | (30)                                      |
| 1    | ...        | ...             | 5                    | 2                                                                | 9      | 9.49              | 61.2                                                      | 4                                            | 4.22              | 998          | 42            | 140                         | 154.53                                     | 10               | 10.56                                     |
| ...  | ...        | ...             | ...                  | 20                                                               | 24     | 10.88             | 74                                                        | 69                                           | 31.28             | 2,023        | 178           | 460                         | 227.38                                     | 45               | 20.40                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 5      | 4.57              | 80                                                        | 36                                           | 32.94             | 1,053        | 40            | 226                         | 214.62                                     | 6                | 5.43                                      |
| ...  | ...        | ...             | ...                  | 1                                                                | 9      | 17.34             | ...                                                       | 8                                            | 15.41             | 509          | 10            | 49                          | 96.27                                      | 8                | 5.78                                      |
| ...  | ...        | ...             | ...                  | 6                                                                | 12     | 3.52              | 45.4                                                      | 79                                           | 23.20             | 3,177        | 228           | 582                         | 183.19                                     | 59               | 17.33                                     |
| ...  | ...        | ...             | ...                  | 8                                                                | 5      | 5.86              | 42.9                                                      | ...                                          | ...               | 828          | 25            | 114                         | 137.68                                     | 24               | 26.14                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 2      | 1.73              | 22.3                                                      | 4                                            | 3.46              | 1,127        | 30            | 174                         | 154.39                                     | 30               | 25.93                                     |
| ...  | ...        | ...             | ...                  | 2                                                                | 2      | 2.07              | 35.4                                                      | 4                                            | 4.14              | 644          | 26            | 122                         | 189.44                                     | 21               | 21.72                                     |
| ...  | ...        | ...             | ...                  | 2                                                                | 2      | 2.58              | 38.6                                                      | 4                                            | 5.16              | 692          | 85            | 83                          | 119.94                                     | 18               | 23.23                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 1      | 2.40              | 34.9                                                      | ...                                          | ...               | 411          | 6             | 63                          | 153.28                                     | 4                | 9.59                                      |
| ...  | ...        | ...             | ...                  | 1                                                                | 2      | 1.66              | 22                                                        | ...                                          | ...               | 1,194        | 11            | 208                         | 174.20                                     | 34               | 23.21                                     |
| ...  | ...        | ...             | ...                  | 2                                                                | 2      | 1.50              | 18.6                                                      | ...                                          | ...               | 1,234        | 49            | 259                         | 209.89                                     | 19               | 14.81                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 3      | 6.93              | 19.6                                                      | ...                                          | ...               | 432          | 1             | 56                          | 129.63                                     | 11               | 26.40                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 3      | 4.52              | ...                                                       | ...                                          | ...               | 643          | 20            | 104                         | 161.74                                     | 16               | 24.13                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 2      | 3.25              | 45.9                                                      | 21                                           | 5.25              | 3,863        | 140           | 671                         | 173.70                                     | 42               | 10.49                                     |
| ...  | ...        | ...             | ...                  | 7                                                                | 7      | 3.23              | 42                                                        | 17                                           | ...               | 2,091        | 79            | 408                         | 195.12                                     | 31               | 14.28                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 4      | 4.86              | 51.4                                                      | 4                                            | 4.86              | 786          | 37            | 149                         | 189.57                                     | 21               | 25.52                                     |
| ...  | ...        | ...             | ...                  | 4                                                                | 4      | 6.21              | 22.6                                                      | ...                                          | ...               | 622          | 22            | 82                          | 131.83                                     | 22               | 34.16                                     |
| ...  | ...        | ...             | ...                  | 8                                                                | 29     | 11.08             | 62.2                                                      | 44                                           | 16.73             | 2,537        | 93            | 289                         | 106.08                                     | 35               | 13.31                                     |
| ...  | ...        | ...             | ...                  | 3                                                                | 10     | 3.96              | 41.3                                                      | 6                                            | 2.38              | 2,324        | 201           | 869                         | 158.78                                     | 38               | 15.05                                     |
| ...  | ...        | ...             | ...                  | 6                                                                | 11     | 3.69              | 43.5                                                      | 24                                           | 8.05              | 2,812        | 170           | 605                         | 215.15                                     | 55               | 13.44                                     |
| ...  | ...        | ...             | ...                  | 2                                                                | 7      | 4.14              | 22.7                                                      | 12                                           | 7.10              | 1,603        | 88            | 333                         | 207.74                                     | 29               | 17.15                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 1      | 8.22              | 49                                                        | 2                                            | 2.15              | 911          | 21            | 180                         | 175.63                                     | 16               | 17.17                                     |
| ...  | ...        | ...             | ...                  | 3                                                                | 5      | 10.85             | ...                                                       | 4                                            | 5.28              | 462          | 21            | 93                          | 201.39                                     | 15               | 31.05                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 3      | 3.23              | 57.6                                                      | 4                                            | 4.31              | 880          | 48            | 153                         | 173.86                                     | 10               | 19.78                                     |
| ...  | ...        | ...             | ...                  | 4                                                                | 6      | 2.78              | 32.02                                                     | 4                                            | 1.85              | 2,086        | 71            | 547                         | 232.22                                     | 52               | 24.11                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 6      | 2.91              | 33                                                        | 6                                            | 2.61              | 1,977        | 82            | 426                         | 215.46                                     | 33               | 18.46                                     |
| ...  | ...        | ...             | ...                  | 8                                                                | 9      | 3.58              | 45.5                                                      | 23                                           | 8.75              | 2,411        | 102           | 517                         | 214.43                                     | 37               | 14.72                                     |
| ...  | ...        | ...             | ...                  | 6                                                                | 15     | 3.13              | 47.8                                                      | 25                                           | 5.22              | 4,647        | 146           | 871                         | 187.48                                     | 68               | 14.19                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 4      | 5.09              | 43.1                                                      | 6                                            | 7.63              | 755          | 31            | 144                         | 190.73                                     | 17               | 21.63                                     |
| ...  | ...        | ...             | ...                  | 3                                                                | 5      | 8.28              | ...                                                       | 4                                            | 6.62              | 590          | 14            | 108                         | 183.05                                     | 9                | 14.90                                     |
| ...  | ...        | ...             | ...                  | 7                                                                | 17     | 7.74              | 61.6                                                      | 38                                           | 17.31             | 2,111        | 84            | 606                         | 287.07                                     | 7                | 3.19                                      |
| ...  | ...        | ...             | ...                  | 3                                                                | 5      | 2.87              | 29.33                                                     | 14                                           | 8.05              | 1,691        | 49            | 374                         | 221.17                                     | 14               | 8.05                                      |
| ...  | ...        | ...             | ...                  | 2                                                                | 8      | 3.58              | ...                                                       | 2                                            | 2.39              | 810          | 28            | 150                         | 185.19                                     | 10               | 11.98                                     |
| ...  | ...        | ...             | ...                  | 1                                                                | 1      | 2.46              | 68.1                                                      | 4                                            | 9.99              | 376          | 25            | 99                          | 263.80                                     | 6                | 14.96                                     |
| 292  | 2          | 116             | 255                  | 649                                                              | 4.34   | ...               | 1,039                                                     | 695                                          | 142,889           | 6,569        | 28,593        | 200.07                      | 2,124                                      | 14.2             | ...                                       |
| 272  | 10         | 125             | 902                  | 2,419                                                            | 0.86   | ...               | 1,323                                                     | 0.80                                         | 1,683,998         | 20,805       | 315,356       | 192.90                      | 18,902                                     | 8.40             | ...                                       |

# ANNEXURE F.

## Summary on the working of the Ports in Madras Presidency during 1934.

| Number | Name of Port.             | Incoming vessels. |         | Out-going vessels.      |         | Infectious diseases. |                         | Action taken. | Rats on steamers.                |
|--------|---------------------------|-------------------|---------|-------------------------|---------|----------------------|-------------------------|---------------|----------------------------------|
|        |                           | Number.           | Crew.   | Passen- gers.           | Number. | Crew.                | Passen- gers.           |               |                                  |
| 1      | Adirampatnam.             | 143               | 1,363   | ...                     | 143     | 1,363                | ...                     | .....         | No rat mortality in the steamer. |
| 2      | Ammapatnam.               | ...               | ...     | ...                     | ...     | ...                  | ...                     | .....         | ...                              |
| 3      | Bimlipatam ...            | 42                | 3,177   | 136                     | 43      | 3,177                | 78                      | .....         | ...                              |
| 4      | Barava ...                | 102               | 115     | 7,641                   | 103     | 115                  | 9,617                   | .....         | ...                              |
| 5      | Calicut ...               | 246               | 10,866  | 187                     | 246     | 10,866               | 70                      | .....         | ...                              |
| 6      | Cochin ...                | 735               | 36,660  | ...                     | 735     | 36,660               | ...                     | .....         | ...                              |
| 7      | Cuddalore ...             | 202               | 18,044  | 189                     | 201     | 18,043               | 215                     | .....         | ...                              |
| 8      | Cannanore ...             | 633               | 16,396  | 538½                    | 625     | 14,569               | 179½                    | .....         | ...                              |
| 9      | Dhanushkodi...            | ...               | ...     | ...                     | ...     | ...                  | ...                     | .....         | ...                              |
| 10     | Devipatnam ...            | ...               | ...     | ...                     | ...     | ...                  | ...                     | .....         | ...                              |
| 11     | Gopalpur ...              | 180               | 70½ (a) | ...                     | 130     | 70½ (a)              | ...                     | .....         | ...                              |
| 12     | Kayalpattam.              | 6                 | 43      | ...                     | 6       | 43                   | ...                     | .....         | ...                              |
| 13     | Kulasekara-<br>patnam ... | 13                | 158     | ...                     | 12      | 156                  | ...                     | .....         | ...                              |
| 14     | Kilakarai ...             | 35                | 416     | Crew and<br>Passengers. | 37      | 545                  | Crew and<br>Passengers. | .....         | ...                              |
| 15     | Mangalore ...             | 164               | 10,147  | Crew and<br>Passengers. | 164     | 11,127               | Crew and<br>Passengers. | .....         | ...                              |
| 16     | Madras ...                | 739               | 65,490  | 55,077                  | 707     | 60,671               | 76,164                  | .....         | ...                              |

(On board S.S. Indra Steamer plying between Calicut, Bombay and Karachi.)

This port is closed for foreign traffic. The only passengers that arrive at the port are from neighbouring ports of Ammapatnam and Tondi.

One case of measles, one case of chickenpox and one case of mumps.

|    |                           |             |        |                         |       |        |                         |     |     |
|----|---------------------------|-------------|--------|-------------------------|-------|--------|-------------------------|-----|-----|
| 17 | Negapatam ...             | 24          | 4,338  | 19,969                  | 37    | 6,878  | 52,143                  | ... | ... |
|    |                           | (cargo 88.) | 5,907  | 34                      |       |        |                         |     |     |
| 18 | Porto-Novo ...            | ...         | ...    | ...                     | ...   | ...    | ...                     | ... | ... |
| 19 | Tirumalavasi.             | 133         | 2,162  | ...                     | 146   | 2,308  | ...                     | ... | ... |
| 20 | Thondi ...                | 5           | 181    | Crew and<br>Passengers. | 5     | 181    | Crew and<br>Passengers. | ... | ... |
| 21 | Tuticorin ...             | 1,067       | 39,632 | Crew and<br>Passengers. | 1,067 | 68,584 | Crew and<br>Passengers. | ... | ... |
| 22 | Visagapatam ...           | 104         | 16,560 | 17,359                  | 168   | 17,208 | 19,504                  | ... | ... |
| 23 | Beindur and<br>Shirar ... | 359         | 2,513  | ...                     | 359   | 2,513  | ...                     | ... | ... |

(a) Each passenger vessel had a crew of 115 and each cargo vessel had a crew of 70.

Removed the patient to the Municipal Infectious Diseases Hospital for treatment. The contacts of the patient and personal effects were disinfect.

Bubonic plague one case from Colombo passenger ship-Chothia. Enteric fever, 2 cases and one case of Tuberculosis of lungs.

Segregated in the Government Hospital and discharged cured. Ship disinfected. Case of Tuberculosis of lungs. Died in the hospital.

## APPEN

## VITAL STATISTICS OF THE

No. I.—Statement showing the Births registered in the

| Number. | Population (exclusive of Europeans and Anglo-Indians) as per Census of 1931. |            |            | Districts.                                | Population (exclusive of Europeans and Anglo-Indians) for which returns were received. |            |            |
|---------|------------------------------------------------------------------------------|------------|------------|-------------------------------------------|----------------------------------------------------------------------------------------|------------|------------|
|         | Males.                                                                       | Females.   | Total.     |                                           | Males.                                                                                 | Females.   | Total.     |
| (1)     | (2)                                                                          | (3)        | (4)        | (5)                                       | (6)                                                                                    | (7)        | (8)        |
| 1       | 539,256                                                                      | 510,624    | 1,049,880  | Anantapur ...                             | 539,256                                                                                | 510,624    | 1,049,880  |
| 2       | 492,807                                                                      | 476,477    | 969,284    | Bellary ...                               | 492,807                                                                                | 476,477    | 969,284    |
| 3       | 835,017                                                                      | 816,414    | 1,651,431  | Chingleput ...                            | 835,017                                                                                | 816,414    | 1,651,431  |
| 4       | 738,216                                                                      | 708,674    | 1,446,890  | Chittoor ...                              | 738,216                                                                                | 708,674    | 1,446,890  |
| 5       | 1,217,407                                                                    | 1,225,963  | 2,443,370  | Coimbatore ...                            | 1,217,407                                                                              | 1,225,963  | 2,443,370  |
| 6       | 483,895                                                                      | 465,473    | 949,368    | Cuddapah ...                              | 483,895                                                                                | 465,473    | 949,368    |
| 7       | 941,100                                                                      | 1,112,111  | 2,053,211  | Ganjām ...                                | 941,100                                                                                | 1,112,111  | 2,053,211  |
| 8       | 828,134                                                                      | 851,181    | 1,679,315  | Godavari { Plains.                        | 828,134                                                                                | 851,181    | 1,679,315  |
| 9       | 130,793                                                                      | 119,727    | 240,520    | East. { Agency.                           | 130,793                                                                                | 119,727    | 240,520    |
| 10      | 602,301                                                                      | 620,710    | 1,223,011  | Godavari, West.                           | 602,301                                                                                | 620,710    | 1,223,011  |
| 11      | 1,028,919                                                                    | 1,006,613  | 2,035,532  | Guntur ...                                | 1,028,919                                                                              | 1,006,613  | 2,035,532  |
| 12      | 635,584                                                                      | 618,871    | 1,253,955  | Kistna ...                                | 635,584                                                                                | 618,871    | 1,253,955  |
| 13      | 520,202                                                                      | 504,685    | 1,024,887  | Kurnool ...                               | 520,202                                                                                | 504,685    | 1,024,887  |
| 14      | 333,822                                                                      | 299,170    | 632,992    | Madras ...                                | 333,822                                                                                | 299,170    | 632,992    |
| 15      | 1,080,706                                                                    | 1,118,607  | 2,199,313  | Madura ...                                | 1,080,706                                                                              | 1,118,607  | 2,199,313  |
| 16      | 1,714,449                                                                    | 1,816,354  | 3,530,803  | Malabar ...                               | 1,714,449                                                                              | 1,816,354  | 3,530,803  |
| 17      | 743,994                                                                      | 741,592    | 1,485,586  | Nellore ...                               | 743,994                                                                                | 741,592    | 1,485,586  |
| 18      | 89,448                                                                       | 75,008     | 164,456    | Nilgiris, The ...                         | 89,448                                                                                 | 75,008     | 164,456    |
| 19      | 1,130,978                                                                    | 1,134,766  | 2,265,744  | North Arcot ...                           | 1,130,978                                                                              | 1,134,766  | 2,265,744  |
| 20      | 872,098                                                                      | 866,710    | 1,738,808  | Ramnad ...                                | 872,098                                                                                | 866,710    | 1,738,808  |
| 21      | 1,211,188                                                                    | 1,221,787  | 2,432,925  | Salem ...                                 | 1,211,188                                                                              | 1,221,787  | 2,432,925  |
| 22      | 1,224,591                                                                    | 1,229,020  | 2,453,611  | South Arcot ...                           | 1,224,591                                                                              | 1,229,020  | 2,453,611  |
| 23      | 663,804                                                                      | 708,150    | 1,371,954  | South Kanara ...                          | 663,804                                                                                | 708,150    | 1,371,954  |
| 24      | 1,143,509                                                                    | 1,241,980  | 2,385,489  | Tanjore ...                               | 1,143,509                                                                              | 1,241,980  | 2,385,489  |
| 25      | 986,857                                                                      | 1,059,083  | 2,045,940  | Tinnevely ...                             | 986,857                                                                                | 1,059,083  | 2,045,940  |
| 26      | 933,889                                                                      | 977,375    | 1,911,264  | Trichinopoly ...                          | 933,889                                                                                | 977,375    | 1,911,264  |
| 27      | 1,190,491                                                                    | 1,251,100  | 2,441,591  | Vizagapatam ...                           | 1,190,491                                                                              | 1,251,100  | 2,441,591  |
| 28      | 758,481                                                                      | 764,718    | 1,523,199  | Ganjām and (Vizagapatam) Agencies.        | ...                                                                                    | ...        | ...        |
| 29      | 23,061,736                                                                   | 23,637,338 | 46,699,074 | Grand Total for the Presidency.           | 22,803,255                                                                             | 22,872,825 | 45,676,080 |
| 30      | 3,148,632                                                                    | 3,119,737  | 6,268,369  | Total of town circles in the Presidency.  | 3,148,632                                                                              | 3,119,737  | 6,268,369  |
| 31      | 19,913,104                                                                   | 20,517,601 | 40,430,705 | Total of rural circles in the Presidency. | 19,654,623                                                                             | 19,753,088 | 39,407,711 |

## DIX I

## GENERAL POPULATION.

Districts of the Madras Presidency during the year 1934.

| Number of births registered (exclusive of Europeans and Anglo-Indians and still-births). |          |           | Ratio of births per 1,000 of population. |          |        | Number of male births to every 100 female births. | Excess of births over deaths per 1,000 of population. | Excess of deaths over births per 1,000 of population. | Mean ratio of births per 1,000 during the previous five years. |          |        |
|------------------------------------------------------------------------------------------|----------|-----------|------------------------------------------|----------|--------|---------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------|--------|
| Males.                                                                                   | Females. | Total.    | Males.                                   | Females. | Total. |                                                   |                                                       |                                                       | Males.                                                         | Females. | Total. |
| (9)                                                                                      | (10)     | (11)      | (12)                                     | (13)     | (14)   | (15)                                              | (16)                                                  | (17)                                                  | (18)                                                           | (19)     | (20)   |
| 20,628                                                                                   | 20,113   | 40,741    | 19.65                                    | 19.16    | 19.41  | 102.56                                            | 8.76                                                  | ...                                                   | 20.26                                                          | 19.48    | 19.87  |
| 17,976                                                                                   | 17,231   | 35,207    | 18.55                                    | 17.78    | 18.17  | 104.32                                            | ...                                                   | 0.58                                                  | 22.57                                                          | 21.71    | 22.14  |
| 29,394                                                                                   | 28,396   | 57,790    | 17.80                                    | 17.19    | 17.50  | 103.51                                            | 11.76                                                 | ...                                                   | 18.61                                                          | 17.66    | 18.14  |
| 25,150                                                                                   | 24,198   | 49,348    | 17.38                                    | 16.78    | 17.08  | 103.95                                            | 13.62                                                 | ...                                                   | 18.29                                                          | 17.58    | 17.94  |
| 45,633                                                                                   | 43,522   | 89,155    | 18.68                                    | 17.81    | 18.25  | 104.84                                            | 15.50                                                 | ...                                                   | 18.92                                                          | 17.93    | 18.43  |
| 16,343                                                                                   | 15,648   | 31,991    | 17.21                                    | 16.48    | 16.85  | 104.44                                            | 10.84                                                 | ...                                                   | 18.11                                                          | 17.39    | 17.75  |
| 41,247                                                                                   | 38,636   | 79,883    | 20.09                                    | 18.82    | 19.46  | 106.76                                            | 8.30                                                  | ...                                                   | 20.49                                                          | 19.39    | 19.94  |
| 81,194                                                                                   | 30,028   | 111,222   | 18.58                                    | 17.88    | 18.23  | 103.89                                            | 12.12                                                 | ...                                                   | 19.38                                                          | 18.60    | 18.99  |
| 4,786                                                                                    | 4,579    | 9,365     | 19.90                                    | 19.04    | 19.47  | 104.52                                            | 11.20                                                 | ...                                                   | 21.71                                                          | 20.75    | 21.23  |
| 24,738                                                                                   | 23,557   | 48,295    | 20.23                                    | 19.26    | 19.75  | 105.01                                            | 14.18                                                 | ...                                                   | 20.43                                                          | 19.37    | 19.90  |
| 38,776                                                                                   | 36,497   | 75,273    | 19.05                                    | 17.93    | 18.49  | 106.24                                            | 12.87                                                 | ...                                                   | 20.75                                                          | 19.68    | 20.22  |
| 26,423                                                                                   | 25,399   | 51,822    | 21.07                                    | 20.26    | 20.67  | 104.08                                            | 15.55                                                 | ...                                                   | 21.89                                                          | 21.07    | 21.48  |
| 20,227                                                                                   | 19,568   | 39,795    | 19.74                                    | 19.09    | 19.42  | 103.38                                            | 8.57                                                  | ...                                                   | 21.84                                                          | 21.85    | 21.85  |
| 14,194                                                                                   | 13,529   | 27,723    | 22.42                                    | 21.37    | 21.90  | 104.91                                            | 7.20                                                  | ...                                                   | 19.10                                                          | 17.96    | 18.53  |
| 39,207                                                                                   | 36,655   | 75,862    | 17.87                                    | 16.70    | 17.29  | 106.96                                            | 9.59                                                  | ...                                                   | 19.27                                                          | 18.82    | 19.05  |
| 72,210                                                                                   | 68,840   | 141,050   | 28.45                                    | 19.60    | 24.03  | 104.90                                            | 17.82                                                 | ...                                                   | 17.23                                                          | 16.26    | 16.75  |
| 26,398                                                                                   | 24,953   | 51,351    | 17.77                                    | 16.80    | 17.29  | 105.79                                            | 11.18                                                 | ...                                                   | 15.46                                                          | 14.75    | 15.11  |
| 2,822                                                                                    | 2,725    | 5,547     | 17.16                                    | 16.57    | 16.87  | 103.56                                            | 9.39                                                  | ...                                                   | 19.18                                                          | 18.85    | 19.02  |
| 44,210                                                                                   | 42,815   | 87,025    | 18.51                                    | 18.90    | 18.71  | 103.26                                            | 15.51                                                 | ...                                                   | 17.23                                                          | 16.26    | 16.75  |
| 28,864                                                                                   | 27,484   | 56,348    | 15.70                                    | 14.95    | 15.33  | 105.02                                            | 9.29                                                  | ...                                                   | 15.46                                                          | 14.75    | 15.11  |
| 42,868                                                                                   | 40,911   | 83,779    | 17.62                                    | 16.82    | 17.22  | 104.78                                            | 14.28                                                 | ...                                                   | 19.18                                                          | 18.85    | 19.02  |
| 89,082                                                                                   | 87,211   | 176,293   | 15.93                                    | 15.17    | 15.55  | 105.08                                            | 6.46                                                  | ...                                                   | 17.23                                                          | 16.26    | 16.75  |
| 26,190                                                                                   | 25,048   | 51,238    | 19.09                                    | 18.26    | 18.68  | 104.56                                            | 15.79                                                 | ...                                                   | 20.83                                                          | 19.94    | 20.39  |
| 34,702                                                                                   | 32,615   | 67,317    | 14.55                                    | 13.67    | 14.11  | 106.40                                            | 1.91                                                  | ...                                                   | 15.51                                                          | 14.57    | 15.04  |
| 41,008                                                                                   | 38,826   | 79,834    | 20.04                                    | 18.98    | 19.51  | 105.61                                            | 13.63                                                 | ...                                                   | 19.76                                                          | 18.89    | 19.33  |
| 62,198                                                                                   | 30,829   | 93,027    | 16.85                                    | 15.87    | 16.36  | 106.16                                            | 6.95                                                  | ...                                                   | 16.66                                                          | 16.01    | 16.34  |
| 49,981                                                                                   | 48,243   | 98,224    | 20.47                                    | 19.76    | 20.12  | 108.59                                            | 10.16                                                 | ...                                                   | 20.31                                                          | 19.87    | 20.09  |
| ...                                                                                      | ...      | ...       | ...                                      | ...      | ...    | ...                                               | ...                                                   | ...                                                   | ...                                                            | ...      | ...    |
| 836,444                                                                                  | 797,552  | 1,633,996 | 18.52                                    | 17.65    | 18.09  | 104.88                                            | 11.22                                                 | ...                                                   | 19.16                                                          | 18.27    | 18.72  |
| 118,746                                                                                  | 112,803  | 231,549   | 18.94                                    | 18.00    | 18.47  | 105.27                                            | 9.63                                                  | ...                                                   | 18.99                                                          | 18.11    | 18.55  |
| 717,698                                                                                  | 684,749  | 1,402,447 | 18.45                                    | 17.60    | 18.03  | 104.81                                            | 11.48                                                 | ...                                                   | 19.17                                                          | 18.28    | 18.73  |

Statement No. I (a) showing the still-births registered according to classes and sex in the Municipalities of the Madras Presidency during the year 1934 (prescribed in G.O. Ms. No. 1748 P.H., dated 18th July 1934).

| Serial number.                 | Municipalities.    | Still-births. |          |                   |          |                  |          |                   |          |        |          | Percentage total to live births. |
|--------------------------------|--------------------|---------------|----------|-------------------|----------|------------------|----------|-------------------|----------|--------|----------|----------------------------------|
|                                |                    | Hindus.       |          | Muham-<br>madans. |          | Chris-<br>tians. |          | Other<br>classes. |          | Total. |          |                                  |
|                                |                    | Males.        | Females. | Males.            | Females. | Males.           | Females. | Males.            | Females. | Males. | Females. |                                  |
| <i>Anantapur District.</i>     |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 1                              | Hindupur ... ..    | 6             | 4        | 1                 | 2        | ...              | ...      | ...               | ...      | 7      | 6        | 2.07                             |
| 2                              | Anantapur ... ..   | 6             | 7        | 2                 | 1        | ...              | 1        | ...               | ...      | 8      | 9        | 3.11                             |
| 3                              | Tadpatri ... ..    | 4             | 4        | 2                 | 1        | ...              | ...      | ...               | ...      | 6      | 5        | 2.84                             |
| <i>Bellary District.</i>       |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 4                              | Bellary ... ..     | 26            | 16       | 12                | 5        | 1                | ...      | ...               | ...      | 39     | 23       | 3.31                             |
| 5                              | Adoni ... ..       | 15            | 12       | 6                 | 7        | ...              | ...      | ...               | ...      | 21     | 19       | 2.72                             |
| 6                              | Hospet ... ..      | 10            | 7        | 5                 | 4        | ...              | ...      | ...               | ...      | 15     | 11       | 3.02                             |
| <i>Chingleput District.</i>    |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 7                              | Conjeeveram ... .. | 82            | 59       | 3                 | 2        | 1                | ...      | ...               | ...      | 86     | 61       | 5.68                             |
| 8                              | Saidapet ... ..    | 16            | 10       | 2                 | ...      | ...              | ...      | ...               | ...      | 18     | 10       | 2.31                             |
| 9                              | Chingleput ... ..  | 50            | 44       | 2                 | ...      | ...              | ...      | ...               | ...      | 52     | 44       | 13.15                            |
| <i>Chittoor District.</i>      |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 10                             | Chittoor ... ..    | 41            | 21       | 4                 | 1        | ...              | 1        | ...               | ...      | 45     | 23       | 9.86                             |
| 11                             | Tirupati ... ..    | 20            | 22       | ...               | 1        | ...              | ...      | ...               | 1        | 20     | 24       | 6.68                             |
| <i>Coimbatore District.</i>    |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 12                             | Coimbatore ... ..  | 64            | 47       | 1                 | 5        | 7                | 6        | ...               | ...      | 72     | 58       | 3.38                             |
| 13                             | Erode ... ..       | 7             | 13       | 2                 | ...      | ...              | ...      | ...               | ...      | 9      | 18       | 2.45                             |
| 14                             | Dharapuram ... ..  | 12            | 7        | 1                 | 2        | ...              | ...      | ...               | ...      | 13     | 9        | 3.31                             |
| 15                             | Pollachi ... ..    | 15            | 18       | 2                 | 1        | ...              | 1        | ...               | ...      | 17     | 15       | 3.58                             |
| 16                             | Tiruppur ... ..    | 25            | 9        | 4                 | 1        | 4                | ...      | ...               | ...      | 33     | 10       | 7.48                             |
| 17                             | Udamalpet ... ..   | 7             | 7        | 7                 | 1        | ...              | ...      | ...               | ...      | 14     | 8        | 4.68                             |
| <i>Cuddapah District.</i>      |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 18                             | Cuddapah ... ..    | 17            | 19       | 12                | 10       | 1                | 1        | ...               | ...      | 30     | 30       | 6.42                             |
| 19                             | Proddatur ... ..   | 14            | 8        | 5                 | ...      | ...              | 1        | ...               | ...      | 19     | 9        | 3.47                             |
| <i>Ganjam District.</i>        |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 20                             | Berhampur ... ..   | 17            | 23       | ...               | 2        | ...              | ...      | 2                 | ...      | 19     | 25       | 3.25                             |
| 21                             | Parlakimedi ... .. | 8             | 7        | ...               | ...      | ...              | ...      | ...               | ...      | 8      | 7        | 2.28                             |
| 22                             | Chicacole ... ..   | ...           | 2        | ...               | ...      | ...              | ...      | ...               | ...      | ...    | 2        | 0.40                             |
| <i>East Godavari District.</i> |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 23                             | Rajahmundry ... .. | 52            | 39       | 5                 | 4        | 2                | 1        | ...               | ...      | 59     | 44       | 4.12                             |
| 24                             | Cocanada ... ..    | 6             | 8        | ...               | ...      | ...              | ...      | ...               | ...      | 6      | 8        | 0.70                             |
| 25                             | Peddapuram ... ..  | 3             | 2        | ...               | ...      | ...              | ...      | ...               | ...      | 3      | 2        | 0.93                             |

Statement No. I (a) showing the still births registered according to classes and sex in the municipalities of the Madras Presidency during the year 1934 (prescribed in G.O. Ms. No. 1748 P.H., dated 18th July 1934)—cont.

| Serial number.                 | Municipalities.      | Still-births. |          |                   |          |                  |          |                   |          |        |          | Percentage total to live births. |  |
|--------------------------------|----------------------|---------------|----------|-------------------|----------|------------------|----------|-------------------|----------|--------|----------|----------------------------------|--|
|                                |                      | Hindus.       |          | Muham-<br>madans. |          | Christi-<br>ans. |          | Other<br>classes. |          | Total. |          |                                  |  |
|                                |                      | Males.        | Females. | Males.            | Females. | Males.           | Females. | Males.            | Females. | Males. | Females. |                                  |  |
| <i>West Godavari District.</i> |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 26                             | Ellore ... ..        | 21            | 9        | 3                 | ...      | 1                | ...      | ...               | ...      | 25     | 9        | 1.75                             |  |
| 27                             | Palacole ... ..      | 3             | 1        | ...               | ...      | ...              | ...      | ...               | ...      | 3      | 1        | 0.85                             |  |
| <i>Guntur District.</i>        |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 28                             | Guntur ... ..        | 102           | 99       | 18                | 16       | 16               | 13       | ...               | ...      | 136    | 128      | 9.69                             |  |
| 29                             | Tenali ... ..        | 11            | 10       | 2                 | 2        | 1                | ...      | ...               | ...      | 14     | 22       | 4.03                             |  |
| 30                             | Chirala ... ..       | 16            | 21       | 1                 | 5        | 1                | 3        | ...               | ...      | 18     | 29       | 6.44                             |  |
| 31                             | Ongole ... ..        | 34            | 35       | 3                 | 3        | 8                | 4        | 1                 | ...      | 46     | 42       | 12.45                            |  |
| 32                             | Narasaraopet ... ..  | 19            | 15       | 5                 | 3        | 4                | 1        | 1                 | ...      | 29     | 19       | 8.35                             |  |
| <i>Kistna District.</i>        |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 33                             | Bezwada ... ..       | 16            | 21       | 1                 | 2        | 2                | 1        | ...               | ...      | 19     | 24       | 1.56                             |  |
| 34                             | Masulipatam ... ..   | 49            | 44       | 13                | 9        | ...              | 1        | ...               | ...      | 62     | 54       | 4.91                             |  |
| <i>Kurnool District.</i>       |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 35                             | Kurnool ... ..       | 4             | 9        | 6                 | 6        | ...              | ...      | ...               | ...      | 10     | 15       | 1.49                             |  |
| 36                             | Nandyal ... ..       | 15            | 12       | 7                 | 9        | 3                | 4        | 1                 | 1        | 26     | 26       | 5.69                             |  |
| <i>Madras.</i>                 |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 37                             | Madras ... ..        | 623           | 517      | 95                | 69       | 29               | 34       | ...               | ...      | 747    | 620      | 4.93                             |  |
| <i>Madura District.</i>        |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 38                             | Madura ... ..        | 160           | 140      | 18                | 12       | 5                | 13       | ...               | ...      | 183    | 165      | 5.40                             |  |
| 39                             | Dindigul ... ..      | 30            | 30       | 5                 | 3        | 4                | 4        | ...               | ...      | 39     | 37       | 4.02                             |  |
| 40                             | Bodinayakanur ... .. | 9             | 6        | ...               | 2        | 1                | ...      | ...               | ...      | 10     | 8        | 1.53                             |  |
| 41                             | Palni ... ..         | 7             | 4        | ...               | ...      | ...              | ...      | ...               | ...      | 7      | 4        | 1.60                             |  |
| 42                             | Periyakulam ... ..   | 18            | 13       | ...               | ...      | 1                | 1        | ...               | ...      | 19     | 14       | 3.26                             |  |
| 43                             | Kodaikanal ... ..    | 3             | 1        | ...               | ...      | 2                | 4        | 1                 | ...      | 6      | 5        | 3.74                             |  |
| <i>Malabar District.</i>       |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 44                             | Calicut ... ..       | 60            | 43       | 76                | 81       | 8                | 3        | ...               | ...      | 144    | 132      | 6.70                             |  |
| 45                             | Palghat ... ..       | 47            | 34       | 14                | 7        | ...              | 1        | ...               | ...      | 61     | 42       | 5.06                             |  |
| 46                             | Cannanore ... ..     | 27            | 22       | 19                | 15       | 2                | ...      | ...               | ...      | 48     | 37       | 6.20                             |  |
| 47                             | Tellicherry ... ..   | 20            | 26       | 21                | 18       | ...              | 2        | ...               | ...      | 41     | 46       | 7.23                             |  |
| 48                             | Cochin ... ..        | 4             | 4        | 7                 | 8        | 11               | 8        | ...               | ...      | 22     | 20       | 4.64                             |  |
| <i>Nellore District.</i>       |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 49                             | Nellore ... ..       | 74            | 59       | 18                | 21       | 1                | 5        | ...               | ...      | 98     | 85       | 3.80                             |  |
| <i>Nilgiris, The.</i>          |                      |               |          |                   |          |                  |          |                   |          |        |          |                                  |  |
| 50                             | Ootacamund ... ..    | 7             | 5        | 2                 | 4        | 4                | 6        | 9                 | 8        | 22     | 18       | 3.80                             |  |
| 51                             | Coonoor ... ..       | 2             | 4        | ...               | ...      | 2                | 2        | ...               | ...      | 4      | 6        | 1.97                             |  |

Statement No. I (a) showing the still-births registered according to classes and sex in the municipalities of the Madras Presidency during the year 1934 (prescribed in G.O. Ms. No. 1748 P.H., dated 18th July 1934)--cont.

| Serial number.         | Municipalities.    | Still-births. |          |                   |          |                  |          |                   |          |        |          | Percentage total to live births. |
|------------------------|--------------------|---------------|----------|-------------------|----------|------------------|----------|-------------------|----------|--------|----------|----------------------------------|
|                        |                    | Hindus.       |          | Muham-<br>madans. |          | Christi-<br>ans. |          | Other<br>classes. |          | Total. |          |                                  |
|                        |                    | Males.        | Females. | Males.            | Females. | Males.           | Females. | Males.            | Females. | Males. | Females. |                                  |
| North Arcot District.  |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 52                     | Vellore ... ..     | 104           | 82       | 23                | 12       | 6                | 1        | ..                | ..       | 133    | 95       | 7.18                             |
| 53                     | Gadiyattam ...     | 13            | 10       | 1                 | 1        | ..               | ..       | ..                | ..       | 14     | 11       | 3.02                             |
| 54                     | Tiruvannamalai ... | 16            | 8        | 1                 | 2        | ..               | ..       | 3                 | ..       | 20     | 10       | 2.66                             |
| 55                     | Vaniyambadi ...    | 7             | 6        | 7                 | 6        | ..               | ..       | ..                | ..       | 14     | 12       | 4.08                             |
| 56                     | Tirupattur ...     | 48            | 25       | 7                 | 5        | ..               | ..       | ..                | ..       | 55     | 30       | 12.28                            |
| 57                     | Walajapet ...      | 8             | 3        | ..                | ..       | ..               | ..       | ..                | ..       | 3      | 8        | 1.46                             |
| Ramnad District.       |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 58                     | Srivilliputtur ... | 2             | 8        | ..                | ..       | 1                | ..       | ..                | ..       | 3      | 8        | 0.92                             |
| 59                     | Virudhunagar ...   | 21            | 22       | 2                 | ..       | 3                | 1        | ..                | ..       | 26     | 28       | 3.97                             |
| 60                     | Sivakasi ...       | ..            | 1        | ..                | ..       | ..               | ..       | ..                | ..       | ..     | 1        | 0.23                             |
| 61                     | Karaikudi ...      | 11            | 7        | 1                 | 1        | ..               | ..       | ..                | ..       | 12     | 8        | 3.11                             |
| Salem District.        |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 62                     | Salem ... ..       | 89            | 59       | 3                 | 4        | 2                | 3        | ..                | ..       | 74     | 66       | 3.62                             |
| South Arcot District.  |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 63                     | Cuddalore ...      | 89            | 80       | 1                 | 1        | ..               | 1        | 3                 | 4        | 43     | 36       | 3.78                             |
| 64                     | Chidambaram ...    | 23            | 13       | 1                 | ..       | ..               | ..       | ..                | ..       | 24     | 13       | 4.70                             |
| 65                     | Villupuram ...     | 12            | 6        | 2                 | 1        | ..               | ..       | ..                | 1        | 14     | 8        | 3.53                             |
| South Kanara District. |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 66                     | Mangalore ...      | 35            | 27       | 8                 | 4        | 10               | 9        | ..                | ..       | 53     | 40       | 3.67                             |
| Tanjore District.      |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 67                     | Kumbakonam ...     | 100           | 85       | 3                 | 4        | 7                | 2        | ..                | ..       | 110    | 91       | 3.65                             |
| 68                     | Tanjore ...        | 80            | 65       | 4                 | 6        | 7                | 8        | ..                | ..       | 91     | 79       | 6.05                             |
| 69                     | Negapatam ...      | 42            | 24       | 13                | 7        | 2                | ..       | ..                | ..       | 57     | 31       | 5.49                             |
| 70                     | Mayavaram ...      | 12            | 8        | ..                | 1        | ..               | ..       | ..                | ..       | 12     | 9        | 2.31                             |
| 71                     | Tiruvarur ...      | 9             | 7        | 2                 | 2        | 1                | ..       | ..                | ..       | 12     | 9        | 4.55                             |
| 72                     | Mannargudi ...     | 26            | 20       | ..                | 1        | 1                | ..       | ..                | ..       | 27     | 21       | 5.46                             |
| Tinnevelly District.   |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 73                     | Tinnevelly ...     | 44            | 20       | 7                 | ..       | ..               | ..       | ..                | ..       | 51     | 20       | 3.40                             |
| 74                     | Palamcottah ...    | 33            | 28       | 13                | 2        | 5                | 3        | ..                | ..       | 49     | 33       | 4.15                             |
| 75                     | Tutdoorin ...      | 42            | 32       | 1                 | 2        | 12               | 13       | ..                | ..       | 55     | 47       | 4.23                             |
| Trichinopoly District. |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 76                     | Trichinopoly ...   | 63            | 44       | 11                | 10       | 15               | 4        | ..                | ..       | 38     | 58       | 3.14                             |
| 77                     | Srirangam ...      | 10            | 21       | ..                | ..       | ..               | ..       | ..                | ..       | 10     | 21       | 4.00                             |
| 78                     | Karur ... ..       | 4             | 7        | 2                 | 1        | ..               | ..       | ..                | ..       | 6      | 6        | 2.37                             |
| Visagapatam District.  |                    |               |          |                   |          |                  |          |                   |          |        |          |                                  |
| 79                     | Visagapatam ...    | 50            | 33       | ..                | ..       | ..               | 1        | ..                | ..       | 50     | 34       | 3.99                             |
| 80                     | Visianagaram ...   | 30            | 17       | 2                 | ..       | ..               | ..       | ..                | ..       | 32     | 17       | 2.90                             |
| 81                     | Anakapalle ...     | 14            | 14       | ..                | ..       | ..               | ..       | ..                | ..       | 14     | 14       | 3.46                             |
| 82                     | Bimlipatam ...     | 11            | 11       | ..                | 1        | 2                | ..       | ..                | ..       | 13     | 12       | 6.65                             |

No. II.—Statement of Births and Deaths registered in the District of the Madras Presidency during the year 1934.

| Number. | Districts.                                      | Area in square miles. |       | Average popu-<br>lation per<br>square mile. | Population (exclusive of Europeans and<br>Anglo-Indians) for which returns were received. |            | Births.<br>Total number. | Birth-rate<br>per 1,000<br>of popu-<br>lation. | Number of deaths registered. |          | Total.    |
|---------|-------------------------------------------------|-----------------------|-------|---------------------------------------------|-------------------------------------------------------------------------------------------|------------|--------------------------|------------------------------------------------|------------------------------|----------|-----------|
|         |                                                 | (3)                   | (4)   |                                             | Males.                                                                                    | Females.   |                          |                                                | Males.                       | Females. |           |
| 1       | Anantapur ...                                   | 6,741                 | 155.8 | 539,256                                     | 510,924                                                                                   | 1,049,880  | 40,741                   | 39.81                                          | 15,792                       | 15,762   | 31,554    |
| 2       | Bellary ...                                     | 5,713                 | 169.7 | 492,407                                     | 476,677                                                                                   | 969,284    | 35,207                   | 36.82                                          | 16,133                       | 17,386   | 33,519    |
| 3       | Chingleput ...                                  | 3,091                 | 535.1 | 835,017                                     | 816,414                                                                                   | 1,651,431  | 57,790                   | 34.99                                          | 19,758                       | 18,605   | 38,363    |
| 4       | Chittoor ...                                    | 5,901                 | 245.2 | 738,216                                     | 708,674                                                                                   | 1,446,890  | 49,343                   | 34.10                                          | 15,063                       | 14,574   | 29,637    |
| 5       | Coimbatore ...                                  | 7,085                 | 345.1 | 1,217,407                                   | 1,235,963                                                                                 | 2,448,370  | 89,155                   | 36.49                                          | 26,083                       | 25,257   | 51,340    |
| 6       | Cuddapah ...                                    | 5,919                 | 160.4 | 483,895                                     | 465,473                                                                                   | 949,368    | 31,991                   | 33.70                                          | 10,915                       | 10,786   | 21,701    |
| 7       | Gadag ...                                       | 4,799                 | 427.8 | 941,100                                     | 1,112,111                                                                                 | 2,053,211  | 79,883                   | 36.91                                          | 31,460                       | 31,417   | 62,877    |
| 8       | Gadavari, Plains Agency                         | 2,344                 | 660.0 | 828,134                                     | 851,181                                                                                   | 1,679,315  | 61,220                   | 36.46                                          | 20,465                       | 20,719   | 41,183    |
| 9       | Gadavari, West                                  | 3,675                 | 65.4  | 120,793                                     | 119,727                                                                                   | 240,520    | 9,835                    | 38.94                                          | 3,463                        | 3,211    | 6,674     |
| 10      | Guntur ...                                      | 3,861                 | 518.0 | 602,301                                     | 620,710                                                                                   | 1,223,011  | 48,295                   | 39.49                                          | 15,591                       | 15,397   | 30,988    |
| 11      | Kistna ...                                      | 5,757                 | 363.6 | 1,028,919                                   | 1,006,618                                                                                 | 2,035,537  | 75,273                   | 36.98                                          | 25,421                       | 23,668   | 49,089    |
| 12      | Kurnool ...                                     | 3,547                 | 383.5 | 635,584                                     | 618,871                                                                                   | 1,253,955  | 51,823                   | 41.33                                          | 16,396                       | 16,007   | 32,393    |
| 13      | Madras ...                                      | 7,581                 | 135.2 | 530,202                                     | 504,685                                                                                   | 1,024,887  | 39,793                   | 35.93                                          | 15,593                       | 15,425   | 31,018    |
| 14      | Madura ...                                      | 4,912                 | 29    | 333,822                                     | 389,176                                                                                   | 723,000    | 27,722                   | 43.79                                          | 12,301                       | 11,116   | 23,416    |
| 15      | Malabar ...                                     | 5,794                 | 609.8 | 1,080,706                                   | 1,113,607                                                                                 | 2,194,313  | 73,862                   | 34.57                                          | 28,225                       | 26,628   | 54,853    |
| 16      | Nellore ...                                     | 7,949                 | 186.9 | 1,714,449                                   | 1,818,354                                                                                 | 3,532,803  | 141,050                  | 39.95                                          | 40,710                       | 39,192   | 79,902    |
| 17      | Nilgiris, The                                   | 982                   | 169.1 | 89,448                                      | 75,008                                                                                    | 1,64,456   | 5,547                    | 39.78                                          | 18,313                       | 16,627   | 34,940    |
| 18      | North Arcot ...                                 | 4,848                 | 487.6 | 1,130,378                                   | 1,184,766                                                                                 | 2,315,144  | 87,025                   | 38.41                                          | 26,424                       | 25,465   | 51,889    |
| 19      | Ramanathapuram ...                              | 4,819                 | 381.5 | 872,098                                     | 966,710                                                                                   | 1,838,808  | 55,348                   | 30.64                                          | 19,908                       | 19,348   | 39,256    |
| 20      | Salem ...                                       | 7,058                 | 344.7 | 1,211,185                                   | 1,231,737                                                                                 | 2,442,922  | 83,779                   | 34.44                                          | 24,672                       | 24,379   | 49,051    |
| 21      | South Arcot ...                                 | 4,208                 | 563.3 | 1,224,591                                   | 1,229,030                                                                                 | 2,453,621  | 75,293                   | 31.69                                          | 30,745                       | 29,719   | 60,464    |
| 22      | South Kanara ...                                | 4,021                 | 341.2 | 663,804                                     | 708,160                                                                                   | 1,371,964  | 51,238                   | 37.35                                          | 14,742                       | 14,837   | 29,579    |
| 23      | Tanjore ...                                     | 3,742                 | 637.5 | 1,143,503                                   | 1,241,930                                                                                 | 2,385,439  | 67,317                   | 28.22                                          | 30,774                       | 32,010   | 62,784    |
| 24      | Tinnevely ...                                   | 4,315                 | 474.3 | 986,857                                     | 1,089,083                                                                                 | 2,075,940  | 79,829                   | 39.02                                          | 26,208                       | 25,760   | 51,968    |
| 25      | Trichinopoly ...                                | 4,314                 | 443.4 | 938,888                                     | 977,375                                                                                   | 1,916,263  | 62,527                   | 32.71                                          | 24,546                       | 24,710   | 49,256    |
| 26      | Visagapatam ...                                 | 4,575                 | 523.9 | 1,190,491                                   | 1,231,100                                                                                 | 2,421,591  | 88,229                   | 40.23                                          | 37,305                       | 36,137   | 73,442    |
| 27      | Agencies (Ganjam and<br>Visagapatam) ...        | 16,194                | 94.1  | ...                                         | ...                                                                                       | ...        | ...                      | ...                                            | ...                          | ...      | ...       |
|         | Grand Total for the<br>Presidency ...           | 142,277               | 328.4 | 22,303,255                                  | 22,872,695                                                                                | 45,175,880 | 1,633,996                | 36.17                                          | 570,915                      | 556,254  | 1,127,169 |
|         | Total of town circles<br>in the Presidency ...  | ...                   | ...   | 3,148,632                                   | 3,119,737                                                                                 | 6,268,369  | 231,549                  | 36.94                                          | 87,592                       | 83,602   | 171,194   |
|         | Total of rural circles<br>in the Presidency ... | ...                   | ...   | 19,154,623                                  | 19,752,888                                                                                | 38,907,511 | 1,402,447                | 36.05                                          | 483,323                      | 472,652  | 955,975   |

No. II.—Statement of Births and Deaths registered in the District of the Madras Presidency during the year 1934—cont.

| Number. | Districts.                                | Ratio of deaths per 1,000 of population from |           |         |                        |                       |           |                          |                   |             |          |        | Mean ratio of deaths per 1,000 during previous five years. |          |        |       |
|---------|-------------------------------------------|----------------------------------------------|-----------|---------|------------------------|-----------------------|-----------|--------------------------|-------------------|-------------|----------|--------|------------------------------------------------------------|----------|--------|-------|
|         |                                           | Cholera.                                     | Smallpox. | Plague. | Typhoid and dysentery. | Respiratory diseases. | Injuries. | Deaths from child birth. | All other causes. | All causes. |          |        | Males.                                                     | Females. | Total. |       |
|         |                                           |                                              |           |         |                        |                       |           |                          |                   | Males.      | Females. | Total. |                                                            |          |        |       |
| (13)    | (14)                                      | (15)                                         | (16)      | (17)    | (18)                   | (19)                  | (20)      | (21)                     | (22)              | (23)        | (24)     | (25)   | (26)                                                       | (27)     | (28)   |       |
| 1       | Anantapur                                 | 0.01                                         | 1.02      | 0.06    | 10.36                  | 1.51                  | 2.75      | 0.85                     | 0.58              | 13.41       | 29.28    | 30.87  | 30.05                                                      | 27.86    | 28.38  | 27.88 |
| 2       | Bellary                                   | 0.003                                        | 1.04      | 1.17    | 10.53                  | 2.75                  | 3.63      | 0.81                     | 0.32              | 17.16       | 36.80    | 37.00  | 36.90                                                      | 30.15    | 30.22  | 30.19 |
| 3       | Chingleput                                | 0.50                                         | 0.56      | ...     | 5.09                   | 1.82                  | 1.88      | 0.32                     | 0.23              | 14.93       | 23.66    | 22.79  | 23.23                                                      | 23.65    | 23.29  | 23.56 |
| 4       | Chittoor                                  | 0.21                                         | 0.31      | 0.006   | 5.25                   | 2.20                  | 2.63      | 0.30                     | 0.25              | 4.32        | 20.40    | 20.56  | 20.48                                                      | 23.18    | 23.54  | 23.37 |
| 5       | Coimbatore                                | 0.06                                         | 0.25      | 0.06    | 4.78                   | 2.91                  | 2.88      | 0.38                     | 0.20              | 9.57        | 21.38    | 20.60  | 20.99                                                      | 22.16    | 21.05  | 21.60 |
| 6       | Cuddapah                                  | 0.001                                        | 1.16      | ...     | 10.32                  | 1.14                  | 1.83      | 0.24                     | 0.38              | 7.75        | 22.55    | 23.17  | 22.53                                                      | 22.81    | 23.05  | 22.93 |
| 7       | Ganjam                                    | 1.93                                         | 0.12      | ...     | 16.39                  | 2.63                  | 1.69      | 0.15                     | 0.23              | 7.47        | 33.43    | 26.22  | 30.61                                                      | 28.28    | 22.32  | 24.61 |
| 8       | Godavari, Plains                          | 0.09                                         | 0.17      | ...     | 9.05                   | 1.84                  | 3.08      | 0.22                     | 0.38              | 10.06       | 24.71    | 24.32  | 24.34                                                      | 24.56    | 22.65  | 23.22 |
| 9       | Godavari, Agency                          | ...                                          | 0.08      | ...     | 17.57                  | 1.26                  | 3.86      | 0.17                     | 0.17              | 4.63        | 28.67    | 25.80  | 27.74                                                      | 28.75    | 26.67  | 28.13 |
| 10      | Godavari, West                            | 0.25                                         | 0.42      | ...     | 8.16                   | 1.76                  | 2.88      | 0.21                     | 0.37              | 12.66       | 25.88    | 24.80  | 25.31                                                      | 28.75    | 24.58  | 24.89 |
| 11      | Guntur                                    | 0.28                                         | 0.63      | ...     | 8.16                   | 1.74                  | 2.48      | 0.24                     | 0.30              | 10.23       | 24.70    | 23.50  | 24.11                                                      | 25.41    | 24.31  | 23.91 |
| 12      | Kistna                                    | 0.30                                         | 0.45      | ...     | 7.54                   | 1.74                  | 3.32      | 0.24                     | 0.41              | 11.78       | 25.69    | 25.38  | 25.78                                                      | 24.31    | 23.72  | 23.91 |
| 13      | Kurnool                                   | 0.01                                         | 2.29      | ...     | 12.51                  | 1.71                  | 2.27      | 0.36                     | 0.33              | 10.78       | 29.97    | 30.56  | 30.26                                                      | 28.72    | 28.59  | 28.64 |
| 14      | Madras                                    | 0.26                                         | 0.20      | ...     | 3.58                   | 3.18                  | 10.31     | 0.42                     | 0.49              | 17.60       | 36.84    | 37.15  | 36.59                                                      | 38.15    | 39.98  | 39.01 |
| 15      | Madras                                    | 0.002                                        | 0.12      | 0.87    | 4.17                   | 3.68                  | 3.68      | 0.37                     | 0.24              | 12.35       | 26.11    | 23.90  | 24.98                                                      | 24.97    | 23.13  | 24.06 |
| 16      | Malabar                                   | 0.001                                        | 0.14      | 0.01    | 6.43                   | 2.47                  | 2.31      | 0.28                     | 0.25              | 10.69       | 23.73    | 21.57  | 22.63                                                      | 23.77    | 22.03  | 22.99 |
| 17      | Nellore                                   | 0.82                                         | 0.46      | ...     | 5.69                   | 2.33                  | 2.36      | 0.31                     | 0.26              | 11.71       | 24.48    | 22.42  | 23.44                                                      | 23.45    | 22.52  | 23.38 |
| 18      | Nilgiris, The                             | ...                                          | 0.14      | 0.01    | 7.99                   | 3.50                  | 5.16      | 0.30                     | 0.16              | 7.28        | 23.78    | 25.05  | 24.34                                                      | 26.16    | 27.99  | 26.96 |
| 19      | North Arcot                               | 0.44                                         | 0.40      | 0.01    | 4.97                   | 2.34                  | 1.84      | 0.36                     | 0.38              | 12.21       | 23.36    | 22.43  | 22.90                                                      | 23.39    | 22.65  | 23.04 |
| 20      | Ramannd                                   | 0.11                                         | 0.21      | 0.04    | 7.39                   | 1.87                  | 2.15      | 0.21                     | 0.25              | 9.27        | 22.83    | 20.01  | 21.35                                                      | 22.25    | 20.08  | 21.01 |
| 21      | Salem                                     | 0.10                                         | 0.35      | 0.04    | 6.56                   | 1.42                  | 1.23      | 0.35                     | 0.22              | 9.91        | 20.36    | 19.95  | 20.16                                                      | 21.71    | 21.39  | 21.49 |
| 22      | South Arcot                               | 0.26                                         | 0.51      | ...     | 4.14                   | 2.21                  | 1.68      | 0.27                     | 0.31              | 13.25       | 25.10    | 24.18  | 24.63                                                      | 23.48    | 22.64  | 23.07 |
| 23      | South Kanara                              | 0.0015                                       | 0.27      | ...     | 5.95                   | 2.00                  | 1.78      | 0.37                     | 0.28              | 10.98       | 22.21    | 20.95  | 21.56                                                      | 22.45    | 20.85  | 21.84 |
| 24      | Tanjore                                   | 0.63                                         | 0.47      | ...     | 2.57                   | 1.90                  | 1.16      | 0.24                     | 0.63              | 19.44       | 26.90    | 25.77  | 26.31                                                      | 24.72    | 23.74  | 24.21 |
| 25      | Tinnevelly                                | 0.006                                        | 0.31      | ...     | 4.22                   | 2.37                  | 1.78      | 0.21                     | 0.38              | 16.11       | 26.56    | 24.31  | 25.33                                                      | 26.29    | 24.21  | 25.23 |
| 26      | Tritchinopoly                             | 1.06                                         | 0.14      | ...     | 5.01                   | 2.69                  | 2.08      | 0.35                     | 0.40              | 14.08       | 36.28    | 25.28  | 25.76                                                      | 24.31    | 23.20  | 23.73 |
| 27      | Vizagapatam                               | 0.24                                         | 0.10      | ...     | 17.06                  | 1.61                  | 2.31      | 0.23                     | 0.22              | 8.55        | 31.32    | 28.86  | 30.07                                                      | 26.51    | 23.97  | 25.71 |
|         | Agencies (Ganjam and Vizagapatam)         | ...                                          | ...       | ...     | ...                    | ...                   | ...       | ...                      | ...               | ...         | ...      | ...    | ...                                                        | ...      | ...    | ...   |
|         | Grand Total for the Presidency            | 0.40                                         | 0.40      | 0.05    | 7.19                   | 2.17                  | 3.86      | 0.28                     | 0.31              | 11.77       | 25.59    | 24.31  | 24.95                                                      | 24.62    | 23.61  | 24.03 |
|         | Total of town circles in the Presidency.  | 0.32                                         | 0.61      | 0.13    | 4.19                   | 2.82                  | 4.18      | 0.40                     | 0.49              | 14.18       | 27.31    | 26.80  | 27.31                                                      | 27.31    | 26.31  | 26.76 |
|         | Total of rural circles in the Presidency. | 0.41                                         | 0.37      | 0.04    | 7.68                   | 2.06                  | 2.10      | 0.26                     | 0.28              | 11.37       | 25.33    | 23.93  | 24.57                                                      | 24.37    | 23.01  | 23.65 |

No. III.—DEATHS REGISTERED IN DISTRICTS, EXCLUSIVE OF MUNICIPALITIES, AND IN THE MUNICIPALITIES OF THE MADRAS PRESIDENCY DURING EACH MONTH OF THE YEAR 1934.

No. III.—Deaths registered in Districts, exclusive of Municipalities, and in the

| Number. | Districts exclusive of municipalities.           | January. | February. | March. | April. | May.   |
|---------|--------------------------------------------------|----------|-----------|--------|--------|--------|
| (1)     | (2)                                              | (3)      | (4)       | (5)    | (6)    | (7)    |
| 1       | Anantapur ... ..                                 | 2,401    | 2,525     | 4,875  | 3,060  | 2,713  |
| 2       | Bellary ... ..                                   | 3,193    | 2,679     | 3,488  | 2,677  | 2,416  |
| 3       | Chingleput ... ..                                | 3,513    | 3,120     | 2,968  | 2,453  | 2,652  |
| 4       | Chittoor ... ..                                  | 2,616    | 2,326     | 2,140  | 2,111  | 2,089  |
| 5       | Coimbatore ... ..                                | 4,384    | 3,743     | 3,986  | 3,530  | 3,498  |
| 6       | Cuddapah ... ..                                  | 1,568    | 1,291     | 1,851  | 1,630  | 1,834  |
| 7       | Ganjām ... ..                                    | 4,517    | 3,670     | 4,419  | 5,500  | 4,653  |
| 8       | Godāvari, East { Plains ... ..                   | 3,152    | 2,579     | 2,474  | 2,457  | 2,819  |
| 9       | Godāvari, West { Agency ... ..                   | 579      | 498       | 512    | 557    | 531    |
| 10      | Guntūr ... ..                                    | 2,614    | 2,173     | 2,309  | 2,102  | 2,361  |
| 11      | Kistna ... ..                                    | 3,791    | 2,734     | 2,894  | 3,068  | 3,789  |
| 12      | Kurnool ... ..                                   | 2,489    | 2,020     | 1,935  | 2,017  | 2,350  |
| 13      | Madura ... ..                                    | 2,110    | 1,888     | 2,805  | 2,752  | 2,653  |
| 14      | Malabar ... ..                                   | 3,890    | 3,588     | 4,124  | 3,575  | 3,544  |
| 15      | Nellore ... ..                                   | 6,539    | 6,322     | 6,890  | 6,816  | 6,871  |
| 16      | Nilgiris, The ... ..                             | 3,368    | 2,772     | 2,515  | 2,297  | 2,726  |
| 17      | North Arcot ... ..                               | 199      | 201       | 231    | 247    | 365    |
| 18      | Ramnad ... ..                                    | 4,647    | 4,288     | 3,947  | 3,226  | 3,647  |
| 19      | Salem ... ..                                     | 3,187    | 2,711     | 2,786  | 2,798  | 2,752  |
| 20      | South Arcot ... ..                               | 4,382    | 4,100     | 4,443  | 3,763  | 4,165  |
| 21      | South Kanara ... ..                              | 4,098    | 4,161     | 4,119  | 3,559  | 3,900  |
| 22      | Tanjore ... ..                                   | 3,557    | 2,883     | 2,489  | 1,694  | 1,964  |
| 23      | Tinnevely ... ..                                 | 4,607    | 4,306     | 4,588  | 4,105  | 3,998  |
| 24      | Trichinopoly ... ..                              | 4,569    | 3,787     | 3,899  | 3,361  | 3,565  |
| 25      | Vizagapatam ... ..                               | 3,947    | 3,271     | 3,471  | 3,212  | 3,502  |
|         |                                                  | 5,239    | 4,221     | 4,803  | 4,424  | 5,141  |
|         | Total for districts exclusive of municipalities. | 89,151   | 77,850    | 82,961 | 76,989 | 80,447 |
|         | * Ratio per mille of population.                 | 25.80    | 24.47     | 25.80  | 22.59  | 22.88  |

\* The ratio calculated with reference

municipalities of the Madras Presidency during each month of the year 1934.

| June.  | July.  | August. | September. | October. | November. | December. | Total deaths registered during the year. |
|--------|--------|---------|------------|----------|-----------|-----------|------------------------------------------|
| (8)    | (9)    | (10)    | (11)       | (12)     | (13)      | (14)      | (15)                                     |
| 2,362  | 2,303  | 2,344   | 2,039      | 1,811    | 1,922     | 2,165     | 30,520                                   |
| 1,947  | 2,306  | 2,751   | 2,928      | 2,532    | 2,422     | 2,790     | 32,189                                   |
| 2,491  | 3,109  | 3,008   | 2,730      | 2,704    | 3,113     | 3,352     | 35,214                                   |
| 2,127  | 2,337  | 2,380   | 2,294      | 2,460    | 2,701     | 3,022     | 28,553                                   |
| 3,731  | 3,642  | 3,543   | 3,301      | 3,035    | 4,456     | 5,200     | 46,049                                   |
| 1,552  | 1,796  | 1,691   | 1,767      | 1,709    | 1,814     | 1,876     | 20,579                                   |
| 4,143  | 5,295  | 7,819   | 6,591      | 5,033    | 4,764     | 4,688     | 61,062                                   |
| 2,667  | 3,232  | 3,682   | 3,867      | 3,535    | 3,175     | 3,375     | 37,014                                   |
| 440    | 510    | 581     | 620        | 616      | 580       | 652       | 6,674                                    |
| 2,106  | 2,613  | 3,088   | 2,741      | 2,342    | 2,434     | 2,599     | 29,482                                   |
| 3,494  | 4,273  | 5,250   | 4,558      | 3,949    | 3,880     | 3,705     | 45,368                                   |
| 2,111  | 3,543  | 3,217   | 2,913      | 2,323    | 2,147     | 2,509     | 28,579                                   |
| 2,342  | 2,571  | 2,537   | 2,408      | 2,414    | 2,502     | 2,505     | 29,487                                   |
| 3,290  | 3,518  | 3,143   | 3,083      | 3,008    | 4,137     | 5,099     | 43,994                                   |
| 7,624  | 7,693  | 7,028   | 5,386      | 4,530    | 4,519     | 4,722     | 74,240                                   |
| 2,239  | 2,837  | 2,952   | 2,795      | 2,681    | 2,926     | 2,961     | 33,092                                   |
| 865    | 265    | 290     | 213        | 216      | 218       | 228       | 3,038                                    |
| 3,663  | 3,793  | 3,734   | 3,617      | 3,490    | 4,213     | 5,350     | 47,615                                   |
| 2,610  | 2,928  | 2,993   | 2,711      | 2,775    | 3,786     | 4,785     | 36,823                                   |
| 3,751  | 3,690  | 3,430   | 3,268      | 3,079    | 3,888     | 4,823     | 46,782                                   |
| 3,810  | 5,178  | 5,817   | 5,246      | 4,105    | 6,019     | 7,611     | 57,618                                   |
| 2,031  | 2,490  | 2,372   | 2,156      | 2,096    | 2,060     | 2,260     | 28,241                                   |
| 3,423  | 4,072  | 4,266   | 4,343      | 5,702    | 5,059     | 6,731     | 55,197                                   |
| 3,657  | 3,693  | 3,417   | 2,694      | 3,542    | 4,915     | 6,253     | 47,412                                   |
| 3,073  | 2,580  | 3,179   | 2,989      | 3,086    | 4,081     | 6,626     | 44,017                                   |
| 4,299  | 5,739  | 6,676   | 8,135      | 6,554    | 6,160     | 6,257     | 69,128                                   |
| 75,337 | 86,053 | 93,413  | 85,392     | 79,330   | 87,854    | 102,184   | 1,017,966                                |
| 22.10  | 24.42  | 26.51   | 25.05      | 22.52    | 25.78     | 29.00     | 24.55                                    |

to the number of days in each month.

No. III.—Deaths registered in Districts, exclusive of Municipalities, and in the

| Districts.         | Municipalities.    | January. | February. | March. | April. | May.  |
|--------------------|--------------------|----------|-----------|--------|--------|-------|
| (1)                | (2)                | (3)      | (4)       | (5)    | (6)    | (7)   |
| Anantapur ...      | Hindupur ...       | 29       | 47        | 42     | 40     | 25    |
| Anantapur ...      | Anantapur ...      | 42       | 46        | 41     | 28     | 27    |
| Anantapur ...      | Tadpatri ...       | 28       | 25        | 63     | 38     | 36    |
| Bellary ...        | Bellary ...        | 200      | 222       | 260    | 166    | 141   |
| Bellary ...        | Adoni ...          | 83       | 87        | 68     | 56     | 56    |
| Bellary ...        | Hospet ...         | 68       | 70        | 70     | 57     | 50    |
| Chingleput ...     | Conjeeveram ...    | 166      | 143       | 149    | 164    | 144   |
| Chingleput ...     | Saidapet ...       | 78       | 71        | 74     | 78     | 72    |
| Chingleput ...     | Chingleput ...     | 33       | 50        | 41     | 37     | 38    |
| Chittoor ...       | Chittoor ...       | 52       | 43        | 34     | 34     | 61    |
| Chittoor ...       | Tirupati ...       | 51       | 36        | 47     | 33     | 50    |
| Coimbatore ...     | Coimbatore ...     | 334      | 281       | 410    | 317    | 242   |
| Coimbatore ...     | Erode ...          | 44       | 47        | 47     | 40     | 48    |
| Coimbatore ...     | Dharapuram ...     | 41       | 38        | 29     | 34     | 31    |
| Coimbatore ...     | Pollachi ...       | 53       | 60        | 54     | 52     | 45    |
| Coimbatore ...     | Tiruppur ...       | 28       | 35        | 86     | 22     | 9     |
| Coimbatore ...     | Udamalpet ...      | 25       | 28        | 32     | 32     | 25    |
| Cuddapah ...       | Cuddapah ...       | 43       | 37        | 39     | 54     | 78    |
| Cuddapah ...       | Proddatur ...      | 38       | 46        | 60     | 54     | 47    |
| Ganjām ...         | Berhampur ...      | 61       | 54        | 55     | 52     | 58    |
| Ganjām ...         | Parlakimedi ...    | 41       | 41        | 31     | 26     | 43    |
| Ganjām ...         | Chicacole ...      | 25       | 27        | 26     | 27     | 22    |
| Godāvari, East ... | Rajahmundry ...    | 132      | 162       | 156    | 168    | 160   |
| Godāvari, East ... | Cocanada ...       | 150      | 134       | 138    | 145    | 150   |
| Godāvari, East ... | Peddapuram ...     | 34       | 37        | 33     | 17     | 23    |
| Godāvari, West ... | Ellore ...         | 133      | 153       | 147    | 79     | 78    |
| Godāvari, West ... | Palacole ...       | 25       | 16        | 29     | 22     | 19    |
| Guntūr ...         | Guntūr ...         | 157      | 114       | 191    | 138    | 127   |
| Guntūr ...         | Tenali ...         | 68       | 68        | 41     | 46     | 38    |
| Guntūr ...         | Chirala ...        | 34       | 30        | 30     | 42     | 32    |
| Guntūr ...         | Ongole ...         | 34       | 34        | 30     | 42     | 49    |
| Guntūr ...         | Narasaraopet ...   | 34       | 27        | 29     | 28     | 29    |
| Kistna ...         | Bezwada ...        | 168      | 141       | 191    | 204    | 212   |
| Kistna ...         | Masulipatam ...    | 146      | 91        | 123    | 102    | 119   |
| Kurnool ...        | Kurnool ...        | 75       | 83        | 89     | 81     | 75    |
| Kurnool ...        | Nandyal ...        | 52       | 81        | 78     | 55     | 49    |
| Madras ...         | Madras ...         | 2,063    | 2,031     | 1,867  | 1,697  | 1,918 |
| Madura ...         | Madura ...         | 770      | 729       | 787    | 688    | 651   |
| Madura ...         | Dindigul ...       | 106      | 89        | 83     | 90     | 85    |
| Madura ...         | Bodinayakanur ...  | 135      | 133       | 68     | 43     | 55    |
| Madura ...         | Palni ...          | 55       | 57        | 50     | 31     | 41    |
| Madura ...         | Periyakulam ...    | 50       | 56        | 54     | 45     | 51    |
| Madura ...         | Kodaikanal ...     | 19       | 22        | 17     | 10     | 28    |
| Malabar ...        | Calicut ...        | 206      | 178       | 166    | 198    | 202   |
| Malabar ...        | Palghat ...        | 117      | 93        | 97     | 106    | 137   |
| Malabar ...        | Canannore ...      | 68       | 66        | 47     | 66     | 62    |
| Malabar ...        | Tellicherry ...    | 48       | 51        | 65     | 49     | 48    |
| Malabar ...        | Cochin ...         | 55       | 44        | 45     | 41     | 53    |
| Nellore ...        | Nellore ...        | 165      | 145       | 191    | 131    | 144   |
| Nilgiris, The ...  | Ootacamund ...     | 65       | 70        | 51     | 53     | 68    |
| Nilgiris, The ...  | Coonoor ...        | 23       | 20        | 19     | 24     | 30    |
| North Arcot ...    | Vellore ...        | 156      | 142       | 179    | 135    | 156   |
| North Arcot ...    | Gudiyattam ...     | 45       | 50        | 38     | 29     | 42    |
| North Arcot ...    | Tiruvannamalai ... | 55       | 59        | 48     | 50     | 52    |
| North Arcot ...    | Vaniyambadi ...    | 48       | 42        | 24     | 48     | 39    |
| North Arcot ...    | Tirupattur ...     | 33       | 24        | 31     | 28     | 58    |
| North Arcot ...    | Walajapet ...      | 23       | 21        | 23     | 20     | 30    |

Municipalities of the Madras Presidency during each month of the year 1934—cont.

| June. | July. | August. | September. | October. | November. | December. | Total deaths registered during the year. |
|-------|-------|---------|------------|----------|-----------|-----------|------------------------------------------|
| (8)   | (9)   | (10)    | (11)       | (12)     | (13)      | (14)      | (15)                                     |
| 18    | 26    | 19      | 19         | 29       | 41        | 27        | 362                                      |
| 20    | 27    | 23      | 18         | 26       | 17        | 22        | 337                                      |
| 15    | 22    | 25      | 30         | 11       | 24        | 20        | 335                                      |
| 105   | 132   | 167     | 194        | 155      | 128       | 152       | 2,022                                    |
| 59    | 58    | 61      | 68         | 56       | 56        | 51        | 739                                      |
| 32    | 50    | 86      | 85         | 118      | 60        | 73        | 819                                      |
| 153   | 188   | 169     | 138        | 117      | 129       | 157       | 1,817                                    |
| 60    | 68    | 125     | 69         | 58       | 73        | 70        | 896                                      |
| 30    | 41    | 36      | 34         | 27       | 36        | 33        | 486                                      |
| 92    | 46    | 53      | 32         | 27       | 51        | 28        | 553                                      |
| 37    | 41    | 63      | 45         | 45       | 44        | 40        | 532                                      |
| 213   | 216   | 177     | 169        | 199      | 228       | 229       | 3,014                                    |
| 48    | 43    | 36      | 37         | 47       | 51        | 55        | 541                                      |
| 16    | 24    | 20      | 20         | 25       | 50        | 37        | 365                                      |
| 55    | 67    | 78      | 56         | 57       | 57        | 72        | 706                                      |
| 36    | 19    | 28      | 14         | 21       | 27        | 33        | 308                                      |
| 23    | 28    | 20      | 19         | 19       | 32        | 29        | 312                                      |
| 38    | 58    | 58      | 60         | 50       | 42        | 42        | 604                                      |
| 42    | 38    | 30      | 41         | 47       | 34        | 41        | 518                                      |
| 60    | 100   | 132     | 93         | 66       | 80        | 60        | 880                                      |
| 26    | 33    | 86      | 32         | 37       | 32        | 38        | 466                                      |
| 22    | 75    | 136     | 39         | 18       | 28        | 24        | 469                                      |
| 142   | 145   | 215     | 169        | 181      | 158       | 135       | 1,973                                    |
| 137   | 228   | 173     | 132        | 153      | 136       | 135       | 1,811                                    |
| 28    | 39    | 45      | 32         | 39       | 27        | 31        | 385                                      |
| 81    | 76    | 96      | 73         | 94       | 84        | 84        | 1,178                                    |
| 29    | 25    | 41      | 29         | 31       | 37        | 25        | 328                                      |
| 128   | 167   | 225     | 182        | 168      | 138       | 119       | 1,844                                    |
| 43    | 37    | 43      | 36         | 41       | 53        | 36        | 550                                      |
| 34    | 47    | 47      | 33         | 36       | 36        | 27        | 430                                      |
| 43    | 42    | 62      | 30         | 39       | 52        | 36        | 493                                      |
| 28    | 35    | 41      | 42         | 39       | 33        | 39        | 404                                      |
| 172   | 173   | 264     | 226        | 187      | 169       | 144       | 2,251                                    |
| 115   | 149   | 188     | 138        | 136      | 107       | 94        | 1,503                                    |
| 66    | 62    | 69      | 63         | 68       | 61        | 63        | 855                                      |
| 56    | 48    | 51      | 58         | 47       | 57        | 49        | 676                                      |
| 1,794 | 1,885 | 2,102   | 1,919      | 1,890    | 2,040     | 2,215     | 23,416                                   |
| 630   | 514   | 582     | 436        | 485      | 631       | 767       | 7,650                                    |
| 84    | 77    | 94      | 77         | 79       | 115       | 129       | 1,113                                    |
| 37    | 45    | 47      | 25         | 22       | 49        | 65        | 724                                      |
| 38    | 48    | 31      | 22         | 29       | 50        | 82        | 534                                      |
| 46    | 60    | 55      | 46         | 52       | 46        | 76        | 637                                      |
| 21    | 24    | 13      | 4          | 13       | 15        | 12        | 196                                      |
| 206   | 205   | 255     | 189        | 179      | 185       | 173       | 2,342                                    |
| 131   | 134   | 107     | 84         | 85       | 73        | 109       | 1,278                                    |
| 62    | 75    | 80      | 90         | 60       | 57        | 60        | 793                                      |
| 45    | 69    | 64      | 53         | 59       | 60        | 51        | 662                                      |
| 39    | 57    | 50      | 45         | 45       | 49        | 61        | 587                                      |
| 99    | 149   | 168     | 148        | 124      | 149       | 135       | 1,748                                    |
| 62    | 60    | 54      | 36         | 51       | 46        | 44        | 660                                      |
| 31    | 21    | 23      | 33         | 28       | 30        | 24        | 306                                      |
| 138   | 173   | 161     | 141        | 130      | 173       | 214       | 1,908                                    |
| 49    | 48    | 43      | 29         | 44       | 46        | 46        | 509                                      |
| 47    | 59    | 48      | 36         | 42       | 82        | 107       | 685                                      |
| 37    | 41    | 51      | 32         | 33       | 41        | 32        | 468                                      |
| 33    | 35    | 47      | 30         | 25       | 31        | 33        | 408                                      |
| 29    | 29    | 34      | 22         | 17       | 24        | 24        | 296                                      |

## No. III.—Deaths registered in Districts, exclusive of Municipalities, and in the

| Districts.                          | Municipalities.    | January. | February. | March. | April. | May.   |
|-------------------------------------|--------------------|----------|-----------|--------|--------|--------|
| (1)                                 | (2)                | (3)      | (4)       | (5)    | (6)    | (7)    |
| Ramnad ...                          | Srivilliputtur ... | 80       | 65        | 82     | 65     | 51     |
|                                     | Virudhunagar ...   | 56       | 53        | 58     | 60     | 71     |
|                                     | Sivakasi ...       | 27       | 18        | 17     | 15     | 19     |
|                                     | Karaikudi ...      | 42       | 40        | 47     | 36     | 25     |
| Salem ...                           | Salem ...          | 223      | 219       | 191    | 179    | 180    |
| South Arcot ...                     | Cuddalore ...      | 129      | 93        | 123    | 122    | 114    |
|                                     | Chidambaram ...    | 64       | 51        | 74     | 58     | 60     |
|                                     | Villupuram ...     | 46       | 34        | 35     | 32     | 45     |
| South Kanara ...                    | Mangalore ...      | 118      | 104       | 134    | 151    | 125    |
| Tanjore ...                         | Kumbakonam ...     | 144      | 136       | 168    | 164    | 141    |
|                                     | Tanjore ...        | 228      | 209       | 190    | 183    | 232    |
|                                     | Negapatam ...      | 126      | 124       | 120    | 112    | 146    |
|                                     | Mayavaram ...      | 83       | 94        | 103    | 91     | 77     |
|                                     | Tiruvannamalai ... | 50       | 42        | 41     | 47     | 31     |
|                                     | Mannargudi ...     | 37       | 46        | 61     | 60     | 52     |
| Tinnevely ...                       | Tinnevely ...      | 198      | 169       | 180    | 126    | 114    |
|                                     | Palamcottah ...    | 112      | 116       | 102    | 97     | 68     |
|                                     | Tuticorin ...      | 175      | 116       | 108    | 120    | 117    |
| Trichinopoly ...                    | Trichinopoly ...   | 355      | 332       | 372    | 303    | 296    |
|                                     | Srirangam ...      | 95       | 71        | 63     | 72     | 65     |
|                                     | Karur ...          | 45       | 40        | 34     | 36     | 40     |
| Vizagapatam ...                     | Vizagapatam ...    | 146      | 122       | 137    | 155    | 150    |
|                                     | Vizianagram ...    | 117      | 86        | 79     | 94     | 101    |
|                                     | Anakapalle ...     | 43       | 42        | 87     | 39     | 52     |
|                                     | Bimlipatam ...     | 18       | 15        | 25     | 24     | 22     |
| Total for municipalities ...        |                    | 9,916    | 9,278     | 9,499  | 8,603  | 8,848  |
| Ratio per mille for municipalities. |                    | 31.53    | 32.66     | 30.20  | 28.26  | 28.18  |
| Total for the province ...          |                    | 99,067   | 87,128    | 93,460 | 85,592 | 89,295 |
| * Ratio per mille for the province. |                    | 25.81    | 18.33     | 24.35  | 23.04  | 23.26  |

\* The ratio calculated with reference

## Municipalities of the Madras Presidency during each month of the year 1934—cont.

| June.  | July.  | August. | September. | October. | November. | December. | Total deaths registered during the year. |
|--------|--------|---------|------------|----------|-----------|-----------|------------------------------------------|
| (8)    | (9)    | (10)    | (11)       | (12)     | (13)      | (14)      | (15)                                     |
| 45     | 69     | 73      | 60         | 46       | 101       | 109       | 846                                      |
| 63     | 75     | 92      | 59         | 63       | 94        | 69        | 843                                      |
| 23     | 19     | 17      | 27         | 25       | 34        | 28        | 269                                      |
| 40     | 39     | 30      | 39         | 44       | 40        | 53        | 475                                      |
| 206    | 178    | 173     | 163        | 172      | 177       | 208       | 2,269                                    |
| 97     | 161    | 190     | 188        | 123      | 160       | 173       | 1,623                                    |
| 45     | 59     | 60      | 62         | 57       | 51        | 77        | 748                                      |
| 34     | 86     | 47      | 35         | 29       | 31        | 19        | 473                                      |
| 130    | 111    | 113     | 93         | 88       | 92        | 79        | 1,338                                    |
| 128    | 122    | 132     | 133        | 143      | 156       | 179       | 1,746                                    |
| 166    | 162    | 150     | 169        | 208      | 230       | 249       | 2,374                                    |
| 82     | 91     | 115     | 89         | 109      | 181       | 160       | 1,455                                    |
| 38     | 63     | 64      | 68         | 63       | 79        | 73        | 891                                      |
| 44     | 40     | 29      | 33         | 25       | 37        | 58        | 477                                      |
| 48     | 64     | 52      | 39         | 49       | 60        | 78        | 644                                      |
| 105    | 138    | 129     | 118        | 128      | 166       | 164       | 1,693                                    |
| 70     | 98     | 108     | 80         | 98       | 123       | 138       | 1,205                                    |
| 113    | 118    | 97      | 102        | 134      | 180       | 278       | 1,658                                    |
| 258    | 255    | 258     | 288        | 246      | 382       | 674       | 4,019                                    |
| 64     | 45     | 37      | 41         | 61       | 60        | 90        | 764                                      |
| 28     | 34     | 36      | 20         | 43       | 40        | 60        | 456                                      |
| 120    | 162    | 256     | 167        | 169      | 145       | 151       | 1,880                                    |
| 76     | 188    | 355     | 181        | 115      | 126       | 107       | 1,554                                    |
| 34     | 62     | 82      | 82         | 63       | 60        | 50        | 646                                      |
| 24     | 17     | 21      | 18         | 12       | 23        | 16        | 235                                      |
| 8,038  | 8,921  | 9,958   | 8,301      | 8,314    | 9,360     | 10,172    | 109,203                                  |
| 26.39  | 28.36  | 31.66   | 27.27      | 26.43    | 30.75     | 32.34     | 29.51                                    |
| 83,870 | 94,974 | 103,376 | 93,693     | 87,644   | 97,214    | 112,356   | 1,127,169                                |
| 22.44  | 24.74  | 26.93   | 25.22      | 23.83    | 26.17     | 29.27     | 24.95                                    |

to the number of days in each month.

No. IV.—Deaths registered according to Age in the Districts exclusive of the Madras Presidency during the year 1934 (compiled with

| Districts exclusive of municipalities and rural towns.                                                                | Not exceeding one month. |                |        |                 |                |        | Total of columns 4 and 7. |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------|----------------|--------|-----------------|----------------|--------|---------------------------|
|                                                                                                                       | Males.                   |                |        | Females.        |                |        |                           |
|                                                                                                                       | Under one week.          | Over one week. | Total. | Under one week. | Over one week. | Total. |                           |
|                                                                                                                       | (1)                      | (2)            | (3)    | (4)             | (5)            | (6)    |                           |
| 1. Anantapur ... ..                                                                                                   | 1,293                    | 724            | 2,017  | 1,050           | 664            | 1,714  | 3,731                     |
| 2. Bellary ... ..                                                                                                     | 1,056                    | 472            | 1,528  | 746             | 392            | 1,138  | 2,666                     |
| 3. Chingleput ... ..                                                                                                  | 1,797                    | 764            | 2,561  | 1,424           | 595            | 2,019  | 4,520                     |
| 4. Chittoor ... ..                                                                                                    | 1,718                    | 576            | 2,294  | 1,413           | 546            | 1,959  | 4,253                     |
| 5. Coimbatore ... ..                                                                                                  | 4,433                    | 1,314          | 5,747  | 3,426           | 1,015          | 4,441  | 10,188                    |
| 6. Cuddapah ... ..                                                                                                    | 953                      | 327            | 1,280  | 811             | 261            | 1,072  | 2,352                     |
| 7. Ganjam ... ..                                                                                                      | 2,855                    | 1,227          | 4,082  | 2,411           | 956            | 3,367  | 7,449                     |
| 8. Godavari, f Plains ... ..                                                                                          | 2,222                    | 510            | 2,732  | 1,802           | 380            | 2,182  | 4,914                     |
| East. Agency...                                                                                                       | 258                      | 81             | 339    | 228             | 63             | 291    | 630                       |
| 9. Godavari, West ... ..                                                                                              | 2,040                    | 494            | 2,534  | 1,449           | 393            | 1,832  | 4,366                     |
| 10. Guntur ... ..                                                                                                     | 3,298                    | 1,235          | 4,533  | 2,546           | 1,040          | 3,586  | 8,029                     |
| 11. Kistna .. ...                                                                                                     | 2,065                    | 642            | 2,708  | 1,739           | 544            | 2,283  | 4,991                     |
| 12. Karnool ... ..                                                                                                    | 1,514                    | 805            | 2,319  | 1,273           | 693            | 1,966  | 4,285                     |
| 13. Madura ... ..                                                                                                     | 2,623                    | 985            | 3,608  | 2,106           | 832            | 2,938  | 6,546                     |
| 14. Malabar ... ..                                                                                                    | 3,861                    | 1,650          | 5,511  | 3,017           | 1,374          | 4,391  | 9,902                     |
| 15. Nellore ... ..                                                                                                    | 2,139                    | 556            | 2,695  | 1,580           | 433            | 2,013  | 4,708                     |
| 16. Nilgiris, the ... ..                                                                                              | 105                      | 46             | 151    | 88              | 39             | 127    | 273                       |
| 17. North Arcot ... ..                                                                                                | 2,303                    | 985            | 3,288  | 1,819           | 770            | 2,589  | 5,877                     |
| 18. Ramnad ... ..                                                                                                     | 1,540                    | 682            | 2,222  | 1,147           | 477            | 1,624  | 3,826                     |
| 19. Salem ... ..                                                                                                      | 3,584                    | 1,076          | 4,660  | 3,033           | 880            | 3,913  | 8,573                     |
| 20. South Arcot ... ..                                                                                                | 2,169                    | 918            | 3,087  | 1,748           | 808            | 2,556  | 5,635                     |
| 21. South Kanara ... ..                                                                                               | 1,303                    | 548            | 1,851  | 989             | 396            | 1,385  | 3,236                     |
| 22. Tanjore ... ..                                                                                                    | 2,845                    | 872            | 3,717  | 2,319           | 692            | 3,011  | 6,638                     |
| 23. Tinnevely ... ..                                                                                                  | 2,805                    | 1,321          | 4,126  | 2,189           | 1,084          | 3,254  | 7,380                     |
| 24. Trichinopoly ... ..                                                                                               | 2,584                    | 944            | 3,528  | 2,002           | 793            | 2,795  | 6,328                     |
| 25. Vizagapatam ... ..                                                                                                | 2,856                    | 1,306          | 4,162  | 2,389           | 1,046          | 3,435  | 7,597                     |
| Total of districts exclusive of Municipalities and rural towns ... ..                                                 | 56,119                   | 20,982         | 77,100 | 44,619          | 17,157         | 61,776 | 138,876                   |
| Total population accord- ing to the census of 1931 ... ..                                                             | ...                      | ...            | ...    | ...             | ...            | ...    | ...                       |
| Ratio per mtle of births for age periods 0 to 1 yr. and per mille of popu- lation for age periods above 1 year ... .. | 78.19                    | 29.23          | 107.42 | 65.16           | 25.06          | 90.22  | 99.02                     |

Municipalities and rural towns and in the Municipalities and rural towns reference to G.O. Ms. No. 602, P.H., dated 30th March 1931).

| Over one month and not exceeding six months. |          |        | Over six months and not exceeding twelve months. |          |        | Total.                     |                               |           | One and under five years. |           |
|----------------------------------------------|----------|--------|--------------------------------------------------|----------|--------|----------------------------|-------------------------------|-----------|---------------------------|-----------|
| Males.                                       | Females. | Total. | Males.                                           | Females. | Total. | Males columns 4, 9 and 12. | Females columns 7, 10 and 13. | Total.    | Males.                    | Females.  |
| (9)                                          | (10)     | (11)   | (12)                                             | (13)     | (14)   | (15)                       | (16)                          | (17)      | (18)                      | (19)      |
| 1,107                                        | 1,014    | 2,121  | 1,190                                            | 1,119    | 2,309  | 4,314                      | 3,847                         | 8,161     | 2,295                     | 2,248     |
| 995                                          | 894      | 1,889  | 1,282                                            | 1,275    | 2,557  | 3,805                      | 3,307                         | 7,112     | 3,189                     | 3,220     |
| 1,383                                        | 1,215    | 2,598  | 1,276                                            | 1,151    | 2,427  | 5,160                      | 4,385                         | 9,545     | 2,277                     | 2,271     |
| 961                                          | 961      | 1,912  | 1,029                                            | 911      | 1,940  | 4,284                      | 3,821                         | 8,105     | 1,761                     | 1,791     |
| 1,189                                        | 1,104    | 2,293  | 1,410                                            | 1,436    | 2,846  | 8,296                      | 6,481                         | 14,777    | 2,584                     | 2,653     |
| 966                                          | 625      | 1,591  | 904                                              | 785      | 1,689  | 2,840                      | 2,482                         | 5,322     | 1,634                     | 1,493     |
| 2,489                                        | 2,190    | 4,679  | 2,766                                            | 2,491    | 5,257  | 9,337                      | 8,057                         | 17,394    | 4,544                     | 4,583     |
| 1,316                                        | 1,110    | 2,426  | 1,384                                            | 1,254    | 2,638  | 5,432                      | 4,546                         | 9,978     | 2,187                     | 2,303     |
| 261                                          | 251      | 512    | 222                                              | 225      | 447    | 825                        | 767                           | 1,592     | 688                       | 614       |
| 1,166                                        | 1,057    | 2,223  | 1,350                                            | 1,214    | 2,564  | 5,050                      | 4,103                         | 9,153     | 1,854                     | 1,847     |
| 1,678                                        | 1,418    | 3,096  | 1,344                                            | 1,239    | 2,583  | 7,468                      | 6,298                         | 13,766    | 3,440                     | 3,082     |
| 1,474                                        | 1,228    | 2,702  | 1,113                                            | 1,011    | 2,124  | 5,295                      | 4,522                         | 9,817     | 1,860                     | 1,872     |
| 1,120                                        | 1,028    | 2,148  | 1,179                                            | 1,144    | 2,323  | 4,618                      | 4,138                         | 8,756     | 3,232                     | 3,236     |
| 1,161                                        | 1,030    | 2,191  | 1,268                                            | 1,346    | 2,614  | 6,037                      | 5,314                         | 11,351    | 2,964                     | 2,910     |
| 3,028                                        | 2,678    | 5,706  | 2,338                                            | 2,059    | 4,397  | 10,877                     | 9,126                         | 20,003    | 7,138                     | 7,257     |
| 855                                          | 816      | 1,671  | 1,166                                            | 1,097    | 2,263  | 4,716                      | 3,926                         | 8,642     | 2,367                     | 2,096     |
| 116                                          | 85       | 201    | 124                                              | 114      | 238    | 391                        | 321                           | 712       | 349                       | 343       |
| 1,598                                        | 1,461    | 3,059  | 1,781                                            | 1,701    | 3,482  | 6,662                      | 5,751                         | 12,413    | 3,997                     | 4,050     |
| 784                                          | 731      | 1,515  | 867                                              | 750      | 1,617  | 3,853                      | 3,105                         | 6,958     | 2,493                     | 2,475     |
| 1,367                                        | 1,113    | 2,480  | 1,477                                            | 1,312    | 2,789  | 7,404                      | 6,338                         | 13,742    | 2,960                     | 2,978     |
| 1,073                                        | 1,499    | 3,171  | 1,959                                            | 1,878    | 3,837  | 6,108                      | 5,933                         | 12,041    | 4,082                     | 4,909     |
| 1,061                                        | 919      | 1,970  | 851                                              | 836      | 1,687  | 3,753                      | 3,140                         | 6,893     | 2,122                     | 2,234     |
| 1,360                                        | 1,295    | 2,655  | 1,125                                            | 1,069    | 2,194  | 6,189                      | 5,275                         | 11,464    | 3,094                     | 3,058     |
| 1,329                                        | 1,155    | 2,384  | 1,347                                            | 1,213    | 2,560  | 6,702                      | 5,627                         | 12,329    | 3,340                     | 3,409     |
| 947                                          | 861      | 1,808  | 1,084                                            | 1,042    | 2,126  | 5,559                      | 4,698                         | 10,257    | 2,962                     | 3,011     |
| 2,440                                        | 2,402    | 5,042  | 2,832                                            | 2,547    | 5,379  | 9,734                      | 8,384                         | 18,118    | 5,160                     | 5,125     |
| 33,449                                       | 30,134   | 63,583 | 34,765                                           | 32,224   | 66,989 | 145,314                    | 124,134                       | 269,448   | 75,433                    | 75,046    |
| ...                                          | ...      | ...    | ...                                              | ...      | ...    | 534,520                    | 555,963                       | 1,090,483 | 2,227,129                 | 2,313,263 |
| 46.01                                        | 44.01    | 45.34  | 48.44                                            | 47.06    | 47.77  | 202.47                     | 181.28                        | 192.13    | 33.87                     | 32.44     |

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities and rural towns during the year 1934 (compiled with reference to

| Districts exclusive of municipalities and rural towns—cont.         | Five and under ten years. |           | Ten and under 15 years. |           | 15 and under 20 years. |           | 20 and under 30 years. |            |
|---------------------------------------------------------------------|---------------------------|-----------|-------------------------|-----------|------------------------|-----------|------------------------|------------|
|                                                                     | Males.                    | Females.  | Males.                  | Females.  | Males.                 | Females.  | Males.                 | Fe. males. |
|                                                                     | (20)                      | (21)      | (22)                    | (23)      | (24)                   | (25)      | (26)                   | (27)       |
| 1. Anantapur ...                                                    | 738                       | 704       | 392                     | 393       | 365                    | 745       | 829                    | 1,498      |
| 2. Bellary ...                                                      | 971                       | 900       | 448                     | 355       | 426                    | 554       | 921                    | 1,347      |
| 3. Chingleput ...                                                   | 753                       | 745       | 84                      | 70        | 659                    | 879       | 915                    | 1,331      |
| 4. Chittoor ...                                                     | 481                       | 446       | 316                     | 302       | 339                    | 484       | 649                    | 1,210      |
| 5. Coimbatore ...                                                   | 913                       | 871       | 136                     | 142       | 923                    | 1,120     | 1,345                  | 1,995      |
| 6. Cuddapah ...                                                     | 390                       | 388       | 215                     | 261       | 290                    | 393       | 625                    | 946        |
| 7. Ganjam ...                                                       | 1,437                     | 1,362     | 717                     | 648       | 908                    | 1,153     | 1,807                  | 2,529      |
| 8. Godavari, Plains ...                                             | 776                       | 738       | 510                     | 431       | 465                    | 730       | 1,032                  | 1,518      |
| 9. Godavari, West ...                                               | 217                       | 215       | 90                      | 92        | 131                    | 161       | 306                    | 367        |
| 10. Guntur ...                                                      | 585                       | 560       | 349                     | 338       | 308                    | 521       | 715                    | 1,211      |
| 11. Kistna ...                                                      | 973                       | 862       | 411                     | 504       | 558                    | 843       | 1,152                  | 1,754      |
| 12. Kurnool ...                                                     | 546                       | 547       | 318                     | 360       | 357                    | 624       | 689                    | 1,234      |
| 13. Madara ...                                                      | 963                       | 984       | 536                     | 527       | 390                    | 596       | 823                    | 1,134      |
| 14. Malabar ...                                                     | 870                       | 901       | 98                      | 105       | 981                    | 932       | 1,471                  | 1,804      |
| 15. Nellore ...                                                     | 2,070                     | 2,041     | 897                     | 877       | 862                    | 936       | 2,030                  | 2,604      |
| 16. Nilgiris, The ...                                               | 817                       | 789       | 405                     | 332       | 434                    | 496       | 831                    | 1,244      |
| 17. North Arcot ...                                                 | 84                        | 59        | 20                      | 72        | 85                     | 143       | 155                    | 155        |
| 18. Ramnad ...                                                      | 1,068                     | 1,001     | 130                     | 125       | 867                    | 1,184     | 1,112                  | 1,614      |
| 19. Salem ...                                                       | 643                       | 568       | 63                      | 44        | 573                    | 700       | 1,066                  | 1,490      |
| 20. South Arcot ...                                                 | 944                       | 1,013     | 119                     | 141       | 1,075                  | 1,301     | 1,396                  | 2,211      |
| 21. South Kanara ...                                                | 1,807                     | 1,570     | 191                     | 144       | 1,332                  | 1,626     | 1,872                  | 2,040      |
| 22. Tanjore ...                                                     | 694                       | 631       | 311                     | 293       | 306                    | 410       | 802                    | 1,209      |
| 23. Tinnevely ...                                                   | 1,097                     | 1,088     | 83                      | 78        | 998                    | 1,438     | 1,607                  | 2,710      |
| 24. Trichinopoly ...                                                | 677                       | 727       | 153                     | 179       | 550                    | 754       | 930                    | 1,471      |
| 25. Vizagapatam ...                                                 | 894                       | 886       | 161                     | 125       | 827                    | 1,172     | 1,319                  | 2,133      |
| 26. ...                                                             | 1,669                     | 1,629     | 916                     | 767       | 978                    | 1,237     | 2,031                  | 2,645      |
| Total for districts exclusive of municipalities and rural towns ... | 22,766                    | 22,205    | 8,067                   | 7,658     | 15,937                 | 20,943    | 28,269                 | 41,853     |
| Total population according to the census of 1931 ...                | 2,513,178                 | 2,485,496 | 2,811,507               | 2,214,360 | 1,675,897              | 1,812,616 | 3,216,380              | 3,734,816  |
| Ratio per mille of population ...                                   | 9.06                      | 8.93      | 3.43                    | 3.46      | 9.51                   | 11.55     | 8.79                   | 11.21      |

palities and rural towns and in the Municipalities and rural towns of the Madras G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

| 30 and under 40 years. |           | 40 and under 50 years. |           | 50 and under 60 years. |           | 60 years and upwards. |          | Total of all ages. |            |
|------------------------|-----------|------------------------|-----------|------------------------|-----------|-----------------------|----------|--------------------|------------|
| Males.                 | Females.  | Males.                 | Females.  | Males.                 | Females.  | Males.                | Females. | Males.             | Females.   |
| (28)                   | (29)      | (30)                   | (31)      | (32)                   | (33)      | (34)                  | (35)     | (36)               | (37)       |
| 918                    | 1,011     | 1,067                  | 728       | 1,095                  | 946       | 2,331                 | 2,262    | 14,344             | 14,387     |
| 1,133                  | 1,094     | 1,181                  | 912       | 1,023                  | 947       | 2,330                 | 2,221    | 15,397             | 14,857     |
| 939                    | 974       | 1,058                  | 778       | 1,102                  | 841       | 3,230                 | 3,054    | 16,227             | 15,313     |
| 999                    | 959       | 1,057                  | 839       | 1,150                  | 966       | 3,183                 | 2,922    | 14,123             | 13,640     |
| 1,448                  | 1,480     | 1,451                  | 1,155     | 1,356                  | 1,159     | 4,078                 | 4,333    | 22,530             | 21,889     |
| 638                    | 765       | 726                    | 547       | 853                    | 709       | 1,776                 | 1,691    | 9,887              | 9,675      |
| 2,170                  | 2,094     | 2,023                  | 1,829     | 2,702                  | 2,543     | 4,231                 | 5,104    | 29,576             | 29,902     |
| 1,018                  | 1,113     | 1,070                  | 846       | 1,246                  | 1,119     | 3,504                 | 4,088    | 17,240             | 17,432     |
| 304                    | 311       | 286                    | 166       | 274                    | 210       | 383                   | 409      | 3,463              | 3,212      |
| 753                    | 790       | 698                    | 620       | 844                    | 716       | 2,508                 | 2,853    | 13,664             | 13,559     |
| 1,106                  | 1,157     | 1,172                  | 911       | 1,305                  | 1,072     | 4,257                 | 3,979    | 21,927             | 20,402     |
| 683                    | 732       | 709                    | 563       | 756                    | 629       | 2,423                 | 2,406    | 13,636             | 13,489     |
| 892                    | 767       | 708                    | 638       | 807                    | 731       | 1,823                 | 1,946    | 14,790             | 14,697     |
| 1,659                  | 1,519     | 1,672                  | 1,307     | 1,492                  | 1,209     | 3,671                 | 3,666    | 20,924             | 19,667     |
| 2,278                  | 2,554     | 2,460                  | 1,957     | 2,556                  | 1,943     | 6,079                 | 6,746    | 37,247             | 36,043     |
| 960                    | 961       | 1,091                  | 797       | 1,198                  | 961       | 3,578                 | 3,349    | 16,397             | 14,931     |
| 132                    | 110       | 129                    | 68        | 87                     | 63        | 101                   | 107      | 1,487              | 1,316      |
| 1,207                  | 1,252     | 1,298                  | 1,019     | 1,334                  | 1,190     | 4,421                 | 4,169    | 22,096             | 21,305     |
| 1,267                  | 1,272     | 1,344                  | 1,166     | 1,346                  | 1,234     | 2,820                 | 3,084    | 15,458             | 15,188     |
| 1,643                  | 1,655     | 1,677                  | 1,371     | 1,528                  | 1,408     | 4,288                 | 4,382    | 22,613             | 22,491     |
| 1,956                  | 1,957     | 2,159                  | 1,798     | 2,283                  | 1,859     | 4,734                 | 4,465    | 27,854             | 26,801     |
| 893                    | 967       | 1,071                  | 773       | 1,010                  | 856       | 2,571                 | 3,094    | 13,413             | 13,707     |
| 1,994                  | 2,342     | 2,340                  | 2,023     | 2,314                  | 2,132     | 5,648                 | 6,430    | 25,274             | 26,454     |
| 1,071                  | 1,235     | 1,214                  | 1,027     | 1,234                  | 1,025     | 3,537                 | 3,763    | 19,408             | 19,217     |
| 1,534                  | 1,476     | 1,654                  | 1,267     | 1,543                  | 1,343     | 4,286                 | 4,811    | 20,759             | 20,942     |
| 2,401                  | 2,163     | 2,582                  | 1,966     | 2,736                  | 2,710     | 5,083                 | 5,591    | 33,280             | 32,217     |
| 31,874                 | 32,453    | 33,774                 | 27,035    | 35,191                 | 39,637    | 86,724                | 90,724   | 489,349            | 473,688    |
| 2,728,893              | 2,736,828 | 1,912,788              | 1,821,287 | 1,159,098              | 1,159,250 | 888,468               | 931,945  | 19,168,488         | 19,265,806 |
| 11.68                  | 11.86     | 17.06                  | 14.84     | 30.34                  | 26.43     | 97.62                 | 97.35    | 25.22              | 23.91      |



*and rural towns and in the Municipalities and rural towns of the Madras Presidency*  
G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

| One and under five years. |          | Five and under ten years. |          | Ten and under 15 years. |          | 15 and under 20 years. |          | 20 and under 30 years. |          | 30 and under 40 years. |          | 40 and under 50 years. |          | 50 and under 60 years. |          | 60 years and upwards. |          | Total of all ages. |          |
|---------------------------|----------|---------------------------|----------|-------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|-----------------------|----------|--------------------|----------|
| Males.                    | Females. | Males.                    | Females. | Males.                  | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females. | Males.                | Females. | Males.             | Females. |
| (18)                      | (19)     | (20)                      | (21)     | (22)                    | (23)     | (24)                   | (25)     | (26)                   | (27)     | (28)                   | (29)     | (30)                   | (31)     | (32)                   | (33)     | (34)                  | (35)     | (36)               | (37)     |
| 41                        | 44       | 9                         | 11       | 6                       | 17       | 5                      | 12       | 21                     | 34       | 24                     | 26       | 27                     | 18       | 29                     | 16       | 35                    | 69       | 283                | 32       |
| 36                        | 40       | 11                        | 10       | 16                      | 11       | 6                      | 16       | 18                     | 32       | 17                     | 24       | 18                     | 17       | 15                     | 11       | 44                    | 37       | 252                | 26       |
| 38                        | 40       | 11                        | 10       | 5                       | 12       | 11                     | 19       | 14                     | 21       | 22                     | 19       | 20                     | 12       | 12                     | 13       | 17                    | 18       | 189                | 21       |
| 10                        | 22       | 3                         | 4        | 1                       | 1        | 1                      | 7        | 2                      | 6        | 5                      | 2        | 1                      | 3        | 5                      | 6        | 14                    | 9        | 78                 | 6        |
| 14                        | 14       | 5                         | 6        | 7                       | 3        | 3                      | 16       | 5                      | 4        | 4                      | 3        | 7                      | 5        | 4                      | 2        | 4                     | 4        | 83                 | 9        |
| 12                        | 15       | 2                         | 4        | ...                     | 2        | 4                      | 5        | 7                      | 11       | 4                      | 2        | 3                      | 4        | 8                      | 3        | 10                    | 3        | 80                 | 7        |
| 6                         | 11       | 2                         | 1        | 1                       | 1        | 7                      | 1        | 9                      | 6        | 6                      | 7        | 6                      | 5        | 2                      | 4        | 13                    | 5        | 63                 | 6        |
| 70                        | 37       | 9                         | 22       | 12                      | 8        | 9                      | 20       | 32                     | 49       | 35                     | 31       | 38                     | 29       | 50                     | 31       | 82                    | 131      | 455                | 42       |
| 26                        | 34       | 14                        | 8        | 5                       | 4        | 4                      | 11       | 19                     | 21       | 17                     | 21       | 21                     | 9        | 20                     | 17       | 44                    | 62       | 239                | 23       |
| 34                        | 25       | 22                        | 14       | 12                      | 12       | 9                      | 13       | 26                     | 13       | 29                     | 23       | 26                     | 18       | 14                     | 14       | 51                    | 57       | 240                | 22       |
| 13                        | 15       | 13                        | 13       | 5                       | 12       | 9                      | 10       | 14                     | 16       | 13                     | 24       | 11                     | 14       | 12                     | 16       | 31                    | 29       | 158                | 18       |
| 6                         | 8        | 3                         | 3        | 1                       | ...      | 2                      | ...      | 5                      | 10       | 6                      | 8        | 8                      | 3        | 9                      | 5        | 18                    | 17       | 84                 | 5        |
| 19                        | 16       | 7                         | 9        | 3                       | ...      | 5                      | 4        | 9                      | 13       | 7                      | 15       | 9                      | 8        | 10                     | 9        | 29                    | 49       | 131                | 13       |
| 14                        | 6        | 4                         | 2        | ...                     | 1        | 6                      | 3        | 7                      | 7        | 5                      | 5        | 12                     | 5        | 10                     | 8        | 29                    | 12       | 108                | 7        |
| 11                        | 10       | 1                         | 2        | ...                     | 10       | 1                      | 3        | 5                      | 11       | 8                      | 14       | 9                      | 4        | 15                     | 12       | 18                    | 19       | 95                 | 9        |
| 10                        | 15       | 5                         | 1        | ...                     | 1        | 2                      | 2        | 3                      | 4        | 4                      | 8        | 4                      | 10       | 7                      | 8        | 10                    | 16       | 65                 | 8        |
| 132                       | 121      | 43                        | 33       | 20                      | 16       | 19                     | 27       | 70                     | 79       | 74                     | 68       | 46                     | 53       | 57                     | 45       | 191                   | 219      | 914                | 88       |
| 17                        | 83       | 25                        | 23       | 14                      | 28       | 18                     | 41       | 63                     | 90       | 54                     | 61       | 67                     | 66       | 67                     | 69       | 177                   | 203      | 969                | 1,000    |
| 18                        | 26       | 6                         | 10       | 10                      | 8        | 4                      | 8        | 20                     | 18       | 8                      | 13       | 17                     | 10       | 23                     | 9        | 47                    | 60       | 191                | 13       |
| 21                        | 16       | 7                         | 10       | 3                       | 8        | 4                      | 9        | 15                     | 26       | 15                     | 11       | 6                      | 10       | 6                      | 6        | 45                    | 47       | 166                | 15       |
| 21                        | 19       | 13                        | 7        | 7                       | 6        | 10                     | 12       | 14                     | 18       | 19                     | 12       | 23                     | 18       | 20                     | 27       | 36                    | 49       | 239                | 24       |
| 19                        | 14       | 2                         | 6        | 7                       | 5        | 2                      | 8        | 16                     | 21       | 9                      | 17       | 8                      | 8        | 14                     | 12       | 44                    | 46       | 181                | 18       |
| 6                         | 11       | 2                         | 3        | 11                      | 2        | 6                      | 10       | 11                     | 20       | 13                     | 8        | 14                     | 15       | 8                      | 11       | 39                    | 40       | 160                | 10       |
| 9                         | 6        | 2                         | 2        | 6                       | 4        | 1                      | 4        | 8                      | 16       | 9                      | 10       | 9                      | 5        | 9                      | 11       | 12                    | 16       | 102                | 1        |
| 11                        | 7        | 5                         | 4        | 4                       | 3        | 5                      | 11       | 6                      | 12       | 9                      | 6        | 7                      | 5        | 9                      | 8        | 8                     | 10       | 90                 | 6        |
| 7                         | 3        | 3                         | 3        | 1                       | ...      | 3                      | 5        | 8                      | 2        | 6                      | 8        | 4                      | 6        | 6                      | 8        | 13                    | 16       | 69                 | 7        |
| 116                       | 84       | 35                        | 27       | 15                      | 19       | 17                     | 31       | 42                     | 58       | 50                     | 48       | 56                     | 40       | 56                     | 50       | 152                   | 107      | 633                | 54       |
| 12                        | 13       | 8                         | 10       | 3                       | 8        | 3                      | 5        | 12                     | 25       | 13                     | 11       | 12                     | 5        | 6                      | 5        | 42                    | 33       | 162                | 16       |
| 22                        | 39       | 10                        | 10       | 6                       | 6        | 5                      | 21       | 16                     | 24       | 20                     | 13       | 14                     | 12       | 18                     | 13       | 36                    | 36       | 230                | 23       |
| 19                        | 23       | 13                        | 11       | 8                       | 10       | 2                      | 7        | 16                     | 31       | 18                     | 7        | 10                     | 16       | 11                     | 9        | 37                    | 57       | 179                | 20       |
| 23                        | 18       | 10                        | 8        | 1                       | 4        | 5                      | 9        | 17                     | 17       | 9                      | 11       | 5                      | 7        | 14                     | 5        | 44                    | 26       | 223                | 14       |
| 23                        | 23       | 6                         | 9        | ...                     | 4        | 5                      | 5        | 5                      | 16       | 6                      | 16       | 5                      | 3        | 15                     | 8        | 17                    | 30       | 194                | 14       |
| 13                        | 21       | 7                         | 6        | 3                       | 3        | 2                      | 7        | 4                      | 12       | 6                      | 7        | 2                      | 8        | 13                     | 8        | 21                    | 25       | 102                | 15       |
| 9                         | 4        | 2                         | 8        | 3                       | 3        | 1                      | 4        | 10                     | 13       | 8                      | 7        | 10                     | 3        | 4                      | 13       | 18                    | 19       | 100                | 10       |
| 7                         | 6        | 6                         | 5        | 2                       | 3        | 2                      | ...      | 7                      | 11       | 6                      | 8        | 2                      | 6        | 7                      | 2        | 19                    | 18       | 86                 | 8        |
| 6                         | 7        | 3                         | ...      | 2                       | ...      | ...                    | 1        | 4                      | 2        | 5                      | 3        | 6                      | 2        | 9                      | 7        | 18                    | 21       | 88                 | 0        |
| 132                       | 152      | 37                        | 27       | 31                      | 28       | 33                     | 61       | 94                     | 133      | 79                     | 69       | 85                     | 38       | 61                     | 64       | 129                   | 125      | 997                | 99       |
| 32                        | 35       | 8                         | 10       | 10                      | 8        | 11                     | 11       | 18                     | 33       | 28                     | 24       | 24                     | 13       | 17                     | 18       | 47                    | 55       | 274                | 27       |
| 27                        | 20       | 10                        | 16       | 7                       | 6        | 5                      | 10       | 20                     | 22       | 16                     | 7        | 10                     | 6        | 14                     | 15       | 38                    | 45       | 231                | 16       |
| 33                        | 27       | 10                        | 4        | 1                       | 4        | 11                     | 11       | 30                     | 33       | 20                     | 23       | 19                     | 19       | 26                     | 19       | 43                    | 45       | 263                | 23       |
| 23                        | 24       | 8                         | 6        | 3                       | 5        | 4                      | 8        | 13                     | 16       | 12                     | 9        | 14                     | 9        | 15                     | 9        | 35                    | 37       | 208                | 16       |
| 17                        | 15       | 5                         | 4        | 1                       | ...      | 3                      | 5        | 11                     | 15       | 5                      | 7        | 10                     | 4        | 12                     | 10       | 25                    | 28       | 135                | 11       |
| 14                        | 11       | 3                         | 5        | ...                     | 3        | 5                      | 8        | 11                     | 11       | 8                      | 8        | 7                      | 12       | 12                     | 12       | 27                    | 23       | 139                | 14       |
| 13                        | 14       | 2                         | 3        | 3                       | 3        | 3                      | 5        | 9                      | 15       | 4                      | 10       | 10                     | 3        | 11                     | 7        | 28                    | 14       | 126                | 14       |
| 9                         | 13       | 2                         | ...      | 3                       | 3        | 3                      | 10       | 15                     | 13       | 4                      | 11       | 10                     | 5        | 9                      | 10       | 24                    | 14       | 147                | 11       |
| 10                        | 14       | 4                         | 2        | 3                       | 3        | 3                      | 5        | 11                     | 12       | 5                      | 8        | 7                      | 5        | 11                     | 12       | 25                    | 27       | 123                | 13       |
| 20                        | 23       | 3                         | 2        | 2                       | ...      | ...                    | 2        | 11                     | 6        | 3                      | 3        | 2                      | 3        | 4                      | 7        | 18                    | 20       | 83                 | 8        |
| 13                        | 17       | 3                         | 3        | 3                       | 1        | 3                      | 3        | 4                      | 8        | 8                      | 12       | 5                      | 6        | 11                     | 8        | 14                    | 18       | 118                | 8        |
| ...                       | ...      | 1                         | 1        | 1                       | 1        | 1                      | 5        | 8                      | 2        | 2                      | 2        | 3                      | 2        | 6                      | 10       | 11                    | 12       | 106                | 17       |
| 2                         | 4        | 1                         | 3        | 1                       | 1        | 3                      | 2        | 9                      | 7        | 5                      | 6        | 3                      | 1        | 9                      | 6        | 21                    | 11       | 88                 | 6        |
|                           |          |                           |          |                         |          |                        |          |                        |          |                        |          |                        |          |                        |          | 20                    | 37       | 84                 | 0        |

No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities and during the year 1934 (compiled with reference to

| Municipalities and rural towns. | Not exceeding one month. |                |        |                 |                |        |                             | Over one month and not exceeding six months. |          |        | Over six months and not exceeding twelve months. |          |        | Total. |          |        |
|---------------------------------|--------------------------|----------------|--------|-----------------|----------------|--------|-----------------------------|----------------------------------------------|----------|--------|--------------------------------------------------|----------|--------|--------|----------|--------|
|                                 | Males.                   |                |        | Females.        |                |        | Total of cols. (4) and (7). | Males.                                       | Females. | Total. | Males.                                           | Females. | Total. | Males. | Females. | Total. |
|                                 | Under one week.          | Over one week. | Total. | Under one week. | Over one week. | Total. |                             |                                              |          |        |                                                  |          |        |        |          |        |
|                                 |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| (1)                             | (2)                      | (3)            | (4)    | (5)             | (6)            | (7)    | (8)                         | (9)                                          | (10)     | (11)   | (12)                                             | (13)     | (14)   | (15)   | (16)     | (17)   |
| Guntur District—cont.           |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 109. Repalle ...                | 23                       | 7              | 30     | 4               | 2              | 6      | 36                          | 8                                            | 4        | 12     | 6                                                | 4        | 10     | 44     | 14       | 58     |
| 110. Chilakalurpet ...          | 21                       | 3              | 24     | 8               | 6              | 14     | 38                          | 12                                           | 12       | 24     | 12                                               | 8        | 20     | 48     | 34       | 82     |
| 111. Guntur ...                 | 12                       | 4              | 16     | 5               | 3              | 8      | 24                          | 4                                            | 9        | 13     | 4                                                | 6        | 10     | 24     | 23       | 47     |
| 112. Battiprolu ...             | 8                        | 3              | 11     | 11              | 2              | 13     | 24                          | 6                                            | 8        | 14     | 5                                                | 10       | 15     | 22     | 31       | 53     |
| Kistna District.                |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 113. Bezvada ...                | 81                       | 39             | 120    | 63              | 30             | 93     | 213                         | 185                                          | 166      | 351    | 114                                              | 103      | 217    | 419    | 362      | 781    |
| 114. Masulipatam ...            | 101                      | 40             | 141    | 58              | 25             | 83     | 224                         | 114                                          | 113      | 227    | 56                                               | 45       | 101    | 311    | 241      | 552    |
| 115. Gudivada ...               | 19                       | 6              | 25     | 9               | 4              | 13     | 38                          | 45                                           | 34       | 79     | 11                                               | 12       | 23     | 81     | 50       | 131    |
| 116. Nuzvid ...                 | 17                       | 4              | 21     | 23              | 6              | 29     | 50                          | 27                                           | 29       | 56     | 7                                                | 11       | 18     | 55     | 69       | 124    |
| 117. Jaggayyapeta ...           | 9                        | 6              | 15     | 5               | 6              | 11     | 26                          | 17                                           | 14       | 31     | 8                                                | 7        | 15     | 40     | 32       | 72     |
| 118. Valluru ...                | 7                        | 6              | 13     | 6               | 4              | 10     | 23                          | 11                                           | 11       | 22     | 11                                               | 11       | 22     | 38     | 32       | 70     |
| 119. Pedana ...                 | 12                       | 7              | 19     | 10              | 9              | 19     | 38                          | 18                                           | 13       | 31     | 3                                                | 4        | 7      | 40     | 36       | 76     |
| 120. Vayyuru ...                | 6                        | 1              | 7      | 5               | 7              | 12     | 19                          | 7                                            | 4        | 11     | 4                                                | 3        | 7      | 18     | 19       | 37     |
| Kurnool District.               |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 121. Kurnool ...                | 28                       | 16             | 44     | 12              | 19             | 31     | 75                          | 40                                           | 31       | 71     | 44                                               | 24       | 68     | 128    | 80       | 214    |
| 122. Nandyal ...                | 27                       | 17             | 44     | 23              | 9              | 32     | 76                          | 24                                           | 19       | 43     | 22                                               | 25       | 47     | 90     | 76       | 166    |
| Madras.                         |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 123. Madras ...                 | 841                      | 486            | 1,327  | 627             | 387            | 1,014  | 2,341                       | 1,194                                        | 1,089    | 2,283  | 1,018                                            | 832      | 1,850  | 3,539  | 2,885    | 6,424  |
| Madura District.                |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 124. Madura ...                 | 304                      | 171            | 475    | 289             | 165            | 454    | 819                         | 242                                          | 286      | 528    | 233                                              | 205      | 438    | 950    | 785      | 1,735  |
| 125. Dindigul ...               | 50                       | 40             | 90     | 68              | 30             | 98     | 213                         | 35                                           | 33       | 68     | 29                                               | 19       | 48     | 184    | 145      | 329    |
| 126. Bodinayakanur ...          | 47                       | 15             | 62     | 47              | 7              | 54     | 116                         | 16                                           | 15       | 31     | 14                                               | 9        | 23     | 92     | 78       | 170    |
| 127. Periyakulam ...            | 44                       | 19             | 63     | 50              | 17             | 67     | 130                         | 22                                           | 18       | 40     | 19                                               | 21       | 40     | 104    | 106      | 210    |
| 128. Palni ...                  | 37                       | 7              | 44     | 28              | 8              | 36     | 80                          | 12                                           | 9        | 21     | 12                                               | 13       | 25     | 68     | 58       | 126    |
| 129. Kodaikanal ...             | 22                       | 9              | 31     | 13              | 7              | 20     | 51                          | 8                                            | 13       | 21     | 6                                                | 5        | 11     | 45     | 38       | 83     |
| 130. Kambam ...                 | 40                       | 9              | 49     | 35              | 11             | 46     | 95                          | 11                                           | 11       | 22     | 19                                               | 13       | 32     | 79     | 70       | 149    |
| 131. Gudalur ...                | 39                       | 18             | 57     | 24              | 14             | 38     | 86                          | 19                                           | 16       | 35     | 16                                               | 12       | 28     | 83     | 66       | 149    |
| 132. Tevaram ...                | 35                       | 10             | 45     | 24              | 12             | 36     | 81                          | 8                                            | 11       | 19     | 14                                               | 9        | 23     | 67     | 56       | 123    |
| 133. Chinnamanur ...            | 20                       | 9              | 29     | 17              | 5              | 22     | 51                          | 12                                           | 6        | 18     | 12                                               | 7        | 19     | 53     | 36       | 89     |
| 134. Tirumangalam ...           | 16                       | 3              | 19     | 7               | 4              | 11     | 30                          | 3                                            | 8        | 11     | 6                                                | 9        | 15     | 28     | 25       | 53     |
| 135. Uttamapalayam ...          | 17                       | 9              | 26     | 13              | 2              | 15     | 41                          | 11                                           | 14       | 25     | 5                                                | 3        | 8      | 42     | 32       | 74     |
| 136. Allinagaram ...            | 11                       | 9              | 20     | 18              | 6              | 24     | 44                          | 4                                            | 9        | 13     | 4                                                | 8        | 12     | 28     | 41       | 69     |
| 137. Sholavandan ...            | 23                       | 10             | 33     | 7               | 5              | 12     | 45                          | 9                                            | 7        | 16     | 6                                                | 15       | 21     | 48     | 34       | 82     |
| 138. Usilampatti ...            | 10                       | 1              | 11     | 5               | 3              | 8      | 19                          | 4                                            | 6        | 10     | 4                                                | 2        | 6      | 19     | 16       | 35     |
| 139. Kombai ...                 | 24                       | 4              | 28     | 21              | ...            | 21     | 49                          | 8                                            | 7        | 15     | 5                                                | 3        | 8      | 41     | 31       | 72     |
| 140. Melur ...                  | 6                        | 4              | 10     | 3               | 2              | 5      | 15                          | 2                                            | 5        | 7      | 6                                                | 7        | 13     | 18     | 17       | 35     |
| 141. Nattam ...                 | 7                        | 10             | 17     | 6               | 2              | 8      | 25                          | 4                                            | 6        | 10     | 6                                                | 5        | 11     | 27     | 19       | 46     |
| 142. Tiruparankundram ...       | 7                        | ...            | 7      | 4               | ...            | 4      | 11                          | 4                                            | ...      | 4      | 5                                                | 4        | 9      | 16     | 8        | 24     |
| Malabar District.               |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 143. Calicut ...                | 57                       | 60             | 117    | 49              | 49             | 98     | 215                         | 88                                           | 67       | 155    | 31                                               | 40       | 71     | 231    | 206      | 436    |
| 144. Palghat ...                | 77                       | 40             | 117    | 69              | 36             | 105    | 213                         | 53                                           | 40       | 93     | 35                                               | 18       | 53     | 205    | 154      | 359    |
| 145. Cannanore ...              | 49                       | 18             | 67     | 26              | 14             | 40     | 107                         | 29                                           | 31       | 60     | 12                                               | 17       | 29     | 108    | 85       | 193    |
| 146. Tellicherry ...            | 18                       | 19             | 37     | 16              | 18             | 34     | 71                          | 80                                           | 22       | 102    | 7                                                | 7        | 14     | 74     | 63       | 137    |
| 147. Cochin ...                 | 32                       | 9              | 41     | 19              | 9              | 28     | 69                          | 23                                           | 26       | 49     | 9                                                | 13       | 22     | 73     | 67       | 140    |
| 148. Ponnani ...                | 12                       | 8              | 20     | 8               | 13             | 21     | 41                          | 19                                           | 18       | 37     | 20                                               | 20       | 40     | 58     | 59       | 117    |
| 149. Badagara ...               | 17                       | 6              | 23     | 13              | 2              | 15     | 38                          | 10                                           | 7        | 17     | 5                                                | 5        | 10     | 38     | 27       | 65     |
| 150. Tanur ...                  | ...                      | 6              | 6      | 4               | 4              | 8      | 14                          | 11                                           | 11       | 22     | 4                                                | 6        | 10     | 21     | 25       | 46     |
| Nellore District.               |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |        |          |        |
| 151. Nellore ...                | 96                       | 32             | 128    | 77              | 19             | 96     | 224                         | 61                                           | 74       | 135    | 47                                               | 54       | 101    | 236    | 224      | 460    |
| 152. Venkatagiri ...            | 10                       | 9              | 19     | 8               | 7              | 15     | 34                          | 15                                           | 5        | 20     | 11                                               | 11       | 22     | 48     | 31       | 79     |
| 153. Alluru ...                 | 6                        | 3              | 9      | 10              | 2              | 12     | 21                          | 6                                            | 11       | 17     | 5                                                | 8        | 13     | 20     | 31       | 51     |
| 154. Kavali ...                 | 7                        | 2              | 9      | 5               | 8              | 13     | 26                          | 4                                            | 6        | 10     | 8                                                | 6        | 14     | 21     | 30       | 51     |
| 155. Gudur ...                  | 7                        | 4              | 11     | 7               | 3              | 10     | 21                          | 6                                            | 11       | 17     | 12                                               | 16       | 28     | 37     | 65       | 102    |

rural towns and in the Municipalities and rural towns of the Madras Presidency G.O. Ms. No. 602, P.H., dated 30th March 1931)—cont.

| One and under five years. |          | Five and under ten years. |          | Ten and under 15 years. |          | 15 and under 20 years. |          | 20 and under 30 years. |          | 30 and under 40 years. |          | 40 and under 50 years. |          | 50 and under 60 years. |          | 60 years and upwards. |          | Total of all ages. |          |
|---------------------------|----------|---------------------------|----------|-------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|------------------------|----------|-----------------------|----------|--------------------|----------|
| Males.                    | Females. | Males.                    | Females. | Males.                  | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females. | Males.                | Females. | Males.             | Females. |
| (18)                      | (19)     | (20)                      | (21)     | (22)                    | (23)     | (24)                   | (25)     | (26)                   | (27)     | (28)                   | (29)     | (30)                   | (31)     | (32)                   | (33)     | (34)                  | (35)     | (36)               | (37)     |
| 11                        | 3        | 2                         | 2        | 1                       | ...      | 5                      | 12       | 5                      | 14       | 4                      | 2        | 9                      | 3        | 8                      | 8        | 10                    | 11       | 90                 | 69       |
| 12                        | 6        | 6                         | 3        | 1                       | 8        | 3                      | 3        | 8                      | 9        | 3                      | 7        | 3                      | 4        | 10                     | 5        | 35                    | 14       | 129                | 58       |
| 24                        | 10       | 6                         | 4        | 3                       | 3        | 1                      | 3        | 5                      | 10       | 2                      | 4        | 4                      | 3        | 2                      | 4        | 10                    | 19       | 80                 | 85       |
| 23                        | 4        | 3                         | ...      | 1                       | 1        | 1                      | 5        | 6                      | 11       | 2                      | 6        | 2                      | 1        | 6                      | 6        | 9                     | 10       | 65                 | 75       |
| 158                       | 150      | 46                        | 33       | 27                      | 41       | 21                     | 42       | 99                     | 98       | 83                     | 32       | 74                     | 46       | 68                     | 40       | 183                   | 173      | 1,175              | 1,076    |
| 65                        | 61       | 19                        | 10       | 12                      | 17       | 19                     | 42       | 46                     | 65       | 52                     | 60       | 55                     | 33       | 74                     | 61       | 123                   | 134      | 776                | 727      |
| 27                        | 25       | 6                         | 3        | 8                       | 6        | 4                      | 10       | 17                     | 18       | 9                      | 12       | 4                      | 5        | 12                     | 9        | 23                    | 30       | 191                | 177      |
| 16                        | 21       | 2                         | 5        | 2                       | 3        | 9                      | 14       | 20                     | 15       | 11                     | 9        | 5                      | 14       | 11                     | 19       | 12                    | 155      | 166                | 102      |
| 18                        | 11       | 3                         | 2        | 2                       | 2        | 4                      | 13       | 16                     | 11       | 12                     | 7        | 6                      | 12       | 14                     | 9        | 19                    | 23       | 138                | 126      |
| 10                        | 9        | 2                         | 3        | 2                       | 6        | 4                      | 8        | 5                      | 9        | 4                      | 6        | 3                      | 3        | 5                      | 4        | 22                    | 9        | 101                | 89       |
| 8                         | 2        | ...                       | 3        | 2                       | 4        | 3                      | 3        | 2                      | 13       | 6                      | 5        | 2                      | 4        | 8                      | 5        | 15                    | 19       | 90                 | 34       |
| 7                         | 8        | 4                         | 2        | 2                       | 1        | 9                      | 6        | 6                      | 9        | ...                    | 1        | 6                      | 1        | 4                      | 1        | 15                    | 15       | 53                 | 67       |
| 85                        | 59       | 21                        | 18       | 7                       | 19       | 4                      | 23       | 40                     | 48       | 40                     | 30       | 37                     | 16       | 22                     | 18       | 78                    | 76       | 462                | 393      |
| 86                        | 59       | 22                        | 13       | 8                       | 6        | 8                      | 19       | 32                     | 42       | 24                     | 29       | 23                     | 22       | 21                     | 13       | 58                    | 53       | 341                | 336      |
| 1,046                     | 1,947    | 455                       | 429      | 223                     | 246      | 266                    | 426      | 932                    | 1,168    | 974                    | 855      | 1,008                  | 681      | 970                    | 694      | 2,119                 | 1,961    | 12,432             | 11,927   |
| 690                       | 712      | 109                       | 135      | 67                      | 59       | 91                     | 130      | 298                    | 341      | 321                    | 294      | 364                    | 259      | 366                    | 239      | 680                   | 761      | 3,935              | 3,715    |
| 78                        | 100      | 9                         | 15       | 13                      | 12       | 23                     | 43       | 43                     | 56       | 52                     | 43       | 43                     | 23       | 38                     | 21       | 89                    | 111      | 561                | 559      |
| 38                        | 46       | 16                        | 30       | 21                      | 30       | 9                      | 18       | 26                     | 38       | 33                     | 31       | 31                     | 27       | 30                     | 22       | 47                    | 41       | 343                | 391      |
| 56                        | 41       | 5                         | 8        | 7                       | 5        | 8                      | 10       | 21                     | 16       | 36                     | 21       | 23                     | 17       | 21                     | 14       | 47                    | 71       | 339                | 309      |
| 42                        | 31       | 11                        | 6        | 7                       | 7        | 8                      | 13       | 15                     | 18       | 22                     | 16       | 28                     | 20       | 17                     | 6        | 74                    | 67       | 292                | 243      |
| 17                        | 8        | 4                         | 5        | 3                       | 3        | 1                      | 2        | 8                      | 10       | 4                      | 5        | 9                      | 3        | 3                      | 2        | 15                    | 11       | 109                | 87       |
| 58                        | 65       | 24                        | 29       | 5                       | 7        | 22                     | 19       | 13                     | 24       | 17                     | 19       | 7                      | 14       | 10                     | 13       | 26                    | 27       | 256                | 286      |
| 54                        | 63       | 31                        | 40       | 6                       | 7        | 19                     | 17       | 19                     | 15       | 17                     | 17       | 18                     | 22       | 15                     | 17       | 18                    | 20       | 277                | 293      |
| 30                        | 26       | 3                         | 5        | ...                     | 2        | 11                     | 3        | 16                     | 14       | 10                     | 15       | 7                      | 7        | 7                      | 5        | 17                    | 19       | 181                | 148      |
| 32                        | 28       | ...                       | 2        | ...                     | 4        | 8                      | 3        | 9                      | 14       | 11                     | 7        | 5                      | 5        | 6                      | 10       | 13                    | 16       | 136                | 113      |
| 20                        | 25       | 9                         | 8        | 4                       | 3        | 1                      | 5        | 13                     | 18       | 13                     | 11       | 19                     | 6        | 22                     | 8        | 20                    | 18       | 149                | 110      |
| 15                        | 15       | 1                         | 2        | 2                       | 4        | 3                      | 5        | 6                      | 12       | 4                      | 2        | 2                      | 2        | 3                      | 3        | 16                    | 18       | 93                 | 94       |
| 12                        | 14       | 5                         | 3        | ...                     | ...      | 3                      | 1        | 5                      | 15       | 3                      | 7        | 8                      | 8        | 13                     | 7        | 19                    | 30       | 130                | 116      |
| 18                        | 14       | 2                         | 3        | ...                     | ...      | 4                      | 1        | 6                      | 7        | 2                      | 2        | 1                      | 3        | 8                      | 2        | 5                     | 10       | 57                 | 59       |
| 10                        | 11       | 1                         | 1        | ...                     | ...      | 5                      | 4        | 11                     | 5        | 2                      | 8        | 3                      | 2        | 1                      | 5        | 13                    | 9        | 85                 | 78       |
| 8                         | 17       | 1                         | 3        | 1                       | 4        | 2                      | 1        | 5                      | 4        | 9                      | 4        | 12                     | 5        | 11                     | 6        | 12                    | 19       | 80                 | 80       |
| 11                        | 21       | 6                         | 10       | 1                       | 1        | 2                      | 2        | 4                      | 3        | 14                     | 8        | 8                      | 7        | 5                      | 12       | 25                    | 19       | 103                | 107      |
| 2                         | 6        | 2                         | ...      | ...                     | 1        | 7                      | 6        | 5                      | 11       | 7                      | 7        | 2                      | 8        | 5                      | 7        | 14                    | 15       | 67                 | 69       |
| 134                       | 155      | 66                        | 55       | 40                      | 44       | 55                     | 54       | 143                    | 140      | 123                    | 110      | 141                    | 64       | 101                    | 79       | 224                   | 188      | 1,248              | 1,094    |
| 81                        | 106      | 18                        | 23       | 15                      | 19       | 18                     | 30       | 53                     | 56       | 41                     | 39       | 56                     | 41       | 58                     | 33       | 120                   | 119      | 665                | 613      |
| 50                        | 71       | 11                        | 9        | 4                       | 11       | 5                      | 18       | 25                     | 45       | 33                     | 36       | 47                     | 27       | 46                     | 24       | 62                    | 73       | 391                | 408      |
| 39                        | 39       | 9                         | 17       | 7                       | 11       | 11                     | 15       | 41                     | 35       | 38                     | 28       | 39                     | 18       | 27                     | 16       | 66                    | 79       | 351                | 341      |
| 37                        | 47       | 10                        | 17       | 12                      | 9        | 8                      | 10       | 26                     | 82       | 33                     | 18       | 41                     | 13       | 34                     | 18       | 48                    | 34       | 332                | 265      |
| 45                        | 49       | 14                        | 11       | 4                       | 5        | 3                      | 3        | 6                      | 15       | 7                      | 18       | 0                      | 7        | 23                     | 7        | 35                    | 38       | 216                | 240      |
| 23                        | 30       | 7                         | 6        | 3                       | 2        | 4                      | 5        | 15                     | 7        | 17                     | 16       | 14                     | 8        | 6                      | 6        | 25                    | 28       | 141                | 136      |
| 32                        | 28       | 11                        | 15       | 3                       | 6        | 6                      | 2        | 11                     | 3        | 12                     | 15       | 7                      | 9        | 3                      | 5        | 23                    | 12       | 129                | 119      |
| 134                       | 113      | 28                        | 31       | 30                      | 25       | 25                     | 40       | 59                     | 96       | 65                     | 59       | 81                     | 39       | 67                     | 47       | 179                   | 170      | 904                | 844      |
| 15                        | 17       | 6                         | 5        | 7                       | 5        | 3                      | 7        | 11                     | 18       | 11                     | 17       | 13                     | 11       | 12                     | 9        | 37                    | 31       | 150                | 151      |
| 10                        | 14       | 7                         | 4        | 2                       | 2        | 2                      | 7        | 11                     | 7        | 15                     | 9        | 12                     | 12       | 7                      | 5        | 27                    | 23       | 115                | 116      |
| 25                        | 19       | 3                         | 4        | 4                       | 3        | 6                      | 5        | 10                     | 9        | 7                      | 8        | 7                      | 6        | 7                      | 5        | 16                    | 17       | 98                 | 95       |
| 11                        | 16       | 6                         | 5        | 1                       | 5        | 3                      | 7        | 12                     | 18       | 15                     | 14       | 17                     | 7        | 18                     | 11       | 22                    | 24       | 134                | 126      |







No. IV.—Deaths registered according to Age in the Districts exclusive of Municipalities and rural towns during the year 1934 (compiled with reference to G.O. Ms. No.

| Municipalities and rural towns.                                                                                    | Not exceeding one month. |                |        |                 |                |        |                             | Over one month and not exceeding six months. |          |        | Over six months and not exceeding twelve months. |          |        | Total.  |          |           |
|--------------------------------------------------------------------------------------------------------------------|--------------------------|----------------|--------|-----------------|----------------|--------|-----------------------------|----------------------------------------------|----------|--------|--------------------------------------------------|----------|--------|---------|----------|-----------|
|                                                                                                                    | Males.                   |                |        | Females.        |                |        | Total of cols. (4) and (7). | Males.                                       | Females. | Total. | Males.                                           | Females. | Total. | Males.  | Females. | Total.    |
|                                                                                                                    | Under one week.          | Over one week. | Total. | Under one week. | Over one week. | Total. |                             |                                              |          |        |                                                  |          |        |         |          |           |
|                                                                                                                    |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |         |          |           |
| (1)                                                                                                                | (2)                      | (3)            | (4)    | (5)             | (6)            | (7)    | (8)                         | (9)                                          | (10)     | (11)   | (12)                                             | (13)     | (14)   | (15)    | (16)     | (17)      |
| Vizagapatam District—cont.                                                                                         |                          |                |        |                 |                |        |                             |                                              |          |        |                                                  |          |        |         |          |           |
| 324. Viraghattam ...                                                                                               | 5                        | 5              | 10     | 4               | 4              | 8      | 18                          | 5                                            | 2        | 7      | 2                                                | 3        | 5      | 17      | 13       | 30        |
| 325. Chodavaram ...                                                                                                | 7                        | 4              | 11     | 4               | 2              | 6      | 17                          | 20                                           | 20       | 40     | 13                                               | 2        | 15     | 23      | 33       | 73        |
| 326. Madukula ...                                                                                                  | 7                        | 6              | 12     | 6               | 2              | 8      | 24                          | 10                                           | 8        | 18     | 18                                               | 3        | 21     | 26      | 45       | 73        |
| 327. Chinnamerungi ...                                                                                             | 9                        | 4              | 13     | 5               | 2              | 7      | 20                          | 6                                            | 7        | 13     | 7                                                | 3        | 10     | 23      | 23       | 46        |
| 328. Rajaru ...                                                                                                    | 5                        | 4              | 10     | 2               | 1              | 3      | 19                          | 13                                           | 2        | 15     | 10                                               | 2        | 12     | 22      | 22       | 44        |
| Total for Towns ...                                                                                                | 7,800                    | 3,857          | 11,657 | 5,793           | 3,080          | 8,873  | 30,480                      | 7,545                                        | 6,807    | 14,352 | 5,932                                            | 5,344    | 11,276 | 25,134  | 20,774   | 45,908    |
| Total population according to the census of 1931 ...                                                               | ..                       | ..             | ..     | ..              | ..             | ..     | ..                          | ..                                           | ..       | ..     | ..                                               | ..       | ..     | 88,053  | 87,857   | 175,910   |
| Ratio per mille of births for age periods 0 to 1 year and per mille of population for age periods above 1 year ... | 65.66                    | 32.46          | 98.12  | 51.31           | 26.84          | 78.15  | 83.43                       | 63.51                                        | 58.52    | 61.11  | 50.00                                            | 47.33    | 45.69  | 211.57  | 184.00   | 198.28    |
| Total for the province ...                                                                                         | 63,919                   | 24,833         | 88,757 | 50,413          | 29,187         | 79,607 | 159,356                     | 40,894                                       | 36,741   | 77,635 | 40,867                                           | 37,568   | 78,435 | 170,448 | 144,808  | 315,256   |
| Total population according to the census of 1931 ...                                                               | ..                       | ..             | ..     | ..              | ..             | ..     | ..                          | ..                                           | ..       | ..     | ..                                               | ..       | ..     | 621,573 | 643,793  | 1,265,366 |
| Ratio per mille of births for age periods 0 to 1 year and per mille of population for age periods above 1 year ... | 76.33                    | 29.68          | 106.06 | 63.18           | 25.30          | 88.48  | 97.48                       | 48.99                                        | 46.04    | 47.55  | 48.83                                            | 47.08    | 47.87  | 203.68  | 181.60   | 192.40    |

palties and rural towns and in the Municipalities and rural towns of the Madras Presidency 602, P.H., dated 30th March 1931)—cont.

|       | One and under five years. |          | Five and under ten years. |           | Ten and under 15 years. |          | 15 and under 20 years. |          | 20 and under 30 years. |          | 30 and under 40 years. |           | 40 and under 50 years. |           | 50 and under 60 years. |           | 60 years and upwards. |           | Total of all ages. |            |
|-------|---------------------------|----------|---------------------------|-----------|-------------------------|----------|------------------------|----------|------------------------|----------|------------------------|-----------|------------------------|-----------|------------------------|-----------|-----------------------|-----------|--------------------|------------|
|       | Males.                    | Females. | Males.                    | Females.  | Males.                  | Females. | Males.                 | Females. | Males.                 | Females. | Males.                 | Females.  | Males.                 | Females.  | Males.                 | Females.  | Males.                | Females.  | Males.             | Females.   |
| (18)  | (19)                      | (20)     | (21)                      | (22)      | (23)                    | (24)     | (25)                   | (26)     | (27)                   | (28)     | (29)                   | (30)      | (31)                   | (32)      | (33)                   | (34)      | (35)                  | (36)      | (37)               | (38)       |
| 34.00 | 2,593,860                 | 88,200   | 34.81                     | 366,731   | 12,767                  | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 35.21 | 2,679,072                 | 87,933   | 35.21                     | 365,809   | 12,887                  | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 36.15 | 2,926,934                 | 26,157   | 36.15                     | 413,756   | 3,391                   | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 37.22 | 2,978,506                 | 25,555   | 37.22                     | 393,010   | 3,350                   | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 38.04 | 2,691,809                 | 9,704    | 38.04                     | 380,302   | 1,637                   | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 39.22 | 2,564,536                 | 9,533    | 39.22                     | 360,176   | 1,875                   | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 40.43 | 1,951,734                 | 18,376   | 40.43                     | 375,837   | 2,439                   | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 41.84 | 2,069,323                 | 24,851   | 41.84                     | 386,707   | 3,906                   | 13.55    | 13,555                 | 11.90    | 529,267                | 6,298    | 11.63                  | 4,325,426 | 12.25                  | 3,103,858 | 31.17                  | 1,350,638 | 26.66                 | 1,342,738 | 25.58              | 22,324,401 |
| 42.23 | 3,745,647                 | 34,567   | 42.23                     | 529,267   | 6,298                   | 11.90    | 529,267                | 6,298    | 529,267                | 6,298    | 11.90                  | 529,267   | 6,298                  | 529,267   | 6,298                  | 529,267   | 6,298                 | 529,267   | 6,298              | 529,267    |
| 43.63 | 4,325,426                 | 50,323   | 43.63                     | 680,610   | 8,470                   | 14.34    | 680,610                | 8,470    | 680,610                | 8,470    | 14.34                  | 680,610   | 8,470                  | 680,610   | 8,470                  | 680,610   | 8,470                 | 680,610   | 8,470              | 680,610    |
| 44.09 | 3,177,986                 | 33,419   | 44.09                     | 449,103   | 6,545                   | 14.57    | 449,103                | 6,545    | 449,103                | 6,545    | 14.57                  | 449,103   | 6,545                  | 449,103   | 6,545                  | 449,103   | 6,545                 | 449,103   | 6,545              | 449,103    |
| 45.25 | 3,103,858                 | 38,823   | 45.25                     | 433,030   | 6,370                   | 14.71    | 433,030                | 6,370    | 433,030                | 6,370    | 14.71                  | 433,030   | 6,370                  | 433,030   | 6,370                  | 433,030   | 6,370                 | 433,030   | 6,370              | 433,030    |
| 46.28 | 2,227,760                 | 40,719   | 46.28                     | 314,972   | 6,945                   | 22.06    | 314,972                | 6,945    | 314,972                | 6,945    | 22.06                  | 314,972   | 6,945                  | 314,972   | 6,945                  | 314,972   | 6,945                 | 314,972   | 6,945              | 314,972    |
| 47.14 | 2,109,244                 | 31,925   | 47.14                     | 287,957   | 4,890                   | 16.98    | 287,957                | 4,890    | 287,957                | 4,890    | 16.98                  | 287,957   | 4,890                  | 287,957   | 4,890                  | 287,957   | 4,890                 | 287,957   | 4,890              | 287,957    |
| 48.83 | 1,035,540                 | 102,394  | 48.83                     | 180,940   | 6,906                   | 86.17    | 180,940                | 6,906    | 180,940                | 6,906    | 86.17                  | 180,940   | 6,906                  | 180,940   | 6,906                  | 180,940   | 6,906                 | 180,940   | 6,906              | 180,940    |
| 49.87 | 1,079,833                 | 106,768  | 49.87                     | 183,530   | 6,162                   | 28.12    | 183,530                | 6,162    | 183,530                | 6,162    | 28.12                  | 183,530   | 6,162                  | 183,530   | 6,162                  | 183,530   | 6,162                 | 183,530   | 6,162              | 183,530    |
| 50.58 | 22,324,401                | 571,081  | 50.58                     | 3,156,033 | 87,733                  | 27.79    | 3,156,033              | 87,733   | 3,156,033              | 87,733   | 27.79                  | 3,156,033 | 87,733                 | 3,156,033 | 87,733                 | 3,156,033 | 87,733                | 3,156,033 | 87,733             | 3,156,033  |
| 51.31 | 22,892,330                | 556,408  | 51.31                     | 3,136,574 | 83,720                  | 26.77    | 3,136,574              | 83,720   | 3,136,574              | 83,720   | 26.77                  | 3,136,574 | 83,720                 | 3,136,574 | 83,720                 | 3,136,574 | 83,720                | 3,136,574 | 83,720             | 3,136,574  |

No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during 1934 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1934).

| Municipalities.                | Mortality under one year among |                         |              |                         |                    |                         |         |                         |
|--------------------------------|--------------------------------|-------------------------|--------------|-------------------------|--------------------|-------------------------|---------|-------------------------|
|                                | Hindus.                        |                         | Muhammadans. |                         | Indian Christians. |                         | Others. |                         |
|                                | No.                            | Ratio per 1,000 births. | No.          | Ratio per 1,000 births. | No.                | Ratio per 1,000 births. | No.     | Ratio per 1,000 births. |
| <i>Anantapur District.</i>     |                                |                         |              |                         |                    |                         |         |                         |
| Hindapur ... ..                | 74                             | 163.00                  | 26           | 158.54                  | ...                | ...                     | ...     | ...                     |
| Anantapur ... ..               | 48                             | 126.98                  | 24           | 151.90                  | 2                  | 181.82                  | ...     | ...                     |
| Tadipatri ... ..               | 53                             | 176.67                  | 24           | 144.58                  | 1                  | 333.83                  | ...     | ...                     |
| <i>Bellary District.</i>       |                                |                         |              |                         |                    |                         |         |                         |
| Bellary ... ..                 | 347                            | 298.11                  | 226          | 351.48                  | 10                 | 153.85                  | ...     | ...                     |
| Adoni ... ..                   | 127                            | 141.11                  | 49           | 87.50                   | 2                  | 222.22                  | ...     | ...                     |
| Hospet ... ..                  | 104                            | 157.09                  | 25           | 128.87                  | ...                | ...                     | ...     | ...                     |
| <i>Chingleput District.</i>    |                                |                         |              |                         |                    |                         |         |                         |
| Conjeeveram ... ..             | 444                            | 178.89                  | 18           | 202.25                  | 4                  | 222.22                  | ...     | ...                     |
| Saidapet ... ..                | 232                            | 206.41                  | 5            | 86.21                   | 7                  | 259.26                  | 1       | 500.00                  |
| Chingleput ... ..              | 114                            | 174.05                  | 10           | 212.77                  | 3                  | 107.14                  | ...     | ...                     |
| <i>Chittoor District.</i>      |                                |                         |              |                         |                    |                         |         |                         |
| Chittoor ... ..                | 102                            | 178.47                  | 7            | 78.65                   | 1                  | 83.33                   | ...     | ...                     |
| Tirupati ... ..                | 115                            | 193.80                  | 5            | 88.33                   | 2                  | 1,000.00                | ...     | ...                     |
| <i>Coimbatore District.</i>    |                                |                         |              |                         |                    |                         |         |                         |
| Coimbatore ... ..              | 743                            | 252.89                  | 35           | 197.74                  | 33                 | 110.37                  | ...     | ...                     |
| Erode ... ..                   | 104                            | 165.01                  | 7            | 75.27                   | 5                  | 78.18                   | ...     | ...                     |
| Dharapuram ... ..              | 90                             | 167.29                  | 8            | 81.63                   | 3                  | 81.08                   | ...     | ...                     |
| Pollachi ... ..                | 194                            | 241.29                  | 8            | 112.68                  | 3                  | 150.00                  | ...     | ...                     |
| Tiruppur ... ..                | 68                             | 128.91                  | 5            | 100.00                  | ...                | ...                     | ...     | ...                     |
| Udamalpet ... ..               | 80                             | 202.02                  | 9            | 140.63                  | 1                  | 100.00                  | ...     | ...                     |
| <i>Cuddapah District.</i>      |                                |                         |              |                         |                    |                         |         |                         |
| Cuddapah ... ..                | 84                             | 194.44                  | 73           | 156.99                  | 2                  | 54.05                   | 1       | ...                     |
| Proddatur ... ..               | 86                             | 166.67                  | 41           | 164.66                  | 1                  | 24.39                   | ...     | ...                     |
| <i>Ganjam District.</i>        |                                |                         |              |                         |                    |                         |         |                         |
| Berhampur ... ..               | 165                            | 140.07                  | 5            | 113.64                  | 1                  | 55.55                   | 11      | 95.65                   |
| Parlakimedi ... ..             | 107                            | 165.63                  | 1            | 100.00                  | 1                  | 500.00                  | ...     | ...                     |
| Chicacole ... ..               | 66                             | 135.52                  | 1            | 83.33                   | ...                | ...                     | ...     | ...                     |
| <i>East Godavari District.</i> |                                |                         |              |                         |                    |                         |         |                         |
| Rajahmundry ... ..             | 713                            | 310.00                  | 21           | 175.00                  | 6                  | 95.24                   | 1       | 1,000.00                |
| Cocanada ... ..                | 487                            | 265.88                  | 15           | 121.95                  | 5                  | 142.86                  | ...     | ...                     |
| Peddapuram ... ..              | 70                             | 188.61                  | 6            | 272.73                  | ...                | ...                     | ...     | ...                     |

No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during 1934 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1934)—cont.

| Municipalities.                | Mortality under one year among |                         |              |                         |                    |                         |         |                         |
|--------------------------------|--------------------------------|-------------------------|--------------|-------------------------|--------------------|-------------------------|---------|-------------------------|
|                                | Hindus.                        |                         | Muhammadans. |                         | Indian Christians. |                         | Others. |                         |
|                                | No.                            | Ratio per 1,000 births. | No.          | Ratio per 1,000 births. | No.                | Ratio per 1,000 births. | No.     | Ratio per 1,000 births. |
| <i>West Godavari District.</i> |                                |                         |              |                         |                    |                         |         |                         |
| Ellore ... ..                  | 146                            | 87.85                   | 26           | 105.69                  | 3                  | 75.00                   | ...     | ...                     |
| Palacole ... ..                | 108                            | 229.29                  | ...          | ...                     | ...                | ...                     | ...     | ...                     |
| <i>Guntur District.</i>        |                                |                         |              |                         |                    |                         |         |                         |
| Guntur ... ..                  | 400                            | 203.98                  | 46           | 113.30                  | 35                 | 98.31                   | ...     | ...                     |
| Tenali ... ..                  | 128                            | 179.27                  | 20           | 202.02                  | 4                  | 50.00                   | ...     | ...                     |
| Chirala ... ..                 | 117                            | 186.01                  | 11           | 268.29                  | 10                 | 186.67                  | ...     | ...                     |
| Ongole ... ..                  | 89                             | 168.88                  | 11           | 166.67                  | 11                 | 127.91                  | 5       | 178.57                  |
| Narasaraopet ... ..            | 117                            | 293.23                  | 29           | 226.56                  | 8                  | 170.21                  | 1       | 1,000.00                |
| <i>Kistna District.</i>        |                                |                         |              |                         |                    |                         |         |                         |
| Bezwada ... ..                 | 642                            | 302.83                  | 109          | 310.54                  | 30                 | 102.39                  | ...     | ...                     |
| Masulipatam ... ..             | 472                            | 235.29                  | 69           | 245.55                  | 11                 | 157.14                  | ...     | ...                     |
| <i>Kurnool District.</i>       |                                |                         |              |                         |                    |                         |         |                         |
| Kurnool ... ..                 | 89                             | 106.59                  | 120          | 144.68                  | 5                  | 384.62                  | ...     | ...                     |
| Nandyal ... ..                 | 90                             | 191.08                  | 59           | 163.43                  | 16                 | 197.53                  | 1       | 1,000.00                |
| <i>Madras.</i>                 |                                |                         |              |                         |                    |                         |         |                         |
| Madras ... ..                  | 5,481                          | 235.00                  | 746          | 233.71                  | 206                | 145.89                  | 41      | 96.25                   |
| <i>Madura District.</i>        |                                |                         |              |                         |                    |                         |         |                         |
| Madura ... ..                  | 1,604                          | 287.51                  | 93           | 195.38                  | 35                 | 96.15                   | 3       | ...                     |
| Dindigul ... ..                | 252                            | 193.99                  | 36           | 148.15                  | 41                 | 118.49                  | ...     | ...                     |
| Rodinayakanur ... ..           | 154                            | 144.74                  | 14           | 168.67                  | 2                  | 71.43                   | ...     | ...                     |
| Palni ... ..                   | 113                            | 183.33                  | 10           | 140.85                  | 3                  | 187.50                  | ...     | ...                     |
| Periyakulam ... ..             | 186                            | 230.48                  | 15           | 120.00                  | 9                  | 118.92                  | ...     | ...                     |
| Kodaikanal ... ..              | 21                             | 323.08                  | 3            | 600.00                  | 43                 | 284.77                  | 16      | 266.67                  |
| <i>Malabar District.</i>       |                                |                         |              |                         |                    |                         |         |                         |
| Calicut ... ..                 | 206                            | 93.64                   | 208          | 125.80                  | 21                 | 87.14                   | 1       | ...                     |
| Palghat ... ..                 | 284                            | 178.73                  | 70           | 279.03                  | 5                  | 94.34                   | ...     | ...                     |
| Cannanore ... ..               | 86                             | 132.51                  | 87           | 151.57                  | 23                 | 158.62                  | ...     | ...                     |
| Tellicherry ... ..             | 69                             | 110.58                  | 60           | 118.34                  | 8                  | 111.11                  | ...     | ...                     |
| Cochin ... ..                  | 31                             | 169.89                  | 40           | 178.37                  | 63                 | 186.96                  | 6       | ...                     |
| <i>Nellore District.</i>       |                                |                         |              |                         |                    |                         |         |                         |
| Nellore ... ..                 | 353                            | 233.31                  | 87           | 224.23                  | 19                 | 791.67                  | 1       | ...                     |

No. IV (a).—Infantile Deaths according to Communities in the Municipalities of the Madras Presidency during 1934 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1934)—cont.

| Municipalities.               | Mortality under one year among |                         |              |                         |                    |                         |         |                         |
|-------------------------------|--------------------------------|-------------------------|--------------|-------------------------|--------------------|-------------------------|---------|-------------------------|
|                               | Hindus.                        |                         | Muhammadans. |                         | Indian Christians. |                         | Others. |                         |
|                               | No.                            | Ratio per 1,000 births. | No.          | Ratio per 1,000 births. | No.                | Ratio per 1,000 births. | No.     | Ratio per 1,000 births. |
| <i>Nilgiris, The.</i>         |                                |                         |              |                         |                    |                         |         |                         |
| Ootacamund ... ..             | 82                             | 245.51                  | 37           | 149.19                  | 48                 | 152.87                  | 59      | 234.18                  |
| Coonoor ... ..                | 27                             | 103.45                  | 7            | 200.00                  | 15                 | 76.53                   | ...     | ...                     |
| <i>North Arcot District.</i>  |                                |                         |              |                         |                    |                         |         |                         |
| Vellore ... ..                | 463                            | 190.85                  | 110          | 167.94                  | 9                  | 100.00                  | ...     | ...                     |
| Gudiyattam ... ..             | 98                             | 104.37                  | 15           | 98.75                   | 1                  | 38.46                   | ...     | ...                     |
| Tiruvannamalai ... ..         | 144                            | 201.96                  | 29           | 278.19                  | 1                  | 100.00                  | ...     | ...                     |
| Vaniyambadi ... ..            | 49                             | 162.25                  | 73           | 216.61                  | ...                | ...                     | ...     | ...                     |
| Tirupattur ... ..             | 44                             | 91.02                   | 39           | 184.83                  | ...                | ...                     | ...     | ...                     |
| Walajapet ... ..              | 54                             | 156.98                  | 9            | 136.36                  | ...                | ...                     | ...     | ...                     |
| <i>Ramnad District.</i>       |                                |                         |              |                         |                    |                         |         |                         |
| Srivilliputtur ... ..         | 201                            | 176.00                  | 2            | 250.00                  | 5                  | 113.64                  | ...     | ...                     |
| Virudhunagar ... ..           | 234                            | 211.98                  | 14           | 208.96                  | 11                 | 174.60                  | ...     | ...                     |
| Sivakasi ... ..               | 50                             | 128.26                  | 5            | 192.31                  | 1                  | 100.00                  | ...     | ...                     |
| Karaikudi ... ..              | 97                             | 161.67                  | 7            | 233.33                  | ...                | ...                     | ...     | ...                     |
| <i>Salem District.</i>        |                                |                         |              |                         |                    |                         |         |                         |
| Salem ... ..                  | 612                            | 174.81                  | 55           | 181.51                  | 4                  | 68.97                   | ...     | ...                     |
| <i>South Arcot District.</i>  |                                |                         |              |                         |                    |                         |         |                         |
| Cuddalore ... ..              | 332                            | 199.04                  | 15           | 140.19                  | 7                  | 120.69                  | 54      | 211.76                  |
| Chidambaram ... ..            | 136                            | 188.37                  | 13           | 220.34                  | ...                | ...                     | ...     | ...                     |
| Villupuram ... ..             | 57                             | 116.09                  | 10           | 153.85                  | 11                 | 224.49                  | 4       | 3000.00                 |
| <i>South Kanara District.</i> |                                |                         |              |                         |                    |                         |         |                         |
| Mangalore ... ..              | 176                            | 109.32                  | 35           | 124.56                  | 58                 | 90.06                   | ...     | ...                     |
| <i>Tanjore District.</i>      |                                |                         |              |                         |                    |                         |         |                         |
| Kumbakonam ... ..             | 348                            | 161.04                  | 12           | 146.34                  | 8                  | 101.27                  | 1       | 500.00                  |
| Tanjore ... ..                | 529                            | 221.46                  | 42           | 237.29                  | 33                 | 132.53                  | 1       | ...                     |
| Negapatam ... ..              | 215                            | 186.47                  | 97           | 282.79                  | 21                 | 181.11                  | ...     | ...                     |
| Mayavaram ... ..              | 159                            | 180.68                  | ...          | ...                     | 1                  | 45.45                   | ...     | ...                     |
| Tiruvavur ... ..              | 82                             | 198.55                  | 11           | 234.04                  | ...                | ...                     | ...     | ...                     |
| Mannargudi ... ..             | 146                            | 175.90                  | 4            | 173.91                  | 8                  | 120.00                  | ...     | ...                     |
| <i>Tinnevely District.</i>    |                                |                         |              |                         |                    |                         |         |                         |
| Tinnevely ... ..              | 490                            | 267.61                  | 51           | 226.67                  | 6                  | 200.00                  | ...     | ...                     |
| Palamcottah ... ..            | 257                            | 210.66                  | 155          | 246.42                  | 14                 | 111.11                  | ...     | ...                     |
| Tuticorin ... ..              | 406                            | 235.63                  | 22           | 194.69                  | 89                 | 155.05                  | ...     | ...                     |

No. IV (a).—Infantile deaths according to Communities in the Municipalities of the Madras Presidency during 1934 (prescribed in G.O. Ms. No. 196, P.H., dated 24th January 1934)—cont.

| Municipalities.               | Mortality under one year among |                         |              |                         |                    |                         |         |                         |
|-------------------------------|--------------------------------|-------------------------|--------------|-------------------------|--------------------|-------------------------|---------|-------------------------|
|                               | Hindus.                        |                         | Muhammadans. |                         | Indian Christians. |                         | Others. |                         |
|                               | No.                            | Ratio per 1,000 births. | No.          | Ratio per 1,000 births. | No.                | Ratio per 1,000 births. | No.     | Ratio per 1,000 births. |
| <i>Trichinopoly District.</i> |                                |                         |              |                         |                    |                         |         |                         |
| Trichinopoly ... ..           | 667                            | 199.22                  | 111          | 167.93                  | 93                 | 150.73                  | ...     | ...                     |
| Srirangam ... ..              | 144                            | 193.03                  | ...          | ...                     | ...                | ...                     | ...     | ...                     |
| Karur ... ..                  | 101                            | 188.43                  | 4            | 97.56                   | 3                  | 230.77                  | ...     | ...                     |
| <i>Visagapatam District.</i>  |                                |                         |              |                         |                    |                         |         |                         |
| Visagapatam ... ..            | 601                            | 308.99                  | 4            | 37.38                   | 1                  | 34.48                   | ...     | ...                     |
| Vizianagram ... ..            | 359                            | 223.39                  | 12           | 140.00                  | 3                  | 333.33                  | ...     | ...                     |
| Anakapalle ... ..             | 148                            | 185.46                  | 2            | 181.82                  | ...                | ...                     | ...     | ...                     |
| Bimlipatam ... ..             | 96                             | 262.29                  | 2            | 333.33                  | 1                  | 250.00                  | ...     | ...                     |
| Total ... ..                  | 23,607                         | 208.94                  | 3,627        | 183.08                  | 1,151              | 126.82                  | 208     | 188.41                  |

No. V.—Deaths registered according to Classes in the Districts of the Madras Presidency during the year 1934.

| Number. | Districts.               | Population for which returns were received. |          |              |           |            |            |                |          |            |            |            |      |
|---------|--------------------------|---------------------------------------------|----------|--------------|-----------|------------|------------|----------------|----------|------------|------------|------------|------|
|         |                          | Indian Christians.                          |          | Muhammadans. |           | Hindus.    |            | Other classes. |          | Total.     |            | Total.     |      |
|         |                          | Males.                                      | Females. | Males.       | Females.  | Males.     | Females.   | Males.         | Females. | Males.     | Females.   |            |      |
| (1)     | (2)                      | (3)                                         | (4)      | (5)          | (6)       | (7)        | (8)        | (9)            | (10)     | (11)       | (12)       | (13)       | (14) |
| 1       | Anantapur                | 3,153                                       | 2,862    | 50,515       | 48,439    | 484,987    | 458,801    | 621            | 522      | 539,255    | 510,624    | 1,049,880  |      |
| 2       | Bellary                  | 3,350                                       | 3,273    | 54,191       | 49,613    | 434,332    | 428,093    | 934            | 498      | 482,807    | 476,477    | 959,284    |      |
| 3       | Chingleput               | 18,605                                      | 18,436   | 19,503       | 17,501    | 796,101    | 780,036    | 808            | 441      | 835,017    | 816,414    | 1,651,431  |      |
| 4       | Chittoor                 | 5,235                                       | 5,197    | 41,704       | 38,344    | 691,281    | 665,128    | 16             | 10       | 788,218    | 708,674    | 1,446,890  |      |
| 5       | Coimbatore               | 23,367                                      | 21,779   | 29,335       | 27,029    | 1,184,569  | 1,177,098  | 136            | 57       | 1,217,407  | 1,225,963  | 2,443,370  |      |
| 6       | Cuddapah                 | 18,554                                      | 18,084   | 64,175       | 60,806    | 401,118    | 387,074    | 48             | 9        | 483,895    | 465,473    | 949,368    |      |
| 7       | Ganjam                   | 1,265                                       | 1,256    | 2,849        | 2,636     | 923,313    | 1,098,036  | 13,673         | 12,183   | 941,100    | 1,112,111  | 2,053,211  |      |
| 8       | Godavari, East           | 12,191                                      | 12,283   | 18,132       | 13,555    | 802,571    | 825,284    | 260            | 59       | 828,134    | 851,908    | 1,679,315  |      |
| 9       | Godavari, West           | 2,801                                       | 2,155    | 1,689        | 1,064     | 114,188    | 113,416    | 2,765          | 2,650    | 120,793    | 119,727    | 240,520    |      |
| 10      | Guntur                   | 30,546                                      | 32,070   | 12,379       | 12,623    | 558,656    | 575,904    | 120            | 113      | 602,301    | 620,710    | 1,223,011  |      |
| 11      | Kistna                   | 120,598                                     | 117,046  | 80,956       | 76,860    | 827,075    | 813,759    | 280            | 118      | 1,028,919  | 1,008,613  | 2,036,532  |      |
| 12      | Kurnool                  | 51,920                                      | 49,116   | 32,228       | 30,779    | 551,147    | 538,376    | 289            | 100      | 635,584    | 604,685    | 1,240,269  |      |
| 13      | Madras                   | 19,870                                      | 20,006   | 38,341       | 31,680    | 407,752    | 397,280    | 97             | 16       | 530,202    | 504,685    | 1,034,887  |      |
| 14      | Madura                   | 40,752                                      | 41,563   | 44,948       | 45,839    | 273,661    | 246,500    | 1,950          | 974      | 333,322    | 289,170    | 622,492    |      |
| 15      | Malabar                  | 31,267                                      | 31,496   | 569,032      | 594,421   | 1,113,643  | 1,190,091  | 497            | 846      | 1,714,449  | 1,816,354  | 3,530,803  |      |
| 16      | Nellore                  | 32,184                                      | 32,773   | 51,960       | 51,232    | 659,836    | 657,534    | 14             | 3        | 743,994    | 741,692    | 1,485,686  |      |
| 17      | Nilgiris, The            | 11,312                                      | 10,411   | 6,897        | 4,361     | 70,998     | 60,057     | 443            | 279      | 89,448     | 75,008     | 164,456    |      |
| 18      | North Arcot              | 21,156                                      | 20,716   | 67,593       | 68,442    | 1,037,333  | 1,040,839  | 4,846          | 4,769    | 1,130,978  | 1,134,766  | 2,265,744  |      |
| 19      | Ramanad                  | 48,434                                      | 51,346   | 49,990       | 71,261    | 775,651    | 844,093    | 23             | 11       | 872,098    | 966,710    | 1,838,808  |      |
| 20      | Salem                    | 11,277                                      | 11,343   | 32,091       | 29,791    | 1,167,782  | 1,180,563  | 58             | 40       | 1,221,188  | 1,221,737  | 2,442,925  |      |
| 21      | South Arcot              | 35,622                                      | 35,489   | 88,486       | 87,564    | 1,147,980  | 1,153,533  | 2,503          | 2,434    | 1,224,591  | 1,229,020  | 2,453,611  |      |
| 22      | South Kanara             | 58,000                                      | 63,029   | 88,099       | 92,111    | 512,340    | 548,847    | 4,465          | 4,163    | 663,804    | 708,150    | 1,371,954  |      |
| 23      | Tanjore                  | 44,118                                      | 47,059   | 64,313       | 81,407    | 1,084,852  | 1,113,168  | 326            | 298      | 1,143,509  | 1,241,930  | 2,385,439  |      |
| 24      | Tinnevely                | 107,185                                     | 119,252  | 53,488       | 66,907    | 826,029    | 873,921    | 16             | 8        | 986,657    | 1,059,083  | 2,045,740  |      |
| 25      | Trichinopoly             | 48,078                                      | 52,240   | 35,851       | 36,655    | 848,689    | 888,416    | 271            | 55       | 933,869    | 977,876    | 1,911,745  |      |
| 26      | Vizagapatnam             | 5,455                                       | 5,068    | 11,740       | 11,944    | 1,108,068  | 1,239,408  | 5,293          | 4,682    | 1,190,491  | 1,251,100  | 2,441,591  |      |
|         | Total, Madras Presidency | 843,177                                     | 861,966  | 1,630,476    | 1,673,116 | 19,788,884 | 20,302,687 | 40,718         | 34,856   | 32,803,255 | 32,972,625 | 65,775,880 |      |

No. V.—Deaths registered according to Classes in the Districts of the Madras Presidency during the year 1934—cont.

| Number. | Districts.               | Number of deaths registered. |          |              |          |         |          |                |          |         |          |           |      |
|---------|--------------------------|------------------------------|----------|--------------|----------|---------|----------|----------------|----------|---------|----------|-----------|------|
|         |                          | Indian Christians.           |          | Muhammadans. |          | Hindus. |          | Other classes. |          | Total.  |          | Total.    |      |
|         |                          | Males.                       | Females. | Males.       | Females. | Males.  | Females. | Males.         | Females. | Males.  | Females. |           |      |
| (1)     | (2)                      | (14)                         | (15)     | (16)         | (17)     | (18)    | (19)     | (20)           | (21)     | (22)    | (23)     | (24)      | (25) |
| 1       | Anantapur                | 41                           | 56       | 1,169        | 1,136    | 14,552  | 14,546   | 80             | 24       | 15,792  | 15,792   | 31,584    |      |
| 2       | Bellary                  | 87                           | 81       | 1,577        | 1,554    | 16,430  | 15,972   | 39             | 29       | 18,133  | 17,636   | 35,769    |      |
| 3       | Chingleput               | 28                           | 264      | 370          | 312      | 19,073  | 18,012   | 35             | 17       | 19,768  | 18,605   | 38,373    |      |
| 4       | Chittoor                 | 46                           | 50       | 647          | 650      | 14,368  | 13,873   | 2              | 1        | 16,063  | 14,574   | 30,637    |      |
| 5       | Coimbatore               | 273                          | 268      | 513          | 551      | 26,245  | 24,433   | 8              | 5        | 26,038  | 25,257   | 51,295    |      |
| 6       | Cuddapah                 | 423                          | 389      | 1,281        | 1,308    | 9,208   | 9,088    | 3              | 1        | 10,915  | 10,786   | 21,701    |      |
| 7       | Ganjam                   | 22                           | 18       | 85           | 90       | 31,272  | 31,283   | 81             | 76       | 31,460  | 31,417   | 62,877    |      |
| 8       | Godavari, East           | 214                          | 201      | 335          | 312      | 19,914  | 20,202   | 2              | 3        | 20,465  | 20,718   | 41,183    |      |
| 9       | Godavari, West           | 33                           | 31       | 63           | 54       | 8,364   | 8,124    | 4              | 2        | 8,453   | 8,211    | 16,664    |      |
| 10      | Guntur                   | 632                          | 611      | 347          | 345      | 14,604  | 14,432   | 8              | 9        | 15,591  | 15,397   | 30,988    |      |
| 11      | Kistna                   | 2,227                        | 2,227    | 1,876        | 1,766    | 21,245  | 19,679   | 12             | 6        | 25,421  | 23,668   | 49,089    |      |
| 12      | Kurnool                  | 1,103                        | 1,015    | 819          | 764      | 14,399  | 14,225   | 5              | 3        | 16,326  | 16,007   | 32,333    |      |
| 13      | Madras                   | 893                          | 835      | 2,020        | 1,991    | 12,676  | 12,598   | 4              | 1        | 15,563  | 15,425   | 31,018    |      |
| 14      | Madura                   | 565                          | 487      | 1,482        | 1,322    | 10,263  | 9,306    | 1              | ...      | 12,801  | 11,115   | 23,916    |      |
| 15      | Malabar                  | 839                          | 827      | 1,006        | 1,058    | 26,377  | 24,709   | 3              | 1        | 28,225  | 26,823   | 55,048    |      |
| 16      | Nellore                  | 604                          | 563      | 1,313        | 1,271    | 26,756  | 25,895   | 32             | 18       | 40,710  | 39,192   | 79,902    |      |
| 17      | Nilgiris, The            | 725                          | 695      | 1,199        | 1,032    | 16,268  | 14,900   | 1              | ...      | 18,213  | 16,627   | 34,840    |      |
| 18      | North Arcot              | 194                          | 167      | 201          | 162      | 1,705   | 1,532    | 25             | 18       | 2,125   | 1,879    | 4,004     |      |
| 19      | Ramanad                  | 867                          | 838      | 1,440        | 1,506    | 24,356  | 23,416   | 2              | 205      | 26,424  | 25,465   | 51,889    |      |
| 20      | Salem                    | 198                          | 207      | 474          | 549      | 18,183  | 17,419   | 2              | 1        | 19,908  | 19,348   | 39,256    |      |
| 21      | South Arcot              | 590                          | 546      | 603          | 615      | 23,961  | 23,621   | 9              | 2        | 24,672  | 24,379   | 49,051    |      |
| 22      | South Kanara             | 1,111                        | 1,087    | 1,603        | 1,533    | 29,440  | 28,450   | 110            | 118      | 30,743  | 29,719   | 60,462    |      |
| 23      | Tanjore                  | 1,008                        | 1,054    | 1,694        | 1,881    | 11,937  | 12,014   | 91             | 103      | 14,742  | 14,837   | 29,579    |      |
| 24      | Tinnevely                | 2,267                        | 2,212    | 1,347        | 1,308    | 23,137  | 22,072   | 5              | 3        | 30,774  | 32,010   | 62,784    |      |
| 25      | Trichinopoly             | 1,124                        | 1,205    | 866          | 924      | 22,548  | 22,577   | ...            | ...      | 24,548  | 24,710   | 49,258    |      |
| 26      | Vizagapatnam             | 22                           | 20       | 121          | 100      | 37,150  | 36,009   | 13             | 8        | 37,306  | 36,137   | 73,443    |      |
|         | Total, Madras Presidency | 16,701                       | 16,269   | 87,385       | 86,860   | 516,085 | 502,467  | 794            | 658      | 570,915 | 566,254  | 1,137,169 |      |

No. V.—Deaths registered according to Classes in the Districts of the Madras Presidency during the year 1934—cont.

| Rates of deaths per 1,000 of population. |                         |                    |          |               |          |         |          |                |          |        |          |        |      |
|------------------------------------------|-------------------------|--------------------|----------|---------------|----------|---------|----------|----------------|----------|--------|----------|--------|------|
| Number.                                  | Districts.              | Indian Christians. |          | Muhammadians. |          | Hindus. |          | Other classes. |          | Total. |          | Total. | (35) |
|                                          |                         |                    |          |               |          |         |          |                |          |        |          |        |      |
|                                          |                         | Males.             | Females. | Males.        | Females. | Males.  | Females. | Males.         | Females. | Males. | Females. |        |      |
| (25)                                     | (26)                    | (27)               | (28)     | (29)          | (30)     | (31)    | (32)     | (33)           | (34)     | (35)   | (36)     | (37)   |      |
| 1                                        | Anantapur               | 18.00              | 19.57    | 23.14         | 23.45    | 30.00   | 31.70    | 48.31          | 45.08    | 29.28  | 30.86    | 30.05  |      |
| 2                                        | Bellary                 | 25.97              | 24.75    | 39.10         | 31.32    | 37.82   | 37.75    | 41.76          | 58.23    | 38.79  | 37.01    | 36.90  |      |
| 3                                        | Chingleput              | 15.05              | 14.32    | 18.98         | 17.82    | 23.96   | 23.09    | 43.32          | 38.55    | 23.66  | 22.79    | 23.22  |      |
| 4                                        | Chittoor                | 8.79               | 8.62     | 15.51         | 16.95    | 20.78   | 20.86    | 125.00         | 103.00   | 30.40  | 20.56    | 20.43  |      |
| 5                                        | Coimbatore              | 11.08              | 12.31    | 17.45         | 20.38    | 21.67   | 20.74    | 58.82          | 87.72    | 31.38  | 20.80    | 20.98  |      |
| 6                                        | Cuddapah                | 22.79              | 21.50    | 19.96         | 21.69    | 22.95   | 23.43    | 62.50          | 111.11   | 22.55  | 23.17    | 22.86  |      |
| 7                                        | Ganjam                  | 17.39              | 14.32    | 29.84         | 34.16    | 33.87   | 28.47    | 5.92           | 6.23     | 33.43  | 28.22    | 30.61  |      |
| 8                                        | Godavari, East (Plains. | 17.55              | 16.35    | 25.51         | 23.01    | 24.81   | 24.48    | 8.00           | 50.85    | 24.71  | 24.32    | 24.34  |      |
| 9                                        | Godavari, East (Agency. | 14.99              | 14.39    | 37.37         | 35.86    | 29.46   | 27.77    | 1.45           | 0.73     | 23.67  | 26.80    | 27.74  |      |
| 10                                       | Godavari, West          | 20.69              | 19.05    | 26.73         | 27.32    | 26.14   | 25.06    | 68.67          | 79.65    | 35.88  | 24.80    | 25.81  |      |
| 11                                       | Guntur                  | 18.97              | 19.02    | 28.17         | 22.90    | 25.69   | 24.21    | 41.33          | 50.84    | 24.70  | 23.50    | 24.11  |      |
| 12                                       | Kistna                  | 21.24              | 20.86    | 25.41         | 22.90    | 26.12   | 26.42    | 17.30          | 30.00    | 25.69  | 25.88    | 25.78  |      |
| 13                                       | Kurnool                 | 23.76              | 22.80    | 27.01         | 24.82    | 31.05   | 31.71    | 41.24          | 6.25     | 29.97  | 30.56    | 29.26  |      |
| 14                                       | Madras                  | 27.93              | 24.34    | 38.64         | 41.72    | 37.50   | 37.75    | 00.51          | ...      | 38.84  | 37.15    | 36.59  |      |
| 15                                       | Madura                  | 20.57              | 19.80    | 22.88         | 23.79    | 26.51   | 24.06    | 93.75          | 4.35     | 26.11  | 23.90    | 24.98  |      |
| 16                                       | Malabar                 | 19.48              | 17.87    | 23.39         | 21.39    | 24.02   | 21.74    | 64.39          | 52.02    | 23.73  | 21.67    | 22.63  |      |
| 17                                       | Nellore                 | 23.52              | 21.20    | 33.08         | 20.14    | 24.68   | 22.66    | 71.43          | ...      | 24.48  | 22.42    | 23.44  |      |
| 18                                       | Nilgiris, The           | 17.14              | 16.03    | 30.01         | 33.01    | 24.02   | 25.51    | 56.43          | 64.52    | 23.76  | 25.05    | 24.34  |      |
| 19                                       | North Arcot             | 17.34              | 16.31    | 21.30         | 22.00    | 23.46   | 23.49    | 53.86          | 42.89    | 22.43  | 22.90    | 22.90  |      |
| 20                                       | Rannad                  | 16.51              | 15.87    | 20.12         | 15.62    | 23.38   | 20.64    | 86.96          | 90.91    | 22.88  | 20.01    | 21.35  |      |
| 21                                       | Salem                   | 17.58              | 18.24    | 14.75         | 18.43    | 20.54   | 20.00    | 155.17         | 50.00    | 20.36  | 19.95    | 20.16  |      |
| 22                                       | South Arcot             | 16.56              | 15.38    | 15.67         | 16.10    | 23.64   | 24.65    | 43.94          | 48.48    | 25.10  | 24.18    | 24.83  |      |
| 23                                       | South Kanara            | 18.86              | 17.25    | 18.90         | 17.73    | 23.80   | 21.89    | 20.38          | 24.73    | 22.21  | 20.95    | 21.56  |      |
| 24                                       | Tanjore                 | 22.85              | 22.40    | 25.29         | 23.11    | 27.18   | 26.10    | 16.34          | 10.07    | 26.90  | 25.77    | 26.31  |      |
| 25                                       | Tinnevely               | 21.05              | 18.54    | 25.21         | 21.04    | 27.33   | 25.35    | ...            | ...      | 26.56  | 20.31    | 25.39  |      |
| 26                                       | Trichinopoly            | 22.90              | 23.06    | 24.15         | 25.20    | 26.67   | 25.41    | 29.52          | 73.78    | 28.28  | 25.28    | 25.76  |      |
|                                          | Vizagapatam             | 4.03               | 3.95     | 10.31         | 6.37     | 31.78   | 29.29    | 2.48           | 1.71     | 31.32  | 25.86    | 30.07  |      |
|                                          | Total, Madras Presi-    | 19.81              | 18.87    | 22.92         | 22.02    | 26.08   | 24.74    | 19.50          | 18.88    | 25.59  | 24.31    | 24.95  |      |
|                                          | deney                   |                    |          |               |          |         |          |                |          |        |          |        |      |

No. VI.—BIRTHS AND DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE DISTRICTS AND TOWNS OF THE MADRAS PRESIDENCY DURING THE YEAR 1934.

No. VI.--Births and Deaths registered from Different Causes in the Districts

| Number.                                                                                | Districts and towns.        | Population for which returns were received. | Births. |          |           |                                     | Cholera. | Smallpox. | Plague. | Fever.  | Dysentery and diarrhoea. | Respiratory diseases. |
|----------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------|---------|----------|-----------|-------------------------------------|----------|-----------|---------|---------|--------------------------|-----------------------|
|                                                                                        |                             |                                             | Males.  | Females. | Total.    | Birth-rate per mille of population. |          |           |         |         |                          |                       |
| (1)                                                                                    | (2)                         | (3)                                         | (4)     | (5)      | (6)       | (7)                                 | (8)      | (9)       | (10)    | (11)    | (12)                     | (13)                  |
| <b>A.—RURAL DISTRICTS.</b><br>(Districts exclusive of Municipalities and Rural Towns.) |                             |                                             |         |          |           |                                     |          |           |         |         |                          |                       |
| 1                                                                                      | Anantapur ...               | 941,432                                     | 18,426  | 18,130   | 36,556    | 38.83                               | 10       | 803       | 13      | 10,186  | 1,388                    | 2,578                 |
| 2                                                                                      | Bellary ...                 | 802,325                                     | 14,542  | 13,972   | 28,514    | 35.54                               | 1        | 722       | 906     | 9,468   | 2,055                    | 2,458                 |
| 3                                                                                      | Chingleput ...              | 1,388,780                                   | 24,774  | 23,860   | 48,634    | 35.01                               | 701      | 619       | ...     | 4,172   | 2,269                    | 2,109                 |
| 4                                                                                      | Chittoor ...                | 1,368,384                                   | 23,788  | 22,964   | 46,752    | 34.15                               | 345      | 371       | 7       | 7,293   | 2,980                    | 3,522                 |
| 5                                                                                      | Coimbatore ...              | 2,166,086                                   | 40,786  | 38,848   | 79,634    | 36.75                               | 9        | 369       | 154     | 10,820  | 6,159                    | 6,074                 |
| 6                                                                                      | Cuddapah ...                | 866,341                                     | 14,696  | 14,051   | 28,747    | 33.18                               | 1        | 944       | ...     | 9,287   | 883                      | 1,496                 |
| 7                                                                                      | Ganjām ...                  | 1,930,397                                   | 39,121  | 36,648   | 75,769    | 39.24                               | 3,627    | 244       | ...     | 32,808  | 5,018                    | 3,141                 |
| 8                                                                                      | Godavari, East { Plains ... | 1,436,979                                   | 26,033  | 25,922   | 52,955    | 36.78                               | 156      | 130       | ...     | 13,123  | 1,989                    | 4,475                 |
|                                                                                        | Agency ...                  | 240,520                                     | 4,786   | 4,579    | 9,365     | 38.92                               | ...      | 10        | ...     | 4,225   | 303                      | 929                   |
| 9                                                                                      | Godavari, West ...          | 1,061,133                                   | 21,731  | 20,846   | 42,577    | 40.09                               | 252      | 258       | ...     | 7,877   | 1,809                    | 3,208                 |
| 10                                                                                     | Guntur ...                  | 1,757,167                                   | 33,362  | 31,516   | 64,878    | 36.92                               | 549      | 1,104     | ...     | 15,200  | 2,818                    | 4,181                 |
| 11                                                                                     | Kistna ...                  | 1,080,179                                   | 22,587  | 21,715   | 44,302    | 40.98                               | 339      | 363       | ...     | 8,482   | 1,967                    | 3,695                 |
| 12                                                                                     | Kurnool ...                 | 966,965                                     | 18,903  | 18,296   | 37,199    | 38.47                               | 11       | 2,239     | ...     | 12,011  | 1,596                    | 2,053                 |
| 13                                                                                     | Madura ...                  | 1,751,927                                   | 30,515  | 28,317   | 58,832    | 33.68                               | 4        | 198       | 376     | 8,086   | 5,596                    | 5,109                 |
| 14                                                                                     | Malabar ...                 | 3,258,377                                   | 66,431  | 63,300   | 129,731   | 39.81                               | 4        | 384       | ...     | 32,423  | 8,268                    | 7,002                 |
| 15                                                                                     | Nellore ...                 | 1,362,556                                   | 24,144  | 22,828   | 46,972    | 34.74                               | 390      | 510       | ...     | 7,840   | 3,103                    | 3,238                 |
| 16                                                                                     | Nilgiris, The ...           | 111,521                                     | 1,866   | 1,767    | 3,633     | 32.55                               | ...      | 14        | 2       | 1,182   | 454                      | 473                   |
| 17                                                                                     | North Arcot ...             | 1,928,826                                   | 37,324  | 36,156   | 73,480    | 38.08                               | 811      | 711       | 29      | 10,043  | 4,301                    | 3,244                 |
| 18                                                                                     | Ramnad ...                  | 1,452,498                                   | 22,444  | 21,371   | 43,815    | 30.15                               | 19       | 281       | ...     | 11,521  | 2,307                    | 2,809                 |
| 19                                                                                     | Salem ...                   | 2,237,993                                   | 39,293  | 37,048   | 76,341    | 34.37                               | 231      | 826       | 112     | 15,427  | 2,920                    | 2,530                 |
| 20                                                                                     | South Arcot ...             | 2,214,889                                   | 35,362  | 33,709   | 69,071    | 31.18                               | 5,147    | 1,223     | ...     | 9,270   | 4,883                    | 3,026                 |
| 21                                                                                     | South Kanara ...            | 1,251,743                                   | 23,826  | 22,773   | 46,599    | 37.19                               | 2        | 234       | ...     | 7,914   | 2,581                    | 1,993                 |
| 22                                                                                     | Tanjore ...                 | 1,988,264                                   | 38,187  | 36,468   | 74,655    | 37.41                               | 1,381    | 932       | ...     | 5,039   | 3,498                    | 1,760                 |
| 23                                                                                     | Tinnevely ...               | 1,531,053                                   | 31,264  | 29,610   | 60,874    | 37.74                               | 8        | 412       | ...     | 6,618   | 3,638                    | 2,448                 |
| 24                                                                                     | Trichinopoly ...            | 1,640,987                                   | 27,805  | 26,051   | 53,856    | 32.70                               | 1,842    | 215       | ...     | 8,898   | 4,273                    | 2,609                 |
| 25                                                                                     | Visagapatam ...             | 2,175,639                                   | 45,012  | 43,424   | 88,436    | 40.64                               | 393      | 150       | ...     | 39,387  | 3,109                    | 4,880                 |
|                                                                                        | Total, rural districts ...  | 38,907,511                                  | 717,698 | 684,749  | 1,402,447 | 36.05                               | 16,133   | 14,351    | 1,599   | 299,790 | 80,187                   | 81,537                |

and Towns of the Madras Presidency during the year 1934.

| Injuries. |          |                       |                                       |         |        |                           |                   |                               |          | Ratio of deaths per 1,000 of population. |         |        |                          |                       |           |                           |                   |                  |                                |  |  |  |
|-----------|----------|-----------------------|---------------------------------------|---------|--------|---------------------------|-------------------|-------------------------------|----------|------------------------------------------|---------|--------|--------------------------|-----------------------|-----------|---------------------------|-------------------|------------------|--------------------------------|--|--|--|
| Suicides. |          | Wounds and accidents. | Snake-bite and killed by wild beasts. | Rabies. | Total. | Deaths from child births. | All other causes. | Total deaths from all causes. | Cholera. | Small-pox.                               | Plague. | Fever. | Dysentery and diarrhoea. | Respiratory diseases. | Injuries. | Deaths from child-births. | All other causes. | From all causes. |                                |  |  |  |
| Males.    | Females. |                       |                                       |         |        |                           |                   |                               |          |                                          |         |        |                          |                       |           |                           |                   | For the year.    | Mean for the previous 5 years. |  |  |  |
| (14)      | (15)     | (16)                  | (17)                                  | (18)    | (19)   | (20)                      | (21)              | (22)                          | (23)     | (24)                                     | (25)    | (26)   | (27)                     | (28)                  | (29)      | (30)                      | (31)              | (32)             | (33)                           |  |  |  |
| 35        | 57       | 129                   | 102                                   | 13      | 316    | 541                       | 12,795            | 28,730                        | 0.01     | 0.93                                     | 0.01    | 10.81  | 1.48                     | 2.74                  | 0.35      | 0.57                      | 13.59             | 30.51            | 28.15                          |  |  |  |
| 48        | 48       | 95                    | 54                                    | 1       | 246    | 247                       | 14,151            | 30,254                        | 0.001    | 0.90                                     | 1.13    | 11.80  | 2.56                     | 3.06                  | 0.31      | 0.31                      | 17.64             | 37.70            | 30.72                          |  |  |  |
| 36        | 24       | 113                   | 74                                    | 21      | 268    | 289                       | 21,094            | 31,521                        | 0.50     | 0.44                                     | ...     | 3.00   | 1.63                     | 1.52                  | 0.19      | 0.21                      | 15.19             | 22.69            | 23.63                          |  |  |  |
| 45        | 82       | 152                   | 105                                   | 23      | 407    | 325                       | 12,617            | 27,767                        | 0.18     | 0.27                                     | 0.01    | 5.33   | 2.16                     | 2.57                  | 0.30      | 0.24                      | 9.22              | 20.38            | 23.33                          |  |  |  |
| 70        | 79       | 300                   | 198                                   | 8       | 655    | 373                       | 19,870            | 44,413                        | 0.004    | 0.12                                     | 0.07    | 4.99   | 2.26                     | 2.80                  | 0.30      | 0.17                      | 9.17              | 20.50            | 21.26                          |  |  |  |
| 16        | 46       | 86                    | 38                                    | 2       | 118    | 299                       | 6,463             | 19,561                        | 0.001    | 1.09                                     | ...     | 10.72  | 1.02                     | 1.73                  | 0.22      | 0.36                      | 7.46              | 22.58            | 23.00                          |  |  |  |
| 34        | 33       | 185                   | 69                                    | 6       | 287    | 423                       | 14,230            | 59,778                        | 1.88     | 0.13                                     | ...     | 16.99  | 2.60                     | 1.63                  | 0.15      | 0.22                      | 7.37              | 30.96            | 24.70                          |  |  |  |
| 49        | 64       | 119                   | 51                                    | 9       | 292    | 404                       | 14,043            | 34,672                        | 0.11     | 0.09                                     | ...     | 9.13   | 1.38                     | 3.11                  | 0.20      | 0.32                      | 9.77              | 24.18            | 23.29                          |  |  |  |
| 7         | 3        | 21                    | 8                                     | 1       | 40     | 67                        | 1,100             | 6,674                         | ...      | 0.04                                     | ...     | 17.56  | 1.28                     | 3.86                  | 0.17      | 0.27                      | 4.57              | 27.73            | 23.78                          |  |  |  |
| 32        | 42       | 101                   | 56                                    | 4       | 235    | 386                       | 13,397            | 27,232                        | 0.24     | 0.24                                     | ...     | 7.13   | 1.87                     | 3.02                  | 0.22      | 0.36                      | 12.61             | 25.68            | 26.61                          |  |  |  |
| 56        | 91       | 147                   | 74                                    | 11      | 381    | 419                       | 17,076            | 42,328                        | 0.31     | 0.68                                     | ...     | 8.65   | 1.60                     | 2.38                  | 0.22      | 0.24                      | 10.04             | 24.08            | 24.92                          |  |  |  |
| 24        | 38       | 111                   | 59                                    | 7       | 234    | 420                       | 11,825            | 27,125                        | 0.31     | 0.34                                     | ...     | 7.85   | 1.73                     | 3.33                  | 0.22      | 0.39                      | 10.94             | 25.09            | 23.70                          |  |  |  |
| 26        | 40       | 72                    | 196                                   | 4       | 347    | 300                       | 10,324            | 25,487                        | 0.01     | 2.92                                     | ...     | 13.04  | 1.65                     | 2.12                  | 0.36      | 0.32                      | 10.68             | 30.49            | 28.76                          |  |  |  |
| 47        | 102      | 249                   | 196                                   | 15      | 609    | 329                       | 20,286            | 40,500                        | 0.002    | 0.11                                     | 0.21    | 4.62   | 3.20                     | 2.92                  | 0.35      | 0.19                      | 11.58             | 23.17            | 22.74                          |  |  |  |
| 122       | 84       | 463                   | 186                                   | 33      | 888    | 779                       | 33,547            | 73,290                        | 0.001    | 0.12                                     | ...     | 6.88   | 2.54                     | 2.15                  | 0.27      | 0.24                      | 10.29             | 23.49            | 22.89                          |  |  |  |
| 71        | 73       | 199                   | 62                                    | 2       | 406    | 306                       | 15,535            | 31,328                        | 0.28     | 0.37                                     | ...     | 5.75   | 2.28                     | 2.38                  | 0.30      | 0.22                      | 11.40             | 22.98            | 22.77                          |  |  |  |
| 1         | ...      | 4                     | 5                                     | ...     | 10     | 17                        | 651               | 2,808                         | ...      | 0.19                                     | 0.02    | 10.59  | 4.07                     | 4.24                  | 0.09      | 0.15                      | 5.83              | 25.12            | 29.31                          |  |  |  |
| 126       | 84       | 281                   | 143                                   | 25      | 689    | 507                       | 23,091            | 43,396                        | 0.42     | 0.37                                     | 0.02    | 5.21   | 2.23                     | 1.88                  | 0.34      | 0.26                      | 11.97             | 22.50            | 23.70                          |  |  |  |
| 15        | 28       | 127                   | 76                                    | 6       | 252    | 280                       | 13,137            | 30,506                        | 0.01     | 0.19                                     | ...     | 7.98   | 1.59                     | 1.93                  | 0.17      | 0.19                      | 9.03              | 21.06            | 20.94                          |  |  |  |
| 96        | 129      | 370                   | 150                                   | 16      | 761    | 468                       | 21,829            | 45,104                        | 0.10     | 0.37                                     | 0.05    | 6.89   | 1.30                     | 1.13                  | 0.34      | 0.21                      | 9.75              | 20.11            | 21.22                          |  |  |  |
| 98        | 73       | 211                   | 169                                   | 13      | 504    | 426                       | 29,314            | 54,653                        | 2.32     | 0.55                                     | ...     | 4.19   | 2.20                     | 1.84                  | 0.26      | 0.28                      | 13.23             | 24.07            | 23.01                          |  |  |  |
| 87        | 45       | 252                   | 54                                    | 33      | 441    | 510                       | 13,675            | 27,150                        | 0.001    | 0.18                                     | ...     | 6.32   | 2.06                     | 1.59                  | 0.35      | 0.25                      | 10.92             | 31.67            | 23.02                          |  |  |  |
| 86        | 48       | 176                   | 114                                   | 14      | 408    | 1,019                     | 37,896            | 51,728                        | 0.69     | 0.47                                     | ...     | 2.53   | 1.75                     | .88                   | 0.21      | 0.51                      | 15.90             | 25.94            | 23.55                          |  |  |  |
| 28        | 34       | 197                   | 60                                    | 11      | 330    | 512                       | 24,616            | 38,609                        | 0.005    | 0.27                                     | ...     | 4.35   | 2.30                     | 1.80                  | 0.22      | 0.34                      | 16.19             | 25.37            | 24.85                          |  |  |  |
| 68        | 79       | 258                   | 143                                   | 16      | 584    | 639                       | 22,729            | 41,689                        | 1.12     | 0.13                                     | ...     | 5.39   | 2.60                     | 1.57                  | 0.34      | 0.38                      | 13.85             | 25.41            | 23.81                          |  |  |  |
| 46        | 83       | 249                   | 89                                    | 8       | 425    | 468                       | 16,735            | 65,487                        | 0.18     | 0.07                                     | ...     | 18.08  | 1.43                     | 2.24                  | 0.20      | 0.22                      | 7.69              | 30.10            | 28.18                          |  |  |  |
| 1,801     | 1,462    | 4,637                 | 2,521                                 | 302     | 10,223 | 10,809                    | 442,446           | 955,975                       | 0.41     | 0.37                                     | 0.04    | 7.88   | 2.03                     | 2.10                  | 0.26      | 0.25                      | 11.37             | 24.67            | 23.65                          |  |  |  |



| Number.                                 | Districts and towns.        | Popula-<br>tion for<br>which<br>returns<br>were<br>received. | Births. |          |        |                                                | Cholera. | Smallpox. | Plague. | Fever. | Dysentery<br>and<br>diarrhoea. | Respiratory diseases. | Suicide. |
|-----------------------------------------|-----------------------------|--------------------------------------------------------------|---------|----------|--------|------------------------------------------------|----------|-----------|---------|--------|--------------------------------|-----------------------|----------|
|                                         |                             |                                                              | Males.  | Females. | Total. | Birth-rate<br>per<br>mille of popula-<br>tion. |          |           |         |        |                                |                       |          |
| (1)                                     | (2)                         | (3)                                                          | (4)     | (5)      | (6)    | (7)                                            | (8)      | (9)       | (10)    | (11)   | (12)                           | (13)                  | (14)     |
| B.—TOWNS—cont.                          |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| MUNICIPALITIES AND<br>RURAL TOWNS—cont. |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| Coimbatore—cont.                        |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| 52                                      | T.C. Mettupalaiyam ...      | 11,475                                                       | 262     | 232      | 494    | 43'05                                          | ...      | 14        | ...     | 87     | 48                             | 45                    | ...      |
| 53                                      | T.C. Kottur ...             | 9,555                                                        | 165     | 171      | 336    | 35'16                                          | ...      | 1         | ...     | 52     | 32                             | 34                    | ...      |
| 54                                      | T.C. Palladam ...           | 6,987                                                        | 95      | 71       | 166    | 23'76                                          | ...      | ...       | ...     | 21     | 17                             | 19                    | ...      |
| 55                                      | T.C. Bhavani ...            | 6,896                                                        | 136     | 124      | 260    | 37'70                                          | ...      | ...       | ...     | 12     | 14                             | 17                    | ...      |
| Cuddapah.                               |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| 56                                      | M.T.C. Cuddapah ...         | 22,602                                                       | 490     | 444      | 934    | 41'32                                          | ...      | 37        | ...     | 74     | 62                             | 82                    | 1        |
| 57                                      | M.T.C. Proddatur ...        | 20,124                                                       | 412     | 394      | 806    | 40'05                                          | ...      | 54        | ...     | 60     | 50                             | 84                    | ...      |
| 58                                      | T.C. Jammalamadugu ...      | 15,944                                                       | 312     | 313      | 625    | 39'20                                          | ...      | 35        | ...     | 178    | 15                             | 24                    | ...      |
| 59                                      | T.C. Rayachoti ...          | 7,025                                                        | 145     | 150      | 295    | 41'99                                          | ...      | ...       | ...     | 39     | 17                             | 9                     | ...      |
| 60                                      | T.C. Vempalli ...           | 6,284                                                        | 120     | 112      | 232    | 36'92                                          | ...      | 18        | ...     | 69     | 31                             | 20                    | ...      |
| 61                                      | T.C. Kamalapuram ...        | 5,808                                                        | 68      | 78       | 140    | 24'10                                          | ...      | 8         | ...     | 64     | 23                             | 2                     | ...      |
| 62                                      | T.C. Badvel ...             | 5,239                                                        | 106     | 106      | 212    | 40'46                                          | ...      | 8         | ...     | 31     | 2                              | 20                    | 1        |
| Ganjam.                                 |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| 63                                      | M.T.C. Berhampur ...        | 37,750                                                       | 673     | 683      | 1,356  | 35'92                                          | 57       | ...       | ...     | 201    | 55                             | 151                   | ...      |
| 64                                      | M.T.O. Parlakimedi ...      | 20,072                                                       | 355     | 303      | 658    | 22'78                                          | 19       | ...       | ...     | 77     | 72                             | 71                    | ...      |
| 65                                      | M.T.C. Chicacole ...        | 16,588                                                       | 277     | 226      | 503    | 30'32                                          | 133      | 6         | ...     | 73     | 101                            | 43                    | ...      |
| 66                                      | T.C. Ichchapuram ...        | 10,313                                                       | 190     | 186      | 376    | 37'46                                          | 99       | ...       | ...     | 129    | 29                             | 11                    | ...      |
| 67                                      | T.C. Narasimhapeta ...      | 9,667                                                        | 92      | 98       | 190    | 19'65                                          | ...      | ...       | ...     | 59     | 29                             | 15                    | ...      |
| 68                                      | T.C. Tekkali ...            | 8,675                                                        | 140     | 142      | 282    | 32'51                                          | 7        | ...       | ...     | 90     | 50                             | 21                    | ...      |
| 69                                      | T.C. Sompeta ...            | 8,083                                                        | 125     | 128      | 253    | 31'29                                          | 1        | ...       | ...     | 78     | 28                             | 11                    | ...      |
| 70                                      | T.C. Russelkonda ...        | 6,743                                                        | 162     | 124      | 286    | 42'38                                          | 14       | ...       | ...     | 74     | 14                             | 4                     | ...      |
| 71                                      | T.C. Aska ...               | 5,015                                                        | 112     | 98       | 210    | 41'87                                          | 14       | ...       | ...     | 66     | 13                             | 3                     | ...      |
| Godavari, East<br>(Plains).             |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| 72                                      | M.T.C. Cocanada ...         | 65,952                                                       | 1,041   | 966      | 2,007  | 30'43                                          | 1        | 105       | ...     | 414    | 63                             | 177                   | ...      |
| 73                                      | M.T.C. Rajahmundry ...      | 63,625                                                       | 1,395   | 1,203    | 2,498  | 39'32                                          | 1        | 16        | ...     | 340    | 109                            | 246                   | ...      |
| 74                                      | M.T.C. Peddapuram ...       | 17,338                                                       | 264     | 271      | 535    | 30'86                                          | ...      | 4         | ...     | 122    | 16                             | 1                     | ...      |
| 75                                      | T.C. Samalkot ...           | 18,001                                                       | 260     | 334      | 594    | 32'44                                          | ...      | ...       | ...     | 208    | 19                             | 51                    | ...      |
| 76                                      | T.C. Pithapuram ...         | 16,151                                                       | 295     | 269      | 564    | 34'92                                          | ...      | ...       | ...     | 374    | 8                              | 33                    | ...      |
| 77                                      | T.C. Amalapuram ...         | 15,213                                                       | 240     | 248      | 488    | 32'08                                          | ...      | 5         | ...     | 108    | 28                             | 48                    | ...      |
| 78                                      | T.C. Tuni ...               | 11,567                                                       | 224     | 150      | 404    | 24'93                                          | ...      | 19        | ...     | 212    | 13                             | 21                    | ...      |
| 79                                      | T.C. Mandapeta ...          | 11,531                                                       | 190     | 197      | 387    | 33'56                                          | ...      | ...       | ...     | 61     | 18                             | 14                    | ...      |
| 80                                      | T.C. Dowlaishweram ...      | 9,733                                                        | 183     | 172      | 355    | 36'47                                          | ...      | ...       | ...     | 91     | 2                              | 4                     | ...      |
| 81                                      | T.C. Ramachandra-<br>puram. | 7,720                                                        | 163     | 173      | 336    | 43'52                                          | ...      | ...       | ...     | 90     | 4                              | 31                    | 1        |
| 82                                      | T.O. Bikkavolu ...          | 5,604                                                        | 106     | 101      | 207    | 36'94                                          | ...      | ...       | ...     | 55     | 12                             | 24                    | ...      |
| Godavari, West.                         |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| 83                                      | M.T.C. Ellore ...           | 57,342                                                       | 1,041   | 907      | 1,948  | 33'97                                          | 6        | 240       | ...     | 168    | 104                            | 98                    | 1        |
| 84                                      | M.T.C. Palacole ...         | 16,906                                                       | 245     | 236      | 471    | 27'86                                          | 6        | 1         | ...     | 22     | 41                             | 41                    | ...      |
| 85                                      | T.C. Penukonda ...          | 15,819                                                       | 308     | 298      | 606    | 38'80                                          | 15       | 5         | ...     | 99     | 26                             | 44                    | ...      |
| 86                                      | T.C. Narasapur ...          | 13,961                                                       | 278     | 290      | 568    | 36'39                                          | 8        | 1         | ...     | 146    | 6                              | 34                    | ...      |
| 87                                      | T.C. Attili ...             | 12,930                                                       | 297     | 274      | 571    | 44'16                                          | 1        | ...       | ...     | 43     | 8                              | 20                    | ...      |
| 88                                      | T.C. Tanuku ...             | 10,881                                                       | 231     | 226      | 457    | 42'00                                          | 2        | ...       | ...     | 63     | 15                             | 10                    | ...      |
| 89                                      | T.C. Achanta ...            | 9,959                                                        | 159     | 162      | 321    | 32'23                                          | 10       | ...       | ...     | 31     | 7                              | 11                    | ...      |
| 90                                      | T.C. Bhimavaram ...         | 9,839                                                        | 179     | 167      | 346    | 35'17                                          | 10       | 4         | ...     | 29     | 16                             | 21                    | ...      |
| 91                                      | T.C. Nidadavolu ...         | 7,822                                                        | 136     | 104      | 240    | 30'68                                          | ...      | ...       | ...     | 57     | 15                             | 37                    | ...      |
| 92                                      | T.O. Kovvur ...             | 6,619                                                        | 137     | 117      | 250    | 37'77                                          | ...      | ...       | ...     | 33     | 10                             | 12                    | ...      |
| Guntur.                                 |                             |                                                              |         |          |        |                                                |          |           |         |        |                                |                       |          |
| 93                                      | M.T.C. Guntur ...           | 65,179                                                       | 1,415   | 1,310    | 2,725  | 41'81                                          | 3        | 101       | ...     | 208    | 125                            | 231                   | 5        |
| 94                                      | M.T.C. Tenali ...           | 34,580                                                       | 456     | 438      | 894    | 25'83                                          | 6        | 75        | ...     | 26     | 32                             | 44                    | 1        |
| 95                                      | M.T.C. Chirala ...          | 18,853                                                       | 414     | 316      | 730    | 38'72                                          | ...      | 23        | ...     | 90     | 35                             | 19                    | ...      |
| 96                                      | M.T.C. Ongole ...           | 16,672                                                       | 357     | 350      | 707    | 42'41                                          | 2        | 10        | ...     | 47     | 77                             | 85                    | ...      |
| 97                                      | M.T.C. Narasaraopet ...     | 15,493                                                       | 399     | 368      | 757    | 37'33                                          | ...      | 6         | ...     | 42     | 141                            | 111                   | ...      |
| 98                                      | T.O. Bapatla ...            | 13,543                                                       | 197     | 222      | 413    | 31'40                                          | 2        | 2         | ...     | 98     | 5                              | 6                     | ...      |
| 99                                      | T.O. Vetapalem ...          | 11,102                                                       | 203     | 186      | 389    | 35'04                                          | ...      | 6         | ...     | 92     | 31                             | 26                    | 1        |
| 100                                     | T.O. Ponnuru ...            | 11,101                                                       | 178     | 148      | 326    | 29'37                                          | 4        | 3         | ...     | 117    | 20                             | 9                     | 1        |
| 101                                     | T.C. Mangalagiri ...        | 10,972                                                       | 171     | 153      | 323    | 29'58                                          | ...      | 18        | ...     | 62     | 10                             | 21                    | ...      |
| 102                                     | T.C. Ohsabolu ...           | 10,576                                                       | 189     | 176      | 364    | 34'43                                          | 1        | ...       | ...     | 122    | 8                              | 44                    | 1        |
| 103                                     | T.O. Addanki ...            | 9,150                                                        | 145     | 154      | 299    | 32'65                                          | ...      | 2         | ...     | 43     | 38                             | 83                    | ...      |
| 104                                     | T.C. Vinukonda ...          | 7,711                                                        | 170     | 149      | 318    | 41'24                                          | ...      | 4         | ...     | 46     | 28                             | 40                    | 1        |

| Injuries. |                       |                                       |         |        | Ratio of deaths per 1,000 of population. |                   |                          |          |           |         |        |                          |                       |           |                           |                   |                  |                                |  |  |  |  |
|-----------|-----------------------|---------------------------------------|---------|--------|------------------------------------------|-------------------|--------------------------|----------|-----------|---------|--------|--------------------------|-----------------------|-----------|---------------------------|-------------------|------------------|--------------------------------|--|--|--|--|
| Females.  | Wounds and accidents. | Snake-bite and killed by wild beasts. | Rabies. | Total. | Deaths from child births.                | All other causes. | Total deaths all causes. | Cholera. | Smallpox. | Plague. | Fever. | Dysentery and diarrhoea. | Respiratory diseases. | Injuries. | Deaths from child births. | All other causes. | From all causes. |                                |  |  |  |  |
|           |                       |                                       |         |        |                                          |                   |                          |          |           |         |        |                          |                       |           |                           |                   | For the year.    | Mean for the previous 5 years. |  |  |  |  |
| (15)      | (16)                  | (17)                                  | (18)    | (19)   | (20)                                     | (21)              | (22)                     | (23)     | (24)      | (25)    | (26)   | (27)                     | (28)                  | (29)      | (30)                      | (31)              | (32)             | (33)                           |  |  |  |  |
| 3         | 1                     | ...                                   | ...     | 4      | 3                                        | 141               | 339                      | ...      | 1'23      | ...     | 7'53   | 4'01                     | 3'92                  | 0'35      | 0'17                      | 12'29             | 29'54            | 32'30                          |  |  |  |  |
| ...       | 5                     | 1                                     | 1       | 8      | 3                                        | 117               | 239                      | ...      | 0'10      | ...     | 5'44   | 3'35                     | 3'66                  | ...       | 0'31                      | 13'24             | 25'01            | 23'66                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 2                                        | 38                | 95                       | ...      | ...       | ...     | 3'01   | 2'43                     | 2'72                  | 1'14      | 0'29                      | 4'01              | 13'60            | 20'02                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 1                                        | 106               | 150                      | ...      | ...       | ...     | 1'74   | 2'03                     | 2'47                  | ...       | 0'15                      | 15'37             | 21'76            | 31'18                          |  |  |  |  |
| 1         | 15                    | ...                                   | 1       | 18     | 28                                       | 303               | 604                      | ...      | 1'64      | ...     | 3'27   | 2'74                     | 3'63                  | 0'80      | 1'24                      | 13'41             | 26'73            | 26'35                          |  |  |  |  |
| 1         | 10                    | ...                                   | 1       | 12     | 12                                       | 246               | 518                      | ...      | 2'68      | ...     | 2'98   | 2'48                     | 4'17                  | 0'60      | 0'60                      | 12'23             | 25'74            | 24'08                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | 4      | 4                                        | 150               | 403                      | ...      | 2'20      | ...     | 11'16  | 0'75                     | 1'51                  | ...       | 0'25                      | 9'41              | 25'28            | 29'71                          |  |  |  |  |
| ...       | ...                   | 1                                     | ...     | 6      | 4                                        | 89                | 164                      | ...      | ...       | ...     | 5'55   | 2'42                     | 1'28                  | 0'85      | 0'57                      | 12'67             | 23'35            | 18'19                          |  |  |  |  |
| ...       | ...                   | 1                                     | ...     | 1      | 4                                        | 34                | 177                      | ...      | 2'86      | ...     | 10'98  | 4'93                     | 3'18                  | 0'16      | 0'64                      | 5'41              | 28'17            | 19'82                          |  |  |  |  |
| 1         | ...                   | ...                                   | ...     | 3      | 7                                        | 45                | 151                      | ...      | 1'38      | ...     | 11'02  | 3'79                     | 0'34                  | 0'52      | 1'21                      | 7'75              | 25'99            | 17'06                          |  |  |  |  |
| 1         | ...                   | ...                                   | ...     | 2      | 1                                        | 59                | 123                      | ...      | 1'53      | ...     | 5'32   | 0'38                     | 3'82                  | 0'38      | 0'19                      | 11'26             | 23'48            | 24'20                          |  |  |  |  |
| ...       | 9                     | ...                                   | ...     | 9      | 19                                       | 388               | 890                      | 1'51     | ...       | ...     | 5'32   | 1'46                     | 4'00                  | 0'24      | 0'50                      | 10'38             | 23'31            | 19'83                          |  |  |  |  |
| ...       | 4                     | ...                                   | ...     | 8      | 8                                        | 214               | 466                      | 0'95     | ...       | ...     | 3'84   | 3'59                     | 3'84                  | 0'25      | 0'40                      | 10'66             | 23'22            | 21'67                          |  |  |  |  |
| 1         | 2                     | 1                                     | ...     | 4      | 5                                        | 104               | 469                      | 8'02     | 0'36      | ...     | 4'40   | 6'09                     | 2'59                  | 0'24      | 0'30                      | 6'27              | 28'27            | 22'19                          |  |  |  |  |
| ...       | 4                     | 1                                     | ...     | 5      | 5                                        | 61                | 389                      | 9'90     | ...       | ...     | 12'51  | 2'81                     | 1'07                  | 0'48      | 0'48                      | 5'91              | 32'67            | 19'87                          |  |  |  |  |
| 1         | 1                     | ...                                   | ...     | 3      | 3                                        | 34                | 143                      | ...      | ...       | ...     | 6'10   | 3'00                     | 1'55                  | 0'31      | 0'31                      | 3'52              | 14'79            | 17'21                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 1      | 4                                        | 97                | 270                      | 0'81     | ...       | ...     | 10'37  | 5'76                     | 2'42                  | 0'12      | 0'46                      | 11'18             | 31'12            | 21'52                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 4                                        | 70                | 185                      | 0'12     | ...       | ...     | 9'03   | 3'22                     | 1'36                  | ...       | 0'49                      | 8'66              | 23'88            | 24'41                          |  |  |  |  |
| ...       | 2                     | 2                                     | ...     | 4      | 3                                        | 81                | 194                      | 2'07     | ...       | ...     | 10'97  | 2'07                     | 0'59                  | 0'59      | 0'44                      | 12'00             | 26'75            | 18'99                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 1      | 1                                        | 55                | 153                      | 2'79     | ...       | ...     | 13'16  | 2'59                     | 0'60                  | 0'20      | 0'20                      | 10'97             | 30'51            | ...                            |  |  |  |  |
| ...       | 14                    | ...                                   | 3       | 17     | 24                                       | 1,010             | 1,811                    | 0'02     | 1'59      | ...     | 6'28   | 0'96                     | 2'68                  | 0'26      | 0'36                      | 15'31             | 27'46            | 25'25                          |  |  |  |  |
| ...       | 20                    | ...                                   | 2       | 30     | 40                                       | 1,182             | 1,973                    | 0'02     | 0'25      | ...     | 5'49   | 1'72                     | 3'87                  | 0'47      | 0'63                      | 18'61             | 31'06            | 26'68                          |  |  |  |  |
| 1         | 3                     | ...                                   | 1       | 6      | 15                                       | 204               | 355                      | ...      | 0'23      | ...     | 7'04   | 0'92                     | 1'04                  | 0'35      | 0'87                      | 11'77             | 22'21            | 16'13                          |  |  |  |  |
| ...       | 1                     | 1                                     | ...     | 6      | 5                                        | 77                | 361                      | ...      | ...       | ...     | 11'28  | 1'06                     | 2'83                  | 0'33      | 0'28                      | 4'28              | 20'05            | 13'44                          |  |  |  |  |
| 1         | 1                     | 2                                     | ...     | 4      | ...                                      | 31                | 480                      | ...      | ...       | ...     | 23'16  | 0'40                     | 3'90                  | 0'25      | ...                       | 1'92              | 29'72            | 23'71                          |  |  |  |  |
| ...       | 7                     | ...                                   | 1       | 8      | ...                                      | 163               | 366                      | ...      | 0'33      | ...     | 7'10   | 1'84                     | 3'16                  | 0'53      | 0'39                      | 10'71             | 24'06            | 21'97                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 7      | 7                                        | 54                | 327                      | ...      | 1'64      | ...     | 18'33  | 1'12                     | 1'82                  | 0'09      | 0'61                      | 4'67              | 28'27            | 27'36                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 6      | ...                                      | 200               | 298                      | ...      | ...       | ...     | 4'43   | 1'56                     | 1'21                  | 0'52      | 0'78                      | 23'34             | 25'85            | 26'37                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 3                                        | 92                | 192                      | ...      | ...       | ...     | 9'35   | 0'21                     | 0'41                  | ...       | 0'31                      | 9'45              | 19'73            | 15'75                          |  |  |  |  |
| 2         | 3                     | 1                                     | ...     | 7      | 9                                        | 35                | 176                      | ...      | ...       | ...     | 11'66  | 0'52                     | 4'02                  | 0'91      | 1'17                      | 4'53              | 22'30            | 22'28                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | ...                                      | 51                | 142                      | ...      | ...       | ...     | 9'81   | 2'14                     | 4'28                  | ...       | ...                       | 9'10              | 25'34            | 19'42                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | ...                                      | ...               | ...                      | ...      | ...       | ...     | ...    | ...                      | ...                   | ...       | ...                       | ...               | ...              | ...                            |  |  |  |  |
| 2         | 13                    | 1                                     | 2       | 19     | 20                                       | 523               | 1,178                    | 0'10     | 4'9       | ...     | 2'93   | 1'81                     | 1'71                  | 0'33      | 0'35                      | 9'12              | 25'34            | 19'06                          |  |  |  |  |
| ...       | 1                     | ...                                   | 4       | 5      | 13                                       | 199               | 338                      | 0'35     | 0'06      | ...     | 1'30   | 2'42                     | 2'42                  | 0'30      | 0'77                      | 11'76             | 19'59            | 19'37                          |  |  |  |  |
| 1         | 6                     | ...                                   | 1       | 7      | 2                                        | 259               | 437                      | 0'96     | 0'42      | ...     | 6'34   | 1'67                     | 2'82                  | 0'45      | 0'13                      | 16'59             | 29'28            | 31'75                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 1                                        | 283               | 380                      | 0'57     | 0'07      | ...     | 3'44   | 0'36                     | 2'44                  | ...       | 0'07                      | 20'27             | 27'22            | 28'44                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 6      | 6                                        | 209               | 391                      | 0'08     | ...       | ...     | 11'29  | 0'62                     | 1'55                  | 0'08      | 0'46                      | 18'16             | 30'24            | 27'87                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | 9      | 9                                        | 222               | 272                      | 0'18     | ...       | ...     | 3'03   | 1'38                     | 0'92                  | 0'09      | 0'83                      | 18'56             | 25'00            | 27'69                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 1      | 3                                        | 156               | 228                      | 1'00     | ...       | ...     | 6'13   | 0'70                     | 1'10                  | 0'20      | 0'30                      | 13'46             | 23'39            | 22'83                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 2      | 2                                        | 118               | 206                      | 1'02     | 0'41      | ...     | 2'95   | 1'63                     | 1'13                  | 0'20      | 0'61                      | 11'96             | 20'94            | ...                            |  |  |  |  |
| ...       | 2                     | 2                                     | ...     | 3      | 6                                        | 60                | 170                      | ...      | ...       | ...     | 7'29   | 1'92                     | 4'73                  | 0'51      | 0'89                      | 6'39              | 21'73            | 21'19                          |  |  |  |  |
| 1         | 1                     | ...                                   | ...     | 4      | 7                                        | 95                | 156                      | ...      | ...       | ...     | 4'99   | 1'51                     | 1'81                  | 0'60      | 0'15                      | 15'50             | 24'57            | ...                            |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | ...                                      | ...               | ...                      | ...      | ...       | ...     | ...    | ...                      | ...                   | ...       | ...                       | ...               | ...              | ...                            |  |  |  |  |
| 7         | 35                    | 1                                     | 2       | 50     | 86                                       | 990               | 1,814                    | 0'05     | 1'58      | ...     | 4'11   | 1'92                     | 3'39                  | 0'77      | 1'22                      | 15'19             | 28'29            | 32'03                          |  |  |  |  |
| 1         | 6                     | ...                                   | 1       | 9      | 11                                       | 347               | 550                      | 0'17     | 2'17      | ...     | 0'75   | 0'93                     | 1'27                  | 0'26      | 0'32                      | 10'03             | 15'90            | 16'56                          |  |  |  |  |
| ...       | 10                    | ...                                   | ...     | 10     | 11                                       | 242               | 493                      | ...      | 1'22      | ...     | 4'77   | 1'86                     | 1'31                  | 0'63      | 0'58                      | 12'84             | 23'81            | 19'75                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | 18     | 18                                       | 244               | 490                      | 0'12     | 0'60      | ...     | 2'82   | 4'02                     | 5'10                  | 0'60      | 1'08                      | 14'64             | 29'67            | 30'06                          |  |  |  |  |
| ...       | 9                     | ...                                   | ...     | 8      | 8                                        | 87                | 404                      | ...      | 0'39      | ...     | 2'73   | 9'16                     | 7'20                  | 0'58      | 0'52                      | 5'64              | 26'21            | 23'16                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 1                                        | 141               | 234                      | 0'15     | 0'15      | ...     | 7'34   | 0'37                     | 0'37                  | ...       | 0'07                      | 10'87             | 19'04            | 19'81                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 7                                        | 119               | 234                      | ...      | 0'54      | ...     | 8'25   | 3'24                     | 2'34                  | 0'09      | 0'83                      | 10'45             | 25'40            | 26'15                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | 2                                        | 224               | 224                      | 0'36     | 0'27      | ...     | 10'54  | 1'80                     | 0'81                  | 0'09      | 0'09                      | 6'22              | 20'18            | 14'99                          |  |  |  |  |
| ...       | 1                     | ...                                   | ...     | 1      | 1                                        | 153               | 266                      | ...      | 1'64      | ...     | 5'65   | 0'90                     | 1'91                  | 0'09      | 0'18                      | 13'85             | 24'24            | 22'62                          |  |  |  |  |
| ...       | ...                   | ...                                   | ...     | ...    | ...                                      | 80                | 261                      | 0'09     | ...       | ...     | 11'53  | 0'76                     | 4'19                  | 0'19      | 0'38                      | 7'56              | 24'48            | 23'86                          |  |  |  |  |
| 1         | ...                   | ...                                   | ...     | ...    | ...                                      | 171               | 171                      | ...      | 0'22      | ...     | 4'70   | 4'15                     | 3'61                  | 0'11      | 0'33                      | 5'67              | 18'69            | 18'71                          |  |  |  |  |
| 1         | 9                     | ...                                   | ...     | 5      | ...                                      | 89                | 312                      | ...      | 0'51      | ...     | 5'97   | 5'63                     | 5'19                  | 0'63      | ...                       | 11'54             | 27'40            | 28'94                          |  |  |  |  |

*No. VI.—Births and Deaths registered from Different Causes in the Districts*

| Number. | Districts and towns.                            | Popula-<br>tion for<br>which<br>returns<br>were<br>received. | Births. |          |        |                                               | Cholera. | Smallpox. | Plague. | Fever. | Dysentery<br>and<br>diarrhoea. | Respiratory diseases. | Males. |
|---------|-------------------------------------------------|--------------------------------------------------------------|---------|----------|--------|-----------------------------------------------|----------|-----------|---------|--------|--------------------------------|-----------------------|--------|
|         |                                                 |                                                              | Males.  | Females. | Total. | Birth-rate<br>per<br>mile of popu-<br>lation. |          |           |         |        |                                |                       |        |
| (1)     | (2)                                             | (3)                                                          | (4)     | (5)      | (6)    | (7)                                           | (8)      | (9)       | (10)    | (11)   | (12)                           | (13)                  | (14)   |
|         | <b>B.—TOWNS—cont.</b>                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
|         | <b>MUNICIPALITIES AND<br/>RURAL TOWNS—cont.</b> |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
|         | <b>Gunter—cont.</b>                             |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
| 105     | T.C. Sattenapalle ...                           | 7,484                                                        | 169     | 168      | 325    | 43.43                                         | 1        | 4         | ...     | 56     | 38                             | 15                    | ...    |
| 106     | T.C. Kotturu ...                                | 7,448                                                        | 180     | 139      | 259    | 34.77                                         | ...      | 3         | ...     | 36     | 13                             | 48                    | ...    |
| 107     | T.O. Kollipara ...                              | 7,413                                                        | 172     | 135      | 307    | 41.41                                         | 3        | 3         | ...     | 58     | 6                              | 31                    | ...    |
| 108     | T.C. Althura-Kotapat-<br>nam.                   | 7,393                                                        | 164     | 137      | 301    | 40.71                                         | ...      | ...       | ...     | 63     | 5                              | 60                    | 1      |
| 109     | T.C. Repalle ...                                | 7,133                                                        | 159     | 121      | 280    | 39.26                                         | 1        | 2         | ...     | 33     | 14                             | 9                     | ...    |
| 110     | T.C. Chilakalurpet ...                          | 6,864                                                        | 169     | 170      | 339    | 57.81                                         | ...      | 5         | ...     | 15     | 74                             | 10                    | ...    |
| 111     | T.C. Gursala ...                                | 6,582                                                        | 144     | 125      | 269    | 45.19                                         | ...      | 1         | ...     | 14     | 7                              | 3                     | 1      |
| 112     | T.O. Bhattiprolu ...                            | 6,407                                                        | 114     | 131      | 245    | 45.31                                         | 3        | 6         | ...     | 73     | 3                              | 25                    | ...    |
|         | <b>Kistna.</b>                                  |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
| 113     | M.T.C. Bezwada ...                              | 60,427                                                       | 1,351   | 1,414    | 2,765  | 45.16                                         | 11       | 114       | ...     | 366    | 70                             | 309                   | ...    |
| 114     | M.T.C. Masulipatam ...                          | 59,928                                                       | 1,237   | 1,123    | 2,360  | 39.38                                         | 11       | 43        | ...     | 195    | 145                            | 139                   | 1      |
| 115     | T.C. Gudivada ...                               | 13,535                                                       | 316     | 272      | 588    | 43.44                                         | ...      | 6         | ...     | 115    | 38                             | 19                    | ...    |
| 116     | T.C. Nuzvid ...                                 | 12,094                                                       | 257     | 234      | 491    | 40.60                                         | ...      | 12        | ...     | 44     | 10                             | 28                    | 1      |
| 117     | T.C. Jaggayyapeta ...                           | 8,689                                                        | 163     | 160      | 323    | 37.26                                         | 5        | ...       | ...     | 95     | 13                             | 40                    | ...    |
| 118     | T.C. Valluru ...                                | 7,789                                                        | 180     | 171      | 351    | 45.06                                         | 5        | 13        | ...     | 63     | 9                              | 23                    | ...    |
| 119     | T.C. Pedana ...                                 | 7,332                                                        | 170     | 162      | 332    | 45.16                                         | ...      | 9         | ...     | 45     | 14                             | 5                     | ...    |
| 120     | T.C. Vayyuru ...                                | 6,982                                                        | 163     | 148      | 310    | 44.40                                         | ...      | 6         | ...     | 29     | 14                             | 13                    | ...    |
|         | <b>Kurnool.</b>                                 |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
| 121     | M.T.C. Kurnool ...                              | 35,314                                                       | 880     | 800      | 1,680  | 47.57                                         | ...      | 35        | ...     | 47     | 97                             | 176                   | 3      |
| 122     | M.T.C. Nandyal ...                              | 22,608                                                       | 444     | 470      | 914    | 40.43                                         | 1        | 70        | ...     | 163    | 62                             | 102                   | ...    |
|         | <b>Madras.</b>                                  |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
| 123     | M.T.C. Madras ...                               | 632,992                                                      | 14,194  | 13,529   | 27,723 | 43.90                                         | 166      | 129       | ...     | 2,265  | 1,984                          | 6,905                 | 31     |
|         | <b>Madura.</b>                                  |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |        |
| 124     | M.T.C. Madura ...                               | 162,018                                                      | 3,341   | 3,200    | 6,541  | 35.39                                         | ...      | 47        | ...     | 420    | 1,585                          | 2,036                 | 12     |
| 125     | M.T.C. Dindigul ...                             | 43,617                                                       | 974     | 915      | 1,889  | 43.31                                         | 1        | ...       | ...     | 20     | 198                            | 157                   | ...    |
| 126     | M.T.C. Bodinayakan-<br>kur.                     | 27,036                                                       | 583     | 592      | 1,175  | 43.46                                         | ...      | 2         | 207     | 55     | 51                             | 57                    | ...    |
| 127     | M.T.C. Periyakulam ...                          | 23,004                                                       | 488     | 523      | 1,011  | 43.95                                         | ...      | ...       | ...     | 39     | 81                             | 150                   | 1      |
| 128     | M.T.C. Palni ...                                | 18,999                                                       | 353     | 334      | 687    | 36.37                                         | ...      | 6         | ...     | 12     | 95                             | 98                    | 2      |

*and Towns of the Madras Presidency during the year 1934—cont.*

| Injuries. |        |            |         |        | Ratio of deaths per 1,000 of population. |           |        |          |           |         |         |           |             |           |        |           |         |       |       |  |  |  |          |  |
|-----------|--------|------------|---------|--------|------------------------------------------|-----------|--------|----------|-----------|---------|---------|-----------|-------------|-----------|--------|-----------|---------|-------|-------|--|--|--|----------|--|
| oides.    | and    |            |         |        | from child                               |           | from   |          |           |         |         |           |             |           |        |           |         |       |       |  |  |  | From all |  |
| Females.  | Wounds | Snake-bite | Rabies. | Total. | Deaths                                   | All other | Total  | Cholera. | Smallpox. | Plague. | Fevers. | Dysentery | Respiratory | Injuries. | Deaths | All other | For the | Mean  |       |  |  |  |          |  |
| (15)      | (16)   | (17)       | (18)    | (19)   | (20)                                     | (21)      | (22)   | (23)     | (24)      | (25)    | (26)    | (27)      | (28)        | (29)      | (30)   | (31)      | (32)    | (33)  |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 2      | 7                                        | 100       | 223    | 0.13     | 0.51      | ...     | 7.48    | 5.08      | 2.00        | 0.27      | 0.94   | 18.36     | 29.80   | 27.32 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | 21        | 121    | ...      | 0.40      | ...     | 4.83    | 1.75      | 0.44        | ...       | ...    | 2.82      | 16.25   | 14.83 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | 55        | 157    | 0.40     | 0.40      | ...     | 7.82    | 0.81      | 4.18        | ...       | 0.18   | 7.42      | 21.78   | 24.10 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 1      | 7                                        | 43        | 179    | ...      | ...       | ...     | 8.53    | 0.08      | 8.12        | 0.14      | 0.95   | 5.82      | 24.21   | 19.77 |       |  |  |  |          |  |
| ...       | 3      | ...        | ...     | 3      | 4                                        | 102       | 168    | 0.14     | 0.28      | ...     | 4.63    | 1.96      | 1.26        | 0.42      | 0.56   | 14.30     | 23.56   | 26.93 |       |  |  |  |          |  |
| ...       | 3      | ...        | ...     | 4      | 10                                       | 103       | 217    | ...      | 0.85      | ...     | 2.56    | 12.62     | 1.70        | ...       | 1.70   | 17.56     | 37.00   | 30.41 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | 133       | 163    | ...      | 0.18      | ...     | 2.51    | 1.25      | 0.36        | 0.72      | ...    | 24.18     | 29.20   | 30.16 |       |  |  |  |          |  |
| ...       | 1      | ...        | ...     | 1      | 3                                        | 26        | 140    | 0.55     | 1.11      | ...     | 13.60   | 0.55      | 4.92        | 0.18      | 0.55   | 4.81      | 25.89   | ...   |       |  |  |  |          |  |
| ...       | 35     | ...        | 2       | 37     | 50                                       | 1,204     | 2,251  | 0.18     | 1.89      | ...     | 6.06    | 1.16      | 5.11        | 0.61      | 0.83   | 21.42     | 37.26   | 30.06 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 13     | 23                                       | 944       | 1,503  | 0.18     | 0.72      | ...     | 3.25    | 2.42      | 2.15        | 0.22      | 0.38   | 15.75     | 25.08   | 24.80 |       |  |  |  |          |  |
| ...       | 2      | 1          | ...     | 3      | 9                                        | 178       | 368    | ...      | 0.44      | ...     | 8.50    | 2.81      | 1.40        | 0.22      | 0.66   | 13.15     | 27.19   | 26.87 |       |  |  |  |          |  |
| ...       | 1      | ...        | ...     | 2      | 2                                        | 223       | 321    | ...      | 0.99      | ...     | 8.64    | 0.83      | 2.32        | 0.17      | 0.17   | 18.44     | 26.54   | 27.11 |       |  |  |  |          |  |
| ...       | 5      | ...        | ...     | 5      | 5                                        | 97        | 200    | 0.59     | ...       | ...     | 10.96   | 1.50      | 4.61        | 0.58      | 0.68   | 11.19     | 29.69   | 20.08 |       |  |  |  |          |  |
| ...       | 2      | ...        | ...     | 3      | 6                                        | 68        | 190    | 0.64     | 1.67      | ...     | 8.09    | 1.16      | 2.95        | 0.39      | 0.77   | 8.73      | 24.39   | 13.14 |       |  |  |  |          |  |
| ...       | ...    | 1          | ...     | 1      | 2                                        | 94        | 190    | ...      | 1.23      | ...     | 4.84    | 1.90      | 0.68        | 0.14      | 0.27   | 12.79     | 25.84   | 20.50 |       |  |  |  |          |  |
| ...       | 2      | ...        | ...     | 3      | 1                                        | 59        | 125    | ...      | 0.86      | ...     | 4.15    | 2.01      | 1.86        | 0.43      | 0.14   | 8.45      | 17.90   | ...   |       |  |  |  |          |  |
| ...       | 8      | 4          | ...     | 15     | 15                                       | 470       | 855    | ...      | 0.99      | ...     | 1.33    | 2.75      | 4.99        | 0.42      | 0.42   | 13.31     | 24.21   | 29.62 |       |  |  |  |          |  |
| ...       | 8      | 1          | ...     | 10     | 13                                       | 255       | 676    | 0.04     | 3.10      | ...     | 7.21    | 2.74      | 4.51        | 0.44      | 0.58   | 11.28     | 29.91   | 21.46 |       |  |  |  |          |  |
| 21        | 215    | ...        | ...     | 267    | 313                                      | 11,387    | 23,416 | 0.26     | 0.20      | ...     | 3.58    | 3.13      | 10.91       | 0.42      | 0.49   | 17.99     | 37.00   | 39.01 |       |  |  |  |          |  |
| 6         | 60     | 3          | 3       | 84     | 117                                      | 3,361     | 7,350  | ...      | 0.26      | ...     | 2.31    | 8.71      | 11.19       | 0.46      | 0.64   | 18.47     | 42.03   | 34.19 |       |  |  |  |          |  |
| ...       | 28     | 1          | ...     | 29     | 15                                       | 692       | 1,113  | 0.02     | 0.03      | ...     | 0.46    | 4.54      | 3.60        | 0.66      | 0.34   | 15.87     | 25.52   | 26.81 |       |  |  |  |          |  |
| ...       | 14     | 1          | 1       | 17     | 6                                        | 339       | 724    | ...      | 0.07      | ...     | 7.66    | 2.08      | 2.11        | 0.63      | 0.22   | 13.17     | 26.78   | 27.70 |       |  |  |  |          |  |
| ...       | 11     | 1          | ...     | 13     | 13                                       | 342       | 637    | ...      | ...       | ...     | 1.70    | 3.92      | 6.52        | 0.57      | 0.52   | 14.87     | 27.69   | 32.97 |       |  |  |  |          |  |
| ...       | 7      | ...        | ...     | 9      | 5                                        | 309       | 534    | ...      | 0.32      | ...     | 0.63    | 5.03      | 5.19        | 0.48      | 0.26   | 16.35     | 26.26   | 31.58 |       |  |  |  |          |  |
| ...       | 1      | ...        | ...     | 2      | 5                                        | 96        | 196    | ...      | 0.15      | ...     | 1.07    | 2.30      | 10.88       | 0.81      | 0.77   | 14.56     | 30.08   | 24.80 |       |  |  |  |          |  |
| ...       | 1      | ...        | ...     | 1      | 3                                        | 398       | 542    | ...      | ...       | ...     | 3.98    | 4.43      | 1.78        | 0.69      | 0.05   | 0.11      | 13.12   | 28.76 | 24.45 |  |  |  |          |  |
| ...       | 1      | ...        | ...     | 2      | 3                                        | 237       | 566    | ...      | ...       | ...     | 7.89    | 4.33      | 3.75        | 2.33      | 0.11   | 0.17      | 18.46   | 32.14 | ...   |  |  |  |          |  |
| ...       | ...    | 1          | ...     | 1      | 2                                        | 86        | 329    | ...      | ...       | ...     | 0.07    | 6.98      | 3.30        | 7.34      | 0.07   | 0.15      | 6.24    | 24.16 | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 6      | 8                                        | 130       | 249    | ...      | ...       | ...     | ...     | 3.84      | 4.07        | 0.45      | 0.60   | 9.80      | 18.77   | 27.36 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 1      | 6                                        | 42        | 259    | ...      | ...       | ...     | 9.16    | 6.87      | 4.01        | 0.10      | 0.67   | 4.01      | 24.73   | 25.90 |       |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 7      | 2                                        | 122       | 241    | ...      | ...       | ...     | 0.41    | 0.61      | 4.17        | 6.00      | 0.71   | 0.20      | 13.41   | 24.52 | 26.53 |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 11     | 3                                        | 93        | 186    | ...      | ...       | ...     | ...     | 2.07      | 2.27        | 3.82      | 1.14   | 0.31      | 9.61    | 19.22 | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 2      | 1                                        | 180       | 349    | ...      | ...       | ...     | ...     | 3.63      | 2.20        | 1.43      | 0.32   | 0.11      | 19.78   | 27.37 | 28.78 |  |  |  |          |  |
| ...       | ...    | ...        | ...     | 3      | 2                                        | 92        | 116    | ...      | ...       | ...     | ...     | 2.07      | 0.84        | ...       | 0.34   | ...       | 10.57   | 18.53 | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | 2                                        | 107       | 161    | ...      | ...       | ...     | 0.12    | 4.81      | 0.59        | 0.59      | ...    | 0.23      | 12.66   | 18.90 | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | 3                                        | 86        | 160    | ...      | ...       | ...     | ...     | 3.82      | 3.94        | 0.62      | 0.37   | 0.37      | 10.60   | 19.71 | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | 3                                        | 191       | 210    | ...      | ...       | ...     | 2.44    | 6.55      | 3.34        | 1.28      | 0.39   | ...       | 12.97   | 26.96 | 24.63 |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | 3                                        | 57        | 136    | ...      | ...       | ...     | ...     | 3.30      | 7.12        | 2.78      | ...    | 0.52      | 9.91    | 23.66 | 23.60 |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |
| ...       | ...    | ...        | ...     | ...    | ...                                      | ...       | ...    | ...      | ...       | ...     | ...     | ...       | ...         | ...       | ...    | ...       | ...     | ...   | ...   |  |  |  |          |  |



| Number.                                 | Districts and towns.      | Popula-<br>tion for<br>which<br>returns<br>were<br>received. | Births. |          |        |                                               | Cholera. | Smallpox. | Plague. | Fever. | Dysentery<br>and<br>diarrhoea. | Respiratory diseases. | Sat. |
|-----------------------------------------|---------------------------|--------------------------------------------------------------|---------|----------|--------|-----------------------------------------------|----------|-----------|---------|--------|--------------------------------|-----------------------|------|
|                                         |                           |                                                              | Males.  | Females. | Total. | Birth-rate<br>per<br>mile of popula-<br>tion. |          |           |         |        |                                |                       |      |
| (1)                                     | (2)                       | (3)                                                          | (4)     | (5)      | (6)    | (7)                                           | (8)      | (9)       | (10)    | (11)   | (12)                           | (13)                  | (14) |
| B.—TOWNS—cont.                          |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| MUNICIPALITIES AND<br>RURAL TOWNS—cont. |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| Rannad—cont.                            |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| 206                                     | T.O. Tondi ...            | 6,837                                                        | 70      | 66       | 136    | 19'89                                         | ...      | ...       | ...     | 3      | 6                              | 3                     | ...  |
| 207                                     | T.O. Kandapur ...         | 6,733                                                        | 53      | 52       | 105    | 15'60                                         | ...      | 13        | ...     | 19     | 17                             | 12                    | 1    |
| 208                                     | T.O. Pallattur ...        | 6,671                                                        | 65      | 62       | 127    | 19'04                                         | ...      | 16        | ...     | 4      | ...                            | ...                   | ...  |
| 209                                     | T.C. Kilakkarai ...       | 6,570                                                        | 160     | 153      | 313    | 48'36                                         | ...      | ...       | ...     | 60     | 37                             | 28                    | ...  |
| 210                                     | T.O. Pandalgudi ...       | 6,248                                                        | 117     | 120      | 237    | 37'93                                         | ...      | ...       | ...     | 67     | 7                              | 4                     | ...  |
| 211                                     | T.C. Emaeswaram ...       | 5,829                                                        | 98      | 86       | 184    | 31'57                                         | ...      | 10        | ...     | 27     | 14                             | 76                    | 1    |
| 212                                     | T.C. Nattarasankottai ... | 5,666                                                        | 59      | 50       | 109    | 19'24                                         | ...      | ...       | ...     | 12     | 6                              | 5                     | 1    |
| 213                                     | T.C. Puliyampatti ...     | 5,554                                                        | 113     | 111      | 224    | 40'33                                         | ...      | ...       | ...     | 59     | 34                             | 18                    | 2    |
| 214                                     | T.C. Kottayur ...         | 5,293                                                        | 63      | 43       | 111    | 20'97                                         | ...      | 8         | ...     | 24     | 5                              | 1                     | ...  |
| Salem.                                  |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| 215                                     | M.T.C. Salem ...          | 102,179                                                      | 2,041   | 1,822    | 3,863  | 37'81                                         | ...      | 16        | ...     | 309    | 279                            | 313                   | 7    |
| 216                                     | T.C. Dharmapuri ...       | 14,815                                                       | 238     | 229      | 467    | 31'52                                         | ...      | ...       | ...     | 75     | 45                             | 32                    | 1    |
| 217                                     | T.C. Rasipuram ...        | 14,438                                                       | 234     | 202      | 436    | 30'20                                         | ...      | ...       | ...     | 57     | 11                             | 18                    | ...  |
| 218                                     | T.C. Krishnagiri ...      | 12,850                                                       | 147     | 132      | 279    | 21'71                                         | ...      | 11        | ...     | 47     | 40                             | 24                    | ...  |
| 219                                     | T.C. Tiruchengodu ...     | 12,322                                                       | 222     | 208      | 430    | 34'90                                         | ...      | 2         | ...     | 58     | 8                              | 9                     | ...  |
| 220                                     | T.C. Atar ...             | 11,697                                                       | 239     | 198      | 437    | 37'36                                         | 9        | 3         | ...     | 77     | 38                             | 27                    | ...  |
| 221                                     | T.C. Sendamangalam ...    | 11,254                                                       | 157     | 155      | 312    | 27'72                                         | ...      | ...       | ...     | 45     | 27                             | 13                    | ...  |
| 222                                     | T.O. Namakkal ...         | 9,306                                                        | 182     | 207      | 389    | 41'80                                         | ...      | 1         | ...     | 80     | 20                             | 21                    | ...  |
| 223                                     | T.C. Hosur ...            | 6,071                                                        | 125     | 110      | 235    | 38'71                                         | ...      | ...       | ...     | 51     | 21                             | 4                     | 1    |
| South Arcot.                            |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| 224                                     | M.T.C. Cuddalore ...      | 59,057                                                       | 1,050   | 1,041    | 2,091  | 35'41                                         | 88       | 5         | ...     | 69     | 186                            | 180                   | 2    |
| 225                                     | M.T.C. Chidambaram ...    | 25,084                                                       | 429     | 357      | 786    | 31'53                                         | 12       | 1         | ...     | 50     | 45                             | 38                    | 1    |
| 226                                     | M.T.C. Villupuram ...     | 20,127                                                       | 333     | 299      | 632    | 30'80                                         | 85       | ...       | ...     | 45     | 45                             | 48                    | 1    |
| 227                                     | T.C. Tindivanam ...       | 18,366                                                       | 368     | 256      | 524    | 27'79                                         | 1        | 8         | ...     | 78     | 32                             | 13                    | 1    |
| 228                                     | T.C. Panruti ...          | 13,952                                                       | 171     | 162      | 333    | 23'87                                         | 38       | ...       | ...     | 15     | 9                              | 4                     | 1    |
| 229                                     | T.O. Porto Novo ...       | 13,762                                                       | 120     | 108      | 228    | 16'87                                         | 5        | 1         | ...     | 84     | 16                             | 31                    | ...  |
| 230                                     | T.C. Nellikuppam ...      | 13,695                                                       | 201     | 193      | 394    | 28'77                                         | 57       | 1         | ...     | 124    | 08                             | 29                    | 1    |
| 231                                     | T.C. Tirukkoyilur ...     | 13,436                                                       | 226     | 177      | 403    | 29'99                                         | 9        | 1         | ...     | 82     | 12                             | 12                    | ...  |
| 232                                     | T.O. Mannargudi ...       | 9,109                                                        | 123     | 135      | 258    | 28'32                                         | ...      | 1         | ...     | 60     | 23                             | 12                    | ...  |
| 233                                     | T.C. Vriddhachalam ...    | 9,018                                                        | 110     | 129      | 239    | 26'81                                         | 39       | ...       | ...     | 108    | 19                             | 8                     | 1    |
| 234                                     | T.C. Bhuvanagiri ...      | 8,846                                                        | 109     | 92       | 201    | 22'72                                         | 17       | ...       | ...     | 38     | 20                             | 11                    | ...  |
| 235                                     | T.C. Kallakurichi ...     | 7,522                                                        | 139     | 107      | 246    | 32'70                                         | 17       | ...       | ...     | 67     | 7                              | 6                     | ...  |
| 236                                     | T.C. Chinnasalem ...      | 7,130                                                        | 120     | 99       | 219    | 30'72                                         | 27       | 10        | ...     | 48     | 24                             | 30                    | ...  |
| 237                                     | T.C. Valavanur ...        | 7,051                                                        | 131     | 135      | 266    | 37'73                                         | ...      | ...       | ...     | 48     | 22                             | 6                     | ...  |
| 238                                     | T.C. Srimushnam ...       | 6,213                                                        | 89      | 96       | 185    | 29'78                                         | 5        | 1         | ...     | 16     | 16                             | 4                     | ...  |
| 239                                     | T.C. Ulundurpet ...       | 6,166                                                        | 111     | 116      | 227    | 36'81                                         | 4        | 1         | ...     | 7      | 16                             | 3                     | 1    |
| South Kanara.                           |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| 240                                     | M.T.C. Mangalore ...      | 66,756                                                       | 1,290   | 1,247    | 2,537  | 38'00                                         | ...      | 130       | ...     | 16     | 93                             | 297                   | 6    |
| 241                                     | T.O. Udipi ...            | 14,833                                                       | 325     | 301      | 626    | 42'20                                         | ...      | ...       | ...     | 70     | 24                             | 21                    | ...  |
| 242                                     | T.O. Kasargod ...         | 9,169                                                        | 187     | 164      | 351    | 38'28                                         | ...      | 1         | ...     | 49     | 18                             | 8                     | 3    |
| 243                                     | T.O. Coondapoor ...       | 8,623                                                        | 146     | 161      | 307    | 34'41                                         | ...      | ...       | ...     | 29     | 5                              | 21                    | 3    |
| 244                                     | T.O. Pattur ...           | 7,822                                                        | 151     | 147      | 298    | 38'10                                         | ...      | 1         | ...     | 34     | 15                             | 15                    | ...  |
| 245                                     | T.C. Karkal ...           | 7,204                                                        | 159     | 142      | 301    | 41'78                                         | ...      | 2         | ...     | 41     | 3                              | 11                    | 1    |
| 246                                     | T.C. Mulki ...            | 5,504                                                        | 106     | 113      | 219    | 39'79                                         | ...      | ...       | ...     | 22     | 4                              | 12                    | ...  |
| Tanjore.                                |                           |                                                              |         |          |        |                                               |          |           |         |        |                                |                       |      |
| 247                                     | M.T.O. Tanjore ...        | 68,889                                                       | 1,434   | 1,378    | 2,812  | 42'04                                         | 9        | 92        | ...     | 168    | 309                            | 289                   | 6    |
| 248                                     | M.T.O. Kumbakonam ...     | 62,317                                                       | 1,200   | 1,124    | 2,324  | 37'29                                         | ...      | 4         | ...     | 94     | 101                            | 187                   | 2    |
| 249                                     | M.T.O. Negrapatam ...     | 48,527                                                       | 852     | 751      | 1,603  | 33'03                                         | 2        | 15        | ...     | 171    | 212                            | 174                   | 4    |
| 250                                     | M.T.O. Mayavaram ...      | 31,887                                                       | 465     | 446      | 911    | 28'57                                         | 5        | 7         | ...     | 83     | 15                             | 108                   | ...  |
| 251                                     | M.T.O. Mannargudi ...     | 22,764                                                       | 463     | 418      | 880    | 38'66                                         | 7        | 5         | ...     | 12     | 51                             | 73                    | 1    |
| 252                                     | M.T.O. Tiruvarur ...      | 30,371                                                       | 246     | 216      | 462    | 22'63                                         | 4        | 24        | ...     | 21     | 79                             | 44                    | 2    |
| 253                                     | T.C. Vedaranyyam ...      | 15,036                                                       | 230     | 235      | 465    | 30'83                                         | 14       | ...       | ...     | 30     | 26                             | 12                    | 1    |
| 254                                     | T.C. Shiyali ...          | 12,814                                                       | 161     | 161      | 322    | 25'13                                         | ...      | 7         | ...     | 45     | 18                             | 10                    | ...  |
| 255                                     | T.C. Tranquebar ...       | 12,796                                                       | 196     | 188      | 384    | 30'01                                         | 7        | ...       | ...     | 63     | 21                             | 24                    | ...  |
| 256                                     | T.C. Tiruvadamardur ...   | 12,789                                                       | 154     | 143      | 297    | 23'38                                         | 7        | 5         | ...     | 55     | 9                              | 10                    | 1    |
| 257                                     | T.O. Pattukkottai ...     | 10,981                                                       | 141     | 147      | 288    | 26'23                                         | ...      | 2         | ...     | 45     | 20                             | 7                     | ...  |
| 258                                     | T.C. Adirampattanam ...   | 10,893                                                       | 142     | 132      | 274    | 25'15                                         | ...      | ...       | ...     | 40     | 27                             | 3                     | ...  |

[illegible]

## Districts and Towns of the Madras Presidency during the year 1934—cont.

[illegible]

## No. VI.—Births and Deaths registered from Different Causes in the

| Number.                                     | Districts and towns.    | Population for which returns were received. | Births. |          |           |                                     | Cholera. | Smallpox. | Plague. | Fever.  | Dysentery and diarrhoea. | Respiratory diseases. | Sui.  |
|---------------------------------------------|-------------------------|---------------------------------------------|---------|----------|-----------|-------------------------------------|----------|-----------|---------|---------|--------------------------|-----------------------|-------|
|                                             |                         |                                             | Males.  | Females. | Total.    | Birth-rate per mille of population. |          |           |         |         |                          |                       |       |
| (1)                                         | (2)                     | (3)                                         | (4)     | (5)      | (6)       | (7)                                 | (8)      | (9)       | (10)    | (11)    | (12)                     | (13)                  | (14)  |
| <b>B.—TOWNS—cont.</b>                       |                         |                                             |         |          |           |                                     |          |           |         |         |                          |                       |       |
| <b>MUNICIPALITIES AND RURAL TOWNS—cont.</b> |                         |                                             |         |          |           |                                     |          |           |         |         |                          |                       |       |
| <i>Vizagapatam.</i>                         |                         |                                             |         |          |           |                                     |          |           |         |         |                          |                       |       |
| 313                                         | M.T.C. Vizagapatam ...  | 57,303                                      | 1,089   | 1,022    | 2,111     | 36.84                               | 6        | 56        | ...     | 224     | 206                      | 224                   | 4     |
| 314                                         | M.T.C. Visianagaram ... | 44,626                                      | 857     | 834      | 1,691     | 37.83                               | 149      | 12        | ...     | 167     | 180                      | 118                   | ...   |
| 315                                         | M.T.C. Anakapalle ...   | 23,376                                      | 420     | 390      | 810       | 34.65                               | 1        | 9         | ...     | 37      | 89                       | 200                   | ...   |
| 316                                         | M.T.C. Bimlipatam ...   | 9,329                                       | 199     | 177      | 376       | 39.05                               | ...      | ...       | ...     | 30      | 37                       | 26                    | ...   |
| 317                                         | T.C. Bobbili ...        | 20,544                                      | 361     | 355      | 716       | 34.85                               | ...      | ...       | ...     | 139     | 50                       | 27                    | ...   |
| 318                                         | T.C. Saluru ...         | 17,899                                      | 390     | 325      | 715       | 43.30                               | 1        | ...       | ...     | 238     | 43                       | 28                    | ...   |
| 319                                         | T.C. Parvatipuram ...   | 17,434                                      | 269     | 287      | 556       | 31.89                               | ...      | ...       | ...     | 251     | 13                       | 16                    | 1     |
| 320                                         | T.C. Narasapatam ...    | 14,005                                      | 238     | 208      | 446       | 31.85                               | ...      | ...       | ...     | 212     | 12                       | 8                     | ...   |
| 321                                         | T.C. Yellamanchilli ... | 11,763                                      | 204     | 225      | 429       | 36.47                               | 5        | 5         | ...     | 145     | 12                       | 30                    | 1     |
| 322                                         | T.C. Palkonda ...       | 11,102                                      | 207     | 193      | 400       | 36.08                               | 14       | ...       | ...     | 232     | 3                        | 8                     | ...   |
| 323                                         | T.C. Srungavarapukota.  | 7,330                                       | 136     | 157      | 293       | 39.97                               | ...      | ...       | ...     | 55      | 18                       | 48                    | 1     |
| 324                                         | T.C. Viraghattam ...    | 6,757                                       | 117     | 125      | 242       | 35.81                               | ...      | ...       | ...     | 114     | ...                      | 6                     | ...   |
| 325                                         | T.C. Chodavaram ...     | 6,624                                       | 170     | 158      | 328       | 49.62                               | 6        | 1         | ...     | 148     | 11                       | 6                     | 1     |
| 326                                         | T.C. Mudugula ...       | 6,346                                       | 111     | 103      | 214       | 33.72                               | ...      | ...       | ...     | 137     | 9                        | 4                     | ...   |
| 327                                         | T.C. Chinnamerangi ...  | 5,770                                       | 105     | 108      | 213       | 36.92                               | ...      | ...       | ...     | 67      | 31                       | 17                    | ...   |
| 328                                         | T.C. Rajam ...          | 5,374                                       | 96      | 97       | 193       | 35.91                               | 6        | ...       | ...     | 91      | 9                        | 7                     | ...   |
| Total, town circles*...                     |                         | 6,268,369                                   | 118,746 | 112,803  | 231,549   | 36.94                               | 2,025    | 3,837     | 789     | 26,360  | 17,657                   | 26,205                | 257   |
| Total, rural districts...                   |                         | 38,907,511                                  | 717,698 | 684,749  | 1,402,447 | 36.04                               | 16,133   | 14,251    | 1,699   | 298,790 | 80,187                   | 81,537                | 1,801 |
| Total, Madras Presidency ...                |                         | 45,175,880                                  | 836,444 | 797,552  | 1,633,996 | 36.17                               | 18,158   | 18,088    | 2,358   | 325,050 | 97,844                   | 107,742               | 1,558 |

\* Town circles include municipalities and rural towns with a population of 5,000 and above.

## Districts and Towns of the Madras Presidency during the year 1934—cont.

| Injuries. |                       |                                       |         |        | Ratio of deaths per 1,000 of population. |                   |                               |          |           |         |        |                          |                       |           |                           |                   |               |                                |
|-----------|-----------------------|---------------------------------------|---------|--------|------------------------------------------|-------------------|-------------------------------|----------|-----------|---------|--------|--------------------------|-----------------------|-----------|---------------------------|-------------------|---------------|--------------------------------|
| Females.  | Wounds and accidents. | Snake-bite and killed by wild beasts. | Rabies. | Total. | Deaths from child births.                | All other causes. | Total deaths from all causes. | Cholera. | Smallpox. | Plague. | Fever. | Dysentery and diarrhoea. | Respiratory diseases. | Injuries. | Deaths from child births. | All other causes. | For the year. | Mean for the previous 5 years. |
| (15)      | (16)                  | (17)                                  | (18)    | (19)   | (20)                                     | (21)              | (22)                          | (23)     | (24)      | (25)    | (26)   | (27)                     | (28)                  | (29)      | (30)                      | (31)              | (32)          | (33)                           |
| 3         | 24                    | 1                                     | 3       | 35     | 7                                        | 1,032             | 1,880                         | 0.10     | 0.98      | ...     | 3.91   | 5.17                     | 3.91                  | 0.61      | 0.12                      | 18.01             | 32.81         | 31.18                          |
| ...       | 45                    | ...                                   | ...     | 46     | 14                                       | 871               | 1,554                         | 3.33     | 0.27      | ...     | 3.74   | 4.03                     | 2.60                  | 1.01      | 0.31                      | 19.49             | 34.77         | 26.05                          |
| ...       | 6                     | ...                                   | 1       | 7      | 10                                       | 293               | 646                           | 0.04     | 0.39      | ...     | 1.58   | 3.81                     | 8.66                  | 0.30      | 0.43                      | 12.53             | 27.64         | 25.73                          |
| 1         | 5                     | ...                                   | ...     | 6      | 6                                        | 190               | 235                           | ...      | ...       | ...     | 3.12   | 3.84                     | 2.70                  | 0.62      | 0.32                      | 13.50             | 24.41         | 24.40                          |
| ...       | 5                     | ...                                   | 1       | 6      | 8                                        | 266               | 496                           | ...      | ...       | ...     | 6.77   | 2.43                     | 1.31                  | 0.29      | 0.39                      | 12.95             | 24.14         | 30.61                          |
| ...       | 3                     | ...                                   | ...     | 3      | 4                                        | 251               | 568                           | 0.06     | ...       | ...     | 13.30  | 2.40                     | 1.66                  | 0.17      | 0.22                      | 14.02             | 31.73         | 30.09                          |
| ...       | 5                     | ...                                   | ...     | 7      | 4                                        | 134               | 425                           | ...      | ...       | ...     | 14.40  | 0.75                     | 0.92                  | 0.40      | 0.23                      | 7.69              | 24.38         | 22.61                          |
| 1         | ...                   | ...                                   | ...     | 1      | 1                                        | 78                | 312                           | ...      | ...       | ...     | 15.14  | 0.86                     | 0.87                  | 0.07      | 0.07                      | 5.37              | 22.28         | 21.26                          |
| ...       | 4                     | ...                                   | 1       | 6      | 5                                        | 160               | 368                           | 0.43     | 0.43      | ...     | 12.33  | 1.02                     | 2.55                  | 0.61      | 0.43                      | 13.60             | 31.28         | 20.43                          |
| ...       | ...                   | ...                                   | ...     | ...    | 3                                        | 80                | 340                           | 1.26     | ...       | ...     | 20.90  | 0.27                     | 0.72                  | ...       | 0.27                      | 7.21              | 30.63         | 26.58                          |
| ...       | 1                     | ...                                   | ...     | 3      | 6                                        | 39                | 169                           | ...      | ...       | ...     | 7.50   | 2.46                     | 6.55                  | 0.41      | 0.32                      | 5.32              | 23.06         | 18.42                          |
| ...       | ...                   | ...                                   | ...     | ...    | ...                                      | 18                | 138                           | ...      | ...       | ...     | 16.87  | ...                      | 0.89                  | ...       | ...                       | 2.66              | 20.42         | 22.84                          |
| ...       | ...                   | 1                                     | ...     | 3      | ...                                      | 95                | 269                           | 0.91     | 0.15      | ...     | 22.34  | 1.68                     | 0.91                  | 0.30      | ...                       | 14.34             | 40.61         | 27.75                          |
| 1         | 1                     | 1                                     | ...     | 3      | 1                                        | 55                | 209                           | ...      | ...       | ...     | 21.59  | 1.42                     | 0.63                  | 0.47      | 0.16                      | 8.67              | 32.93         | 25.18                          |
| ...       | ...                   | ...                                   | ...     | 1      | 7                                        | 50                | 167                           | ...      | ...       | ...     | 11.61  | 5.37                     | 2.96                  | 0.17      | 0.17                      | 8.67              | 28.94         | 26.58                          |
| 1         | ...                   | ...                                   | ...     | 1      | 4                                        | 52                | 170                           | 1.12     | ...       | ...     | 11.03  | 1.67                     | 1.30                  | 0.19      | 0.74                      | 9.68              | 31.63         | ...                            |
| 234       | 1,782                 | 151                                   | 110     | 2,434  | 3,093                                    | 88,874            | 171,194                       | 0.32     | 0.61      | 0.13    | 4.19   | 2.82                     | 4.18                  | 0.40      | 0.49                      | 14.18             | 27.31         | 26.76                          |
| 4,637     | 3,521                 | 802                                   | 10,223  | 10,809 | 442,446                                  | 955,975           | 0.41                          | 0.37     | 0.04      | 7.68    | 2.06   | 2.10                     | 0.26                  | 0.28      | 11.37                     | 24.57             | 23.65         | ...                            |
| 1,696     | 6,869                 | 2,672                                 | 412     | 12,707 | 13,902                                   | 531,320           | 1,127,169                     | 0.40     | 0.40      | 0.05    | 7.19   | 2.17                     | 2.38                  | 0.28      | 0.31                      | 11.77             | 24.95         | 24.03                          |

Statement No. VI (a) (Optional).—Deaths registered from Certain Causes

| Municipalities.        | Malaria. |                 | Enteric fever. |                 | Measles. |                 | Relapsing fever (spirochætal). |                 | Kala-azar. |                 | Influenza. |                 | Diphtheria. |                 |
|------------------------|----------|-----------------|----------------|-----------------|----------|-----------------|--------------------------------|-----------------|------------|-----------------|------------|-----------------|-------------|-----------------|
|                        | Deaths.  | Rate per mille. | Deaths.        | Rate per mille. | Deaths.  | Rate per mille. | Deaths.                        | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.     | Rate per mille. |
|                        | (1)      | (2)             | (3)            | (4)             | (5)      | (6)             | (7)                            | (8)             | (9)        | (10)            | (11)       | (12)            | (13)        | (14)            |
| <i>Anantapur.</i>      |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 1. Anantapur ...       | 3        | 0.20            | 17             | 1.13            | 4        | 0.27            | ...                            | ...             | ...        | ...             | 1          | 0.07            | ...         | ...             |
| 2. Hindupur ...        | 64       | 4.5             | 1              | 0.07            | ...      | ...             | ...                            | ...             | ...        | ...             | 2          | 0.14            | ...         | ...             |
| 3. Tadpatri ...        | ...      | ...             | 7              | 0.55            | 3        | 0.24            | ...                            | ...             | ...        | ...             | 1          | 0.08            | ...         | ...             |
| <i>Bellary.</i>        |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 4. Bellary ...         | 73       | 1.53            | 12             | 0.25            | 1        | 0.02            | ...                            | ...             | ...        | ...             | 5          | 0.11            | ...         | ...             |
| 5. Adoni... ..         | 4        | 0.11            | 1              | 0.03            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 6. Hospet ...          | 26       | 1.20            | 18             | 0.83            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Chingleput.</i>     |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 7. Conjeevaram.        | 6        | 0.09            | 13             | 0.20            | 10       | 0.15            | ...                            | ...             | ...        | ...             | 2          | 0.03            | ...         | ...             |
| 8. Saidapet ...        | 8        | 0.24            | 3              | 0.09            | 7        | 0.21            | ...                            | ...             | ...        | ...             | 4          | 0.12            | ...         | ...             |
| 9. Chingleput ...      | 9        | 0.63            | 7              | 0.49            | 1        | 0.07            | ...                            | ...             | ...        | ...             | 2          | 0.14            | ...         | ...             |
| <i>Chittoor.</i>       |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 10. Chittoor ...       | 1        | 0.05            | 6              | 0.27            | ...      | ...             | ...                            | ...             | ...        | ...             | 1          | 0.05            | ...         | ...             |
| 11. Tirupati ...       | 6        | 0.31            | 1              | 0.05            | 2        | 0.01            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Coimbatore.</i>     |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 12. Coimbatore...      | 39       | 0.41            | 23             | 0.24            | 59       | 0.62            | ...                            | ...             | ...        | ...             | 31         | 0.33            | ...         | ...             |
| 13. Erode... ..        | 2        | 0.05            | 2              | 0.05            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 14. Pollachi ...       | 15       | 0.68            | 1              | 0.05            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 15. Dharapuram.        | ...      | ...             | 7              | 0.38            | ...      | ...             | ...                            | ...             | ...        | ...             | 1          | 0.05            | ...         | ...             |
| 16. Tiruppur ...       | ...      | ...             | 8              | 0.44            | 1        | 0.05            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 17. Udumalpet ...      | 8        | 0.65            | 5              | 0.41            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Cuddapah.</i>       |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 18. Cuddapah ...       | 58       | 2.57            | 8              | 0.35            | 2        | 0.09            | ...                            | ...             | ...        | ...             | 1          | 0.04            | ...         | ...             |
| 19. Prodatpur ...      | 38       | 1.89            | 16             | 0.79            | ...      | ...             | ...                            | ...             | ...        | ...             | 5          | 0.25            | ...         | ...             |
| <i>Ganjam.</i>         |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 20. Berhampur...       | 7        | 0.19            | 37             | 0.98            | 1        | 0.03            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 21. Parlakimedi.       | 35       | 1.74            | 7              | 0.35            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 2. Chicacole ...       | 3        | 0.18            | 12             | 0.72            | 1        | 0.06            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Godavari, East.</i> |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 23. Rajahmundry.       | 5        | 0.08            | 25             | 0.29            | 4        | 0.06            | ...                            | ...             | 1          | 0.02            | ...        | ...             | ...         | ...             |
| 24. Ocanada ...        | 73       | 1.11            | 24             | 0.36            | 1        | 0.02            | ...                            | ...             | ...        | ...             | 28         | 0.42            | ...         | ...             |
| 25. Peddapuram.        | 12       | 0.71            | ...            | ...             | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Godavari, West.</i> |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 26. Ellore... ..       | 43       | 0.75            | 36             | 0.63            | ...      | ...             | ...                            | ...             | ...        | ...             | 1          | 0.02            | ...         | ...             |
| 27. Palacole ...       | 18       | 1.06            | 18             | 1.06            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Guntur.</i>         |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 28. Guntur ...         | 48       | 0.74            | 36             | 0.55            | 7        | 0.11            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 29. Tenali ...         | ...      | ...             | 20             | 0.58            | 2        | 0.06            | ...                            | ...             | ...        | ...             | 2          | 0.06            | ...         | ...             |
| 30. Chirala ...        | 3        | 0.16            | 14             | 0.74            | 3        | 0.18            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 31. Ongole ...         | 45       | 2.70            | 15             | 0.90            | 3        | 0.18            | ...                            | ...             | ...        | ...             | 1          | 0.06            | ...         | ...             |
| 32. Narasaraopet.      | ...      | ...             | 2              | 0.13            | ...      | ...             | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Kistna.</i>         |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 33. Bezawada ...       | 80       | 1.32            | 21             | 0.35            | 40       | 0.66            | ...                            | ...             | ...        | ...             | 1          | 0.02            | ...         | ...             |
| 34. Masulipatam.       | 7        | 0.12            | 37             | 0.65            | 10       | 0.18            | ...                            | ...             | ...        | ...             | 4          | 0.07            | ...         | ...             |
| <i>Kurnool.</i>        |          |                 |                |                 |          |                 |                                |                 |            |                 |            |                 |             |                 |
| 35. Kurnool ...        | 11       | 0.31            | 35             | 0.99            | 16       | 0.45            | ...                            | ...             | ...        | ...             | 7          | 0.20            | ...         | ...             |
| 36. Nandyal ...        | 17       | 0.75            | 2              | 0.09            | 1        | 0.04            | ...                            | ...             | ...        | ...             | ...        | ...             | ...         | ...             |

in the Municipalities of the Madras Presidency during the year 1934.

| Other fevers. | Dysentery. |                 | Diarrhoea. |                 | Pneumonia. |                 | Other respiratory diseases. |                 | Other tubercular diseases. |                 | Deaths from child-birth. | Deaths under one year. |         |        | Infantile mortality rate per 1,000 live births |
|---------------|------------|-----------------|------------|-----------------|------------|-----------------|-----------------------------|-----------------|----------------------------|-----------------|--------------------------|------------------------|---------|--------|------------------------------------------------|
|               | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.                     | Rate per mille. | Deaths.                    | Rate per mille. |                          | Male.                  | Female. | Total. |                                                |
|               | (15)       | (16)            | (17)       | (18)            | (19)       | (20)            | (21)                        | (22)            | (23)                       | (24)            | (25)                     | (26)                   | (27)    | (28)   | (29)                                           |
| 96            | 1.72       | 19              | 1.26       | 13              | 0.83       | 17              | 1.13                        | 23              | 1.52                       | ...             | 8                        | 37                     | 37      | 74     | 135.24                                         |
| 1             | 0.07       | 13              | 0.91       | 4               | 0.24       | 44              | 3.09                        | 47              | 3.30                       | ...             | 12                       | 61                     | 39      | 100    | 159.14                                         |
| 142           | 11.25      | 2               | 0.16       | 12              | 0.95       | 3               | 0.21                        | 6               | 0.43                       | ...             | 11                       | 43                     | 35      | 79     | 106.51                                         |
| 80            | 1.58       | 93              | 1.95       | 183             | 3.85       | 240             | 5.04                        | 183             | 3.85                       | ...             | 31                       | 301                    | 282     | 583    | 311.26                                         |
| 1             | 0.03       | 63              | 1.49       | 60              | 1.68       | 9               | 0.25                        | 249             | 6.99                       | ...             | 3                        | 101                    | 77      | 178    | 121.09                                         |
| 31            | 1.43       | 9               | 0.42       | 60              | 2.77       | 30              | 1.38                        | 81              | 3.74                       | ...             | 8                        | 69                     | 60      | 129    | 150.00                                         |
| 92            | 1.41       | 122             | 1.86       | 140             | 2.15       | 262             | 4.91                        | 154             | 2.36                       | ...             | 34                       | 253                    | 213     | 466    | 179.99                                         |
| 36            | 1.09       | 52              | 1.57       | 61              | 1.85       | 11              | 0.33                        | 130             | 3.93                       | ...             | 4                        | 142                    | 103     | 245    | 202.14                                         |
| 23            | 1.60       | 32              | 2.23       | 15              | 1.04       | 37              | 2.53                        | 53              | 3.09                       | ...             | 16                       | 69                     | 58      | 127    | 173.97                                         |
| 5             | 0.23       | 7               | 0.32       | 13              | 0.59       | 31              | 1.41                        | 31              | 1.31                       | ...             | 13                       | 60                     | 59      | 119    | 159.42                                         |
| 72            | 3.76       | 37              | 1.93       | 42              | 2.19       | 36              | 1.88                        | 55              | 2.87                       | ...             | 13                       | 61                     | 61      | 122    | 185.41                                         |
| 192           | 2.02       | 223             | 2.34       | 261             | 2.74       | 197             | 2.07                        | 198             | 2.08                       | ...             | 49                       | 434                    | 377     | 811    | 236.31                                         |
| 90            | 2.67       | 16              | 0.43       | 9               | 0.27       | 16              | 0.05                        | 34              | 1.00                       | ...             | 18                       | 67                     | 49      | 116    | 129.18                                         |
| 83            | 3.88       | 58              | 2.62       | 46              | 2.08       | 75              | 3.39                        | 45              | 2.03                       | ...             | 10                       | 117                    | 88      | 205    | 229.06                                         |
| 3             | 0.16       | 41              | 2.23       | 22              | 1.21       | 43              | 2.36                        | 20              | 1.09                       | ...             | 8                        | 49                     | 52      | 101    | 152.33                                         |
| 71            | 3.93       | 24              | 1.33       | 12              | 0.66       | 7               | 0.39                        | 33              | 1.77                       | ...             | 12                       | 34                     | 37      | 71     | 123.48                                         |
| 1             | 0.08       | 37              | 3.04       | 10              | 0.82       | 43              | 3.53                        | 20              | 1.64                       | ...             | 2                        | 54                     | 36      | 90     | 191.49                                         |
| 15            | 0.66       | 35              | 1.53       | 27              | 1.19       | 37              | 1.64                        | 45              | 1.99                       | ...             | 28                       | 86                     | 74      | 160    | 171.31                                         |
| 17            | 0.84       | 27              | 1.34       | 22              | 1.14       | 45              | 2.24                        | 39              | 1.94                       | ...             | 12                       | 67                     | 61      | 128    | 158.81                                         |
| 194           | 5.14       | 28              | 0.74       | 27              | 0.72       | 33              | 1.00                        | 113             | 2.99                       | ...             | 19                       | 118                    | 64      | 182    | 134.22                                         |
| 42            | 3.09       | 31              | 1.54       | 41              | 2.04       | 38              | 1.39                        | 33              | 1.64                       | ...             | 8                        | 69                     | 40      | 109    | 165.65                                         |
| 70            | 4.22       | 34              | 2.06       | 67              | 4.04       | 5               | 0.30                        | 38              | 2.29                       | ...             | 5                        | 36                     | 31      | 67     | 133.20                                         |
| 343           | 5.40       | 79              | 1.24       | 30              | 0.47       | 11              | 0.17                        | 235             | 3.70                       | ...             | 40                       | 396                    | 345     | 741    | 296.63                                         |
| 312           | 4.73       | 40              | 0.61       | 23              | 0.35       | 83              | 1.33                        | 89              | 1.95                       | ...             | 24                       | 272                    | 235     | 507    | 252.62                                         |
| 110           | 6.34       | 16              | 0.92       | ...             | ...        | 4               | 0.23                        | 14              | 0.81                       | ...             | 15                       | 39                     | 37      | 76     | 142.06                                         |
| 124           | 2.16       | 80              | 1.53       | 15              | 0.26       | 23              | 0.40                        | 75              | 1.31                       | ...             | 20                       | 94                     | 81      | 175    | 39.84                                          |
| 4             | 0.24       | 12              | 0.71       | 29              | 1.71       | 14              | 0.83                        | 27              | 1.60                       | ...             | 13                       | 51                     | 57      | 108    | 229.30                                         |
| 220           | 3.36       | 61              | 0.94       | 64              | 0.98       | 109             | 1.67                        | 112             | 1.72                       | ...             | 86                       | 285                    | 218     | 481    | 176.51                                         |
| 24            | 0.89       | 17              | 0.49       | 15              | 0.43       | 17              | 0.49                        | 27              | 0.78                       | ...             | 11                       | 81                     | 71      | 152    | 170.02                                         |
| 87            | 4.61       | 10              | 1.07       | 16              | 0.85       | 1               | 0.05                        | 18              | 0.95                       | ...             | 11                       | 86                     | 53      | 138    | 189.04                                         |
| 1             | 0.06       | 30              | 1.80       | 47              | 2.82       | 52              | 3.12                        | 33              | 1.98                       | ...             | 18                       | 71                     | 45      | 116    | 161.07                                         |
| 42            | 0.28       | 69              | 0.45       | 72              | 4.67       | 1               | 0.06                        | 110             | 7.14                       | ...             | 8                        | 82                     | 73      | 155    | 209.57                                         |
| 285           | 4.72       | 63              | 1.04       | 7               | 0.12       | 182             | 3.01                        | 127             | 2.10                       | ...             | 50                       | 419                    | 362     | 781    | 282.46                                         |
| 183           | 3.21       | 75              | 1.32       | 70              | 1.52       | 54              | 0.99                        | 73              | 1.32                       | ...             | 23                       | 311                    | 241     | 552    | 233.90                                         |
| 29            | 0.82       | 28              | 0.74       | 71              | 2.01       | 43              | 1.27                        | 13              | 3.71                       | ...             | 15                       | 128                    | 88      | 214    | 127.38                                         |
| 146           | 6.46       | 50              | 2.21       | 12              | 0.53       | 36              | 1.59                        | 68              | 2.92                       | ...             | 13                       | 90                     | 76      | 166    | 181.62                                         |

Statement No. VI (a) (Optional).—Deaths registered from Certain Causes

| Municipalities.               | Malaria. |                 | Enteric fever. |                 | Measles. |                 | Relapsing fever (spiro-Chaetal). |                 | Kala-azar. |                 | Influenza. |                 | Diphtheria. |                 |
|-------------------------------|----------|-----------------|----------------|-----------------|----------|-----------------|----------------------------------|-----------------|------------|-----------------|------------|-----------------|-------------|-----------------|
|                               | Deaths.  | Rate per mille. | Deaths.        | Rate per mille. | Deaths.  | Rate per mille. | Deaths.                          | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.     | Rate per mille. |
|                               | (1)      | (2)             | (3)            | (4)             | (5)      | (6)             | (7)                              | (8)             | (9)        | (10)            | (11)       | (12)            | (13)        | (14)            |
| <i>Madras.</i>                |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 37. Madras ...                | 194      | 0.30            | 146            | 0.23            | 7        | 0.01            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Madura.</i>                |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 38. Madura ...                | 33       | 0.18            | 12             | 0.07            | 8        | 0.04            | ...                              | ...             | 1          | 0.005           | 5          | 0.03            | ...         | ...             |
| 39. Dindigul ...              | 18       | 0.41            | 6              | 0.14            | ...      | ...             | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 40. Bodinayakanur.            | 43       | 1.59            | ...            | ...             | ...      | ...             | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 41. Palni ...                 | 4        | 0.21            | 2              | 0.11            | 1        | 0.05            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 42. Periyakulam.              | 13       | 0.56            | ...            | ...             | 3        | 0.13            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 43. Kodaikanal...             | 3        | 0.46            | 2              | 0.31            | ...      | ...             | ...                              | ...             | ...        | ...             | 2          | 0.31            | ...         | ...             |
| <i>Malabar.</i>               |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 44. Calicut ...               | 4        | 0.04            | 46             | 0.46            | ...      | ...             | ...                              | ...             | ...        | ...             | 1          | 0.01            | ...         | ...             |
| 45. Palghat ...               | 3        | 0.06            | 13             | 0.26            | ...      | ...             | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 46. Cannanore ...             | 1        | 0.03            | 4              | 0.12            | ...      | ...             | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 47. Tellicherry ...           | 4        | 0.13            | 26             | 0.86            | 5        | 0.16            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 48. Cochin ...                | ...      | ...             | 37             | 1.62            | 4        | 0.18            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Nellore.</i>               |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 49. Nellore ...               | 10       | 0.02            | 64             | 1.39            | 33       | 0.72            | ...                              | ...             | ...        | ...             | 2          | 0.04            | ...         | ...             |
| <i>Nilgris.</i>               |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 50. Ootacamund.               | 10       | 0.41            | 2              | 0.08            | ...      | ...             | ...                              | ...             | ...        | ...             | 3          | 0.12            | ...         | ...             |
| 51. Coonoor ...               | 2        | 0.14            | 4              | 0.28            | ...      | ...             | ...                              | ...             | ...        | ...             | 1          | 0.07            | 2           | 1.14            |
| <i>North Arcot.</i>           |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 52. Vellore ...               | 15       | 0.26            | 18             | 0.31            | 13       | 0.23            | ...                              | ...             | ...        | ...             | 5          | 0.09            | ...         | ...             |
| 53. Gudiyattam.               | 6        | 0.24            | 9              | 0.36            | 17       | 0.39            | ...                              | ...             | ...        | ...             | 3          | 0.12            | ...         | ...             |
| 54. Tiruvannamalai.           | 5        | 0.18            | 70             | 2.52            | 13       | 0.47            | ...                              | ...             | 1          | 0.04            | ...        | ...             | ...         | ...             |
| 55. Vaniyam-badi.             | 31       | 1.35            | ...            | ...             | 6        | 0.26            | ...                              | ...             | ...        | ...             | 1          | 0.04            | ...         | ...             |
| 56. Tirupattur..              | 3        | 0.16            | 9              | 0.49            | 4        | 0.22            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 57. Walajapet ...             | 6        | 0.54            | ...            | ...             | 6        | 0.54            | ...                              | ...             | ...        | ...             | 2          | 0.18            | ...         | ...             |
| <i>Ramnad.</i>                |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 58. Srivilliputtur.           | 3        | 0.09            | 4              | 0.12            | 4        | 0.12            | ...                              | ...             | ...        | ...             | 6          | 0.25            | ...         | ...             |
| 59. Virudhunagar.             | 5        | 0.15            | ...            | ...             | 1        | 0.03            | ...                              | ...             | ...        | ...             | 2          | 0.06            | ...         | ...             |
| 60. Sivakasi ...              | 3        | 0.19            | 3              | 0.19            | ...      | ...             | ...                              | ...             | ...        | ...             | 9          | 0.57            | ...         | ...             |
| 61. Karaikudi ...             | ...      | ...             | 3              | 0.14            | 3        | 0.14            | ...                              | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| <i>Salem.</i>                 |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 62. Salem... ..               | 41       | 0.40            | 18             | 0.18            | 35       | 0.34            | ...                              | ...             | ...        | ...             | 1          | 0.009           | ...         | ...             |
| <i>South Arcot.</i>           |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 63. Cuddalore ...             | 14       | 0.24            | 28             | 0.48            | 11       | 0.19            | ...                              | ...             | ...        | ...             | 2          | 0.03            | ...         | ...             |
| 64. Ohidambaram.              | 2        | 0.03            | 3              | 0.12            | 2        | 0.08            | ...                              | ...             | ...        | ...             | 2          | 0.08            | ...         | ...             |
| 65. Villupuram ...            | 13       | 0.65            | 6              | 0.30            | 10       | 0.50            | ...                              | ...             | ...        | ...             | 6          | 0.30            | ...         | ...             |
| <i>South Kanara District.</i> |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 66. Mangalore ...             | 10       | 0.15            | 66             | 0.99            | 22       | 0.33            | ...                              | ...             | ...        | ...             | 1          | 0.01            | ...         | ...             |
| <i>Tanjore.</i>               |          |                 |                |                 |          |                 |                                  |                 |            |                 |            |                 |             |                 |
| 67. Kumbakonam.               | 2        | 0.03            | 30             | 0.32            | ...      | ...             | ...                              | ...             | ...        | ...             | 1          | 0.02            | ...         | ...             |
| 68. Tanjore ...               | 8        | 0.13            | 45             | 0.87            | 13       | 0.19            | ...                              | ...             | ...        | ...             | 2          | 0.19            | ...         | ...             |
| 69. Negapatam ...             | 22       | 0.45            | 7              | 0.14            | 2        | 0.04            | ...                              | ...             | ...        | ...             | 9          | 0.19            | ...         | ...             |

in the Municipalities of the Madras Presidency during the year 1934—cont.

| Other fevers. |                 | Dysentery. |                 | Diarrhoea. |                 | Pneumonia. |                 | Other respiratory diseases. |                 | Other tubercular diseases. |                 | Deaths from child birth. | Deaths under one year. |         |        | Infantile mortality rate per 1,000 live births. |
|---------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|-----------------------------|-----------------|----------------------------|-----------------|--------------------------|------------------------|---------|--------|-------------------------------------------------|
| Deaths.       | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.                     | Rate per mille. | Deaths.                    | Rate per mille. |                          | Male.                  | Female. | Total. |                                                 |
| (15)          |                 | (16)       |                 | (17)       |                 | (18)       |                 | (19)                        |                 | (20)                       |                 | (21)                     | (22)                   |         |        | (23)                                            |
| 2,007         | 5.24            | 140        | 0.22            | 798        | 1.23            | ...        | ...             | 5,783                       | 8.93            | 1,122                      | 1.73            | 313                      | 3,539                  | 2,885   | 6,424  | 231.66                                          |
| 361           | 2.09            | 980        | 5.43            | 596        | 3.27            | 577        | 3.17            | 1,459                       | 8.01            | ...                        | ...             | 117                      | 950                    | 785     | 1,735  | 369.37                                          |
| 2             | 0.05            | 60         | 1.58            | 129        | 2.96            | 112        | 2.57            | 65                          | 1.49            | ...                        | ...             | 15                       | 184                    | 145     | 329    | 74.17                                           |
| 13            | 0.44            | 27         | 1.00            | 24         | 0.69            | 17         | 0.63            | 40                          | 1.48            | ...                        | ...             | 6                        | 92                     | 78      | 170    | 144.68                                          |
| 8             | 0.42            | 84         | 4.44            | 11         | 0.58            | 72         | 3.81            | 26                          | 1.38            | ...                        | ...             | 5                        | 68                     | 58      | 126    | 183.40                                          |
| 26            | 1.13            | 30         | 1.30            | 51         | 2.22            | 27         | 1.17            | 123                         | 5.35            | ...                        | ...             | 12                       | 104                    | 106     | 210    | 207.71                                          |
| 1             | 0.15            | 9          | 1.38            | 8          | 1.23            | 41         | 6.29            | 30                          | 4.60            | ...                        | ...             | 5                        | 45                     | 38      | 83     | 282.31                                          |
| 129           | 1.30            | 82         | 0.83            | 40         | 0.40            | 84         | 0.85            | 310                         | 3.12            | ...                        | ...             | 58                       | 231                    | 205     | 436    | 105.55                                          |
| 59            | 1.20            | 43         | 0.88            | 63         | 1.28            | 56         | 1.14            | 106                         | 2.16            | ...                        | ...             | 15                       | 205                    | 154     | 359    | 176.39                                          |
| 24            | 0.70            | 30         | 0.88            | 28         | 0.82            | 63         | 1.84            | 99                          | 2.89            | ...                        | ...             | 11                       | 108                    | 88      | 196    | 143.07                                          |
| 18            | 0.16            | 13         | 0.04            | 22         | 0.73            | 45         | 1.48            | 93                          | 3.06            | ...                        | ...             | 14                       | 74                     | 63      | 137    | 113.88                                          |
| 22            | 0.96            | 28         | 1.23            | 27         | 1.18            | 41         | 1.80            | 135                         | 5.92            | ...                        | ...             | 10                       | 78                     | 67      | 145    | 154.52                                          |
| 175           | 3.81            | 72         | 1.57            | 118        | 2.57            | 51         | 1.11            | 83                          | 1.81            | ...                        | ...             | 45                       | 236                    | 224     | 460    | 227.39                                          |
| 7             | 0.28            | 27         | 1.10            | 13         | 0.53            | 192        | 7.80            | 38                          | 1.54            | ...                        | ...             | 6                        | 115                    | 111     | 226    | 214.62                                          |
| 5             | 0.21            | 27         | 0.11            | 9          | 0.37            | 70         | 0.29            | 34                          | 0.14            | ...                        | ...             | 3                        | 27                     | 22      | 49     | 96.27                                           |
| 76            | 1.53            | 118        | 2.06            | 158        | 2.76            | 105        | 1.83            | 198                         | 3.46            | ...                        | ...             | 59                       | 331                    | 251     | 582    | 183.19                                          |
| 7             | 0.28            | 29         | 1.17            | 36         | 1.46            | 50         | 2.03            | 44                          | 1.78            | ...                        | ...             | 24                       | 66                     | 49      | 114    | 137.68                                          |
| ...           | ...             | 52         | 1.87            | 82         | 2.95            | 57         | 2.05            | 28                          | 1.01            | ...                        | ...             | 30                       | 90                     | 84      | 174    | 154.39                                          |
| ...           | ...             | 29         | 1.26            | 9          | 0.39            | 47         | 2.05            | 52                          | 2.27            | ...                        | ...             | 21                       | 71                     | 51      | 122    | 189.44                                          |
| 120           | 6.56            | 7          | 0.38            | 3          | 0.16            | 7          | 0.38            | 28                          | 1.53            | ...                        | ...             | 18                       | 48                     | 35      | 83     | 119.94                                          |
| 10            | 0.09            | 27         | 2.43            | 39         | 3.51            | 32         | 2.88            | 16                          | 1.44            | ...                        | ...             | 18                       | 37                     | 26      | 63     | 153.28                                          |
| 3             | 0.09            | 80         | 2.47            | 69         | 2.13            | 105        | 3.24            | 73                          | 2.25            | ...                        | ...             | 34                       | 119                    | 89      | 208    | 174.20                                          |
| 54            | 1.63            | 69         | 2.07            | 82         | 2.48            | 40         | 1.21            | 171                         | 5.17            | ...                        | ...             | 19                       | 142                    | 117     | 259    | 309.69                                          |
| 25            | 1.64            | 32         | 2.10            | 12         | 0.79            | 16         | 1.05            | 42                          | 2.76            | ...                        | ...             | 11                       | 29                     | 27      | 56     | 136.63                                          |
| 73            | 3.37            | 19         | 0.88            | 80         | 3.69            | 9          | 0.42            | 83                          | 0.38            | ...                        | ...             | 16                       | 62                     | 42      | 104    | 161.74                                          |
| 267           | 2.61            | 88         | 0.87            | 190        | 1.86            | 133        | 1.30            | 189                         | 1.76            | ...                        | ...             | 42                       | 371                    | 300     | 671    | 173.70                                          |
| 52            | 0.88            | 91         | 1.54            | 95         | 1.61            | 73         | 1.24            | 156                         | 2.64            | ...                        | ...             | 31                       | 234                    | 174     | 408    | 195.12                                          |
| 26            | 1.04            | 18         | 0.72            | 27         | 1.08            | 50         | 1.99            | 58                          | 2.31            | ...                        | ...             | 21                       | 85                     | 64      | 149    | 139.57                                          |
| 26            | 1.29            | 18         | 0.65            | 32         | 1.59            | 26         | 1.29            | 22                          | 1.09            | ...                        | ...             | 22                       | 37                     | 45      | 82     | 131.83                                          |
| 5             | 0.05            | 58         | 0.87            | 35         | 0.32            | 111        | 1.66            | 186                         | 2.79            | ...                        | ...             | 35                       | 154                    | 115     | 269    | 106.03                                          |
| 91            | 1.46            | 60         | 0.96            | 41         | 0.66            | 91         | 1.48            | 96                          | 1.54            | ...                        | ...             | 38                       | 196                    | 173     | 369    | 155.78                                          |
| 156           | 2.33            | 117        | 1.75            | 192        | 2.87            | 132        | 1.97            | 167                         | 2.35            | ...                        | ...             | 55                       | 320                    | 285     | 605    | 215.15                                          |
| 140           | 2.88            | 153        | 3.15            | 59         | 1.22            | 43         | 0.89            | 131                         | 2.70            | ...                        | ...             | 29                       | 180                    | 153     | 333    | 207.74                                          |

Statement No VI (a) (Optional).—Deaths registered from Certain Causes

| Municipalities.    | Malaria. |                 | Enteric fever. |                 | Measles. |                 | Relapsing fever (spirochaetal). |                 | Kala-azar. |                 | Influenza. |                 | Diphtheria. |                 |
|--------------------|----------|-----------------|----------------|-----------------|----------|-----------------|---------------------------------|-----------------|------------|-----------------|------------|-----------------|-------------|-----------------|
|                    | Deaths.  | Rate per mille. | Deaths.        | Rate per mille. | Deaths.  | Rate per mille. | Deaths.                         | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.     | Rate per mille. |
|                    | (1)      | (2)             | (3)            | (4)             | (5)      | (6)             | (7)                             | (8)             | (9)        | (10)            | (11)       | (12)            | (13)        | (14)            |
| Tanjore—cont.      |          |                 |                |                 |          |                 |                                 |                 |            |                 |            |                 |             |                 |
| 70. Mayavaram...   | 6        | 0.19            | 1              | 0.03            | 10       | 0.31            | ...                             | ...             | ...        | ...             | 11         | 0.34            | ...         | ...             |
| 71. Tiruvarur ...  | 7        | 0.34            | 33             | 1.63            | 5        | 0.25            | ...                             | ...             | ...        | ...             | 4          | 0.20            | ...         | ...             |
| 72. Mannargudi.    | ...      | ...             | 2              | 0.09            | ...      | ...             | ...                             | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| Tinnevely.         |          |                 |                |                 |          |                 |                                 |                 |            |                 |            |                 |             |                 |
| 73. Tinnevely ...  | 1        | 0.02            | 12             | 0.21            | 29       | 0.51            | ...                             | ...             | ...        | ...             | 4          | 0.07            | ...         | ...             |
| 74. Palamcottah.   | 2        | 0.04            | 5              | 0.10            | 13       | 0.25            | ...                             | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 75. Tuticorin ...  | 3        | 0.05            | 5              | 0.08            | 2        | 0.03            | ...                             | ...             | ...        | ...             | 7          | 0.12            | ...         | ...             |
| Trichinopoly.      |          |                 |                |                 |          |                 |                                 |                 |            |                 |            |                 |             |                 |
| 76. Trichinopoly.  | 22       | 0.15            | 27             | 0.19            | 8        | 0.56            | ...                             | ...             | ...        | ...             | 6          | 0.43            | ...         | ...             |
| 77. Srirangam ...  | 14       | 0.57            | 1              | 0.04            | ...      | ...             | ...                             | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 78. Karur...       | ...      | ...             | 3              | 0.10            | ...      | ...             | ...                             | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| Vizagapatam.       |          |                 |                |                 |          |                 |                                 |                 |            |                 |            |                 |             |                 |
| 79. Vizagapatam.   | 29       | 0.51            | 35             | 0.61            | ...      | ...             | ...                             | ...             | ...        | ...             | 1          | 0.02            | ...         | ...             |
| 80. Visianagaram.  | 108      | 2.42            | 24             | 0.54            | ...      | ...             | ...                             | ...             | ...        | ...             | ...        | 0.02            | ...         | ...             |
| 81. Anakapalle ... | 24       | 1.03            | 76             | 3.25            | ...      | ...             | ...                             | ...             | ...        | ...             | ...        | ...             | ...         | ...             |
| 82. Bimlipatam.    | 13       | 1.35            | ...            | ...             | ...      | ...             | ...                             | ...             | ...        | ...             | ...        | ...             | ...         | ...             |

NOTE.—Deaths under cerebro-spinal fever, Beri-beri, Typhus fever, of joints, Whooping cough, Leprosy—

in the Municipalities of the Madras Presidency during the year 1934—cont.

| Other fevers. | Dysentery. |                 | Diarrhoea. |                 | Pneumonia. |                 | Other respiratory diseases. |                 | Other tubercular diseases. |                 | Deaths from child birth. | Deaths under one year. |         |        | Infantile mortality rate per 1,000 live births. |
|---------------|------------|-----------------|------------|-----------------|------------|-----------------|-----------------------------|-----------------|----------------------------|-----------------|--------------------------|------------------------|---------|--------|-------------------------------------------------|
|               | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.    | Rate per mille. | Deaths.                     | Rate per mille. | Deaths.                    | Rate per mille. |                          | Male.                  | Female. | Total. |                                                 |
|               | (15)       | (16)            | (17)       | (18)            | (19)       | (20)            | (21)                        | (22)            | (23)                       | (24)            | (25)                     | (26)                   | (27)    | (28)   | (29)                                            |
| 66            | 2.07       | 14              | 0.44       | 1               | 0.03       | 52              | 1.63                        | 56              | 1.76                       | ...             | 16                       | 90                     | 70      | 160    | 175.63                                          |
| 10            | 0.49       | 53              | 2.55       | 27              | 1.32       | 21              | 1.03                        | 23              | 1.13                       | ...             | 15                       | 54                     | 39      | 93     | 201.30                                          |
| 12            | 0.53       | 45              | 1.98       | 36              | 1.58       | 40              | 1.76                        | 33              | 1.45                       | ...             | 10                       | 89                     | 64      | 153    | 173.86                                          |
| 53            | 0.93       | 93              | 1.63       | 99              | 1.73       | 183             | 3.21                        | 119             | 2.08                       | ...             | 52                       | 289                    | 253     | 542    | 262.23                                          |
| 16            | 0.81       | 47              | 0.90       | 68              | 1.31       | 129             | 2.48                        | 115             | 2.21                       | ...             | 38                       | 231                    | 195     | 426    | 215.46                                          |
| 195           | 3.24       | 136             | 2.12       | 81              | 1.34       | 55              | 0.91                        | 261             | 4.16                       | ...             | 37                       | 290                    | 227     | 517    | 214.48                                          |
| 25            | 0.24       | 238             | 1.66       | 205             | 1.43       | 489             | 3.42                        | 402             | 2.81                       | ...             | 68                       | 462                    | 389     | 851    | 187.43                                          |
| 23            | 0.93       | 31              | 1.26       | 28              | 1.91       | 73              | 4.98                        | 58              | 3.95                       | ...             | 17                       | 87                     | 57      | 144    | 190.73                                          |
| 118           | 5.94       | 30              | 1.51       | 4               | 0.20       | 5               | 0.25                        | 42              | 2.11                       | ...             | 9                        | 59                     | 48      | 108    | 183.05                                          |
| 194           | 3.39       | 117             | 2.04       | 179             | 3.13       | 46              | 0.80                        | 178             | 3.11                       | ...             | 80                       | 319                    | 287     | 606    | 287.07                                          |
| 59            | 1.30       | 131             | 2.93       | 48              | 1.07       | 33              | 0.74                        | 83              | 1.86                       | ...             | 14                       | 217                    | 187     | 404    | 221.17                                          |
| 13            | 0.56       | 38              | 1.63       | 51              | 2.18       | 82              | 3.51                        | 118             | 5.05                       | ...             | 10                       | 88                     | 64      | 152    | 185.19                                          |
| 16            | 1.66       | 15              | 1.56       | 22              | 2.28       | 3               | 0.81                        | 23              | 2.39                       | ...             | 6                        | 49                     | 50      | 99     | 263.30                                          |

Acute-Pollomvclitus, Black-water fever, Chickenpox, Mumps, Pulmonary tuberculosis, Tuberculosis Cancer, are—Nil.

No. VII.—Deaths registered from Cholera in the Districts of the Madras Presidency during each month of the year 1934.

| Number. | Districts.               | Circles of registration. |                                         | Villages.                |                                         | January. | February. | March. | April. | May. | June. | July. |
|---------|--------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|----------|-----------|--------|--------|------|-------|-------|
|         |                          | Number in each district. | Number from which deaths were reported. | Number in each district. | Number from which deaths were reported. |          |           |        |        |      |       |       |
| (1)     | (2)                      | (3)                      | (4)                                     | (5)                      | (6)                                     | (7)      | (8)       | (9)    | (10)   | (11) | (12)  | (13)  |
| 1       | Anantapur                | 12                       | 3                                       | 865                      | 3                                       | ...      | ...       | ...    | ...    | ...  | ...   | 1     |
| 2       | Bellary                  | 12                       | 3                                       | 918                      | 3                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 3       | Chingleput               | 10                       | 10                                      | 2,155                    | 194                                     | ...      | ...       | ...    | ...    | ...  | ...   | 120   |
| 4       | Chittoor                 | 12                       | 12                                      | 2,361                    | 82                                      | ...      | ...       | ...    | ...    | ...  | ...   | 14    |
| 5       | Coimbatore               | 16                       | 7                                       | 1,116                    | 9                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 6       | Cuddapah                 | 11                       | 1                                       | 897                      | 1                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 7       | Ganjam                   | 14                       | 14                                      | 4,054                    | 559                                     | ...      | ...       | ...    | ...    | ...  | ...   | 899   |
| 8       | Godavari, East           | 11                       | 8                                       | 817                      | 29                                      | ...      | ...       | ...    | ...    | ...  | ...   | 6     |
| 9       | Godavari, West           | 5                        | ...                                     | 1,114                    | ...                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 10      | Guntur                   | 9                        | 8                                       | 726                      | 77                                      | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 11      | Kistna                   | 14                       | 12                                      | 948                      | 98                                      | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 12      | Karnool                  | 11                       | 11                                      | 990                      | 107                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 13      | Madras                   | 11                       | 4                                       | 798                      | 5                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 14      | Madura                   | 14                       | 1                                       | 1,085                    | 1                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 15      | Malabar                  | 16                       | 1                                       | 1,749                    | 2                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 16      | Nellore                  | 14                       | 12                                      | 1,680                    | 95                                      | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 17      | Nilgiris, The            | 5                        | ...                                     | 57                       | ...                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 18      | North Arcot              | 17                       | 17                                      | 2,020                    | 204                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 19      | Rannad                   | 13                       | 8                                       | 3,596                    | 7                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 20      | Salem                    | 13                       | 7                                       | 1,791                    | 56                                      | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 21      | South Arcot              | 11                       | 11                                      | 2,331                    | 701                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 22      | South Kanara             | 8                        | 2                                       | 808                      | 3                                       | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 23      | Tanjore                  | 17                       | 16                                      | 2,533                    | 392                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 24      | Tinnevely                | 12                       | 5                                       | 999                      | 10                                      | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 25      | Trichinopoly             | 10                       | 10                                      | 1,072                    | 280                                     | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
| 26      | Visagapatnam             | 18                       | 11                                      | 2,558                    | 74                                      | ...      | ...       | ...    | ...    | ...  | ...   | ...   |
|         | Total, Madras Presidency | 316                      | 193                                     | 39,887                   | 2,998                                   | 601      | 413       | 457    | 312    | 314  | 729   | 1,656 |

No. VII.—Deaths registered from Cholera in the Districts of the Madras Presidency during each month of the year 1934—cont.

| Number. | Districts.               | August. | September. | October. | November. | December. | Total. |          |        | Ratio of deaths per 1,000 of population. |          |        | Mean ratio per 1,000 for previous 5 years. |
|---------|--------------------------|---------|------------|----------|-----------|-----------|--------|----------|--------|------------------------------------------|----------|--------|--------------------------------------------|
|         |                          | (14)    | (15)       | (16)     | (17)      | (18)      | Males. | Females. | Total. | Males.                                   | Females. | Total. |                                            |
| (1)     | (2)                      | (14)    | (15)       | (16)     | (17)      | (18)      | (19)   | (20)     | (21)   | (22)                                     | (23)     | (24)   | (25)                                       |
| 1       | Anantapur                | ...     | 9          | ...      | ...       | 1         | 2      | 9        | 11     | 0.004                                    | 0.02     | 0.01   | 0.32                                       |
| 2       | Bellary                  | ...     | 2          | ...      | ...       | ...       | 2      | 1        | 3      | 0.004                                    | 0.002    | 0.003  | 0.37                                       |
| 3       | Chingleput               | 231     | 60         | 78       | 132       | 107       | 422    | 407      | 829    | 0.51                                     | 0.50     | 0.50   | 0.25                                       |
| 4       | Chittoor                 | 51      | 66         | 24       | 41        | 22        | 151    | 155      | 306    | 0.20                                     | 0.22     | 0.21   | 0.26                                       |
| 5       | Coimbatore               | ...     | ...        | 2        | 1         | 5         | 8      | 7        | 15     | 0.006                                    | 0.006    | 0.006  | 0.43                                       |
| 6       | Cuddapah                 | ...     | ...        | ...      | ...       | ...       | ...    | ...      | ...    | ...                                      | ...      | ...    | 0.34                                       |
| 7       | Ganjam                   | 1,800   | 333        | 73       | 60        | 99        | 1,866  | 2,105    | 3,971  | 2.00                                     | 1.89     | 1.93   | 0.21                                       |
| 8       | Godavari, East           | ...     | 80         | 27       | 9         | ...       | 84     | 74       | 158    | 0.10                                     | 0.09     | 0.09   | 0.11                                       |
| 9       | Godavari, West           | ...     | ...        | ...      | ...       | ...       | ...    | ...      | ...    | ...                                      | ...      | ...    | 0.18                                       |
| 10      | Guntur                   | ...     | 64         | 17       | ...       | ...       | 153    | 157      | 310    | 0.25                                     | 0.25     | 0.25   | 0.18                                       |
| 11      | Kistna                   | ...     | ...        | ...      | ...       | ...       | 313    | 282      | 595    | 0.30                                     | 0.26     | 0.28   | 0.09                                       |
| 12      | Karnool                  | ...     | 3          | ...      | ...       | ...       | 198    | 173      | 371    | 0.31                                     | 0.28     | 0.30   | 0.18                                       |
| 13      | Madras                   | ...     | 28         | 5        | ...       | ...       | 3      | 9        | 12     | 0.005                                    | 0.02     | 0.01   | 0.58                                       |
| 14      | Madura                   | ...     | 50         | 2        | ...       | ...       | 80     | 86       | 166    | 0.24                                     | 0.29     | 0.26   | 0.09                                       |
| 15      | Malabar                  | ...     | ...        | ...      | ...       | ...       | 3      | 3        | 6      | 0.003                                    | 0.002    | 0.002  | 0.96                                       |
| 16      | Nellore                  | ...     | ...        | ...      | ...       | ...       | 1      | 1        | 2      | 0.0006                                   | 0.002    | 0.001  | 0.55                                       |
| 17      | Nilgiris, The            | ...     | ...        | ...      | ...       | ...       | 263    | 204      | 467    | 0.36                                     | 0.28     | 0.32   | 0.16                                       |
| 18      | North Arcot              | ...     | 35         | 122      | 68        | 95        | ...    | ...      | ...    | ...                                      | ...      | ...    | 0.01                                       |
| 19      | Rannad                   | ...     | ...        | ...      | ...       | ...       | 537    | 467      | 1,004  | 0.47                                     | 0.41     | 0.44   | 0.26                                       |
| 20      | Salem                    | ...     | ...        | ...      | ...       | ...       | 14     | 6        | 20     | 0.016                                    | 0.005    | 0.011  | 0.91                                       |
| 21      | South Arcot              | ...     | ...        | ...      | ...       | ...       | 110    | 130      | 240    | 0.08                                     | 0.11     | 0.10   | 0.27                                       |
| 22      | South Kanara             | ...     | ...        | ...      | ...       | ...       | 2,921  | 2,631    | 5,552  | 2.39                                     | 2.14     | 2.26   | 0.80                                       |
| 23      | Tanjore                  | ...     | ...        | ...      | ...       | ...       | 792    | 722      | 1,514  | 0.015                                    | 0.015    | 0.015  | 0.07                                       |
| 24      | Tinnevely                | ...     | ...        | ...      | ...       | ...       | 1,065  | 961      | 2,026  | 0.69                                     | 0.68     | 0.68   | 0.70                                       |
| 25      | Trichinopoly             | ...     | ...        | ...      | ...       | ...       | 286    | 295      | 581    | 1.14                                     | 0.98     | 1.06   | 0.49                                       |
| 26      | Visagapatnam             | ...     | ...        | ...      | ...       | ...       | ...    | ...      | ...    | ...                                      | ...      | ...    | 0.08                                       |
|         | Total, Madras Presidency | 2,596   | 1,646      | 722      | 1,859     | 5,864     | 9,286  | 8,872    | 18,158 | 0.42                                     | 0.39     | 0.40   | 0.39                                       |

No. VIII.—Deaths registered from Smallpox in the Districts of the Madras Presidency during each month of the year 1934.

| Number. | Districts.               | Circles of registration. |                                         | Villages.           |                                         | January. | February. | March. | April. | May.  | June. | July. | August. |
|---------|--------------------------|--------------------------|-----------------------------------------|---------------------|-----------------------------------------|----------|-----------|--------|--------|-------|-------|-------|---------|
|         |                          | Number in each district. | Number from which deaths were reported. | Number in district. | Number from which deaths were reported. | (7)      | (8)       | (9)    | (10)   | (11)  | (12)  | (13)  | (14)    |
| (1)     | (2)                      | (3)                      | (4)                                     | (5)                 | (6)                                     | (7)      | (8)       | (9)    | (10)   | (11)  | (12)  | (13)  | (14)    |
| 1       | Anantapur                | 12                       | 12                                      | 835                 | 259                                     | 59       | 83        | 184    | 116    | 174   | 156   | 119   | 61      |
| 2       | Bellary                  | 12                       | 12                                      | 918                 | 215                                     | 95       | 106       | 228    | 169    | 138   | 73    | 80    | 41      |
| 3       | Chingleput               | 12                       | 12                                      | 2,155               | 274                                     | 115      | 118       | 218    | 107    | 94    | 55    | 47    | 20      |
| 4       | Chittoor                 | 12                       | 12                                      | 2,361               | 159                                     | 22       | 21        | 21     | 24     | 21    | 60    | 56    | 40      |
| 5       | Coimbatore               | 16                       | 15                                      | 1,116               | 103                                     | 36       | 63        | 149    | 93     | 64    | 42    | 48    | 5       |
| 6       | Cuddapah                 | 11                       | 10                                      | 897                 | 354                                     | 23       | 49        | 68     | 71     | 120   | 154   | 117   | 87      |
| 7       | Gadagur                  | 14                       | 12                                      | 4,054               | 109                                     | 14       | 9         | 16     | 31     | 42    | 17    | 22    | 42      |
| 8       | Godavari, East           | 11                       | 11                                      | 817                 | 73                                      | 3        | 11        | 16     | 39     | 41    | 23    | 55    | 30      |
| 9       | Godavari, West           | 5                        | 5                                       | 1,114               | 5                                       | ...      | 6         | 1      | ...    | ...   | ...   | ...   | 5       |
| 10      | Guntur                   | 9                        | 9                                       | 725                 | 109                                     | 63       | 124       | 122    | 76     | 63    | 26    | 18    | 97      |
| 11      | Kistna                   | 14                       | 14                                      | 948                 | 304                                     | 95       | 192       | 259    | 201    | 180   | 113   | 127   | 97      |
| 12      | Kurnool                  | 11                       | 11                                      | 990                 | 162                                     | 22       | 39        | 75     | 127    | 110   | 49    | 54    | 38      |
| 13      | Madras                   | 11                       | 11                                      | 798                 | 390                                     | 71       | 301       | 350    | 481    | 483   | 305   | 234   | 79      |
| 14      | Malabar                  | 1                        | 1                                       | 1                   | 1                                       | 28       | 16        | 20     | 17     | 15    | 5     | 5     | 6       |
| 15      | Nellore                  | 14                       | 13                                      | 1,085               | 84                                      | 18       | 10        | 25     | 23     | 11    | 17    | 22    | 8       |
| 16      | Nilgiris, The            | 14                       | 13                                      | 1,748               | 149                                     | 32       | 34        | 103    | 71     | 69    | 48    | 40    | 38      |
| 17      | North Arcot              | 14                       | 14                                      | 1,630               | 194                                     | 64       | 94        | 148    | 95     | 72    | 41    | 40    | 34      |
| 18      | Ramnad                   | 5                        | 5                                       | 57                  | 8                                       | 1        | ...       | 1      | 9      | ...   | ...   | 2     | 2       |
| 19      | South Arcot              | 17                       | 17                                      | 2,030               | 312                                     | 54       | 70        | 60     | 75     | 96    | 83    | 88    | 65      |
| 20      | Salem                    | 13                       | 10                                      | 3,595               | 185                                     | 32       | 18        | 40     | 30     | 8     | 16    | 28    | 35      |
| 21      | South Kanara             | 12                       | 10                                      | 1,791               | 223                                     | 66       | 48        | 99     | 116    | 74    | 63    | 53    | 58      |
| 22      | Tanjore                  | 11                       | 11                                      | 2,331               | 389                                     | 106      | 97        | 170    | 122    | 88    | 76    | 106   | 109     |
| 23      | Tinnevely                | 8                        | 7                                       | 808                 | 320                                     | 112      | 75        | 50     | 83     | 91    | 44    | 25    | 18      |
| 24      | Trichinopoly             | 17                       | 17                                      | 2,533               | 320                                     | 134      | 9         | 140    | 109    | 112   | 73    | 99    | 85      |
| 25      | Visagapatnam             | 12                       | 11                                      | 989                 | 180                                     | 30       | 34        | 56     | 47     | 29    | 39    | 53    | 55      |
| 26      | Total, Madras Presidency | 18                       | 15                                      | 2,558               | 82                                      | 7        | 9         | 20     | 21     | 27    | 21    | 7     | 23      |
|         |                          | 316                      | 298                                     | 39,887              | 4,757                                   | 1,196    | 1,556     | 2,641  | 2,359  | 2,211 | 1,620 | 1,550 | 1,103   |

No. VIII.—Deaths registered from Smallpox in the Districts of the Madras Presidency during each month of the year 1934—cont.

| Number. | Districts.               | September. | October. | November. | December. | Total. |          |        | Number of deaths among children. |                     | Ratio of deaths per 1,000 of population. |          |        | Mean ratio per 1,000 of population 5 years. |
|---------|--------------------------|------------|----------|-----------|-----------|--------|----------|--------|----------------------------------|---------------------|------------------------------------------|----------|--------|---------------------------------------------|
|         |                          |            |          |           |           | Males. | Females. | Total. | Under 1 year.                    | From 1 to 10 years. | Males.                                   | Females. | Total. |                                             |
| (1)     | (2)                      | (15)       | (16)     | (17)      | (18)      | (19)   | (20)     | (21)   | (22)                             | (23)                | (24)                                     | (25)     | (26)   | (27)                                        |
| 1       | Anantapur                | 17         | 23       | 50        | 45        | 523    | 543      | 1,066  | 478                              | 246                 | 0.97                                     | 1.07     | 1.02   | 0.09                                        |
| 2       | Bellary                  | 19         | 6        | 12        | 49        | 512    | 494      | 1,006  | 875                              | 408                 | 1.04                                     | 1.04     | 1.04   | 0.11                                        |
| 3       | Chingleput               | 24         | 40       | 37        | 48        | 476    | 445      | 921    | 262                              | 271                 | 0.57                                     | 0.56     | 0.56   | 0.34                                        |
| 4       | Chittoor                 | 49         | 40       | 44        | 43        | 230    | 218      | 448    | 151                              | 143                 | 0.81                                     | 0.81     | 0.81   | 0.13                                        |
| 5       | Coimbatore               | 19         | 12       | 26        | 37        | 279    | 323      | 602    | 142                              | 314                 | 0.23                                     | 0.26     | 0.25   | 0.13                                        |
| 6       | Cuddapah                 | 92         | 79       | 118       | 186       | 544    | 560      | 1,104  | 835                              | 387                 | 1.12                                     | 1.20     | 1.16   | 0.05                                        |
| 7       | Ganjam                   | 23         | 7        | 8         | 11        | 188    | 112      | 300    | 85                               | 78                  | 0.15                                     | 0.10     | 0.12   | 0.07                                        |
| 8       | Godavari, East           | 15         | 5        | 6         | 32        | 137    | 42       | 179    | 70                               | 94                  | 0.17                                     | 0.17     | 0.17   | 0.06                                        |
| 9       | Godavari, West           | ...        | ...      | ...       | 3         | 6      | 4        | 10     | 8                                | 2                   | 0.05                                     | 0.03     | 0.08   | 0.07                                        |
| 10      | Guntur                   | 1          | 1        | 6         | 10        | 272    | 237      | 509    | 185                              | 178                 | 0.44                                     | 0.39     | 0.42   | 0.07                                        |
| 11      | Kistna                   | 18         | 12       | 34        | 59        | 713    | 665      | 1,378  | 408                              | 400                 | 0.69                                     | 0.66     | 0.68   | 0.04                                        |
| 12      | Kurnool                  | 11         | 6        | 25        | 20        | 277    | 289      | 566    | 243                              | 116                 | 0.44                                     | 0.47     | 0.45   | 0.10                                        |
| 13      | Madras                   | 66         | 48       | 28        | 18        | 1,129  | 1,215    | 2,344  | 635                              | 884                 | 2.17                                     | 2.41     | 2.29   | 0.15                                        |
| 14      | Malabar                  | 5          | 2        | 3         | 7         | 71     | 58       | 129    | 37                               | 28                  | 0.21                                     | 0.19     | 0.20   | 0.60                                        |
| 15      | Nellore                  | 12         | 28       | 48        | 49        | 126    | 143      | 269    | 97                               | 71                  | 0.12                                     | 0.13     | 0.12   | 0.14                                        |
| 16      | Nilgiris, The            | 13         | 16       | 10        | 25        | 248    | 235      | 483    | 61                               | 134                 | 0.14                                     | 0.13     | 0.14   | 0.21                                        |
| 17      | North Arcot              | 20         | 26       | 24        | 22        | 344    | 382      | 676    | 232                              | 1.9                 | 0.46                                     | 0.45     | 0.43   | 0.15                                        |
| 18      | Ramnad                   | ...        | ...      | 6         | 2         | 18     | 10       | 23     | 7                                | 3                   | 0.15                                     | 0.13     | 0.14   | 0.08                                        |
| 19      | Salem                    | 71         | 59       | 70        | 116       | 481    | 436      | 917    | 276                              | 257                 | 0.45                                     | 0.38     | 0.40   | 0.20                                        |
| 20      | South Arcot              | 27         | 39       | 42        | 69        | 179    | 179      | 358    | 67                               | 130                 | 0.21                                     | 0.21     | 0.21   | 0.14                                        |
| 21      | South Kanara             | 43         | 65       | 70        | 105       | 455    | 404      | 859    | 242                              | 286                 | 0.38                                     | 0.33     | 0.35   | 0.11                                        |
| 22      | Tanjore                  | 108        | 93       | 71        | 107       | 613    | 640      | 1,253  | 534                              | 408                 | 0.50                                     | 0.52     | 0.51   | 0.44                                        |
| 23      | Tinnevely                | 8          | 9        | 6         | 17        | 527    | 584      | 1,111  | 244                              | 252                 | 0.32                                     | 0.27     | 0.27   | 0.12                                        |
| 24      | Trichinopoly             | 41         | 73       | 82        | 94        | 278    | 355      | 633    | 195                              | 187                 | 0.46                                     | 0.47     | 0.47   | 0.15                                        |
| 25      | Visagapatnam             | 31         | 21       | 14        | 24        | 138    | 141      | 279    | 61                               | 61                  | 0.28                                     | 0.34     | 0.31   | 0.10                                        |
| 26      | Total, Madras Presidency | 17         | 6        | 17        | 58        | 1.2    | 121      | 2.3    | 64                               | 96                  | 0.09                                     | 0.10     | 0.10   | 0.16                                        |
|         |                          | 800        | 895      | 922       | 1,265     | 9,023  | 9,065    | 18,088 | 5,593                            | 5,616               | 0.40                                     | 0.40     | 0.40   | 0.17                                        |

Statement No. IX.—Deaths registered from Fevers in the Districts of the Madras Presidency during each month of the year 1934.

| Number. | Districts.                  | Circles of registration. |                                         |                          | Villages.                               |        | January. | February. | March. | April. | May.   | June.  | July.  |
|---------|-----------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|--------|----------|-----------|--------|--------|--------|--------|--------|
|         |                             | Number in each district. | Number from which deaths were reported. | Number in each district. | Number from which deaths were reported. |        |          |           |        |        |        |        |        |
| (1)     | (2)                         | (3)                      | (4)                                     | (5)                      | (6)                                     | (7)    | (8)      | (9)       | (10)   | (11)   | (12)   | (13)   | (14)   |
| 1       | Anantapur ..                | 12                       | 12                                      | 865                      | 739                                     | 721    | 984      | 2,701     | 1,552  | 1,058  | 648    | 597    | 597    |
| 2       | Bellary ..                  | 12                       | 12                                      | 918                      | 824                                     | 947    | 856      | 1,357     | 1,004  | 808    | 589    | 643    | 643    |
| 3       | Chingleput ..               | 10                       | 10                                      | 2,155                    | 1,084                                   | 886    | 468      | 451       | 423    | 390    | 333    | 430    | 430    |
| 4       | Chittoor ..                 | 12                       | 12                                      | 2,261                    | 1,500                                   | 707    | 611      | 660       | 633    | 602    | 583    | 570    | 570    |
| 5       | Coimbatore ..               | 16                       | 16                                      | 1,116                    | 865                                     | 1,123  | 958      | 1,223     | 1,025  | 894    | 899    | 1,080  | 1,080  |
| 6       | Cuddapah ..                 | 11                       | 10                                      | 897                      | 801                                     | 618    | 574      | 1,033     | 839    | 819    | 682    | 847    | 847    |
| 7       | Ganjam ..                   | 14                       | 14                                      | 4,054                    | 2,780                                   | 2,477  | 2,243    | 2,762     | 3,155  | 2,827  | 2,244  | 2,440  | 2,440  |
| 8       | Godavari, East [Plains      | 11                       | 11                                      | 817                      | 763                                     | 1,351  | 1,038    | 1,011     | 977    | 1,189  | 1,063  | 1,334  | 1,334  |
| 9       | Godavari, East [Agency      | 5                        | 5                                       | 1,114                    | 853                                     | 382    | 381      | 355       | 385    | 319    | 284    | 814    | 814    |
| 10      | Godavari, West ..           | 9                        | 9                                       | 726                      | 648                                     | 667    | 612      | 607       | 527    | 632    | 601    | 746    | 746    |
| 11      | Guntur ..                   | 14                       | 14                                      | 946                      | 904                                     | 1,312  | 936      | 1,085     | 1,148  | 1,447  | 1,329  | 1,533  | 1,533  |
| 12      | Kistna ..                   | 11                       | 11                                      | 990                      | 892                                     | 784    | 634      | 622       | 705    | 778    | 725    | 832    | 832    |
| 13      | Kurnool ..                  | 11                       | 11                                      | 798                      | 712                                     | 1,000  | 805      | 1,303     | 1,228  | 1,000  | 933    | 978    | 978    |
| 14      | Madras ..                   | 1                        | 1                                       | 1                        | 1                                       | 192    | 207      | 163       | 141    | 167    | 171    | 194    | 194    |
| 15      | Malabar ..                  | 14                       | 14                                      | 1,085                    | 747                                     | 740    | 708      | 988       | 889    | 849    | 757    | 765    | 765    |
| 16      | Nellore ..                  | 14                       | 14                                      | 1,680                    | 1,177                                   | 783    | 687      | 2,128     | 2,282  | 2,366  | 2,435  | 2,433  | 2,433  |
| 17      | Nilgiris, The ..            | 5                        | 5                                       | 57                       | 56                                      | 87     | 81       | 98        | 580    | 740    | 597    | 740    | 740    |
| 18      | North Arcot ..              | 17                       | 17                                      | 2,020                    | 1,468                                   | 1,150  | 942      | 1,025     | 769    | 853    | 158    | 120    | 120    |
| 19      | Ramanad ..                  | 13                       | 13                                      | 3,596                    | 2,470                                   | 1,139  | 972      | 1,048     | 1,073  | 1,032  | 986    | 1,067  | 1,067  |
| 20      | Salem ..                    | 12                       | 12                                      | 1,791                    | 1,553                                   | 1,548  | 1,457    | 1,634     | 1,477  | 1,396  | 1,334  | 1,362  | 1,362  |
| 21      | South Arcot ..              | 11                       | 11                                      | 2,331                    | 1,306                                   | 893    | 858      | 805       | 723    | 800    | 710    | 888    | 888    |
| 22      | South Kanara ..             | 8                        | 7                                       | 808                      | 747                                     | 935    | 781      | 732       | 601    | 587    | 611    | 801    | 801    |
| 23      | Tanjore ..                  | 17                       | 17                                      | 2,533                    | 1,175                                   | 577    | 495      | 508       | 436    | 304    | 435    | 499    | 499    |
| 24      | Tinnevely ..                | 12                       | 12                                      | 899                      | 706                                     | 735    | 637      | 683       | 632    | 687    | 655    | 645    | 645    |
| 25      | Trichinopoly ..             | 10                       | 10                                      | 1,072                    | 889                                     | 952    | 749      | 885       | 843    | 834    | 704    | 770    | 770    |
| 26      | Vizagapatam ..              | 18                       | 16                                      | 2,558                    | 2,290                                   | 2,976  | 2,749    | 2,812     | 2,949  | 3,287  | 2,392  | 8,362  | 8,362  |
|         | Total, Madras Presidency .. | 316                      | 310                                     | 39,357                   | 26,907                                  | 27,208 | 24,117   | 29,208    | 27,094 | 26,703 | 23,757 | 26,880 | 26,880 |

Statement No. IX.—Deaths registered from Fevers in the Districts of the Madras Presidency during each month of the year 1934—cont.

| Number. | Districts.                  | August. | September. | October. | November. | December. | Total.  |          |         | Ratio of deaths per 1,000 of population. |          |        | Mean ratio per 1,000 for previous 5 years. |
|---------|-----------------------------|---------|------------|----------|-----------|-----------|---------|----------|---------|------------------------------------------|----------|--------|--------------------------------------------|
|         |                             |         |            |          |           |           | Males.  | Females. | Total.  | Males.                                   | Females. | Total. |                                            |
| (1)     | (2)                         | (14)    | (15)       | (16)     | (17)      | (18)      | (19)    | (20)     | (21)    | (22)                                     | (23)     | (24)   | (25)                                       |
| 1       | Anantapur ..                | 553     | 518        | 480      | 536       | 551       | 5,475   | 5,404    | 10,879  | 10.15                                    | 10.58    | 10.36  | 7.87                                       |
| 2       | Bellary ..                  | 753     | 857        | 723      | 772       | 901       | 5,273   | 4,887    | 10,210  | 10.70                                    | 10.36    | 10.53  | 6.27                                       |
| 3       | Chingleput ..               | 385     | 460        | 395      | 463       | 458       | 2,674   | 2,568    | 5,242   | 3.20                                     | 3.15     | 3.17   | 3.94                                       |
| 4       | Chittoor ..                 | 645     | 546        | 632      | 628       | 745       | 3,837   | 3,755    | 7,592   | 5.20                                     | 5.30     | 5.25   | 7.18                                       |
| 5       | Coimbatore ..               | 1,010   | 761        | 635      | 984       | 1,144     | 5,980   | 5,786    | 11,766  | 4.89                                     | 4.70     | 4.78   | 4.31                                       |
| 6       | Cuddapah ..                 | 969     | 873        | 829      | 843       | 872       | 5,001   | 4,801    | 9,802   | 10.33                                    | 10.31    | 10.32  | 11.93                                      |
| 7       | Ganjam ..                   | 3,581   | 3,700      | 2,850    | 2,739     | 3,972     | 16,720  | 16,930   | 33,650  | 17.77                                    | 15.22    | 16.39  | 15.58                                      |
| 8       | Godavari, East [Plains      | 1,513   | 1,586      | 1,508    | 1,203     | 1,414     | 7,546   | 7,646    | 15,192  | 9.11                                     | 8.98     | 9.05   | 10.99                                      |
| 9       | Godavari, East [Agency      | 342     | 352        | 387      | 379       | 385       | 2,194   | 2,031    | 4,225   | 18.16                                    | 16.96    | 17.57  | 10.99                                      |
| 10      | Godavari, West ..           | 900     | 827        | 694      | 774       | 786       | 4,169   | 4,084    | 8,253   | 6.95                                     | 6.54     | 6.76   | 8.70                                       |
| 11      | Guntur ..                   | 1,805   | 1,777      | 1,513    | 1,413     | 1,303     | 8,527   | 8,074    | 16,601  | 8.29                                     | 8.02     | 8.16   | 9.70                                       |
| 12      | Kistna ..                   | 1,106   | 1,062      | 745      | 663       | 798       | 4,676   | 4,776    | 9,454   | 7.35                                     | 7.72     | 7.54   | 7.88                                       |
| 13      | Kurnool ..                  | 1,082   | 1,038      | 1,142    | 1,233     | 1,165     | 6,386   | 6,435    | 12,821  | 12.28                                    | 12.75    | 12.51  | 13.22                                      |
| 14      | Madras ..                   | 195     | 209        | 213      | 215       | 198       | 1,175   | 1,090    | 2,265   | 3.52                                     | 3.64     | 3.58   | 3.85                                       |
| 15      | Malabar ..                  | 619     | 611        | 571      | 763       | 952       | 4,791   | 4,363    | 9,154   | 4.43                                     | 3.92     | 4.17   | 2.87                                       |
| 16      | Nellore ..                  | 2,071   | 1,546      | 1,307    | 1,233     | 1,336     | 11,490  | 11,429   | 22,919  | 6.63                                     | 6.29     | 6.48   | 7.06                                       |
| 17      | Nilgiris, The ..            | 325     | 761        | 657      | 716       | 741       | 4,482   | 3,865    | 8,343   | 6.02                                     | 5.35     | 5.69   | 8.41                                       |
| 18      | North Arcot ..              | 888     | 844        | 803      | 948       | 1,170     | 5,654   | 5,605    | 11,259  | 5.00                                     | 4.94     | 4.97   | 5.09                                       |
| 19      | Ramanad ..                  | 1,085   | 1,071      | 1,050    | 1,345     | 1,732     | 6,863   | 6,727    | 13,590  | 7.87                                     | 6.86     | 7.39   | 7.50                                       |
| 20      | Salem ..                    | 1,179   | 1,121      | 955      | 1,228     | 1,604     | 8,264   | 7,962    | 16,226  | 6.82                                     | 6.52     | 6.67   | 7.27                                       |
| 21      | South Arcot ..              | 896     | 874        | 723      | 966       | 1,031     | 5,117   | 5,049    | 10,166  | 4.18                                     | 4.11     | 4.14   | 4.73                                       |
| 22      | South Kanara ..             | 749     | 609        | 613      | 531       | 698       | 3,996   | 4,172    | 8,168   | 6.02                                     | 5.89     | 5.95   | 7.39                                       |
| 23      | Tanjore ..                  | 446     | 484        | 613      | 618       | 2,935     | 3,194   | 3,194    | 6,388   | 2.57                                     | 2.57     | 2.57   | 2.26                                       |
| 24      | Tinnevely ..                | 634     | 494        | 637      | 919       | 1,287     | 4,486   | 4,170    | 8,656   | 4.53                                     | 3.94     | 4.22   | 4.55                                       |
| 25      | Trichinopoly ..             | 691     | 592        | 621      | 859       | 1,078     | 4,745   | 4,826    | 9,571   | 5.08                                     | 4.94     | 5.01   | 4.55                                       |
| 26      | Vizagapatam ..              | 5,054   | 4,971      | 4,009    | 8,744     | 3,400     | 21,092  | 20,532   | 41,624  | 17.65                                    | 16.41    | 17.05  | 15.69                                      |
|         | Total, Madras Presidency .. | 30,014  | 28,636     | 25,438   | 26,660    | 29,385    | 164,177 | 160,873  | 325,050 | 7.88                                     | 7.03     | 7.19   | 7.86                                       |

No. X.—Deaths registered from Dysentery and Diarrhoea in the Districts of the Madras Presidency during each month of the year 1934.

| Number. | Districts.               | Circles of registration. |                                         | Villages.               |                                         | January. | February. | March. | April. | May.  | June. | July. |
|---------|--------------------------|--------------------------|-----------------------------------------|-------------------------|-----------------------------------------|----------|-----------|--------|--------|-------|-------|-------|
|         |                          | Number in each district. | Number from which deaths were reported. | Number in each village. | Number from which deaths were reported. |          |           |        |        |       |       |       |
| (1)     | (2)                      | (3)                      | (4)                                     | (5)                     | (6)                                     | (7)      | (8)       | (9)    | (10)   | (11)  | (12)  | (13)  |
| 1       | Anantapur                | 12                       | 12                                      | 865                     | 471                                     | 122      | 103       | 107    | 69     | 115   | 146   | 147   |
| 2       | Bellary                  | 12                       | 12                                      | 918                     | 435                                     | 258      | 204       | 245    | 161    | 164   | 145   | 228   |
| 3       | Chingleput               | 10                       | 10                                      | 2,155                   | 853                                     | 319      | 281       | 245    | 182    | 217   | 219   | 308   |
| 4       | Chittoor                 | 12                       | 12                                      | 2,261                   | 908                                     | 298      | 255       | 210    | 222    | 203   | 190   | 270   |
| 5       | Coimbatore               | 16                       | 16                                      | 1,112                   | 896                                     | 585      | 509       | 432    | 513    | 594   | 700   | 560   |
| 6       | Cuddapah                 | 11                       | 10                                      | 897                     | 351                                     | 91       | 54        | 65     | 58     | 72    | 89    | 89    |
| 7       | Ganjam                   | 14                       | 14                                      | 4,054                   | 2,896                                   | 392      | 270       | 266    | 563    | 453   | 305   | 390   |
| 8       | Godavari, East           | 11                       | 11                                      | 817                     | 441                                     | 161      | 100       | 121    | 112    | 165   | 145   | 221   |
| 9       | Godavari, West           | 5                        | 5                                       | 1,114                   | 140                                     | 17       | 17        | 26     | 12     | 27    | 16    | 31    |
| 10      | Guntur                   | 9                        | 9                                       | 726                     | 438                                     | 163      | 142       | 150    | 157    | 163   | 168   | 225   |
| 11      | Kistna                   | 14                       | 14                                      | 946                     | 693                                     | 233      | 181       | 204    | 232    | 234   | 209   | 355   |
| 12      | Kurnool                  | 11                       | 11                                      | 990                     | 551                                     | 116      | 150       | 119    | 118    | 182   | 116   | 212   |
| 13      | Madras                   | 11                       | 11                                      | 798                     | 378                                     | 109      | 87        | 124    | 102    | 106   | 127   | 155   |
| 14      | Madure                   | 1                        | 1                                       | 1                       | 1                                       | 144      | 175       | 169    | 138    | 180   | 169   | 177   |
| 15      | Malabar                  | 14                       | 14                                      | 1,065                   | 767                                     | 734      | 649       | 723    | 682    | 646   | 583   | 629   |
| 16      | Nellore                  | 16                       | 16                                      | 1,749                   | 721                                     | 924      | 756       | 682    | 820    | 977   | 1,010 | 950   |
| 17      | Nilgiris, The            | 14                       | 14                                      | 1,630                   | 813                                     | 344      | 261       | 270    | 224    | 280   | 219   | 357   |
| 18      | North Arcot              | 6                        | 6                                       | 57                      | 47                                      | 27       | 23        | 36     | 58     | 94    | 90    | 54    |
| 19      | Ramanad                  | 17                       | 17                                      | 2,020                   | 1,148                                   | 523      | 516       | 388    | 339    | 337   | 376   | 443   |
| 20      | Salem                    | 12                       | 12                                      | 3,598                   | 1,081                                   | 255      | 249       | 226    | 205    | 192   | 198   | 249   |
| 21      | South Arcot              | 12                       | 12                                      | 1,791                   | 893                                     | 337      | 267       | 275    | 203    | 289   | 284   | 264   |
| 22      | South Kanara             | 11                       | 11                                      | 2,331                   | 1,151                                   | 401      | 375       | 351    | 271    | 330   | 355   | 589   |
| 23      | Tanjore                  | 8                        | 7                                       | 808                     | 644                                     | 628      | 454       | 265    | 144    | 120   | 129   | 159   |
| 24      | Tinnevely                | 17                       | 17                                      | 2,538                   | 1,120                                   | 306      | 357       | 393    | 314    | 262   | 244   | 302   |
| 25      | Trichinopoly             | 12                       | 12                                      | 939                     | 634                                     | 496      | 365       | 389    | 307    | 318   | 297   | 373   |
| 26      | Vizagapatnam             | 10                       | 10                                      | 1,072                   | 710                                     | 467      | 355       | 367    | 336    | 408   | 355   | 459   |
|         |                          | 18                       | 16                                      | 2,558                   | 888                                     | 247      | 187       | 163    | 206    | 214   | 240   | 322   |
|         | Total, Madras Presidency | 316                      | 309                                     | 39,887                  | 19,817                                  | 8,712    | 7,341     | 7,091  | 6,649  | 7,873 | 7,117 | 8,517 |

No. X.—Deaths registered from Dysentery and Diarrhoea in the Districts of the Madras Presidency during each month of the year 1934—cont.

| Number. | Districts.               | August. | September. | October. | November. | December. | Total. |          |        | Ratio of deaths per 1,000 of population. |          |        | Mean ratio per 1,000 for previous 5 years. |
|---------|--------------------------|---------|------------|----------|-----------|-----------|--------|----------|--------|------------------------------------------|----------|--------|--------------------------------------------|
|         |                          | (14)    | (15)       | (16)     | (17)      | (18)      | Males. | Females. | Total. | Males.                                   | Females. | Total. |                                            |
| (1)     | (2)                      | (3)     | (4)        | (5)      | (6)       | (7)       | (8)    | (9)      | (10)   | (11)                                     | (12)     | (13)   | (14)                                       |
| 1       | Anantapur                | 190     | 161        | 140      | 135       | 155       | 855    | 733      | 1,589  | 1,559                                    | 1,44     | 1,51   | 1,60                                       |
| 2       | Bellary                  | 218     | 217        | 250      | 221       | 248       | 1,359  | 1,306    | 2,665  | 2,76                                     | 2,74     | 2,75   | 2,36                                       |
| 3       | Chingleput               | 286     | 263        | 221      | 202       | 284       | 1,437  | 1,437    | 2,874  | 1,88                                     | 1,76     | 1,82   | 1,94                                       |
| 4       | Chittoor                 | 298     | 294        | 289      | 311       | 339       | 1,682  | 1,437    | 3,119  | 2,28                                     | 2,11     | 2,20   | 2,54                                       |
| 5       | Coimbatore               | 370     | 548        | 535      | 796       | 919       | 3,422  | 8,687    | 7,109  | 2,81                                     | 3,01     | 2,91   | 3,47                                       |
| 6       | Cuddapah                 | 128     | 113        | 112      | 112       | 94        | 543    | 557      | 1,079  | 1,12                                     | 1,15     | 1,14   | 0,92                                       |
| 7       | Ganjam                   | 765     | 695        | 465      | 391       | 362       | 2,854  | 2,549    | 5,407  | 3,04                                     | 2,39     | 2,63   | 1,70                                       |
| 8       | Godavari, East           | 344     | 284        | 232      | 211       | 185       | 1,165  | 1,116    | 2,281  | 1,41                                     | 1,31     | 1,34   | 0,73                                       |
| 9       | Godavari, West           | 39      | 49         | 25       | 23        | 26        | 163    | 140      | 303    | 1,35                                     | 1,17     | 1,26   | 1,46                                       |
| 10      | Guntur                   | 292     | 243        | 141      | 162       | 147       | 1,104  | 1,052    | 2,156  | 1,83                                     | 1,69     | 1,76   | 1,29                                       |
| 11      | Kistna                   | 697     | 486        | 257      | 249       | 216       | 1,902  | 1,631    | 3,533  | 1,65                                     | 1,62     | 1,74   | 1,39                                       |
| 12      | Kurnool                  | 402     | 301        | 174      | 122       | 165       | 1,15   | 1,021    | 2,180  | 1,82                                     | 1,65     | 1,74   | 1,37                                       |
| 13      | Madras                   | 227     | 236        | 182      | 137       | 193       | 891    | 864      | 1,755  | 1,71                                     | 1,71     | 1,71   | 1,87                                       |
| 14      | Madure                   | 190     | 140        | 153      | 143       | 196       | 1,071  | 913      | 1,984  | 3,21                                     | 3,06     | 3,13   | 4,87                                       |
| 15      | Malabar                  | 548     | 506        | 479      | 800       | 1,184     | 4,173  | 3,900    | 8,073  | 3,86                                     | 3,50     | 3,68   | 2,60                                       |
| 16      | Nellore                  | 924     | 538        | 398      | 363       | 363       | 1,842  | 1,620    | 3,462  | 2,57                                     | 2,38     | 2,47   | 2,41                                       |
| 17      | Nilgiris, The            | 376     | 302        | 256      | 284       | 289       | 1,292  | 1,283    | 2,575  | 3,25                                     | 3,77     | 3,50   | 3,85                                       |
| 18      | North Arcot              | 53      | 27         | 30       | 40        | 44        | 2,702  | 2,696    | 5,398  | 2,39                                     | 2,29     | 2,34   | 2,29                                       |
| 19      | Ramanad                  | 443     | 412        | 374      | 433       | 714       | 1,759  | 1,636    | 3,395  | 2,02                                     | 1,73     | 1,87   | 1,66                                       |
| 20      | Salem                    | 267     | 233        | 228      | 391       | 709       | 1,759  | 1,723    | 3,482  | 1,39                                     | 1,41     | 1,40   | 1,90                                       |
| 21      | South Arcot              | 269     | 264        | 210      | 314       | 443       | 1,636  | 1,723    | 3,359  | 2,28                                     | 2,15     | 2,21   | 1,68                                       |
| 22      | South Kanara             | 646     | 510        | 378      | 572       | 688       | 2,738  | 2,645    | 5,383  | 1,93                                     | 1,83     | 1,90   | 1,24                                       |
| 23      | Tanjore                  | 196     | 173        | 116      | 116       | 118       | 2,369  | 2,272    | 4,641  | 2,38                                     | 2,37     | 2,37   | 2,22                                       |
| 24      | Tinnevely                | 397     | 417        | 445      | 542       | 999       | 2,347  | 2,537    | 4,884  | 2,84                                     | 2,64     | 2,69   | 2,05                                       |
| 25      | Trichinopoly             | 298     | 357        | 264      | 542       | 796       | 2,455  | 2,452    | 4,907  | 1,73                                     | 1,49     | 1,61   | 1,01                                       |
| 26      | Vizagapatnam             | 362     | 350        | 370      | 325       | 369       | 2,059  | 1,863    | 3,922  | 2,84                                     | 2,08     | 2,46   | 1,90                                       |
|         | Total, Madras Presidency | 9,933   | 8,699      | 7,163    | 8,324     | 10,865    | 50,155 | 47,639   | 97,794 | 2,25                                     | 2,08     | 2,17   |                                            |

No. XI.—Deaths registered from Respiratory Diseases in the Districts of the Madras Presidency during each month of the year 1934.

| Number. | Districts.               | Circles of registration. |                                         |                          | Villages.                               |        | January. | February. | March. | April. | May.  | June. | July. |
|---------|--------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|--------|----------|-----------|--------|--------|-------|-------|-------|
|         |                          | Number in each district. | Number from which deaths were reported. | Number in each district. | Number from which deaths were reported. |        |          |           |        |        |       |       |       |
| 1       | Anantapur                | 12                       | 12                                      | 865                      | 568                                     | 245    | 264      | 400       | 252    | 210    | 268   | 247   |       |
| 2       | Bellary                  | 12                       | 12                                      | 918                      | 541                                     | 265    | 339      | 394       | 310    | 268    | 238   | 230   |       |
| 3       | Chingleput               | 10                       | 10                                      | 2,155                    | 737                                     | 359    | 263      | 265       | 257    | 247    | 198   | 265   |       |
| 4       | Chittoor                 | 12                       | 12                                      | 2,261                    | 1,048                                   | 381    | 326      | 292       | 286    | 315    | 273   | 313   |       |
| 5       | Coimbatore               | 16                       | 16                                      | 1,116                    | 818                                     | 677    | 609      | 679       | 582    | 539    | 590   | 414   |       |
| 6       | Cuddapah                 | 11                       | 10                                      | 897                      | 482                                     | 181    | 173      | 195       | 173    | 177    | 181   | 128   |       |
| 7       | Ganjām                   | 14                       | 14                                      | 4,054                    | 452                                     | 622    | 281      | 212       | 195    | 173    | 155   | 224   |       |
| 8       | Godāvari, East           | 11                       | 11                                      | 817                      | 615                                     | 402    | 401      | 381       | 404    | 426    | 405   | 403   |       |
| 9       | Godāvari, West           | 5                        | 5                                       | 1,114                    | 356                                     | 71     | 51       | 43        | 67     | 93     | 64    | 72    |       |
| 10      | Guntūr                   | 9                        | 9                                       | 728                      | 571                                     | 350    | 234      | 262       | 237    | 305    | 286   | 305   |       |
| 11      | Kistna                   | 14                       | 14                                      | 946                      | 696                                     | 427    | 319      | 331       | 354    | 416    | 435   | 474   |       |
| 12      | Kurnool                  | 11                       | 11                                      | 990                      | 756                                     | 340    | 322      | 314       | 305    | 349    | 369   | 349   |       |
| 13      | Madras                   | 11                       | 11                                      | 798                      | 500                                     | 238    | 185      | 228       | 177    | 175    | 174   | 239   |       |
| 14      | Madura                   | 1                        | 1                                       | 1                        | 1                                       | 637    | 591      | 561       | 510    | 605    | 538   | 555   |       |
| 15      | Malabar                  | 14                       | 14                                      | 1,085                    | 678                                     | 699    | 611      | 812       | 665    | 681    | 659   | 671   |       |
| 16      | Nellore                  | 15                       | 15                                      | 1,749                    | 688                                     | 659    | 627      | 661       | 646    | 700    | 844   | 787   |       |
| 17      | Nilgiris, The            | 14                       | 14                                      | 1,390                    | 911                                     | 385    | 332      | 266       | 282    | 266    | 259   | 266   |       |
| 18      | North Arcot              | 5                        | 5                                       | 57                       | 41                                      | 65     | 71       | 75        | 73     | 88     | 78    | 70    |       |
| 19      | Ramanad                  | 17                       | 17                                      | 2,020                    | 957                                     | 400    | 401      | 361       | 326    | 323    | 316   | 292   |       |
| 20      | Salem                    | 13                       | 13                                      | 8,596                    | 1,088                                   | 351    | 260      | 303       | 298    | 304    | 291   | 325   |       |
| 21      | South Arcot              | 12                       | 12                                      | 1,791                    | 1,350                                   | 285    | 244      | 289       | 251    | 294    | 333   | 240   |       |
| 22      | South Kanara             | 11                       | 11                                      | 2,331                    | 897                                     | 333    | 320      | 334       | 298    | 315    | 296   | 370   |       |
| 23      | Tanjore                  | 8                        | 7                                       | 808                      | 455                                     | 233    | 169      | 231       | 175    | 164    | 174   | 207   |       |
| 24      | Tinnevely                | 17                       | 17                                      | 2,533                    | 669                                     | 263    | 228      | 252       | 229    | 214    | 201   | 191   |       |
| 25      | Trichinopoly             | 12                       | 12                                      | 999                      | 504                                     | 306    | 294      | 284       | 293    | 305    | 288   | 299   |       |
| 26      | Visagapatam              | 10                       | 10                                      | 1,072                    | 545                                     | 354    | 324      | 344       | 320    | 315    | 274   | 298   |       |
|         |                          | 18                       | 16                                      | 2,558                    | 1,331                                   | 566    | 331      | 255       | 325    | 335    | 492   | 616   |       |
|         | Total, Madras Presidency | 316                      | 310                                     | 89,887                   | 18,350                                  | 10,178 | 8,606    | 9,034     | 8,281  | 8,593  | 8,441 | 8,849 |       |

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No. XI.—Deaths registered from Respiratory Diseases in the Districts of the Madras Presidency during each month of the year 1934—cont.

| Number. | Districts.               | August. | September. | October. | November. | December. | Total. |          |         | Ratio of deaths per 1,000 of population. |          |        | Mean ratio per 1,000 for previous 5 years. |
|---------|--------------------------|---------|------------|----------|-----------|-----------|--------|----------|---------|------------------------------------------|----------|--------|--------------------------------------------|
|         |                          |         |            |          |           |           | Males. | Females. | Total.  | Males.                                   | Females. | Total. |                                            |
| 1       | Anantapur                | 237     | 320        | 150      | 188       | 204       | 1,825  | 1,360    | 2,885   | 283                                      | 266      | 275    | 289                                        |
| 2       | Bellary                  | 264     | 288        | 305      | 248       | 277       | 1,815  | 1,693    | 3,508   | 368                                      | 355      | 362    | 368                                        |
| 3       | Chingleput               | 235     | 269        | 222      | 278       | 251       | 1,716  | 1,387    | 3,103   | 206                                      | 170      | 188    | 178                                        |
| 4       | Chittoor                 | 238     | 313        | 306      | 339       | 379       | 1,980  | 1,816    | 3,796   | 268                                      | 256      | 263    | 269                                        |
| 5       | Coimbatore               | 462     | 514        | 498      | 713       | 765       | 8,796  | 8,246    | 17,042  | 812                                      | 765      | 788    | 789                                        |
| 6       | Cuddapah                 | 110     | 135        | 103      | 109       | 122       | 894    | 843      | 1,737   | 185                                      | 181      | 183    | 195                                        |
| 7       | Ganjām                   | 339     | 342        | 374      | 325       | 230       | 1,766  | 1,705    | 3,471   | 188                                      | 158      | 169    | 124                                        |
| 8       | Godāvari, East           | 517     | 495        | 466      | 442       | 461       | 2,634  | 2,338    | 5,172   | 318                                      | 298      | 308    | 233                                        |
| 9       | Godāvari, West           | 91      | 108        | 85       | 72        | 117       | 510    | 419      | 929     | 422                                      | 350      | 386    | 304                                        |
| 10      | Guntūr                   | 345     | 308        | 300      | 255       | 316       | 1,817  | 1,713    | 3,536   | 302                                      | 277      | 288    | 265                                        |
| 11      | Kistna                   | 503     | 431        | 450      | 411       | 458       | 2,666  | 2,373    | 5,039   | 259                                      | 236      | 248    | 255                                        |
| 12      | Kurnool                  | 437     | 378        | 376      | 339       | 362       | 2,310  | 1,951    | 4,161   | 345                                      | 316      | 332    | 323                                        |
| 13      | Madras                   | 184     | 194        | 142      | 176       | 224       | 1,287  | 1,074    | 2,331   | 242                                      | 218      | 227    | 243                                        |
| 14      | Madura                   | 602     | 585        | 555      | 543       | 617       | 9,669  | 8,236    | 17,905  | 1099                                     | 1082     | 1091   | 1110                                       |
| 15      | Malabar                  | 777     | 670        | 620      | 738       | 565       | 4,382  | 3,711    | 8,078   | 404                                      | 333      | 368    | 308                                        |
| 16      | Nellore                  | 802     | 367        | 254      | 291       | 303       | 4,566  | 3,604    | 8,170   | 268                                      | 198      | 231    | 226                                        |
| 17      | Nilgiris, The            | 78      | 66         | 75       | 64        | 56        | 1,514  | 1,689    | 3,203   | 244                                      | 228      | 236    | 178                                        |
| 18      | North Arcot              | 269     | 285        | 309      | 333       | 455       | 2,334  | 1,839    | 4,173   | 206                                      | 162      | 184    | 172                                        |
| 19      | Ramanad                  | 341     | 289        | 299      | 424       | 465       | 2,060  | 1,886    | 3,946   | 195                                      | 185      | 187    | 187                                        |
| 20      | Salem                    | 284     | 227        | 192      | 241       | 250       | 1,615  | 1,375    | 2,990   | 138                                      | 113      | 123    | 126                                        |
| 21      | South Arcot              | 378     | 328        | 322      | 369       | 474       | 2,222  | 1,989    | 4,121   | 181                                      | 155      | 168    | 160                                        |
| 22      | South Kanara             | 188     | 195        | 197      | 230       | 206       | 1,266  | 1,112    | 2,378   | 141                                      | 127      | 146    | 167                                        |
| 23      | Tanjore                  | 172     | 197        | 271      | 244       | 298       | 1,511  | 1,249    | 2,760   | 132                                      | 101      | 116    | 100                                        |
| 24      | Tinnevely                | 276     | 237        | 271      | 275       | 407       | 2,049  | 1,569    | 3,638   | 208                                      | 160      | 178    | 180                                        |
| 25      | Trichinopoly             | 272     | 268        | 293      | 275       | 438       | 3,050  | 1,325    | 4,375   | 220                                      | 187      | 203    | 154                                        |
| 26      | Visagapatam              | 649     | 568        | 600      | 428       | 491       | 2,894  | 2,797    | 5,651   | 240                                      | 224      | 231    | 122                                        |
|         | Total, Madras Presidency | 9,193   | 8,734      | 8,576    | 9,235     | 10,032    | 57,440 | 50,032   | 107,742 | 2,58                                     | 2,20     | 2,38   | 217                                        |

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No. XII.—Deaths registered from Plague in the Districts of the Madras Presidency during each month of the year 1934.

| Number. | Districts.                     | Circles of registration. |                                         | Villages.                |                                         | January. | February. | March. | April. | May. | June. | July. |
|---------|--------------------------------|--------------------------|-----------------------------------------|--------------------------|-----------------------------------------|----------|-----------|--------|--------|------|-------|-------|
|         |                                | Number in each district. | Number from which deaths were reported. | Number in each district. | Number from which deaths were reported. |          |           |        |        |      |       |       |
| (1)     | (2)                            | (3)                      | (4)                                     | (5)                      | (6)                                     | (7)      | (8)       | (9)    | (10)   | (11) | (12)  | (13)  |
| 1       | Anantapur                      | 12                       | 5                                       | 865                      | 8                                       | 34       | 22        | 10     | 1      | 3    | ..    | 21    |
| 2       | Bellary                        | 12                       | 10                                      | 918                      | 74                                      | 256      | 161       | 60     | 17     | ..   | ..    | ..    |
| 3       | Chingleput                     | 10                       | ..                                      | 2,155                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 4       | Chittoor                       | 12                       | 2                                       | 2,291                    | 3                                       | 1        | 5         | ..     | ..     | ..   | ..    | ..    |
| 5       | Coimbatore                     | 16                       | 2                                       | 1,116                    | 27                                      | 39       | 28        | 7      | 4      | 2    | ..    | 18    |
| 6       | Cuddapah                       | 11                       | ..                                      | 937                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 7       | Ganjam                         | 14                       | ..                                      | 4,054                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 8       | Godāvari, East { Plains Agency | 11                       | ..                                      | 817                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 9       | Godāvari, West                 | 5                        | ..                                      | 1,114                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 10      | Guntur                         | 9                        | ..                                      | 726                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 11      | Kistna                         | 14                       | ..                                      | 946                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 12      | Kernool                        | 11                       | ..                                      | 980                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 13      | Madras                         | 11                       | ..                                      | 798                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 14      | Madura                         | 1                        | ..                                      | 1                        | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 15      | Malabar                        | 14                       | 4                                       | 1,085                    | 29                                      | 116      | 108       | 139    | 1      | 3    | 7     | 35    |
| 16      | Nellore                        | 16                       | 1                                       | 1,749                    | 1                                       | 5        | 15        | 6      | 6      | 1    | ..    | 2     |
| 17      | Niigiris, The                  | 14                       | ..                                      | 1,680                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 18      | North Arcot                    | 5                        | 1                                       | 57                       | 1                                       | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 19      | Ramanad                        | 17                       | 7                                       | 2,020                    | 9                                       | 21       | 5         | ..     | ..     | ..   | ..    | ..    |
| 20      | Salem                          | 13                       | 2                                       | 3,598                    | ..                                      | 16       | 7         | 21     | ..     | 5    | ..    | 13    |
| 21      | South Arcot                    | 12                       | ..                                      | 1,791                    | 27                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 22      | South Kanara                   | 11                       | ..                                      | 2,331                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 23      | Tanjore                        | 8                        | ..                                      | 808                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 24      | Tinnevely                      | 17                       | ..                                      | 2,533                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 25      | Trichinopoly                   | 12                       | ..                                      | 999                      | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
| 26      | Visagapatam                    | 10                       | ..                                      | 1,072                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
|         |                                | 18                       | ..                                      | 2,558                    | ..                                      | ..       | ..        | ..     | ..     | ..   | ..    | ..    |
|         | Total, Madras Presidency       | 316                      | 84                                      | 39,987                   | 179                                     | 488      | 346       | 243    | 29     | 14   | 13    | 61    |

No. XII.—Deaths registered from Plague in the Districts of the Madras Presidency during each month of the year 1934—cont.

| Number. | Districts.                     | August. | September. | October. | November. | December. | Ratio of deaths per 1,000 of population. |          |        | Mean ratio per 1,000 for previous 5 years. |
|---------|--------------------------------|---------|------------|----------|-----------|-----------|------------------------------------------|----------|--------|--------------------------------------------|
|         |                                | (14)    | (15)       | (16)     | (17)      | (18)      | Males.                                   | Females. | Total. |                                            |
| (26)    |                                | (21)    | (22)       | (23)     | (24)      | (25)      |                                          |          |        |                                            |
| 1       | Anantapur                      | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 2       | Bellary                        | 195     | 216        | 150      | 1         | 29        | 35                                       | 33       | 68     | 08                                         |
| 3       | Chingleput                     | ..      | ..         | ..       | 23        | ..        | 551                                      | 579      | 1,130  | 89                                         |
| 4       | Chittoor                       | ..      | ..         | ..       | ..        | 1         | 6                                        | 1        | 7      | 002                                        |
| 5       | Coimbatore                     | 14      | 14         | 13       | 9         | 11        | 68                                       | 86       | 154    | 08                                         |
| 6       | Cuddapah                       | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 7       | Ganjam                         | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 8       | Godāvari, East { Plains Agency | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 9       | Godāvari, West                 | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 10      | Guntur                         | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 11      | Kistna                         | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 12      | Kernool                        | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 13      | Madras                         | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 14      | Madura                         | 48      | 24         | 52       | 117       | 158       | 296                                      | 507      | 803    | 0002                                       |
| 15      | Malabar                        | 6       | 1          | 3        | 2         | 3         | 31                                       | 19       | 50     | 0002                                       |
| 16      | Nellore                        | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 17      | Niigiris, The                  | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 18      | North Arcot                    | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 19      | Ramanad                        | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 20      | Salem                          | 2       | 16         | 13       | 1         | 11        | 2                                        | 23       | 32     | 01                                         |
| 21      | South Arcot                    | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 22      | South Kanara                   | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 23      | Tanjore                        | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 24      | Tinnevely                      | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 25      | Trichinopoly                   | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
| 26      | Visagapatam                    | ..      | ..         | ..       | ..        | ..        | ..                                       | ..       | ..     | ..                                         |
|         | Total, Madras Presidency       | 260     | 271        | 235      | 156       | 213       | 1,042                                    | 1,316    | 2,358  | 04                                         |



## VACCINATION STATEMENTS.

Statement showing inspection of Vaccinated Cases by District  
Health Officers during 1934-35.

| Name of district.      | Total number of cases vaccinated during the year. |                                                  | Percentage of cases inspected to total number vaccinated. |
|------------------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------|
|                        | Total number of cases vaccinated during the year. | Total number of cases inspected during the year. |                                                           |
| 1. Anantapur ...       | 224,044                                           | 3,309                                            | 1.5                                                       |
| 2. Arcot, North ...    | 212,169                                           | 1,482                                            | 0.7                                                       |
| 3. Arcot, South ...    | 149,720                                           | 3,095                                            | 2.1                                                       |
| 4. Bellary ...         | 118,638                                           | 3,202                                            | 2.7                                                       |
| 5. Chingleput ...      | 108,274                                           | 1,427                                            | 1.3                                                       |
| 6. Chittoor ...        | 165,131                                           | 2,766                                            | 1.7                                                       |
| 7. Coimbatore ...      | 184,360                                           | 1,145                                            | 0.6                                                       |
| 8. Cuddapah ...        | 209,771                                           | 1,754                                            | 0.8                                                       |
| 9. Ganjam ...          | 185,998                                           | 2,912                                            | 1.6                                                       |
| 10. Godavari, East ... | 146,323                                           | 2,069                                            | 1.4                                                       |
| 11. Godavari, West ... | 98,629                                            | 1,810                                            | 1.6                                                       |
| 12. Guntur ...         | 292,824                                           | 1,053                                            | 0.4                                                       |
| 13. Kistna ...         | 154,690                                           | 1,828                                            | 1.2                                                       |
| 14. Kurnool ...        | 228,754                                           | 1,546                                            | 0.7                                                       |
| 15. Madura ...         | 197,150                                           | 690                                              | 0.4                                                       |
| 16. Malabar ...        | 274,104                                           | 6,597                                            | 2.4                                                       |
| 17. Nellore ...        | 189,921                                           | 3,247                                            | 1.7                                                       |
| 18. Nilgiris, The ...  | 39,603                                            | 1,037                                            | 2.7                                                       |
| 19. Ramnad ...         | 163,325                                           | 273                                              | 0.2                                                       |
| 20. Salem ...          | 226,798                                           | 4,751                                            | 2.1                                                       |
| 21. South Kanara ...   | 125,104                                           | 4,051                                            | 3.2                                                       |
| 22. Tanjore ...        | 140,597                                           | 1,126                                            | 0.8                                                       |
| 23. Tinnevely ...      | 175,435                                           | 2,923                                            | 1.7                                                       |
| 24. Trichinopoly ...   | 141,510                                           | 2,887                                            | 2.0                                                       |
| 25. Vizagapatam ...    | 170,269                                           | 3,268                                            | 1.9                                                       |

## VACCINATION STATEMENTS—cont.

Statement showing inspection of Vaccinated Cases by Municipal  
Health Officers during 1934-35.

| Name of municipalities. | Total number of cases vaccinated during the year. |                 | Total number of cases inspected during the year. |                 | Percentage of cases inspected to total number vaccinated. |                 |
|-------------------------|---------------------------------------------------|-----------------|--------------------------------------------------|-----------------|-----------------------------------------------------------|-----------------|
|                         | Primary.                                          | Re-vaccination. | Primary.                                         | Re-vaccination. | Primary.                                                  | Re-vaccination. |
| 1. Adoni ...            | 1,356                                             | 3,323           | 1,131                                            | 1,115           | 83.4                                                      | 33.6            |
| 2. Bellary ...          | 1,448                                             | 8,049           | 1,108                                            | 5,215           | 76.5                                                      | 64.4            |
| 3. Berhampur ...        | 1,287                                             | 3,316           | 1,205                                            | 2,487           | 93.6                                                      | 75.0            |
| 4. Bezvada ...          | 2,324                                             | 8,089           | 1,196                                            | 1,002           | 51.5                                                      | 12.4            |
| 5. Bodinayakkanur ...   | 1,274                                             | 879             | 1,201                                            | 629             | 94.3                                                      | 71.6            |
| 6. Calicut ...          | 3,503                                             | 12,781          | 2,519                                            | 6,907           | 71.9                                                      | 54.0            |
| 7. Cannanore ...        | 809                                               | 4,137           | 587                                              | 2,113           | 72.6                                                      | 51.1            |
| 8. Chidambaram ...      | 838                                               | 2,946           | 801                                              | 2,119           | 95.6                                                      | 71.9            |
| 9. Chingleput ...       | 520                                               | 3,921           | 520                                              | 3,337           | 100.0                                                     | 85.1            |
| 10. Coonada ...         | 2,329                                             | 11,723          | 1,541                                            | 5,968           | 66.2                                                      | 50.9            |
| 11. Cochin ...          | 943                                               | 2,026           | 736                                              | 1,036           | 78.1                                                      | 51.1            |
| 12. Coimbatore ...      | 3,929                                             | 25,527          | 2,692                                            | 6,669           | 68.5                                                      | 26.1            |
| 13. Conjeevaram ...     | 4,036                                             | 9,953           | 3,858                                            | 2,122           | 95.6                                                      | 21.3            |
| 14. Coonoor ...         | 749                                               | 5,159           | 599                                              | 3,580           | 80.0                                                      | 69.4            |
| 15. Cuddalore ...       | 1,826                                             | 3,675           | 1,417                                            | 2,262           | 77.6                                                      | 61.8            |
| 16. Cuddapah ...        | 1,079                                             | 1,070           | 818                                              | 4,122           | 75.9                                                      | 40.5            |
| 17. Dindigul ...        | 1,677                                             | 7,351           | 1,261                                            | 4,004           | 75.2                                                      | 54.5            |
| 18. Ellore ...          | 1,315                                             | 14,612          | 1,215                                            | 7,838           | 66.9                                                      | 53.7            |
| 19. Guntur ...          | 1,715                                             | 6,687           | 1,287                                            | 3,102           | 75.0                                                      | 47.7            |
| 20. Hindupur ...        | 613                                               | 2,936           | 487                                              | 1,414           | 71.3                                                      | 49.2            |
| 21. Hospet ...          | 1,425                                             | 2,182           | 1,390                                            | 1,408           | 97.6                                                      | 64.5            |
| 22. Kumbakonam ...      | 2,006                                             | 6,954           | 1,770                                            | 4, 89           | 88.0                                                      | 61.6            |
| 23. Kurnool ...         | 1,142                                             | 2,789           | 630                                              | 1,623           | 55.2                                                      | 58.2            |
| 24. Madura ...          | 5,539                                             | 121,438         | 5,334                                            | 86,893          | 96.3                                                      | 71.6            |
| 25. Mangalore ...       | 2,901                                             | 11,490          | 2,648                                            | 6,348           | 91.3                                                      | 52.9            |
| 26. Mannargudi ...      | 737                                               | 2,623           | 580                                              | 1,191           | 75.6                                                      | 45.4            |
| 27. Masulipatam ...     | 5,238                                             | 5,470           | 1,614                                            | 2,785           | 30.8                                                      | 50.9            |
| 28. Mayavaram ...       | 790                                               | 6,530           | 675                                              | 4,046           | 85.4                                                      | 62.0            |
| 29. Nagapatam ...       | 1,368                                             | 5,537           | 1,138                                            | 4, 13           | 83.2                                                      | 79.7            |
| 30. Nellore ...         | 1,887                                             | 4,453           | 1,193                                            | 1,538           | 63.0                                                      | 34.5            |
| 31. Ootacamund ...      | 1,245                                             | 11,230          | 1,006                                            | 6,728           | 80.0                                                      | 59.9            |
| 32. Palghat ...         | 1,784                                             | 7,954           | 957                                              | 3,428           | 53.0                                                      | 43.1            |
| 33. Periyakulam ...     | 978                                               | 3,650           | 780                                              | 2,476           | 74.6                                                      | 67.8            |
| 34. Pollachi ...        | 1,156                                             | 6,964           | 929                                              | 4,422           | 80.4                                                      | 63.5            |
| 35. Proddatur ...       | 807                                               | 4,723           | 688                                              | 2,953           | 85.3                                                      | 62.5            |
| 36. Rajahmundry ...     | 2,750                                             | 8,424           | 2,006                                            | 4,456           | 72.9                                                      | 52.9            |
| 37. Salem ...           | 3,685                                             | 4,098           | 2,736                                            | 2,603           | 74.2                                                      | 63.5            |
| 38. Saidapet ...        | 1,841                                             | 8,100           | 993                                              | 1,793           | 78.9                                                      | 57.8            |
| 39. Srirangam ...       | 665                                               | 2,334           | 484                                              | 1,617           | 72.8                                                      | 69.3            |
| 40. Srivilliputtur ...  | 1,052                                             | 1,523           | 966                                              | 801             | 91.8                                                      | 52.6            |
| 41. Tanjore ...         | 2,340                                             | 8,680           | 1,662                                            | 4,127           | 71.0                                                      | 47.8            |
| 42. Tellicherry ...     | 914                                               | 3,158           | 760                                              | 2,059           | 83.2                                                      | 65.2            |
| 43. Trichinopoly ...    | 4,560                                             | 17,336          | 3,797                                            | 10,336          | 83.3                                                      | 59.6            |
| 44. Tinnevely ...       | 1,903                                             | 5,664           | 1,245                                            | 3,878           | 65.2                                                      | 68.5            |
| 45. Tuticorin ...       | 2,827                                             | 14,314          | 2,246                                            | 11,841          | 96.5                                                      | 82.7            |
| 46. Vellore ...         | 2,807                                             | 6,629           | 2,075                                            | 4,613           | 89.9                                                      | 70.0            |
| 47. Virudhunagar ...    | 1,191                                             | 1,802           | 1,142                                            | 1,153           | 95.9                                                      | 88.6            |
| 48. Visagapatam ...     | 2,156                                             | 20,164          | 1,412                                            | 9,063           | 65.5                                                      | 44.9            |
| 49. Visianagram ...     | 1,545                                             | 17,592          | 1,204                                            | 7,909           | 77.9                                                      | 44.9            |

Statement No. 1 showing the Particulars of Vaccination in the Madras Presidency for the official year 1934-35.

| Number. | Districts.                | (1) | (2) | (3)        | (4) | Total number of persons vaccinated. |           |           | (8)    | Primary vaccination. |               |                      |                    | (13)    |
|---------|---------------------------|-----|-----|------------|-----|-------------------------------------|-----------|-----------|--------|----------------------|---------------|----------------------|--------------------|---------|
|         |                           |     |     |            |     | Males.                              | Females.  | Total.    |        | Total.               | Successful.   |                      |                    |         |
|         |                           |     |     |            |     |                                     |           |           |        |                      | Under 1 year. | 1 and under 6 years. | Total of all ages. |         |
|         |                           |     |     |            |     |                                     |           |           |        |                      |               |                      |                    |         |
| 1       | Agency districts—         |     |     |            |     |                                     |           |           |        |                      |               |                      |                    |         |
| 2       | Ganjam                    | ... | ... | ...        | 14  | 10,459                              | 10,337    | 20,845    | 1,918  | 12,415               | 4,742         | 4,975                | 10,654             | 687     |
| 3       | Godavari                  | ... | ... | ...        | 14  | 13,543                              | 12,863    | 26,411    | 1,887  | 9,061                | 3,752         | 3,169                | 7,155              | 834     |
| 4       | Visagapatnam              | ... | ... | ...        | 31  | 32,762                              | 28,706    | 61,468    | 1,983  | 33,888               | 6,087         | 19,760               | 28,834             | 2,579   |
|         | Total of Agency districts | ... | ... | 1,763,765  | 59  | 62,798                              | 51,926    | 114,724   | 1,944  | 55,834               | 14,581        | 27,904               | 46,143             | 4,070   |
| 5       | Anantapur                 | ... | ... | 1,008,481  | 21  | 125,681                             | 96,415    | 222,096   | 10,576 | 33,932               | 16,719        | 10,392               | 29,529             | 3,879   |
| 6       | Arcoot, North             | ... | ... | 2,104,926  | 27  | 114,137                             | 87,423    | 201,565   | 7,836  | 61,080               | 31,141        | 21,250               | 53,463             | 6,098   |
| 7       | Arcoot, South             | ... | ... | 3,350,239  | 25  | 87,946                              | 60,620    | 148,566   | 5,943  | 46,182               | 23,876        | 13,421               | 38,538             | 5,764   |
| 8       | Bellary                   | ... | ... | 864,848    | 16  | 69,433                              | 48,503    | 117,936   | 7,371  | 28,550               | 14,762        | 9,533                | 24,700             | 2,966   |
| 9       | Chingleput                | ... | ... | 1,542,462  | 17  | 58,806                              | 49,195    | 108,001   | 6,353  | 38,731               | 18,379        | 15,022               | 33,929             | 3,697   |
| 10      | Chittoor                  | ... | ... | 1,405,947  | 20  | 91,662                              | 73,031    | 164,693   | 8,235  | 40,144               | 21,531        | 15,087               | 36,904             | 2,719   |
|         | Coimbatore                | ... | ... | 2,244,621  | 28  | 100,866                             | 87,402    | 188,368   | 6,737  | 69,963               | 36,775        | 23,911               | 62,199             | 6,029   |
| 11      | Cuddapah                  | ... | ... | 996,671    | 19  | 128,167                             | 80,924    | 209,091   | 11,005 | 32,733               | 8,423         | 8,511                | 17,385             | 2,590   |
| 12      | Ganjam                    | ... | ... | 1,975,971  | 36  | 107,825                             | 76,092    | 183,917   | 5,095  | 64,525               | 21,463        | 28,717               | 52,289             | 6,871   |
| 13      | Godavari, East            | ... | ... | 1,533,337  | 21  | 81,044                              | 64,425    | 145,509   | 6,929  | 43,925               | 16,445        | 19,476               | 36,710             | 4,899   |
| 14      | Godavari, West            | ... | ... | 1,145,848  | 15  | 54,249                              | 44,165    | 98,414    | 6,561  | 40,745               | 20,297        | 14,790               | 36,177             | 3,679   |
| 15      | Guntur                    | ... | ... | 1,981,973  | 37  | 171,921                             | 120,251   | 292,172   | 7,897  | 55,982               | 30,837        | 23,662               | 45,697             | 3,069   |
| 16      | Kistna                    | ... | ... | 1,136,863  | 18  | 85,007                              | 69,775    | 154,782   | 8,571  | 36,777               | 12,794        | 15,515               | 30,021             | 4,611   |
| 17      | Kurnool                   | ... | ... | 987,089    | 23  | 141,799                             | 85,031    | 226,830   | 8,101  | 81,806               | 15,546        | 11,233               | 27,395             | 5,531   |
| 18      | Madura                    | ... | ... | 1,894,650  | 28  | 100,294                             | 95,269    | 195,563   | 6,934  | 58,774               | 39,906        | 9,811                | 50,741             | 6,425   |
| 19      | Malabar                   | ... | ... | 8,294,204  | 36  | 145,955                             | 126,389   | 272,324   | 7,565  | 96,726               | 57,105        | 23,052               | 87,896             | 7,450   |
| 20      | Nellore                   | ... | ... | 1,440,327  | 24  | 114,452                             | 74,332    | 188,784   | 7,868  | 36,177               | 11,555        | 18,805               | 80,724             | 2,884   |
| 21      | Nilgiris, The             | ... | ... | 123,099    | 7   | 23,460                              | 16,448    | 39,908    | 5,181  | 8,795                | 1,869         | 1,481                | 3,500              | 249     |
| 22      | Ramnad                    | ... | ... | 1,736,605  | 34  | 92,133                              | 69,554    | 161,687   | 6,737  | 45,944               | 11,864        | 23,725               | 38,009             | 5,245   |
| 23      | Salem                     | ... | ... | 2,331,793  | 33  | 129,114                             | 96,728    | 225,842   | 6,844  | 72,809               | 26,382        | 33,855               | 61,727             | 8,023   |
| 24      | South Kanara              | ... | ... | 1,305,485  | 19  | 68,892                              | 55,703    | 124,595   | 6,557  | 39,600               | 15,054        | 18,519               | 35,231             | 3,848   |
| 25      | Tanjore                   | ... | ... | 2,133,165  | 23  | 77,051                              | 61,604    | 138,655   | 5,829  | 39,612               | 10,181        | 17,880               | 29,818             | 7,077   |
| 26      | Tinnevely                 | ... | ... | 1,877,414  | 23  | 97,896                              | 74,714    | 172,610   | 7,505  | 56,444               | 31,100        | 14,058               | 46,759             | 6,704   |
| 27      | Trichinopoly              | ... | ... | 1,725,889  | 17  | 77,414                              | 63,863    | 141,277   | 8,340  | 41,178               | 20,316        | 14,816               | 35,700             | 4,374   |
| 28      | Visagapatnam              | ... | ... | 2,307,946  | 34  | 97,673                              | 74,593    | 172,266   | 4,920  | 66,166               | 26,128        | 28,269               | 59,686             | 6,233   |
|         | Total of districts        | ... | ... | 42,132,450 | 658 | 2,500,305                           | 1,913,360 | 4,413,685 | 6,707  | 1,233,562            | 543,947       | 459,445              | 10,48,868          | 129,983 |

Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1934-35—cont.

| Number. | Districts.                | Re-vaccination. |                     |                  |                              | Percentage of successful cases in which the results were known. | (18)<br>Re-vaccination. | (19)<br>Persons successfully vaccinated per 1,000 of population. | (20)<br>Total cost of vaccination department. | (21)<br>Number of all successful vaccinations and revaccinations performed by the vaccination staff only. | (22)<br>Average cost of each successful case performed by the vaccination staff. |
|---------|---------------------------|-----------------|---------------------|------------------|------------------------------|-----------------------------------------------------------------|-------------------------|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|         |                           | Total<br>(14)   | Successful.<br>(15) | Unknown.<br>(16) | (17)<br>Primary vaccination. |                                                                 |                         |                                                                  |                                               |                                                                                                           |                                                                                  |
|         |                           |                 |                     |                  |                              |                                                                 |                         |                                                                  |                                               |                                                                                                           |                                                                                  |
| 1       | Agency districts—         |                 |                     |                  |                              |                                                                 |                         |                                                                  | RS. A. P.                                     |                                                                                                           | RS. A. P.                                                                        |
| 2       | Ganjam ...                | 14,518          | 4,928               | 1,436            | 90.7                         | 36.9                                                            | ...                     | 8,809 5 10                                                       | 15,480                                        | 0 8 7                                                                                                     | 0 8 7                                                                            |
| 3       | Godavari ...              | 17,552          | 2,814               | 3,498            | 86.9                         | 19.9                                                            | ...                     | 11,708 7 6                                                       | 9,969                                         | 1 2 10                                                                                                    | 1 2 10                                                                           |
|         | Visagapatam ...           | 28,480          | 6,794               | 3,836            | 83.6                         | 23.9                                                            | ...                     | 29,388 13 9                                                      | 35,128                                        | 0 13 5                                                                                                    | 0 13 5                                                                           |
|         | Total of Agency districts | 60,550          | 14,434              | 8,670            | 90.0                         | 27.8                                                            | 34.3                    | 49,406 11 1                                                      | 60,577                                        | 0 13 1                                                                                                    | 0 13 1                                                                           |
| 4       | Anantapur ...             | 190,112         | 33,968              | 38,104           | 94.9                         | 22.8                                                            | 62.0                    | 21,348 8 11                                                      | 62,497                                        | 0 5 6                                                                                                     | 0 5 6                                                                            |
| 5       | Arcoot, North ...         | 151,089         | 32,359              | 32,076           | 97.3                         | 27.2                                                            | 40.8                    | 29,888 7 10                                                      | 85,822                                        | 0 5 7                                                                                                     | 0 5 7                                                                            |
| 6       | Arcoot, South ...         | 103,538         | 15,938              | 19,638           | 95.3                         | 19.0                                                            | 23.2                    | 26,154 3 10                                                      | 54,474                                        | 0 7 8                                                                                                     | 0 7 8                                                                            |
| 7       | Bellary ...               | 90,088          | 16,063              | 20,485           | 96.5                         | 21.6                                                            | 48.0                    | 17,735 0 0                                                       | 34,768                                        | 0 7 2                                                                                                     | 0 7 2                                                                            |
| 8       | Chingleput ...            | 69,543          | 16,500              | 13,375           | 96.8                         | 29.4                                                            | 32.7                    | 16,899 5 10                                                      | 50,429                                        | 0 5 4                                                                                                     | 0 5 4                                                                            |
| 9       | Chittoor ...              | 124,937         | 35,234              | 21,332           | 98.6                         | 34.05                                                           | 51.3                    | 20,281 7 10                                                      | 72,138                                        | 0 4 6                                                                                                     | 0 4 6                                                                            |
| 10      | Coimbatore ...            | 119,897         | 30,573              | 19,034           | 97.3                         | 30.5                                                            | 41.3                    | 28,981 14 2                                                      | 92,773                                        | 0 5 0                                                                                                     | 0 5 0                                                                            |

|                    |                |     |     |         |        |        |      |      |       |              |           |        |
|--------------------|----------------|-----|-----|---------|--------|--------|------|------|-------|--------------|-----------|--------|
| 11                 | Onddiah        | ... | ... | 187,038 | 27,972 | 37,136 | 86.3 | 18.7 | 50.0  | 18,381 5 7   | 45,357    | 0 6 6  |
| 12                 | Ganjam         | ... | ... | 121,478 | 21,018 | 18,284 | 90.7 | 20.4 | 37.0  | 30,197 14 10 | 73,305    | 0 6 7  |
| 13                 | Godavari, East | ... | ... | 102,398 | 20,220 | 26,301 | 94.1 | 26.6 | 37.1  | 17,051 14 9  | 56,930    | 0 4 10 |
| 14                 | Godavari, West | ... | ... | 67,884  | 17,211 | 9,975  | 97.6 | 35.9 | 46.5  | 15,143 8 1   | 53,888    | 0 4 6  |
| 15                 | Guntur         | ... | ... | 238,842 | 39,177 | 49,530 | 95.4 | 20.9 | 45.0  | 28,592 3 11  | 84,774    | 0 5 5  |
| 16                 | Kistna         | ... | ... | 118,913 | 27,335 | 29,207 | 96.3 | 30.5 | 50.5  | 17,788 5 10  | 57,356    | 0 5 0  |
| 17                 | Kurnool        | ... | ... | 191,948 | 22,072 | 33,330 | 87.6 | 13.9 | 51.2  | 20,003 14 4  | 49,467    | 0 6 6  |
| 18                 | Madura         | ... | ... | 183,382 | 30,325 | 27,304 | 96.9 | 27.3 | 42.8  | 25,935 8 8   | 81,046    | 0 5 1  |
| 19                 | Malabar        | ... | ... | 177,378 | 58,284 | 35,344 | 96.5 | 38.3 | 44.3  | 34,516 9 8   | 145,180   | 0 3 9  |
| 20                 | Nellore        | ... | ... | 153,744 | 34,403 | 23,475 | 92.3 | 26.4 | 45.2  | 25,553 12 8  | 65,127    | 0 6 3  |
| 21                 | Nilgiris, The  | ... | ... | 85,808  | 9,791  | 6,297  | 98.7 | 33.2 | 101.9 | 7,181 3 8    | 13,291    | 0 8 8  |
| 22                 | Ramnad         | ... | ... | 117,381 | 20,975 | 25,800 | 93.4 | 22.8 | 34.0  | 23,342 13 7  | 58,984    | 0 6 4  |
| 23                 | Salem          | ... | ... | 153,989 | 27,855 | 31,081 | 95.3 | 22.7 | 38.4  | 26,824 10 10 | 89,582    | 0 4 9  |
| 24                 | South Kanara   | ... | ... | 85,604  | 24,083 | 15,860 | 98.8 | 34.2 | 45.4  | 17,589 2 10  | 59,264    | 0 4 9  |
| 25                 | Tanjore        | ... | ... | 100,985 | 17,900 | 26,214 | 91.6 | 23.9 | 22.4  | 27,216 5 11  | 47,718    | 0 9 2  |
| 26                 | Tinnevely      | ... | ... | 118,991 | 23,217 | 23,563 | 94.0 | 23.3 | 36.7  | 20,173 11 4  | 68,976    | 0 4 8  |
| 27                 | Trichinopoly   | ... | ... | 100,334 | 29,749 | 21,811 | 97.0 | 37.9 | 38.0  | 19,860 4 1   | 65,499    | 0 4 10 |
| 28                 | Visagapatam    | ... | ... | 102,103 | 22,316 | 18,339 | 94.8 | 26.6 | 35.1  | 25,374 2 1   | 81,002    | 0 5 0  |
| Total of districts |                |     |     |         |        |        |      |      |       | 6,11,864 0 2 | 1,715,743 | 0 5 8  |

Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1934-35—cont.

| Number. | Municipalities. | (1)     | (2) | (3)<br>Populations of municipalities according to the census of 1931. | (4)<br>Average number of vaccinators employed throughout the year. | Total number of persons vaccinated. |          |        | (8)<br>Average number of persons vaccinated by each vaccinator. | Primary vaccination. |             |     |     | (13)<br>Unknown. |                       |                              |                            |
|---------|-----------------|---------|-----|-----------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------|----------|--------|-----------------------------------------------------------------|----------------------|-------------|-----|-----|------------------|-----------------------|------------------------------|----------------------------|
|         |                 |         |     |                                                                       |                                                                    | Males.                              | Females. | Total. |                                                                 | (9)<br>Total.        | Successful. |     |     |                  |                       |                              |                            |
|         |                 |         |     |                                                                       |                                                                    |                                     |          |        |                                                                 |                      | (5)         | (6) | (7) |                  | (10)<br>Under 1 year. | (11)<br>1 and under 6 years. | (12)<br>Total of all ages. |
|         |                 |         |     |                                                                       |                                                                    |                                     |          |        |                                                                 |                      |             |     |     |                  |                       |                              |                            |
| 1       | Adoni           | 35,635  | 1   | 2,452                                                                 | 2,227                                                              | 4,679                               | 2,949    | 1,356  | 1,151                                                           | 160                  | 1,315       | 40  |     |                  |                       |                              |                            |
| 2       | Anakapalle      | 33,376  | 1   | 1,431                                                                 | 659                                                                | 2,090                               | 2,090    | 793    | 245                                                             | 295                  | 702         | 81  |     |                  |                       |                              |                            |
| 3       | Anantapur       | 16,099  | 1   | 1,771                                                                 | 987                                                                | 2,758                               | 1,611    | 495    | 326                                                             | 169                  | 488         | 6   |     |                  |                       |                              |                            |
| 4       | Bellary         | 47,578  | 2   | 5,702                                                                 | 8,819                                                              | 9,521                               | 2,749    | 1,448  | 1,098                                                           | 192                  | 1,313       | 94  |     |                  |                       |                              |                            |
| 5       | Berhampur       | 87,750  | 1   | 2,540                                                                 | 2,052                                                              | 4,592                               | 3,349    | 1,287  | 945                                                             | 285                  | 1,242       | 4   |     |                  |                       |                              |                            |
| 6       | Bezwada         | 60,427  | 2   | 5,465                                                                 | 4,948                                                              | 10,413                              | 4,122    | 2,324  | 1,405                                                           | 738                  | 2,282       | 30  |     |                  |                       |                              |                            |
| 7       | Bhimipetam      | 9,629   | 1   | 624                                                                   | 969                                                                | 1,593                               | 586      | 319    | 262                                                             | 85                   | 313         | ... |     |                  |                       |                              |                            |
| 8       | Bodinayakanur   | 27,036  | 1   | 1,338                                                                 | 811                                                                | 2,149                               | 2,149    | 1,274  | 1,174                                                           | 83                   | 1,261       | 6   |     |                  |                       |                              |                            |
| 9       | Calicut         | 99,273  | 5*  | 3,781                                                                 | 7,493                                                              | 16,274                              | 3,255    | 3,503  | 1,952                                                           | 1,117                | 8,455       | 29  |     |                  |                       |                              |                            |
| 10      | Cannanore       | 34,336  | 2   | 2,644                                                                 | 2,301                                                              | 4,945                               | 1,923    | 809    | 591                                                             | 123                  | 769         | 30  |     |                  |                       |                              |                            |
| 11      | Chicasole       | 16,588  | 1   | 571                                                                   | 429                                                                | 1,000                               | 1,000    | 371    | 254                                                             | 81                   | 371         | ... |     |                  |                       |                              |                            |
| 12      | Chidambaram     | 25,084  | 1   | 2,161                                                                 | 1,613                                                              | 3,774                               | 2,871    | 838    | 455                                                             | 355                  | 821         | 14  |     |                  |                       |                              |                            |
| 13      | Chingleput      | 14,358  | 1   | 2,737                                                                 | 1,704                                                              | 4,441                               | 2,016    | 520    | 404                                                             | 99                   | 520         | ... |     |                  |                       |                              |                            |
| 14      | Chirala         | 18,863  | 1   | 2,917                                                                 | 1,665                                                              | 4,582                               | 3,403    | 868    | 559                                                             | 268                  | 860         | 4   |     |                  |                       |                              |                            |
| 15      | Chittoor        | 22,018  | 1   | 2,168                                                                 | 1,675                                                              | 3,843                               | 2,909    | 831    | 428                                                             | 383                  | 825         | 3   |     |                  |                       |                              |                            |
| 16      | Cocanada        | 65,952  | 3   | 7,274                                                                 | 6,786                                                              | 14,040                              | 1,753    | 2,329  | 1,461                                                           | 605                  | 2,183       | 100 |     |                  |                       |                              |                            |
| 17      | Cochin          | 22,818  | 2   | 1,462                                                                 | 1,502                                                              | 2,964                               | 893      | 942    | 714                                                             | 144                  | 932         | 3   |     |                  |                       |                              |                            |
| 18      | Coimbatore      | 95,198  | 5   | 17,117                                                                | 12,325                                                             | 29,442                              | 4,328    | 3,929  | 2,431                                                           | 1,169                | 3,755       | 106 |     |                  |                       |                              |                            |
| 19      | Conjeevaram     | 65,258  | 3   | 8,642                                                                 | 5,447                                                              | 13,984                              | 3,180    | 4,086  | 3,115                                                           | 637                  | 4,125       | 11  |     |                  |                       |                              |                            |
| 20      | Coonoor         | 14,328  | 2   | 3,107                                                                 | 2,801                                                              | 5,908                               | 1,744    | 749    | 383                                                             | 247                  | 749         | ... |     |                  |                       |                              |                            |
| 21      | Cuddalore       | 59,057  | 5   | 2,981                                                                 | 2,511                                                              | 5,492                               | 1,016    | 1,326  | 1,388                                                           | 392                  | 1,798       | ... |     |                  |                       |                              |                            |
| 22      | Cuddapah        | 22,602  | 4†  | 7,254                                                                 | 3,994                                                              | 11,248                              | 2,585    | 1,079  | 535                                                             | 509                  | 1,069       | 1   |     |                  |                       |                              |                            |
| 23      | Dhārmapuram     | 18,218  | 1   | 914                                                                   | 585                                                                | 1,499                               | 1,268    | 829    | 528                                                             | 254                  | 828         | 1   |     |                  |                       |                              |                            |
| 24      | Dindigul        | 43,617  | 2   | 4,821                                                                 | 4,188                                                              | 9,009                               | 1,164    | 1,677  | 1,391                                                           | 209                  | 1,619       | 19  |     |                  |                       |                              |                            |
| 25      | Ellore          | 57,343  | 2   | 11,387                                                                | 5,040                                                              | 16,427                              | 6,412    | 1,815  | 1,848                                                           | 462                  | 1,812       | ... |     |                  |                       |                              |                            |
| 26      | Erode           | 32,672  | 2   | 1,323                                                                 | 1,159                                                              | 2,482                               | 1,341    | 1,104  | 697                                                             | 388                  | 1,062       | 21  |     |                  |                       |                              |                            |
| 27      | Gadipattam      | 24,688  | 1   | 1,745                                                                 | 1,362                                                              | 3,107                               | 1,532    | 891    | 496                                                             | 300                  | 828         | 44  |     |                  |                       |                              |                            |
| 28      | Guntur          | 65,179  | 3   | 4,516                                                                 | 3,838                                                              | 8,354                               | 1,894    | 1,715  | 785                                                             | 625                  | 1,436       | 139 |     |                  |                       |                              |                            |
| 29      | Hindupur        | 14,217  | 1   | 1,785                                                                 | 1,747                                                              | 3,532                               | 2,562    | 615    | 479                                                             | 90                   | 688         | 6   |     |                  |                       |                              |                            |
| 30      | Hosur           | 31,673  | 1   | 1,995                                                                 | 1,800                                                              | 3,795                               | 2,393    | 1,425  | 1,194                                                           | 163                  | 1,375       | 85  |     |                  |                       |                              |                            |
| 31      | Karairudi       | 21,672  | 1   | 1,110                                                                 | 580                                                                | 1,700                               | 1,301    | 585    | 189                                                             | 319                  | 686         | ... |     |                  |                       |                              |                            |
| 32      | Karur           | 19,850  | 1   | 1,681                                                                 | 1,059                                                              | 2,740                               | 1,482    | 789    | 885                                                             | 361                  | 789         | ... |     |                  |                       |                              |                            |
| 33      | Kodakānal       | 6,523   | 1   | 370                                                                   | 427                                                                | 797                                 | 797      | 293    | 254                                                             | 35                   | 293         | 1   |     |                  |                       |                              |                            |
| 34      | Kumbakonam      | 62,317  | 3   | 5,476                                                                 | 3,484                                                              | 8,960                               | 1,267    | 2,006  | 1,586                                                           | 333                  | 1,962       | 3   |     |                  |                       |                              |                            |
| 35      | Kurnool         | 35,315  | 1   | 2,377                                                                 | 1,541                                                              | 3,918                               | 2,676    | 1,142  | 746                                                             | 158                  | 908         | 221 |     |                  |                       |                              |                            |
| 36      | Madras          | 647,830 | 54  | 37,452                                                                | 22,963                                                             | 60,435                              | 1,119    | 28,019 | 20,546                                                          | 7,114                | 37,783      | 190 |     |                  |                       |                              |                            |
| 37      | Madura          | 182,018 | 12  | 74,787                                                                | 52,182                                                             | 126,969                             | 10,581   | 5,539  | 3,283                                                           | 2,121                | 6,456       | 47  |     |                  |                       |                              |                            |
| 38      | Mangalore       | 96,756  | 3   | 8,057                                                                 | 6,789                                                              | 14,846                              | 3,595    | 2,901  | 2,239                                                           | 571                  | 2,870       | 3   |     |                  |                       |                              |                            |
| 39      | Manargudi       | 22,764  | 1   | 1,775                                                                 | 1,601                                                              | 3,376                               | 2,008    | 767    | 492                                                             | 161                  | 655         | 96  |     |                  |                       |                              |                            |
| 40      | Masulipatam     | 56,928  | 3   | 6,251                                                                 | 4,449                                                              | 10,700                              | 1,743    | 1,943  | 1,143                                                           | 729                  | 1,907       | 23  |     |                  |                       |                              |                            |
| 41      | Māyavaram       | 31,887  | 2   | 4,139                                                                 | 3,177                                                              | 7,316                               | 2,389    | 740    | 481                                                             | 244                  | 739         | 31  |     |                  |                       |                              |                            |
| 42      | Nandyāl         | 22,908  | 2†  | 2,651                                                                 | 1,743                                                              | 4,400                               | 1,802    | 865    | 642                                                             | 142                  | 808         | 38  |     |                  |                       |                              |                            |
| 43      | Narasaraopet    | 15,403  | 1   | 1,423                                                                 | 878                                                                | 2,304                               | 2,304    | 613    | 285                                                             | 270                  | 606         | 4   |     |                  |                       |                              |                            |
| 44      | Negapatam       | 43,527  | 2   | 4,066                                                                 | 2,889                                                              | 6,905                               | 2,069    | 1,368  | 1,006                                                           | 323                  | 1,356       | 2   |     |                  |                       |                              |                            |
| 45      | Nellore         | 45,895  | 2   | 3,495                                                                 | 2,345                                                              | 5,840                               | 1,858    | 1,387  | 955                                                             | 388                  | 1,358       | 9   |     |                  |                       |                              |                            |
| 46      | Ongole          | 16,672  | 1   | 1,816                                                                 | 1,327                                                              | 3,143                               | 2,204    | 567    | 376                                                             | 151                  | 534         | 27  |     |                  |                       |                              |                            |
| 47      | Ootacamund      | 24,516  | 2   | 7,074                                                                 | 5,896                                                              | 12,475                              | 4,436    | 1,245  | 829                                                             | 232                  | 1,245       | ... |     |                  |                       |                              |                            |
| 48      | Palacole        | 16,906  | 1   | 1,008                                                                 | 565                                                                | 1,568                               | 768      | 453    | 250                                                             | 178                  | 441         | 1   |     |                  |                       |                              |                            |
| 49      | Palamcottah     | 51,980  | 2   | 4,266                                                                 | 2,448                                                              | 6,764                               | 3,382    | 1,994  | 1,076                                                           | 665                  | 1,882       | 58  |     |                  |                       |                              |                            |
| 50      | Palghat         | 49,064  | 2   | 5,671                                                                 | 4,055                                                              | 9,726                               | 3,874    | 1,784  | 963                                                             | 562                  | 1,750       | 13  |     |                  |                       |                              |                            |
| 51      | Palni           | 18,889  | 1   | 1,499                                                                 | 1,445                                                              | 2,944                               | 2,944    | 931    | 679                                                             | 188                  | 893         | 24  |     |                  |                       |                              |                            |
| 52      | Parakkimedi     | 20,072  | 1   | 1,331                                                                 | 679                                                                | 2,010                               | 1,001    | 440    | 414                                                             | 12                   | 436         | ... |     |                  |                       |                              |                            |
| 53      | Peddāpuram      | 17,331  | 1   | 1,689                                                                 | 1,023                                                              | 2,712                               | 2,712    | 605    | 312                                                             | 314                  | 592         | 12  |     |                  |                       |                              |                            |
| 54      | Periyakulam     | 23,004  | 1   | 2,207                                                                 | 2,419                                                              | 4,626                               | 2,293    | 978    | 893                                                             | 75                   | 974         | ... |     |                  |                       |                              |                            |
| 55      | Pollachi        | 32,112  | 1   | 4,974                                                                 | 3,124                                                              | 8,108                               | 4,769    | 1,156  | 559                                                             | 402                  | 1,058       | 84  |     |                  |                       |                              |                            |
| 56      | Proddatūr       | 30,124  | 1   | 3,558                                                                 | 1,948                                                              | 5,504                               | 5,504    | 807    | 612                                                             | 107                  | 741         | 31  |     |                  |                       |                              |                            |
| 57      | Rajahmundry     | 63,526  | 3   | 5,306                                                                 | 3,888                                                              | 11,144                              | 2,451    | 2,750  | 1,840                                                           | 623                  | 2,957       | 19  |     |                  |                       |                              |                            |
| 58      | Saidapet        | 33,037  | 1   | 2,762                                                                 | 1,682                                                              | 4,444                               | 2,876    | 1,344  | 891                                                             | 415                  | 1,318       | 18  |     |                  |                       |                              |                            |
| 59      | Salem           | 102,179 | 4   | 6,190                                                                 | 5,875                                                              | 12,065                              | 1,948    | 3,822  | 3,048                                                           | 734                  | 3,797       | 6   |     |                  |                       |                              |                            |
| 60      | Sivakāsi        | 15,213  | 1   | 431                                                                   | 438                                                                | 869                                 | 869      | 652    | 670                                                             | 69                   | 647         | ... |     |                  |                       |                              |                            |

\* One temporary vaccinator for about eight months.

† Three temporary vaccinators.

‡ One temporary vaccinator.

Statement No. 1 showing the Particulars of Vaccination in the Madras Presidency for the official year 1934-35—cont.

| Number. | Municipalities.     | Re-vaccination. |             |          | Percentage of successful cases in which the results were known. |                 | Persons successfully vaccinated per 1,000 of population. | Total cost of vaccination department. | Number of all successful vaccinations and revaccinations performed by the vaccination staff only. | Average cost of each successful case performed by the vaccination staff. |
|---------|---------------------|-----------------|-------------|----------|-----------------------------------------------------------------|-----------------|----------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|         |                     | Total.          | Successful. | Unknown. | Primary vaccination.                                            | Re-vaccination. |                                                          |                                       |                                                                                                   |                                                                          |
|         |                     |                 |             |          |                                                                 |                 |                                                          |                                       |                                                                                                   |                                                                          |
| (14)    | (15)                | (16)            | (17)        | (18)     | (19)                                                            | (20)            | (21)                                                     | (22)                                  |                                                                                                   |                                                                          |
| 1       | Adoni ...           | 3,323           | 968         | 726      | 99.9                                                            | 37.3            | 64.1                                                     | 1,340 15 7                            | 2,283                                                                                             | Rs. A. P.<br>0 9 5                                                       |
| 2       | Anakāpalle ...      | 1,383           | 890         | 639      | 98.6                                                            | 56.2            | 46.7                                                     | 640 0 0                               | 1,092                                                                                             | 0 9 5                                                                    |
| 3       | Anantapur ...       | 2,263           | 690         | 113      | 100.0                                                           | 32.1            | 78.0                                                     | 587 0 10                              | 1,178                                                                                             | 0 7 11                                                                   |
| 4       | Bellary ...         | 8,099           | 1,109       | 846      | 97.0                                                            | 15.3            | 50.9                                                     | 1,290 0 6                             | 2,422                                                                                             | 0 8 6                                                                    |
| 5       | Berhampur ...       | 3,316           | 1,705       | 59       | 93.8                                                            | 52.3            | 78.1                                                     | 740 0 0                               | 2,947                                                                                             | 0 4 0                                                                    |
| 6       | Bezawada ...        | 8,089           | 2,672       | 678      | 99.5                                                            | 35.6            | 82.0                                                     | 1,505 5 3                             | 4,854                                                                                             | 0 4 10                                                                   |
| 7       | Bimlipatam ...      | 1,478           | 533         | 1        | 98.1                                                            | 38.1            | 87.9                                                     | 510 3 3                               | 846                                                                                               | 0 9 8                                                                    |
| 8       | Bodiniyakkandur ... | 379             | 337         | 169      | 99.4                                                            | 47.5            | 59.1                                                     | 500 3 0                               | 1,598                                                                                             | 0 5 0                                                                    |
| 9       | Calicut ...         | 12,781          | 2,560       | 2,719    | 99.5                                                            | 24.1            | 80.6                                                     | 1,435 6 2                             | 6,015                                                                                             | 0 3 10                                                                   |
| 10      | Cannanore ...       | 4,137           | 647         | 545      | 98.7                                                            | 18.0            | 41.4                                                     | 1,044 7 2                             | 1,416                                                                                             | 0 11 10                                                                  |
| 11      | Chioacole ...       | 689             | 481         | ...      | 100.0                                                           | 76.5            | 51.4                                                     | 631 15 0                              | 852                                                                                               | 0 12 10                                                                  |
| 12      | Chidambaram ...     | 2,848           | 630         | 578      | 99.6                                                            | 20.6            | 57.8                                                     | 583 10 0                              | 1,451                                                                                             | 0 6 5                                                                    |
| 13      | Chingleput ...      | 3,921           | 927         | 54       | 100.0                                                           | 34.0            | 100.8                                                    | 432 6 5                               | 1,447                                                                                             | 0 4 10                                                                   |
| 14      | Chirala ...         | 3,622           | 1,023       | 704      | 99.5                                                            | 49.8            | 99.9                                                     | 684 3 9                               | 1,883                                                                                             | 0 5 10                                                                   |
| 15      | Chittoor ...        | 3,015           | 402         | 269      | 99.6                                                            | 14.6            | 55.7                                                     | 719 15 0                              | 1,227                                                                                             | 0 9 5                                                                    |
| 16      | Cocanada ...        | 11,723          | 1,468       | 1,391    | 97.9                                                            | 14.2            | 65.4                                                     | 1,633 2 9                             | 3,651                                                                                             | 0 7 2                                                                    |
| 17      | Cochin ...          | 2,026           | 308         | 131      | 99.1                                                            | 16.3            | 54.3                                                     | 707 15 8                              | 1,240                                                                                             | 0 9 2                                                                    |
| 18      | Coimbatore ...      | 25,527          | 1,848       | 5,212    | 98.2                                                            | 9.1             | 68.8                                                     | 2,461 2 6                             | 6,601                                                                                             | 0 7 0                                                                    |
| 19      | Conjeevaram...      | 9,953           | 3,691       | 823      | 100.0                                                           | 40.5            | 118.2                                                    | 1,204 12 2                            | 7,716                                                                                             | 0 2 6                                                                    |
| 20      | Oconoor ...         | 5,159           | 1,231       | 65       | 100.0                                                           | 24.2            | 138.2                                                    | 675 11 0                              | 1,980                                                                                             | 0 5 6                                                                    |
| 21      | Cuddalore ...       | 3,675           | 1,102       | 69       | 98.5                                                            | 30.6            | 49.1                                                     | 1,155 12 6                            | 2,900                                                                                             | 0 6 5                                                                    |
| 22      | Cuddapah ...        | 10,170          | 2,076       | 2,495    | 99.2                                                            | 27.0            | 139.1                                                    | 891 6 4                               | 3,145                                                                                             | 0 4 6                                                                    |

|    |                  |         |        |        |       |       |       |             |        |         |
|----|------------------|---------|--------|--------|-------|-------|-------|-------------|--------|---------|
| 23 | Dhārāpuram ...   | 670     | 164    | 11     | 99.9  | 32.5  | 54.5  | 465 3 9     | 992    | 0 7 6   |
| 24 | Dindigul ...     | 7,351   | 1,470  | 913    | 97.6  | 27.8  | 70.8  | 1,113 6 0   | 3,089  | 0 5 9   |
| 25 | Elore ...        | 14,612  | 4,542  | 2,637  | 100.0 | 38.9  | 111.1 | 1,647 15 0  | 6,374  | 0 4 1   |
| 26 | Erode ...        | 1,899   | 219    | 237    | 98.1  | 18.8  | 38.0  | 1,005 12 0  | 1,281  | 0 12 7  |
| 27 | Gadiyāttam ...   | 2,331   | 618    | 399    | 97.8  | 32.2  | 58.6  | 575 12 0    | 1,448  | 0 6 4   |
| 28 | Guntur ...       | 6,687   | 661    | 1,556  | 91.1  | 12.9  | 32.2  | 1,824 3 7   | 2,087  | 0 13 11 |
| 29 | Hindupur ...     | 2,936   | 605    | 87     | 96.9  | 21.2  | 83.9  | 512 10 0    | 1,198  | 0 6 11  |
| 30 | Hospet ...       | 2,182   | 262    | 598    | 98.9  | 16.5  | 75.5  | 498 10 0    | 1,637  | 0 4 10  |
| 31 | Karakudi ...     | 1,115   | 364    | 203    | 100.0 | 40.1  | 43.7  | 531 0 0     | 949    | 0 8 11  |
| 32 | Karur ...        | 1,951   | 1,470  | 36     | 100.0 | 76.8  | 113.8 | 686 3 0     | 2,259  | 0 4 10  |
| 33 | Kodaikānal ...   | 501     | 123    | 22     | 98.7  | 25.7  | 63.8  | 411 6 0     | 416    | 0 15 10 |
| 34 | Kumbakonam ...   | 6,954   | 691    | 895    | 97.9  | 11.2  | 42.4  | 1,743 12 1  | 2,643  | 0 10 7  |
| 35 | Kurnool ...      | 2,789   | 582    | 774    | 93.4  | 28.9  | 42.3  | 494 5 6     | 1,488  | 0 5 4   |
| 36 | Madras ...       | 82,417  | 5,401  | 6,970  | 99.8  | 21.2  | 51.3  | 27,370 14 1 | 33,184 | 0 13 2  |
| 37 | Madura ...       | 121,438 | 38,321 | 17,401 | 99.3  | 37.1  | 242.2 | 6,986 3 0   | 44,077 | 0 2 5   |
| 38 | Mangalore ...    | 11,990  | 5,534  | 641    | 92.0  | 45.3  | 135.9 | 1,661 13 3  | 8,404  | 0 3 2   |
| 39 | Mannārgudi ...   | 2,623   | 203    | 1,243  | 97.6  | 15.1  | 37.9  | 437 15 4    | 863    | 0 7 11  |
| 40 | Manlipatam ...   | 8,760   | 3,132  | 1,056  | 99.0  | 40.6  | 88.9  | 1,410 7 10  | 5,059  | 0 4 5   |
| 41 | Māyavaram ...    | 6,530   | 1,416  | 2,585  | 97.3  | 35.9  | 67.6  | 900 5 0     | 2,155  | 0 6 8   |
| 42 | Mādyāl ...       | 3,549   | 979    | 457    | 97.1  | 31.7  | 79.0  | 845 3 9     | 1,787  | 0 8 6   |
| 43 | Narasaraopet ... | 1,705   | 607    | 309    | 99.5  | 43.5  | 78.8  | 543 7 6     | 1,213  | 0 7 2   |
| 44 | Negapatam ...    | 5,537   | 1,569  | 411    | 99.3  | 30.6  | 60.3  | 806 11 2    | 2,925  | 0 4 5   |
| 45 | Nellore ...      | 4,453   | 1,021  | 505    | 98.5  | 25.9  | 51.8  | 1,720 12 0  | 2,378  | 0 11 7  |
| 46 | Ongole ...       | 2,590   | 1,098  | 352    | 98.9  | 49.1  | 97.9  | 533 6 0     | 1,632  | 0 5 3   |
| 47 | Ootacamund ...   | 11,280  | 2,424  | 1,691  | 100.0 | 29.6  | 165.3 | 992 3 6     | 4,069  | 0 3 11  |
| 48 | Palacole ...     | 1,115   | 534    | 276    | 97.6  | 63.6  | 67.1  | 400 0 0     | 975    | 0 6 7   |
| 49 | Palacottah ...   | 4,850   | 866    | 490    | 97.2  | 19.8  | 52.8  | 1,234 0 0   | 2,743  | 0 7 2   |
| 50 | Palghat ...      | 7,964   | 2,281  | 739    | 98.8  | 31.6  | 82.2  | 1,236 10 0  | 4,031  | 0 4 11  |
| 51 | Palni ...        | 2,018   | 346    | 31     | 97.4  | 17.4  | 65.0  | 615 12 0    | 1,229  | 0 8 0   |
| 52 | Parlākimedi ...  | 1,571   | 455    | 127    | 99.1  | 31.5  | 44.4  | 504 11 0    | 891    | 0 9 1   |
| 53 | Peddāpuram ...   | 2,107   | 1,112  | 153    | 99.8  | 56.9  | 99.3  | 461 9 9     | 1,704  | 0 4 4   |
| 54 | Periyakulam ...  | 3,650   | 1,522  | ...    | 99.6  | 41.7  | 108.5 | 824 0 0     | 2,456  | 0 2 1   |
| 55 | Pollachi ...     | 6,964   | 1,964  | 938    | 99.7  | 129.1 | 129.1 | 712 4 9     | 2,832  | 0 4 0   |
| 56 | Proddatur ...    | 4,738   | 1,137  | 726    | 95.5  | 28.4  | 93.3  | 748 5 11    | 1,878  | 0 6 5   |
| 57 | Rajahmundry ...  | 8,424   | 1,240  | 347    | 97.3  | 15.4  | 61.3  | 1,563 0 0   | 3,897  | 0 6 5   |
| 58 | Saidapet ...     | 3,100   | 1,105  | 675    | 97.3  | 73.3  | 73.3  | 450 9 6     | 2,423  | 0 3 0   |
| 59 | Salem ...        | 8,244   | 2,228  | 1,115  | 99.5  | 35.9  | 62.9  | 1,671 13 4  | 6,425  | 0 4 2   |
| 60 | Sivakasi ...     | 832     | 120    | ...    | 99.2  | 37.2  | 50.4  | 163 0 0     | 767    | 0 3 5   |

Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1934-35—cont.

| Number. | Municipalities. | (1) | (2) | (3)     | (4) | Total number of persons vaccinated. |          |        | (8)   | Primary vaccination.                  |        |               |                      | (13) |                    |
|---------|-----------------|-----|-----|---------|-----|-------------------------------------|----------|--------|-------|---------------------------------------|--------|---------------|----------------------|------|--------------------|
|         |                 |     |     |         |     | Males.                              | Females. | Total. |       | Average number of persons vaccinated. | Total. | Successful.   |                      |      |                    |
|         |                 |     |     |         |     |                                     |          |        |       |                                       |        | Under 1 year. | 1 and under 6 years. |      | Total of all ages. |
|         |                 |     |     |         |     |                                     |          |        |       |                                       |        |               |                      |      |                    |
| 61      | Srirangam       | ... | ... | 24,668  | 1   | 1,597                               | 1,432    | 2,999  | 1,831 | 667                                   | 495    | 155           | 666                  | 1    |                    |
| 62      | Srivilliputur   | ... | ... | 32,885  | 2   | 1,751                               | 817      | 2,568  | 1,294 | 1,052                                 | 892    | 146           | 1,040                | 1    |                    |
| 63      | Tadipatri       | ... | ... | 12,620  | 1   | 2,471                               | 1,377    | 3,848  | 3,848 | 424                                   | 318    | 81            | 406                  | 4    |                    |
| 64      | Tanjore         | ... | ... | 66,889  | 4   | 5,875                               | 5,093    | 10,968 | 1,870 | 2,340                                 | 1,634  | 450           | 2,125                | 192  |                    |
| 65      | Tellicherry     | ... | ... | 30,349  | 2   | 3,327                               | 1,545    | 4,072  | 1,303 | 914                                   | 534    | 299           | 909                  | 1    |                    |
| 66      | Tenali          | ... | ... | 34,580  | 2   | 3,865                               | 2,662    | 6,527  | 3,007 | 1,219                                 | 734    | 375           | 1,136                | 73   |                    |
| 67      | Tinnevely       | ... | ... | 57,078  | 2   | 4,989                               | 2,556    | 7,545  | 3,152 | 1,108                                 | 1,230  | 595           | 1,898                | 13   |                    |
| 68      | Trichinopoly    | ... | ... | 142,843 | 5   | 18,018                              | 8,362    | 21,830 | 2,011 | 4,560                                 | 2,688  | 1,519         | 4,441                | 34   |                    |
| 69      | Tirupati        | ... | ... | 19,138  | 1   | 1,840                               | 2,249    | 4,189  | 1,987 | 451                                   | 421    | 30            | 451                  | ...  |                    |
| 70      | Tirupattur      | ... | ... | 18,299  | 1   | 2,190                               | 855      | 3,045  | 3,045 | 934                                   | 481    | 276           | 928                  | ...  |                    |
| 71      | Tiruppur        | ... | ... | 18,059  | 1   | 1,640                               | 989      | 2,579  | 1,518 | 697                                   | 289    | 271           | 577                  | 101  |                    |
| 72      | Tiruvárur       | ... | ... | 20,371  | 2   | 3,267                               | 2,584    | 5,851  | 2,386 | 619                                   | 373    | 116           | 510                  | 6    |                    |
| 73      | Tiruvannamalai  | ... | ... | 27,769  | 1   | 1,536                               | 780      | 2,316  | 2,316 | 912                                   | 595    | 274           | 900                  | ...  |                    |
| 74      | Tuticorin       | ... | ... | 60,397  | 3   | 9,528                               | 7,027    | 16,825 | 3,534 | 2,327                                 | 1,704  | 581           | 2,386                | ...  |                    |
| 75      | Udumalpet       | ... | ... | 12,184  | 1   | 2,656                               | 1,361    | 4,047  | 3,568 | 546                                   | 323    | 191           | 636                  | ...  |                    |
| 76      | Vaniyambadi     | ... | ... | 22,940  | 1   | 1,042                               | 694      | 1,740  | 1,740 | 724                                   | 498    | 210           | 734                  | ...  |                    |
| 77      | Vellore         | ... | ... | 57,985  | 2   | 4,693                               | 4,243    | 8,936  | 3,614 | 2,311                                 | 1,836  | 406           | 2,381                | 14   |                    |
| 78      | Villupuram      | ... | ... | 20,137  | 1   | 633                                 | 482      | 1,055  | 1,055 | 742                                   | 456    | 231           | 689                  | 2    |                    |

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|    |                                                                                |     |     |     |     |           |           |           |       |           |         |         |           |         |  |
|----|--------------------------------------------------------------------------------|-----|-----|-----|-----|-----------|-----------|-----------|-------|-----------|---------|---------|-----------|---------|--|
| 79 | Virudhunagar ...                                                               | ... | ... | ... | ... | 1,199     | 1,394     | 2,493     | 1,247 | 1,191     | 904     | 210     | 1,180     | 49      |  |
| 80 | Vinayakam ...                                                                  | ... | ... | ... | ... | 13,073    | 9,221     | 22,294    | 3,564 | 2,156     | 1,170   | 724     | 2,050     | 18      |  |
| 81 | Vizianagaram ...                                                               | ... | ... | ... | ... | 10,004    | 9,132     | 19,136    | 4,640 | 1,545     | 794     | 346     | 1,195     | 341     |  |
| 82 | Walaipet ...                                                                   | ... | ... | ... | ... | 552       | 466       | 1,025     | 1,025 | 425       | 300     | 100     | 423       | 2       |  |
|    | Total of Municipalities ...                                                    | ... | ... | ... | ... | 414,733   | 298,295   | 718,028   | 3,348 | 139,099   | 94,413  | 36,263  | 134,906   | 2,635   |  |
| 1  | Bangalore ...                                                                  | ... | ... | ... | ... | 1,434     | 1,412     | 2,846     | 1,423 | 171       | 84      | 75      | 159       | ...     |  |
| 2  | Secunderabad ...                                                               | ... | ... | ... | ... | 18,056    | 19,404    | 37,460    | 6,243 | 4,364     | 2,953   | 678     | 3,812     | 368     |  |
|    | Total of Cantonments ...                                                       | ... | ... | ... | ... | 19,490    | 20,816    | 40,306    | 5,038 | 4,535     | 3,037   | 753     | 3,971     | 368     |  |
|    | Total of cases vaccinated by Medical Subordinates and Port Health Officers ... | ... | ... | ... | ... | 12,942    | 1,545     | 14,487    | ...   | 1,869     | 573     | 758     | 1,409     | 410     |  |
|    | Total of cases vaccinated by Dispensary staff ...                              | ... | ... | ... | ... | ...       | ...       | ...       | ...   | ...       | ...     | ...     | ...       | ...     |  |
|    | Total of cases performed under Railway administration ...                      | ... | ... | ... | ... | 9,160     | 2,048     | 11,208    | ...   | 2,111     | 855     | 942     | 1,919     | 38      |  |
|    | Grand total ...                                                                | ... | ... | ... | ... | 2,956,630 | 2,236,964 | 5,192,694 | 5,908 | 1,381,176 | 642,823 | 498,161 | 1,191,073 | 138,434 |  |

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\* One temporary vaccinator for five months.

Statement No. I showing the Particulars of Vaccination in the Madras Presidency for the official year 1934-35—cont.

| Number. | Municipalities.   | Re-vaccination. |       |       | (16)  | Percentage of successful cases in which the results were known. |          | (19)       | (20)    | (21)    | (22)  |                      |                 |
|---------|-------------------|-----------------|-------|-------|-------|-----------------------------------------------------------------|----------|------------|---------|---------|-------|----------------------|-----------------|
|         |                   | Total.          | (15)  | (14)  |       | Successful.                                                     | Unknown. |            |         |         |       | Primary vaccination. | Re-vaccination. |
|         |                   |                 |       |       |       |                                                                 |          |            |         |         |       |                      |                 |
|         |                   |                 |       |       |       |                                                                 |          |            |         |         |       |                      |                 |
| 61      | Srirangam ..      | 2,384           | 1,035 | 57    | 98.8  | 45.5                                                            | 68.6     | RS. A. P.  | 529 2 9 | 1,893   | 0 5 0 |                      |                 |
| 62      | Srivilliputtur .. | 1,523           | 415   | 345   | 99.0  | 35.2                                                            | 44.9     | 687 14 6   | 1,455   | 0 7 7   |       |                      |                 |
| 63      | Tadipatri ..      | 8,433           | 714   | 261   | 99.7  | 22.5                                                            | 88.7     | 477 0 0    | 1,120   | 0 6 10  |       |                      |                 |
| 64      | Tanjore ..        | 8,630           | 798   | 4,008 | 98.9  | 17.3                                                            | 43.7     | 2,173 3 0  | 2,923   | 0 11 11 |       |                      |                 |
| 65      | Tellicherry ..    | 3,158           | 698   | 471   | 99.6  | 26.0                                                            | 53.0     | 1,179 0 0  | 1,607   | 0 11 9  |       |                      |                 |
| 66      | Tenali ..         | 5,827           | 742   | 3,018 | 99.1  | 33.1                                                            | 54.3     | 1,069 8 8  | 1,878   | 0 9 1   |       |                      |                 |
| 67      | Tinnevely ..      | 5,664           | 2,054 | 351   | 98.3  | 38.7                                                            | 68.7     | 1,212 9 0  | 3,922   | 0 4 11  |       |                      |                 |
| 68      | Trichinopoly ..   | 17,836          | 5,114 | 3,059 | 98.1  | 35.8                                                            | 66.9     | 2,772 8 5  | 9,555   | 0 4 8   |       |                      |                 |
| 69      | Tirupati ..       | 8,738           | 1,165 | 672   | 100.0 | 37.9                                                            | 84.4     | 712 3 0    | 1,616   | 0 7 1   |       |                      |                 |
| 70      | Tirupattur ..     | 2,111           | 580   | ...   | 99.4  | 37.5                                                            | 82.4     | 509 6 10   | 1,508   | 0 5 5   |       |                      |                 |
| 71      | Tiruppur ..       | 1,892           | 103   | 1,189 | 96.8  | 14.7                                                            | 37.7     | 637 3 10   | 680     | 0 15 0  |       |                      |                 |
| 72      | Tiruvārur ..      | 5,332           | 2,271 | 608   | 99.4  | 48.1                                                            | 136.5    | 792 10 0   | 2,781   | 0 4 7   |       |                      |                 |
| 73      | Tiruvannamalai .. | 1,407           | 401   | ...   | 98.7  | 28.5                                                            | 46.9     | 535 4 0    | 1,301   | 0 6 7   |       |                      |                 |
| 74      | Tuticorin ..      | 14,814          | 2,353 | 2,049 | 98.8  | 19.2                                                            | 77.0     | 1,726 8 2  | 4,649   | 0 5 11  |       |                      |                 |
| 75      | Udumalpet ..      | 8,601           | 369   | 314   | 98.0  | 11.5                                                            | 74.2     | 618 6 9    | 904     | 0 11 6  |       |                      |                 |
| 76      | Vaniyambadi ..    | 1,016           | 376   | 44    | 100.0 | 38.7                                                            | 48.0     | 489 12 0   | 1,100   | 0 7 1   |       |                      |                 |
| 77      | Vellore ..        | 6,639           | 1,309 | 661   | 99.3  | 21.9                                                            | 62.7     | 1,212 10 8 | 3,590   | 0 5 5   |       |                      |                 |
| 78      | Villepuram ..     | 315             | 87    | ...   | 94.5  | 27.6                                                            | 32.1     | 557 13 6   | 786     | 0 11 4  |       |                      |                 |

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|    |                                                                                |           |         |         |       |      |      |               |           |        |
|----|--------------------------------------------------------------------------------|-----------|---------|---------|-------|------|------|---------------|-----------|--------|
| 79 | Virudhunagar ...                                                               | 1,302     | 227     | 149     | 98.9  | 19.7 | 41.0 | 708 14 0      | 1,357     | 0 8 4  |
| 80 | Visagapatam ...                                                                | 20,164    | 2,972   | 1,737   | 95.9  | 16.1 | 87.6 | 2,397 0 0     | 5,022     | 0 7 8  |
| 81 | Vizianagaram ...                                                               | 17,592    | 1,496   | 9,719   | 99.3  | 19.0 | 60.2 | 1,090 7 0     | 2,691     | 0 6 6  |
| 82 | Walsajpet ...                                                                  | 800       | 317     | 20      | 100.0 | 54.7 | 66.7 | 590 3 0       | 740       | 0 12 9 |
|    | Total of Municipalities ...                                                    | 574,624   | 141,723 | 94,403  | 98.9  | 20.5 | 90.0 | 1,09,733 4 8  | 276,624   | 0 6 4  |
| 1  | Bangalore ...                                                                  | 2,875     | 1,660   | ...     | 93.0  | 62.1 | ...  | 837 0 0       | 1,819     | 0 7 4  |
| 2  | Secunderabad ...                                                               | 83,207    | 7,479   | 12,867  | 95.4  | 38.8 | ...  | 4,466 8 8     | 11,291    | 0 6 4  |
|    | Total of Cantonnments ...                                                      | 35,862    | 9,139   | 12,867  | 95.3  | 39.7 | ...  | 5,303 8 8     | 13,110    | 0 6 6  |
|    | Total of cases vaccinated by Medical Subordinates and Port Health Officers ... | 12,618    | 6,114   | 1,165   | 96.6  | 53.4 | ...  | ...           | ...       | ...    |
|    | Total of cases vaccinated by Dispensary staff ...                              | ...       | ...     | ...     | ...   | ...  | ...  | ...           | ...       | ...    |
|    | Total of cases performed under Railway administration ...                      | 9,121     | 2,584   | 751     | 92.6  | 30.9 | ...  | ...           | ...       | ...    |
|    | Grand total ...                                                                | 3,842,744 | 828,435 | 729,736 | 95.5  | 26.5 | 44.1 | 7,26,400 13 6 | 2,005,482 | 10 5 9 |

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\* This excludes vaccination work done by Medical Subordinates and under Railway Administration.

† The average cost of each successful case was calculated on the total number of successful vaccinations performed by the special staff only, viz., Local Fund and Municipal Staff (Vide G.O. No. 1156, L., dated 4th Sep. 1911) and exclusive of Rs. 7(3-12-8 being the total amount of recoveries made for wastage of lymph.

Summary of Statement No. I.

|                                                      | Total number of persons vaccinated. |                 | Total number of operations performed. |                 | Percentage of successful cases in which the results were known. |                 | Average number of persons vaccinated by each vaccinator. |                 | Number of children successfully vaccinated. |      | Ratio of successful vaccinations per 1,000 of population. |      | Total cost of department. |       | Number of all successful vaccinations performed. |  | Average cost of each successful case. |     |
|------------------------------------------------------|-------------------------------------|-----------------|---------------------------------------|-----------------|-----------------------------------------------------------------|-----------------|----------------------------------------------------------|-----------------|---------------------------------------------|------|-----------------------------------------------------------|------|---------------------------|-------|--------------------------------------------------|--|---------------------------------------|-----|
|                                                      | Primary.                            | Re-vaccination. | Primary.                              | Re-vaccination. | Primary.                                                        | Re-vaccination. | Persons vaccinated by each vaccinator.                   | Under one year. | One year and under six years.               |      |                                                           |      | Rs.                       | A. P. |                                                  |  |                                       |     |
|                                                      |                                     |                 |                                       |                 |                                                                 |                 |                                                          |                 |                                             |      |                                                           |      |                           |       |                                                  |  |                                       |     |
| <i>By special staff.</i>                             |                                     |                 |                                       |                 |                                                                 |                 |                                                          |                 |                                             |      |                                                           |      |                           |       |                                                  |  |                                       |     |
| Districts excluding municipalities ...               | 1,304,559                           | 3,309,108       | 1,233,683                             | 3,210,489       | 95.0                                                            | 25.7            | 658                                                      | 513,947         | 459,445                                     | 40.7 | 6,11,364                                                  | 0 2  | 1,715,743                 | 0 5 8 |                                                  |  |                                       |     |
| Municipalities ...                                   | 138,405                             | 574,623         | 139,089                               | 574,624         | 98.9                                                            | 29.5            | 213                                                      | 94,413          | 86,263                                      | 90.0 | 1,09,733                                                  | 4 8  | 276,629                   | 0 6 4 |                                                  |  |                                       |     |
| Total ...                                            | 1,442,964                           | 3,783,729       | 1,372,661                             | 3,785,113       | 95.5                                                            | 26.3            | 871                                                      | 608,360         | 545,708                                     | 44.1 | 7,21,097                                                  | 4 10 | 1,992,372                 | 0 5 9 |                                                  |  |                                       | 144 |
| <i>By Military Cantonments ...</i>                   |                                     |                 |                                       |                 |                                                                 |                 |                                                          |                 |                                             |      |                                                           |      |                           |       |                                                  |  |                                       |     |
| By Medical Subordinates and Port Health Officers ... | 4,424                               | 35,933          | 4,535                                 | 35,883          | 95.3                                                            | 39.7            | 8                                                        | 8,087           | 758                                         | ...  | 5,303                                                     | 8 8  | 13,110                    | 0 6 6 |                                                  |  |                                       |     |
| By Railway Dispensaries ...                          | 1,869                               | 12,618          | 1,889                                 | 12,618          | 96.6                                                            | 53.4            | ...                                                      | 573             | 768                                         | ...  | ...                                                       | ...  | ...                       | ...   |                                                  |  |                                       |     |
| Total ...                                            | 2,087                               | 9,121           | 2,111                                 | 9,131           | 92.6                                                            | 30.9            | ...                                                      | 855             | 942                                         | ...  | ...                                                       | ...  | ...                       | ...   |                                                  |  |                                       |     |
|                                                      | 1,351,344                           | 3,541,350       | 1,381,176                             | 3,542,744       | 95.5                                                            | 26.5            | 979                                                      | 642,825         | 498,161                                     | 44.1 | 7,26,400                                                  | 13 6 | 2,005,482                 | 0 5 9 |                                                  |  |                                       |     |

\* Cost not furnished.

Statement No. II showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in the Madras Presidency in each of the undermentioned years.

| (1)                        | Persons primarily vaccinated in the Madras Presidency. |                                 |               |                                 |               |                                 |               |                                 |               |                                 |  |
|----------------------------|--------------------------------------------------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|--|
|                            | 1925-1926.                                             |                                 | 1926-1927.    |                                 | 1927-1928.    |                                 | 1928-1929.    |                                 | 1929-1930.    |                                 |  |
|                            | Total number.                                          | Number successfully vaccinated. | Total number. | Number successfully vaccinated. | Total number. | Number successfully vaccinated. | Total number. | Number successfully vaccinated. | Total number. | Number successfully vaccinated. |  |
| Government vaccinators ... | 24,264                                                 | 22,270                          | 30,065        | 26,610                          | 33,869        | 30,651                          | 26,898        | 23,313                          | 26,588        | 23,894                          |  |
| Local Fund do. ...         | 1,248,458                                              | 1,167,748                       | 1,240,915     | 1,156,949                       | 1,281,914     | 1,195,591                       | 1,255,427     | 1,164,580                       | 1,270,244     | 1,165,405                       |  |
| Cantonment do. ...         | 5,264                                                  | 5,320                           | 6,282         | 6,230                           | 5,749         | 5,674                           | 5,977         | 5,877                           | 5,966         | 5,600                           |  |
| Municipal do. ...          | 115,486                                                | 115,099                         | 123,535       | 122,008                         | 118,443       | 118,038                         | 118,284       | 116,817                         | 120,176       | 117,136                         |  |
| Dispensaries ...           | ...                                                    | ...                             | 749           | 711                             | 129           | 125                             | 1,054         | 1,027                           | 1,857         | 1,842                           |  |
| Medical subordinates ...   | 576                                                    | 423                             | 2,658         | 2,239                           | 2,011         | 2,003                           | 686           | 441                             | 110           | 101                             |  |
| Railways ...               | ...                                                    | ...                             | ...           | ...                             | ...           | ...                             | 4,624         | 4,561                           | 688           | 625                             |  |
| Total ...                  | 1,394,083                                              | 1,310,860                       | 1,403,194     | 1,314,747                       | 1,442,115     | 1,352,082                       | 1,412,445     | 1,316,616                       | 1,425,624     | 1,314,808                       |  |

Statement No. II showing the Number of Persons primarily vaccinated and the Number of those Persons who were successfully vaccinated in the Madras Presidency in each of the undermentioned years—cont.

|                           | Persons primarily vaccinated in the Madras Presidency—cont. |                                 |               |                                 |               |                                 |               |                                 |               |                                 |
|---------------------------|-------------------------------------------------------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|
|                           | 1930-1931.                                                  |                                 | 1931-1932.    |                                 | 1932-1933.    |                                 | 1933-1934.    |                                 | 1934-1935.    |                                 |
|                           | (12)                                                        | (13)                            | (14)          | (15)                            | (16)          | (17)                            | (18)          | (19)                            | (20)          | (21)                            |
|                           | Total number.                                               | Number successfully vaccinated. | Total number. | Number successfully vaccinated. | Total number. | Number successfully vaccinated. | Total number. | Number successfully vaccinated. | Total number. | Number successfully vaccinated. |
| Government vaccinators .. | 23,809                                                      | 21,431                          | 26,459        | 24,574                          | 31,180        | 28,118                          | 80,822        | 26,415                          | 29,681        | 24,102                          |
| Local Fund do. ..         | 1,257,794                                                   | 1,162,678                       | 1,343,229     | 1,225,234                       | 1,238,161     | 1,127,363                       | 1,113,453     | 961,421                         | 1,203,881     | 1,024,786                       |
| Cantonment do. ..         | 5,346                                                       | 4,950                           | 6,172         | 5,465                           | 5,473         | 5,114                           | 6,783         | 6,286                           | 4,535         | 3,971                           |
| Municipal do. ..          | 122,184                                                     | 119,372                         | 129,593       | 127,430                         | 133,177       | 131,112                         | 144,773       | 141,093                         | 139,099       | 134,906                         |
| Dispensaries ..           | 983                                                         | 950                             | 989           | 988                             | 745           | 740                             | ...           | ...                             | ...           | ...                             |
| Medical subordinates ..   | 262                                                         | 247                             | 244           | 186                             | 193           | 109                             | 109           | 107                             | 1,869         | 1,409                           |
| Railways ..               | 1,345                                                       | 1,303                           | 1,328         | 1,274                           | 2,808         | 2,653                           | 1,869         | 1,769                           | 2,111         | 1,919                           |
| Total ..                  | 1,411,723                                                   | 1,311,491                       | 1,508,024     | 1,385,151                       | 1,406,717     | 1,395,209                       | 1,297,829     | 1,137,091                       | 1,381,176     | 1,191,073                       |

Statement No. III showing the Number of Vaccinations performed in Municipal Towns on Children under One Year of Age (G.O. Ms. No. 1534 L., dated 6th December 1909).

| Municipalities.   | Number of births available for vaccination during the year 1934-35. | Number of deaths amongst children under one year during the year. | Number of successful vaccinations on children under one year during the year ending March 1935. | Percentage of infantile vaccination to total births. |          |
|-------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------|----------|
|                   |                                                                     |                                                                   |                                                                                                 | 1933-34.                                             | 1934-35. |
|                   |                                                                     |                                                                   |                                                                                                 |                                                      |          |
| Adoni ..          | 1,512                                                               | 190                                                               | 764                                                                                             | 76.7                                                 | 71.4     |
| Anakāpalle ..     | 1,053                                                               | 181                                                               | 488                                                                                             | 27.3                                                 | 35.2     |
| Anantapur ..      | 813                                                                 | 55                                                                | 220                                                                                             | 60.9                                                 | 64.6     |
| Bellary ..        | 1,933                                                               | 386                                                               | 1,085                                                                                           | 80.9                                                 | 80.9     |
| Berhampur ..      | 1,354                                                               | 226                                                               | 523                                                                                             | 64.9                                                 | 53.0     |
| Bewada ..         | 2,840                                                               | 838                                                               | 581                                                                                             | 35.0                                                 | 38.2     |
| Bimlipatam ..     | 398                                                                 | 76                                                                | 248                                                                                             | 64.5                                                 | 62.8     |
| Bodinayakkanūr .. | 1,815                                                               | 189                                                               | 970                                                                                             | 90.4                                                 | 95.6     |
| Calicut ..        | 1,375                                                               | 420                                                               | 2,138                                                                                           | 48.0                                                 | 44.6     |
| Changanore ..     | 1,287                                                               | 195                                                               | 591                                                                                             | 45.3                                                 | 45.9     |
| Chinnole ..       | 838                                                                 | 125                                                               | 212                                                                                             | 63.3                                                 | 50.0     |
| Chidambaram ..    | 960                                                                 | 174                                                               | 401                                                                                             | 47.0                                                 | 47.4     |
| Chingleput ..     | 787                                                                 | 157                                                               | 298                                                                                             | 52.4                                                 | 51.3     |
| Chirala ..        | 870                                                                 | 107                                                               | 878                                                                                             | 48.8                                                 | 46.3     |
| Chittoor ..       | 903                                                                 | 115                                                               | 822                                                                                             | 25.9                                                 | 46.8     |
| Cocanada ..       | 2,082                                                               | 337                                                               | 761                                                                                             | 57.0                                                 | 70.0     |
| Cochin ..         | 909                                                                 | 103                                                               | 682                                                                                             | 77.2                                                 | 73.8     |
| Coimbatore ..     | 3,689                                                               | 686                                                               | 1,846                                                                                           | 52.6                                                 | 67.5     |
| Conjeeveram ..    | 4,599                                                               | 334                                                               | 3,115                                                                                           | 64.8                                                 | 70.6     |
| Coonoor ..        | 476                                                                 | 90                                                                | 250                                                                                             | 78.3                                                 | 63.8     |
| Cuddalore ..      | 2,229                                                               | 411                                                               | 1,124                                                                                           | 49.2                                                 | 50.2     |
| Cuddapah ..       | 1,143                                                               | 147                                                               | 464                                                                                             | 28.0                                                 | 58.0     |
| Dhārāpuram ..     | 702                                                                 | 87                                                                | 404                                                                                             | 69.5                                                 | 78.5     |
| Dindigul ..       | 1,850                                                               | 284                                                               | 1,314                                                                                           | 88.1                                                 | 75.2     |
| Ellore ..         | 2,026                                                               | 456                                                               | 871                                                                                             | 60.7                                                 | 66.5     |
| Erode ..          | 931                                                                 | 105                                                               | 459                                                                                             | 58.6                                                 | 72.7     |
| Gadagattam ..     | 883                                                                 | 96                                                                | 435                                                                                             | 60.1                                                 | 76.6     |
| Gopur ..          | 2,829                                                               | 404                                                               | 626                                                                                             | 49.2                                                 | 43.9     |
| Hindupur ..       | 650                                                                 | 69                                                                | 296                                                                                             | 81.4                                                 | 78.4     |
| Hospet ..         | 971                                                                 | 146                                                               | 713                                                                                             | 80.8                                                 | 82.7     |
| Karaiikudi ..     | 646                                                                 | 100                                                               | 189                                                                                             | 75.5                                                 | 30.0     |
| Karūr ..          | 655                                                                 | 112                                                               | 383                                                                                             | 60.3                                                 | 50.0     |
| Kodaikanal ..     | 307                                                                 | 65                                                                | 203                                                                                             | 97.0                                                 | 98.8     |
| Kumbakonam ..     | 2,325                                                               | 367                                                               | 993                                                                                             | 50.0                                                 | 42.7     |
| Kurnool ..        | 705                                                                 | 219                                                               | 493                                                                                             | 60.0                                                 | 70.0     |
| Madras ..         | 28,296                                                              | 4,048                                                             | 13,541                                                                                          | 74.0                                                 | 72.7     |
| Madura ..         | 6,774                                                               | 1,861                                                             | 3,114                                                                                           | 46.9                                                 | 51.8     |
| Mangalore ..      | 2,472                                                               | 198                                                               | 2,052                                                                                           | 88.9                                                 | 83.4     |
| Mannārgudi ..     | 962                                                                 | 189                                                               | 415                                                                                             | 50.8                                                 | 44.4     |
| Masulipatam ..    | 3,113                                                               | 685                                                               | 1,339                                                                                           | 38.5                                                 | 46.1     |
| Māyavaram ..      | 1,008                                                               | 195                                                               | 443                                                                                             | 46.3                                                 | 47.8     |
| Nandyal ..        | 934                                                                 | 146                                                               | 466                                                                                             | 70.9                                                 | 68.7     |
| Narasaraopet ..   | 574                                                                 | 163                                                               | 232                                                                                             | 55.8                                                 | 59.5     |
| Negapatam ..      | 1,644                                                               | 296                                                               | 908                                                                                             | 85.4                                                 | 85.7     |
| Nellore ..        | 1,912                                                               | 267                                                               | 729                                                                                             | 46.7                                                 | 49.9     |
| Ongole ..         | 779                                                                 | 109                                                               | 376                                                                                             | 53.8                                                 | 59.8     |
| Ootacamund ..     | 992                                                                 | 174                                                               | 617                                                                                             | 70.8                                                 | 66.1     |
| Palacole ..       | 489                                                                 | 117                                                               | 250                                                                                             | 31.2                                                 | 51.0     |
| Palamcottah ..    | 2,170                                                               | 590                                                               | 963                                                                                             | 78.1                                                 | 77.2     |
| Palghat ..        | 1,980                                                               | 444                                                               | 823                                                                                             | 39.0                                                 | 45.0     |

Statement No. III showing the Number of Vaccinations performed in Municipal Towns on Children under One Year of Age (G.O. Ms. No. 1534 L., dated 6th December 1909)—cont.

| Municipalities.    | Number of births available for vaccination during the year 1934-35. | Number of deaths amongst children under one year during the year. | Number of successful vaccinations on children under one year during the year ending March 1935. | Percentage of infantile vaccination to total births. |          |
|--------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------|----------|
|                    |                                                                     |                                                                   |                                                                                                 | 1933-34.                                             | 1934-35. |
| Palni ...          | 645                                                                 | 131                                                               | 679                                                                                             | 78.5                                                 | 91.8     |
| Parlakimedi ...    | 681                                                                 | 105                                                               | 206                                                                                             | 92.1                                                 | 52.9     |
| Peddāpuram ...     | 659                                                                 | 68                                                                | 312                                                                                             | 67.6                                                 | 56.8     |
| Periyakulam ...    | 1,032                                                               | 199                                                               | 639                                                                                             | 77.6                                                 | 86.5     |
| Pollachi ...       | 941                                                                 | 162                                                               | 498                                                                                             | 59.3                                                 | 59.4     |
| Proddatur ...      | 923                                                                 | 111                                                               | 612                                                                                             | 67.2                                                 | 69.3     |
| Rajahmundry ...    | 2,739                                                               | 747                                                               | 1,179                                                                                           | 57.2                                                 | 52.2     |
| Saidapet ...       | 1,235                                                               | 170                                                               | 891                                                                                             | 65.7                                                 | 73.0     |
| Salem ...          | 3,790                                                               | 547                                                               | 2,441                                                                                           | 65.1                                                 | 79.0     |
| Sivakāsi ...       | 481                                                                 | 78                                                                | 330                                                                                             | 65.0                                                 | 75.0     |
| Srirangam ...      | 793                                                                 | 159                                                               | 398                                                                                             | 84.1                                                 | 88.5     |
| Srivilliputtur ... | 1,898                                                               | 224                                                               | 773                                                                                             | 62.0                                                 | 61.0     |
| Tadpatri ...       | 548                                                                 | 62                                                                | 207                                                                                             | 78.2                                                 | 66.5     |
| Tanjore ...        | 3,132                                                               | 494                                                               | 1,023                                                                                           | 32.4                                                 | 44.8     |
| Tellicherry ...    | 980                                                                 | 163                                                               | 534                                                                                             | 60.5                                                 | 54.6     |
| Tenali ...         | 588                                                                 | 131                                                               | 264                                                                                             | 32.2                                                 | 68.5     |
| Tinnevely ...      | 2,407                                                               | 797                                                               | 729                                                                                             | 30.8                                                 | 32.2     |
| Trichinopoly ...   | 4,653                                                               | 696                                                               | 2,286                                                                                           | 61.8                                                 | 61.1     |
| Tirupati ...       | 651                                                                 | 101                                                               | 321                                                                                             | 66.6                                                 | 56.1     |
| Tirupattūr ...     | 786                                                                 | 82                                                                | 485                                                                                             | 76.6                                                 | 54.7     |
| Tiruppur ...       | 733                                                                 | 61                                                                | 389                                                                                             | 29.0                                                 | 44.0     |
| Tiruvārūr ...      | 671                                                                 | 182                                                               | 249                                                                                             | 56.6                                                 | 56.0     |
| Tiruvannāmalai ... | 1,148                                                               | 162                                                               | 537                                                                                             | 44.3                                                 | 47.8     |
| Tuticorin ...      | 2,456                                                               | 525                                                               | 1,271                                                                                           | 57.0                                                 | 58.0     |
| Udamalpet ...      | 457                                                                 | 108                                                               | 242                                                                                             | 48.0                                                 | 53.9     |
| Vaniyambādi ...    | 782                                                                 | 146                                                               | 381                                                                                             | 80.0                                                 | 63.7     |
| Vellore ...        | 3,172                                                               | 475                                                               | 1,649                                                                                           | 51.6                                                 | 61.3     |
| Villupuram ...     | 629                                                                 | 105                                                               | 243                                                                                             | 36.5                                                 | 72.5     |
| Virudhanagar ...   | 1,671                                                               | 170                                                               | 904                                                                                             | 57.8                                                 | 52.8     |
| Vizagapatam ...    | 3,003                                                               | 424                                                               | 990                                                                                             | 49.7                                                 | 51.8     |
| Vizianagaram ...   | 1,957                                                               | 353                                                               | 1,033                                                                                           | 50.8                                                 | 58.4     |
| Walajapet ...      | 439                                                                 | 69                                                                | 250                                                                                             | 51.7                                                 | 57.0     |

Statement No. IV—Comparative Statement showing Infantile Vaccination in Districts for 1933-34 and 1934-35.

| Districts.             | Percentage of infantile vaccination to total births registered. |          | Increase or decrease. | Districts.            | Percentage of infantile vaccination to total births registered. |          | Increase or decrease. |
|------------------------|-----------------------------------------------------------------|----------|-----------------------|-----------------------|-----------------------------------------------------------------|----------|-----------------------|
|                        | 1933-34.                                                        | 1934-35. |                       |                       | 1933-34.                                                        | 1934-35. |                       |
| 1. Anantapur ...       | 37.7                                                            | 42.8     | +5.1                  | 14. Kurnool ...       | 28.6                                                            | 41.7     | +13.1                 |
| 2. Arcot, North ...    | 43.5                                                            | 41.0     | -2.5                  | 15. Madnra ...        | 60.6                                                            | 63.8     | +3.0                  |
| 3. Arcot, South ...    | 44.6                                                            | 36.0     | -8.6                  | 16. Malabar ...       | 47.0                                                            | 42.2     | -4.8                  |
| 4. Bellary ...         | 37.2                                                            | 49.2     | +12.0                 | 17. Nellore ...       | 28.5                                                            | 25.2     | -1.3                  |
| 5. Chingleput ...      | 35.0                                                            | 36.0     | +1.0                  | 18. Nilgiris, The ... | 54.0                                                            | 60.6     | +6.6                  |
| 6. Chittoor ...        | 43.4                                                            | 45.7     | +2.3                  | 19. Ramnad ...        | 23.6                                                            | 24.5     | +0.9                  |
| 7. Coimbatore ...      | 43.7                                                            | 45.3     | +1.6                  | 20. Salem ...         | 31.2                                                            | 34.9     | +3.7                  |
| 8. Cuddapah ...        | 31.5                                                            | 28.8     | -2.7                  | 21. South Kanara ...  | 33.2                                                            | 29.9     | -3.3                  |
| 9. Ganjām ...          | 29.1                                                            | 31.2     | +2.1                  | 22. Tanjore ...       | 18.0                                                            | 18.5     | +0.5                  |
| 10. Godāvari, East ... | 25.0                                                            | 32.2     | +7.2                  | 23. Tinnevely ...     | 45.7                                                            | 46.4     | +0.7                  |
| 11. Godāvari, West ... | 32.3                                                            | 46.7     | +14.4                 | 24. Trichinopoly ...  | 38.9                                                            | 36.8     | -2.1                  |
| 12. Guntūr ...         | 26.5                                                            | 30.8     | +4.3                  | 25. Vizagapatam ...   | 31.1                                                            | 29.4     | -1.7                  |
| 13. Kistna ...         | 19.2                                                            | 29.7     | +10.5                 |                       |                                                                 |          |                       |

# FORTY-FIFTH ANNUAL REPORT OF THE SANITARY ENGINEER TO THE GOVERNMENT OF MADRAS, FOR THE YEAR 1934.

During the year under review, water-supply installations in two more municipalities, viz., (1) Rajahmundry and (2) Tiruvannamalai were completed and brought into operation. Thus the total number of municipal towns possessing protected water-supply systems increased from 39 to 41.

2. The municipalities of Ootacamund, Vellore and Madura continued to enjoy the benefits of underground drainage schemes. The work connected with Salem drainage (intercepting sewers) was completed by the Public Works Department and handed over to the municipality. The execution of Bezwada drainage works was in progress. Piecemeal execution of drainage schemes was also being carried out at Salem and Tirupati (1st instalment) by the respective municipal agency.

3. The following water-supply and drainage schemes were under execution by the Public Works Department during the year:—

| Name of work.                                                                            | Cost of scheme. | Expenditure to end of December 1934. |
|------------------------------------------------------------------------------------------|-----------------|--------------------------------------|
| <i>Water-supply.</i>                                                                     |                 |                                      |
|                                                                                          | Rs.             | Rs.                                  |
| (1) Anantapur water works extensions ...                                                 | 10,570          | 478                                  |
| (2) Arkonam water-supply ...                                                             | 1,92,400        | 3,095                                |
| (3) Bezwada water works improvements ...                                                 | 71,000          | 65,322                               |
| (4) Coimbatore water works ...                                                           | 46,41,650       | 44,48,878                            |
| (5) Nellore water works improvements ...                                                 | 96,000          | 38,070                               |
| (6) Palacole water-supply—                                                               |                 |                                      |
| Original estimate ...                                                                    | 3,60,000        | 4,01,774                             |
| Revised estimate ...                                                                     | 422,500         |                                      |
| (7) (a) Proddatur water works—original estimate.                                         | 1,97,300        | 1,80,344                             |
| (b) Proddatur water-works—construction of service reservoir and extension of pipe lines. | 32,585          | 6,884                                |
| (8) Rajahmundry water-supply—                                                            |                 |                                      |
| Original estimate ...                                                                    | 10,16,000       | 6,24,418                             |
| Revised estimate ...                                                                     | 6,22,985        |                                      |
| (9) Saidapet water-supply—                                                               |                 |                                      |
| Original estimate ...                                                                    | 2,90,700        | 2,46,353                             |
| Revised estimate ...                                                                     | 3,05,000        |                                      |
| (10) Tiruvannamalai water-supply ...                                                     | 3,47,900        | 2,94,690                             |
| (11) Virudhunagar water-supply ...                                                       | 7,26,000        | 56,609                               |
| (12) Walajapet water-supply ...                                                          | 96,870          | 157                                  |
| <i>Drainage.</i>                                                                         |                 |                                      |
| (13) Bezwada drainage ...                                                                | 7,54,800        | 3,31,933                             |
| (14) Salem drainage scheme (intercepting sewers).                                        | 2,29,500        | 1,87,079                             |

The progress of work done on these schemes is as below—

(1) *Anantapur Water Works Extensions.*—The works comprise of extension of pipe line to northern half of Georgepet and to the Police lines at Anantapur. Pipes and specials required for the work were being obtained.

(2) *Arkonam Water-supply.*—Test borings at site of infiltration well, gallery and suction well were put down. Site required for the headworks was acquired.

(3) *Bezwada Water-Works Improvements.*—The work was completed with the exception of provision of an overhead pulley for the engine house.

(4) *Coimbatore Water-works.*—The execution of the whole scheme by the Public Works Department was completed and handed over to the municipality on 31st March 1934.

(5) *Nellore Water-works Improvements.*—The infiltration wells Nos. 1 and 2 and suction well have been completed. Pipe connections from pump pits to suction well and syphon connections to wells were also finished. Certain defects in the syphon pipe connections pointed out by the Sanitary Engineer have to be attended to. The installation of electrical pumping plant was taken on hand and a portion of infiltration works yet remains to be executed.

(6) *Palacole Water-supply.*—The work on the scheme as per original estimate of Rs. 3,60,000 was already completed in 1933 by the Public Works Department. The following further works since sanctioned and included in the revised estimate for Rs. 4,22,500 await to be taken up on receipt of contribution from the municipality.

Improvements to the coagulating tank by providing frog walls and providing a sludge pump and other minor items.

(7) *Proddatur Water-works.*—The main scheme was completed by the end of March 1934. Works connected with the construction of a R.C. service reservoir and extension of pipe lines to Modamidapalli which form a supplement to the original scheme were in progress.

(8) *Rajahmundry Water-supply.*—The works connected with this scheme were completed and handed over to the municipality in February 1934.

(9) *Saidapet Water-supply.*—Works connected with the infiltration gallery and engine drivers quarters have been completed. Approach road has been formed except for about 150 feet at the head works. Laying of pumping main and distribution system and the collection of materials for the service reservoir was in progress.

(10) *Tiruvannamalai Water-supply.*—The scheme has been completed during the year and handed over to the municipality in June 1934.

(11) *Virudhunagar Water-supply.*—The works connected with infiltration gallery, barrage wall and suction well, quarters for pumping station staff have been completed. A roadway from head works to Virudhunagar-Sivakasi road was also made. Minor works such as fencing the compound at the headworks were in progress.

(12) *Walajapet Water-supply.*—Arrangements were made for acquiring the land for headworks site and service reservoir.

(13) *Bezawada Drainage Scheme*.—Works relating to open drains in blocks 1 and 2, hill drain No. 2, Islampet drain, 1st and 4th reaches were finished. Hill drain No. 3, portion in the plains and catch drain were also completed. The works that remained yet to be taken up were engine and pump house, laying of sewage pumping main, acquisition and laying out of sewage farm, septic tanks, installation of motor and pumps, hill drain No. 4 and construction of some more drains in block 1.

(14) *Salem Drainage Scheme (Intercepting sewers)*.—The work has been finished and handed over to the municipality.

4. The following works were under execution by the Municipal Councils through their own agency under the control and supervision of this department:—

| Name of works.                                                                                       | Estimated cost.<br>Rs. | Expenditure.<br>Rs. |
|------------------------------------------------------------------------------------------------------|------------------------|---------------------|
| (1) Guntūr water works improvements ...                                                              | 65,700                 | 30,603              |
| (2) Vizagapatam water-supply extension of water-supply to Dondaparti and Railway colony.             | 37,400                 | 33,803              |
| (3) Vizagapatam water-works improvements (augmentation of water-supply for supply to Harbour, etc.)— |                        |                     |
| Original estimate ...                                                                                | 98,500                 | 1,02,500            |
| Revised estimate ...                                                                                 | 1,02,655               | (work completed)    |
| (4) Kumbakonam water-works improvements                                                              | 69,200                 | 57,127              |
| (5) Masulipatam water-supply extensions ...                                                          | 87,200                 | 34,306              |
| (6) Coimbatore water-supply—Extension of pipe line.                                                  | 56,800                 | 51,659              |
| (7) Vellore water-works improvements ...                                                             | 1,62,330               | 1,39,689            |
| (8) Adoni water-works improvements to catchment area.                                                | 8,100                  | 7,496               |
| (9) Salem drainage scheme—Piecemeal construction.                                                    | 5,45,000               | 13,540              |
| (10) Tirupati drainage scheme—Piecemeal construction.                                                | 3,56,500               | 15,108              |
| (11) Negapatam water-supply—Extension of pipe lines.                                                 | 14,983                 | 12,748              |
| (12) Chodavaram water-supply ...                                                                     | 46,900                 |                     |

The execution of this scheme has been recently transferred

to the Vizagapatam District Board in G.O. Ms. No. 2294, P.H., dated 2nd October 1934, from the Public Works Department.

5. Detailed plans and estimates for the following water-supply and drainage works were prepared and sent by this office to the respective authorities concerned during the year:—

| Name of work.                         | Estimated cost.<br>Rs. |
|---------------------------------------|------------------------|
| Cocanada water-works improvements ... | 1,79,400               |
| Peddapuram water-supply scheme ...    | 95,500                 |
| Pennukonda water-supply scheme ...    | 49,950                 |
| Bellary drainage (key scheme) ...     | 4,26,250               |
| Negapatam drainage (key scheme) ...   | 6,30,000               |

|                                                                                       | Estimated cost.<br>Rs. |
|---------------------------------------------------------------------------------------|------------------------|
| Rajahmundry drainage (key scheme) ...                                                 | 2,68,000               |
| Water-supply to headquarters buildings ...                                            | 17,250                 |
| Water-supply and drainage to Headquarters Hospital and St. Joseph's Hospital, Guntur. | 19,450                 |
| Extension of water-supply to high level areas in Guntūr.                              | 41,500                 |
|                                                                                       | 44,900                 |

6. The preparation of plans and estimates for the undermentioned schemes was in progress in this office during the year—

By the ordinary staff of the office—

| Name of scheme.                            | Cost.<br>Rs. |
|--------------------------------------------|--------------|
| Trichinopoly drainage ...                  | 15,50,000    |
| Karur water-supply ...                     | 3,60,000     |
| Sembiem water-supply ...                   | 1,25,000*    |
| Tiruppur water-supply (cheap scheme) ...   | 2,20,500     |
| Madanapalle drainage ...                   | 99,700       |
| Kodaikanal drainage ...                    | 69,000       |
| Tirumani Leper Settlement water-supply ... | 1,22,000     |

By special staff—

|                          |          |
|--------------------------|----------|
| Cochin drainage ...      | 3,00,000 |
| Kurnool drainage ...     | 5,76,300 |
| Vizianagram drainage ... | 8,12,000 |

In addition to the above, approximate estimates were also prepared and furnished for the following works:—

|                                                         |            |
|---------------------------------------------------------|------------|
| Coimbatore Municipality—Headquarters hospital drainage. | Rs. 18,000 |
| Drainage arrangements to Government House, Guindy.      | 14,800     |

Temporary water-supply to Karaikudi at a cost of Rs. 33,800 was scrutinized and sanctioned for execution by the Municipal agency.

7. The preparation of plans and estimates for the schemes mentioned below could not be taken up for want of staff or other causes:—

|                                  |                        |
|----------------------------------|------------------------|
| Pollachi water-supply.           | Tenali drainage.       |
| Guntūr water-works improvements. | Palni drainage.        |
| Tuticorin drainage.              | Virudhunagar drainage. |
|                                  | Ellore drainage.       |

8. Construction of experimental well and a full power test were carried out for Adōni water-supply improvements scheme. Estimated cost Rs. 5,300.

9. Preliminary investigations were on hand or were completed for the following schemes:—

|                                                                                 |                                                         |
|---------------------------------------------------------------------------------|---------------------------------------------------------|
| (1) Bodinayakanur water-supply.                                                 | (4) Trichinopoly drainage investigation.                |
| (2) Dharapuram drainage.                                                        | (5) Cuddapah water-supply improvements (Pennar scheme). |
| (3) Bezawada water-works investigation (Re-arrangement of distribution system.) | (6) Tenali drainage. (Further investigation.)           |
|                                                                                 | (7) Karur drainage.                                     |

\* Since sent to Government.

10. Reports on the investigations already carried out by the Deputy Sanitary Engineers for Ellore drainage, Dindigul drainage, Karaikudi drainage, Bodinayakanur water-supply and Gudiyattam water-works improvements were under scrutiny in this office and reports on investigation for Udampalpet water-supply and Mettupalaiyam water-supply were sent to Government.

11. *Cumbum Water-supply Investigation*.—This investigation has not been taken up pending consideration of the question of a combined water-supply for Cumbum and certain adjoining villages.

*Dhanushkodi Water-supply Investigation*.—This investigation has been dropped in G.O. Ms. No. 1102, P.H., dated 24th April 1934.

12. A statement of estimates for sanitary works sent by local bodies and scrutinized and sanctioned by the Sanitary Engineer or Deputy Sanitary Engineers during the year under review is attached. Seventy-eight estimates aggregating to Rs. 6,15,628 were dealt with during the year as compared with 55 estimates amounting in all to Rs. 4,18,470 in the previous year.

Besides the above work, a number of estimates relating to sanitary works for Government buildings both in the City of Madras and mufassal received from the Executive Engineers concerned were scrutinized and approved by this department during the year as usual.

13. A detailed statement of sanitary works carried out by local bodies themselves based on type-designs of the Public Health Board is also attached.

14. The staff of the King Institute, Guindy, continued to carry out the periodical analyses of the protected water-supplies in the Presidency and to communicate the results to this department and the local bodies concerned. Suitable advice thereon was given by this department to the local bodies to improve the quality of water wherever necessary.

15. Sanitary works under execution by the Public Works Department were inspected by the Sanitary Engineer and necessary advice given on the issues raised by the respective Executive Engineers. Sanitary works under execution by the local bodies through their own agencies subject to grant or loan or both and supervision by this department were inspected either by the Deputy Sanitary Engineer of the circle concerned or Sanitary Engineer and necessary help rendered to complete the works satisfactorily.

16. The water-supply and drainage works in operation in the Presidency were inspected by the Sanitary Engineer and his deputies as far as practicable and advice given for rectifying defects and improvements suggested where necessary in the management and maintenance of these works.

17. The Boiler Inspection Department continued to inspect the pumping machinery relating to water-supply and drainage works and to assist the Sanitary Engineer by way of furnishing particulars of running and capital costs for oil-engines and electric pumping sets and specifications for pumping sets, with dimensioned sketches of engine houses, and examining tenders, etc., for pumping plants for new water-supply and drainage schemes. A brief report on the working of the pumping plants

of the local bodies in the Presidency, etc., is attached together with a statement of pumping particulars as appendix to this report.

18. *Experiments on Water Purification*.—Several new experiments on water purification such as experiments on Jewell Carbon, Polarite and Catadine-sand were carried out during the year at the Experimental Filter Stations at Kilpauk and Guindy under the supervision of the Sanitary Engineer and the Director, King Institute. These experiments are detailed in the annual report of the King Institute.

19. The maintenance of the Engineering College Sewage Disposal works at Guindy, continued to be under the supervision of this department.

20. An examination for the grant of certificates to engine-drivers and water-works fitters was held during the year in January 1934 in the Public Works Workshops, Madras, by the Board of Examiners with the Sanitary Engineer to Government as its President.

The following comparative statement gives the different classes of certificates issued as compared with the results in the previous year :—

|                        |     | 1934. | 1935. |                             |     | 1934. | 1935. |
|------------------------|-----|-------|-------|-----------------------------|-----|-------|-------|
| <i>Engine Drivers—</i> |     |       |       | <i>Water-works Fitters—</i> |     |       |       |
| <i>Competency</i>      | ... | 62    | 53    | Head water-works            |     |       |       |
| <i>Service</i>         | ... | 90    | 60    | fitters                     | ... | 6     | 7     |
|                        |     |       |       | Pipe line fitters           | ... | 12    | 14    |

21. I continued as Sanitary Engineer throughout the year under report.

Mr. Muhammad Howth continued as Deputy Sanitary Engineer in charge of the southern circle.

Mr. A. V. Raman was in charge of the northern circle till 18th September 1934 and I held additional charge of the circle during the rest of the year.

Mr. C. V. Gupta, Instructor, continued to be in charge of the classes in Elementary Sanitary Engineering for Health Officers and Health and Sanitary Inspectors at the Medical College, Madras, as in the previous year.

The Boiler Inspection staff continued to work under the administrative control of this office and Mr. J. L. Thompson continued as Chief Inspector of Boilers during the year assisted by the Inspectors of Boilers of five circles.

22. *General*.—The policy of the Government in permitting the local bodies to execute water-supply and drainage schemes through their own agencies under the control and supervision of this department is inherently successful. This is evident from the instance of the Vellore water-supply improvements scheme (estimated cost of Rs. 1,62,330) which the municipality carried out to completion successfully, wholeheartedly availing the expert advice and control of this department. If all the local bodies follow this example and this department is adequately reinforced to render them necessary help and exercise proper supervision and control over their agencies for execution, the policy should result in enormous saving in expenditure rapid improvements and other benefits to these bodies and the Government. Some local bodies however seek the assistance of this

department until their works are sanctioned for execution. But during execution they ignore the expert advice necessary for their satisfactory completion. Such attitude not only handicaps this department with unnecessary correspondence and work but also acts as a set back for a beneficial policy of the Government. This difficulty should disappear in time as the Municipal Engineering service is provincialized and local bodies begin to appreciate the rapid success of the policy.

31st July 1935.

G. V. RAO,  
Sanitary Engineer to Government.

#### ANNEXURE A.

Statement showing the Number and Aggregate Estimated Cost of Sanitary Works prepared by Local Bodies and sanctioned or recommended for sanction by the Sanitary or Deputy Sanitary Engineers in 1934.

| Particulars.             | Medical institutions. |         | Markets and slaughter-houses. |         | Latrines. |         | Water-supply. |          | Drainage. |         | Miscellaneous. |         |
|--------------------------|-----------------------|---------|-------------------------------|---------|-----------|---------|---------------|----------|-----------|---------|----------------|---------|
|                          | No.                   | Amount. | No.                           | Amount. | No.       | Amount. | No.           | Amount.  | No.       | Amount. | No.            | Amount. |
|                          | Rs.                   | Rs.     | Rs.                           | Rs.     | Rs.       | Rs.     | Rs.           | Rs.      | Rs.       | Rs.     | Rs.            | Rs.     |
| Below Rs. 2,500 ...      | 1                     | 1,425   | 2                             | 3,470   | 1         | 520     | 35            | 26,424   | 8         | 7,260   | ...            | ...     |
| Rs. 2,500 to 10,000 ...  | ...                   | ...     | 6                             | 26,350  | ...       | ...     | 10            | 49,760   | 3         | 14,590  | 2              | 11,129  |
| Rs. 10,000 to 50,000 ... | ...                   | ...     | ...                           | ...     | ...       | ...     | 7             | 2,17,050 | 1         | 21,250  | 1              | 18,900  |
| Above Rs. 50,000 ...     | ...                   | ...     | ...                           | ...     | ...       | ...     | 2             | 1,55,000 | ...       | ...     | 1              | 67,500  |
| Total ...                | 1                     | 1,425   | 8                             | 29,820  | 1         | 520     | 54            | 4,48,234 | 10        | 43,100  | 4              | 92,529  |

Number of estimates 78, estimated to cost Rs. 6,15,828 as against 55 estimates costing Rs. 4,18,470 in 1933.

#### Statement of Works constructed on Sanitary Type-design by Municipalities and Local Boards during the year 1934.

| (1)                                                | (2)                                    | (3)                                             | (4)                                                           | (5)                           | (6)                         | (7)                    | (8)                                                                 |
|----------------------------------------------------|----------------------------------------|-------------------------------------------------|---------------------------------------------------------------|-------------------------------|-----------------------------|------------------------|---------------------------------------------------------------------|
| Number and name or description of work.            | Locality, name of town or village.     | Number of the type-design which work was based. | Number and date of Sanitary Engineer's professional sanction. | Date of commencement of work. | Date of completion of work. | Full cost of the work. | Remarks as to its success or failure as a type-design construction. |
| 1. Reconstructing a cement drain.                  | Calicut                                | San. No. 32/1929.                               | ...                                                           | 15 Sep. 1934.                 | 20 Oct. 1934.               | 292                    | Successful.                                                         |
| 2. One 2 seated masonry latrine.                   | Branch Secondary School, Cuddapah.     | San. No. 59/1927.                               | ...                                                           | Jan. 1934.                    | Feb. 1934.                  | 189                    | Do.                                                                 |
| 3. Dry earth latrine of 6 seats.                   | Municipal High School, Karur.          | San. No. 49/1927.                               | ...                                                           | July 1934.                    | Oct. 1934.                  | 345                    | Do.                                                                 |
| 4. Scavengers colony construction of 6 huts.       | Pagalore Road, Karur.                  | Sauy. Bd. Type-design No. 168/1918.             | ...                                                           | Do.                           | Do.                         | 2,500                  | Do.                                                                 |
| 5. One combined latrine and urinal.                | Kadalangudy Street School, Kumbakonam. | Type-design No. 193.                            | ...                                                           | Nov. 1933.                    | Jan. 1934.                  | 251                    | Do.                                                                 |
| 6. One sanitary well, 3½ feet diameter.            | Puliyadi Lane, Ward 4, Kumbakonam.     | ...                                             | ...                                                           | May 1934.                     | July 1934.                  | 231                    | Do.                                                                 |
| 7. One 6-inch lead of drain.                       | Uppukara Street, Kumbakonam.           | ...                                             | ...                                                           | July 1934.                    | Aug. 1934.                  | 46                     | Do.                                                                 |
| 8. Construction of latrine.                        | Malapet, Nellore                       | Type-design No. 1716 M., 22nd Aug. 1939.        | ...                                                           | 6 Oct. 1934.                  | 22 Dec. 1934.               | 340                    | Do.                                                                 |
| 9. Lethal Chamber                                  | Palamcottah                            | T.D. No. 192.                                   | ...                                                           | 15 Nov. 1934.                 | 30 Nov. 1934.               | 95                     | The chamber has not yet been put into use.                          |
| 10. Construction of latrines                       | Hardinge Market, Pollachi.             | San. No. 49/1927.                               | ...                                                           | 20 Feb. 1934.                 | 17 Mar. 1934.               | 693                    | Successful.                                                         |
| 11. Constructing 2 sets of dry latrine of 6 seats. | Gogaj, Salem                           | T.D. No. 193.                                   | ...                                                           | Do.                           | 25 July 1934.               | 628                    | Do.                                                                 |

## Statement of Works constructed on Sanitary Type-design by Municipalities and Local Boards during the year 1934—cont.

| (1)                                                 | (2)                                | (3)                                                | (4)                                                           | (5)                           | (6)                         | (7)                    | (8)                                                                 |
|-----------------------------------------------------|------------------------------------|----------------------------------------------------|---------------------------------------------------------------|-------------------------------|-----------------------------|------------------------|---------------------------------------------------------------------|
| Number and name or description of work.             | Locality, name of town or village. | Number of the type-design on which work was based. | Number and date of Sanitary Engineer's professional sanction. | Date of commencement of work. | Date of completion of work. | Full cost of the work. | Remarks as to its success or failure as a type-design construction. |
| <i>Municipalities—cont.</i>                         |                                    |                                                    |                                                               |                               |                             |                        |                                                                     |
| 12. Constructing 3 sets of dry latrines of 6 seats. | Sherapet, Salem                    | T.D. No. 193.                                      | ...                                                           | 28 Feb. 1934.                 | 25 July 1934.               | Rs. 989                | Successful.                                                         |
| 13. Constructing a latrine of 5 seats.              | Do.                                | San. No. 43/1927.                                  | ...                                                           | 20 Feb. 1934.                 | 18 Mar. 1934.               | 318                    | Do.                                                                 |
| 14. Constructing a dry earth latrine of 5 seats.    | Gogai, Salem                       | Do.                                                | ...                                                           | 10 Mar. 1934.                 | 1 June 1934.                | 312                    | Do.                                                                 |
| 15. Do.                                             | Dadagapatti, Salem.                | Do.                                                | ...                                                           | 6 Mar. 1934.                  | 25 Mar. 1934.               | 319                    | Do.                                                                 |
| 16. Constructing a dry latrine of 6 seats.          | Shevapet, Salem                    | T.D. No. 193.                                      | ...                                                           | 14 July 1934.                 | 24 Aug. 1934.               | 291                    | Do.                                                                 |
| 17. Constructing 8 seats of dry latrine of 5 seats. | Arispalaiyan, Salem.               | Do.                                                | ...                                                           | 1 Oct. 1934.                  | 22 Nov. 1934.               | 1,747                  | Do.                                                                 |
| 18. A sand type latrine of 16 seats.                | Chali, Tellicherry                 | San. No. 49/1927.                                  | ...                                                           | 25 Jan. 1934.                 | 14 Mar. 1934.               | 900                    | Do.                                                                 |
| 19. Construction of a dry latrine of 6 seats.       | Bangalore Road, Vellore.           | T.D. No. 193.                                      | ...                                                           | 31 Oct. 1933.                 | 7 Mar. 1934.                | 317.                   |                                                                     |
| 20. Construction of a dry latrine of 3 seats.       | Bus Stand, Vellore                 | Do.                                                | ...                                                           | 10 Jan. 1934.                 | 25 Sep. 1934.               | 552                    |                                                                     |
| 21. Construction of a Out-patient Dispensary.       | Uppur Village, Ramnad District.    | T.D. No. 184.                                      | ...                                                           | Dec. 1933.                    | 10 Jan. 1935.               | 6,020                  |                                                                     |
| 22. Constructing one Out-patient Dispensary.        | Mohanur, Salem District.           | Do.                                                | 293 M., 2 Feb. 1935.                                          | 1 Nov. 1933.                  | 12 Mar. 1935.               | 5,419                  | Type-design found suitable.                                         |

## A BRIEF REPORT ON THE WORKING OF THE PUMPING PLANTS BELONGING TO LOCAL BODIES IN THE MADRAS PRESIDENCY UNDER THE SUPERVISION OF THE BOILER INSPECTION DEPARTMENT FOR THE YEAR 1934.

*Anantapur.*—One of the centrifugal pumps at this station is completely worn out, and recommendations have been made to replace it. The second centrifugal pump obtained by the municipality without consulting this department was not giving the rated capacity required from it nor was it efficient with consequent loss in running costs. The gas engines are maintained in a satisfactory condition but recommendations made on reports are not being attended to.

*Bellary.*—The centrifugal pumps at this station are of the multi-stage type. As the Council has failed to give effect to the recommendations made from time to time in the various inspection notes, the pumps have now reached a stage where reconditioning would be a costly affair.

*Bezwada.*—The new motor pumps were tested during the year. The test conducted was satisfactory so far as out-put of pump is concerned.

*Chingleput.*—The station is being looked after and kept in order, and the municipality are giving their best attention to the recommendations of this department.

*Chidambaram.*—The rate of pumping at this station had to be reduced as a temporary measure due to the leaks and bad condition of the steel pumping main. An estimate was sanctioned to replace this main and the work is nearing completion. With this improvement, the pumps are expected to work under normal conditions. The general condition of the plant is fairly good.

*Cocanadu.*—The electrical pumping unit worked satisfactorily during the period under report. The cost of electricity has been reduced from 1 anna 8 pies to 1 anna per unit from January and this will make pumping cheaper.

*Conjeevaram.*—Nothing has yet been done to improve the efficiency of this station.

The Council has been advised to instal electric pumping sets instead of reconditioning the present uneconomical type of steam plant which is working in conjunction with a gas plant.

*Cuddalore.*—The general condition of the plant was good.

*Cuddapah.*—Most of the machinery at the Bugga water works is antiquated, but in view of the fact that the Cuddapah water-supply scheme from the Pennar source is under investigation by the Sanitary Engineer which would require the installation of new machinery and the water-supply to the town is at present maintained by intermittent pumping distributed over three different stations owing to scarcity of water in the suction wells during summer, replacement of the machinery at this stage is not warranted.

No action has yet been taken to give effect to the recommendations made in regard to the spare boiler and in every respect the works are unsatisfactory.

*Dindigul.*—The pumps have been under water for nearly three years although there was no necessity for pumping due to supply of water by gravitation. They are in a very poor condition and should be attended to as early as possible as the water in the galleries is going down rapidly due to failure of rains.

*Ellore.*—The boiler plant of this station requires replacement with a more suitable type and pumps are also getting to a stage for extensive repairs. Against such remodelling the cost of new pumping sets may be considered. The station was satisfactorily maintained during the year under report.

*Erode.*—The repairs to the unit recommended for reconditioning a long time back, were not put on hand with the result that it has now broken down and the station has been working for months past with only one unit working 24 hours daily without any stoppage for necessary overhauling and adjustment.

The air compressors and auxiliary pumps are also in bad condition and their state brought to the notice of the Council repeatedly.

Either the present plant in disrepair must be put in order or electrifying the station expedited.

The unit overhauled in 1932 is working satisfactorily but as stated above continuously and will soon be worn out.

*Gudiyattam.*—The new gas producer erected by this department has been working singly ever since erected. The old producer though repaired has not been installed so far.

*Gudur.*—Considerable trouble has been experienced with the engines at this station, although comparatively new. One engine was repaired and put into running order and the other engine will also require similar repairs.

*Kumbakonam.*—No. 1 Borehole. The plant requires attention and recommendations are made from time to time in the inspection notes.

No. 2 Borehole. The motors and pumps are running smoothly and in order. The full load test of the plant has yet to be taken.

*Kurnool.*—The station is electrified and at present the town is dependent on the single pump worked by the electric motor, the suction gas unit being merely kept as an emergency set. The Council was advised to instal an additional electrical pumping set.

*Madura.*—There are two pumping stations for the water-supply and several stations for sewage pumping :—

(1) *Kochadai Pumping Station.*—Temporary alterations were made for the reduction in working and detailed instructions given in the notes of inspections made.

(2) *Madura-Arapalaiyam.*—The recommendations made for the replacement of the existing plant by electric motors and pumps are still under consideration. The cost of pumping is high at present.

(3) *Madura drainage—Main pumping station.*—The recommendations made for minor repairs were attended to but no attempt has been made to carry out major repairs. The plant is running as satisfactorily as can be expected and the pumping costs are still fairly low.

(4) *Madura drainage—Sub-pumping stations.*—The results of the series of tests carried out with a mixture of kerosine and crude oils were forwarded with recommendations. The question of electrifying all the sub-pumping stations was considered by the Council and approved of but till now nothing appears to have been done. The cost of running is high and the stations require to be remodelled.

*Masulipatam.*—During the year under report, the end plates of Jewel filters were being renewed one after another with the result that only one filter was available for use. The pumping had to be slowed down and was naturally inefficient. The Venturi Meter requires repairs. A few items of repairs were suggested for unit No. 2 to be taken up, if station is not to be electrified. The working of the station has been generally satisfactory.

*Negapatam.*—The present plant is running very satisfactorily and economically. The new chimney has not yet been erected.

*Nellore.*—The old plant is still in use, being very old and worn out, with high maintenance costs. One pump has been removed and the erection of the new plant should be expedited.

*Palacole.*—One of the engines had a serious breakdown and the other engine needs a thorough overhaul. The matter is under investigation.

*Proddatur.*—The suction piping has been altered with satisfactory results.

The installation of a service reservoir to maintain a constant delivery head which will reduce the hours of pumping and incidently the working costs is very necessary.

The station is maintained in a satisfactory condition.

*Rameswaram.*—The plant is being maintained in a satisfactory condition but recommendations made are not promptly carried out in full.

*Tadpatri.*—The station was newly opened. It was found at the first inspection of the plant, that the pumps were incorrectly aligned and the Council were advised to take up the matter with the contractors for re-alignment and for supplying new driving shafts and new-bearings. On an inspection of the station on the 3rd December 1934, it was observed that the remarks were not satisfactorily attended to.

*Tanjore.*—The recommendations made for overhauling the plant have not yet been given effect to and the question of electrification has been under consideration for about two years. The present plant still being fairly economical should be put in order or the station electrified if that will be cheaper.

*Tiruvannamalai.*—The plant was inspected in June 1934 before it was taken over by the Municipality and several suggestions for improvement made. It has been working satisfactorily during the year.

*Trichinopoly.*—This station has been electrified and the old steam plant dismantled.

**Tuticorin.**—The plant was maintained in a satisfactory condition and worked economically.

**Vellore Drainage.**—The pumping station requires remodelling. The pumps are worn out and of very low efficiency with consequent high running costs. The municipality has been advised to carry out improvements to the existing pumps before installing new pumps.

**Vellore Water Works.**—The plant is in a satisfactory condition. Some trouble was experienced with the pumps and the Council was advised to do away with the common suction pipe and to fit independent piping to each pump.

**The Waltair High Level Pumping Station.**—The new pump though efficient has not been delivering its designed output due to causes under investigation.

**Vizianagram.**—This station worked very satisfactorily after the recent reconditioning of plant with a probable saving of between rupees four to five thousand a year in running costs.

In addition to the inspection of pumping plants, the following work was also done by the Boiler Inspection Department:—

**Virudhunagar Drainage Scheme.**—Particulars of running costs for oil-engines and electric pumping sets with their capital costs were furnished.

**Trichinopoly Drainage Scheme.**—Specifications for the pumping sets required with dimensioned sketches of the engine houses were furnished.

**Bezwada Drainage Scheme.**—The tenders received for the sewage pumping plant were examined and remarks offered on the various plants tendered.

**Chodavaram Water Supply Scheme.**—The tenders received for the pumping plant were examined and returned with remarks.

**Cochin Drainage Scheme.**—Particulars with regard to plant, capital costs and maintenance charges were furnished.

#### Statement of Pumping Particulars for 1934.

| Serial number and stations. | Consumption of fuel per w.h.p. per hour including all stand-by losses.           | Cost of oil and fuel per million foot gallons. | Type of plant.                                                                            |
|-----------------------------|----------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------|
|                             | LB.                                                                              | AS.                                            |                                                                                           |
| 1. Anantapur ...            | 6.6                                                                              | 12.5                                           | Suction gas engines with belt-driven centrifugal pumps.                                   |
| 2. Bellary ...              | Particulars could not be furnished as complete particulars are not yet received. |                                                | Do.                                                                                       |
| 3. Bezwada (Oil)...         | 9.4                                                                              | 5.3                                            | Diesel and semi-diesel four-stroke crude oil engines with belt-driven plunger pumps.      |
| ... Bezwada (Electric).     | 1.3 units.                                                                       | 8.06                                           | Electric motors with vertical spindle pumps.                                              |
| 4. Chidambaram.             | 19.8 lb.                                                                         | 17.8                                           | Horizontal compound surface condensing steam engines with direct connected plunger pumps. |

#### Statement of Pumping Particulars for 1934—cont.

| Serial number and stations.    | Consumption of fuel per w.h.p. per hour including all stand-by losses.                | Costs of oil and fuel per million foot gallons. | Type of plant.                                                                                                                                            |
|--------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | LB.                                                                                   | AS.                                             |                                                                                                                                                           |
| 5. Chingleput ...              | 4.1                                                                                   | 6.5                                             | Suction gas engines with belt-driven centrifugal pumps.                                                                                                   |
| 6. Cocanada ...                | 1.3 units.                                                                            | 8.2                                             | Electric motor and direct connected centrifugal pumps with horizontal duplex non-condensing steam-engines and direct acting plunger pumps as a stand-by.  |
| 7. Cuddalore ...               | 1.3                                                                                   | 7.6                                             | Crude oil engines with belt-driven centrifugal pumps.                                                                                                     |
| 8. Conjeeveram ...             | 9.6                                                                                   | 8.1                                             | Horizontal duplex non-condensing steam-engines with direct coupled plunger pumps and a suction gas engine and a belt-driven plunger pump.                 |
| 9. Cuddapah ...                | Particulars could not be furnished as there is no meter attached to the pumping main. |                                                 | Single non-condensing steam-engines and belt-driven centrifugal pumps with horizontal duplex non-condensing steam-engine and direct acting plunger pumps. |
| 10. Dindigul ...               | Particulars could not be furnished as figures for the whole year are not available.   |                                                 | Vertical single non-condensing steam-engine and direct plunger pumps and four stroke crude oil engine with belt-driven centrifugal pump.                  |
| 11. Ellore ...                 | 18.4                                                                                  | 8.1                                             | Horizontal compound expansion surface condensing steam-engines with direct connected plunger pumps.                                                       |
| 12. Erode ...                  | 7.0                                                                                   | 7.3                                             | Vertical triple expansion surface condensing engines with direct acting plunger pumps.                                                                    |
| 13. Gudur ...                  | Particulars could not be furnished as the meter was under repairs.                    |                                                 | Suction gas engines with belt driven centrifugal pumps.                                                                                                   |
| 14. Gudiyattam ...             | 2.9                                                                                   | 3.5                                             | Do.                                                                                                                                                       |
| 15. Kumbakonam (Bore-hole I).  | 2.6                                                                                   | 13.7                                            | Vertical two-stroke crude oil engine with belt-driven centrifugal pumps.                                                                                  |
| 16. Kumbakonam (Bore-hole II). | 1.7 units.                                                                            | 8.6                                             | Direct coupled motors and centrifugal pump.                                                                                                               |
| 17. Kurnool (Gas).             | 3.3                                                                                   | 7.5                                             | Suction gas engine with belt-driven centrifugal pump.                                                                                                     |
| ... Kurnool (Electric).        | 1.6 units.                                                                            | 12.1                                            | Direct coupled motors and centrifugal pump.                                                                                                               |
| 18. Madura (Main).             | 3.8                                                                                   | 3.3                                             | Horizontal triple expansion jet condensing steam-engines with direct coupled plunger pumps.                                                               |
| ... Madura (Sub.)              | 12.7                                                                                  | 11.5                                            | Horizontal triple expansion surface condensing steam-engines with direct coupled plunger pumps.                                                           |
| 19. Madura (Drainage).         | 3.7                                                                                   | 3.3                                             | Do.                                                                                                                                                       |
| 20. Masulipatam ...            | 15.2                                                                                  | 12.1                                            | Horizontal compound surface condensing steam-engines with direct coupled plunger pumps.                                                                   |

## Statement of Pumping Particulars for 1934—cont.

| Serial number and stations.   | Consumption of fuel per w.h.p. per hour including all stand-by losses.              |      | Cost of oil and fuel per million foot gallons. | Type of plant.                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------|------|------------------------------------------------|----------------------------------------------------------------------------------------------|
|                               | Lb.                                                                                 | As.  |                                                |                                                                                              |
| 21. Negapatam ...             | 7.07                                                                                | 4.9  |                                                | Vertical triple expansion surface condensing engines with direct coupled plunger pumps.      |
| 22. Nellore ...               | 1.3                                                                                 | 8.4  |                                                | Horizontal four-stroke kerosene oil-engines with belt-driven plunger pumps.                  |
| 23. Palacole ...              | 1.4                                                                                 | 8.0  |                                                | Four-stroke crude oil engines with belt-driven centrifugal pumps.                            |
| 24. Proddatur ...             | 30.0                                                                                | 32.5 |                                                | Steam-engines single non-condensing with belt-driven centrifugal pumps.                      |
| 25. Rameswaram...             | 1.5                                                                                 | 7.5  |                                                | Horizontal four-stroke kerosene oil-engines with belt-driven plunger pumps.                  |
| 26. Tadpatri ...              | Particulars could not be furnished as they are not yet received from the Council.   |      |                                                | Horizontal two stroke crude oil engines with belt-driven centrifugal pumps.                  |
| 27. Tanjore ...               |                                                                                     |      | 7.6                                            | Vertical triple expansion surface condensing steam-engines with direct acting plunger pumps. |
| 28. Tiruvannamalai.           | Particulars could not be furnished as figures for the whole year are not available. |      |                                                | Horizontal four-stroke crude oil engines with belt-driven centrifugal pumps.                 |
| 29. Trichinopoly ...          |                                                                                     |      |                                                |                                                                                              |
| 30. Tuticorin ...             | 0.65                                                                                | 2.7  |                                                | Electric motors with direct coupled centrifugal pumps.                                       |
| 31. Vellore (Water-works).    | 1.9                                                                                 | 2.4  |                                                | Horizontal two-stroke crude oil engines with gear-driven plunger pumps.                      |
| 32. Vellore (Drainage).       | 3.8                                                                                 | 3.9  |                                                | Suction gas engines with belt-driven centrifugal pumps.                                      |
| 33. Vizagapatam (Head works). | 1.4                                                                                 | 7.0  |                                                | Do.                                                                                          |
| 34. Vizianagram.              | 8.1                                                                                 | 4.2  |                                                | Vertical two-stroke crude oil engines with belt-driven centrifugal pumps.                    |
| 35. Waltair ...               | 1.2                                                                                 | 6.0  |                                                | Vertical triple expansion surface condensing steam-engines with direct acting plunger pumps. |
|                               |                                                                                     |      |                                                | Horizontal four-stroke crude and kerosene oil engines with belt-driven centrifugal pumps.    |

## Government of Madras

## LOCAL SELF-GOVERNMENT (PUBLIC HEALTH) DEPARTMENT.

G.O. No. 2819, P.H., 29th October 1935.

Public Health—Annual Report, 1934—Reviewed.

READ—the following papers:—

Letter from Lieut.-Col. C. M. GANAPATHY, M.C., I.M.S., Director of Public Health, to the Joint Secretary to Government, Local Self-Government (Public Health) Department, dated 2nd July 1935, No. 1371-2/V.S.

I have the honour to forward herewith six advance copies of the Annual Report of the Department for 1934.

## II

Letter from G. V. RAO, Esq., B.Sc., ASSOC.M.INST.C.E., Sanitary Engineer to Government, to the Joint Secretary to Government, Local Self-Government Department, dated 1st August 1935, No. 410-G.

I have the honour to forward herewith the Annual Report of my Department for the year 1934.

A copy of the report has also been sent to the Director of Public Health, Madras.

## III

Letter from V. HART, Esq., C.S.I., A.M.I.C.E., Chief Engineer, Public Works Department (General, Buildings and Roads), to the Secretary to Government, Local Self-Government Department, through the Secretary to Government, Public Works and Labour Department, dated 28th September 1935, No. 2786 Wks./35 O.R.

[Annual Report of the Sanitary Engineer for the year 1934—Reference—Local Self-Government Department Memo. No. 81826-1/E. 1, P.H., dated 17th August 1935.]

I forward herewith a statement giving the information called for by the Government in the memorandum quoted above.

As regards the last paragraph 22 of the Sanitary Engineer's report, I invite attention to the concluding portion of my unofficial reply No. 1645 Wks./35-1, dated 29th July 1935.

STATEMENT SHOWING THE PRESENT STAGE OF THE WATER-SUPPLY AND DRAINAGE SCHEMES UNDER EXECUTION BY THE PUBLIC WORKS DEPARTMENT, ETC.

| Name of work.                         | Present stage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Whether the scheme is likely to be completed in the current year. |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 3. Bezwada Water-works Improvements.  | All work completed except supplying and fixing differential pulley block for lifting motor and pump. The question of supplying the pulley is under correspondence with the Junior Superintendent.                                                                                                                                                                                                                                                                                                                                          | Yes.                                                              |
| 5. Nellore Water-works Improvements.  | Completed in all respects with the exception of laying an infiltration gallery between wells Nos. 1 and 2. This work will be started in January 1936.                                                                                                                                                                                                                                                                                                                                                                                      | No.                                                               |
| 6. Palacole Water-supply Scheme.      | Work as per original estimate completed, additional items of works put in hand will be completed before the end of March 1936.                                                                                                                                                                                                                                                                                                                                                                                                             | No.                                                               |
| 13. Bezwada Drainage Scheme.          | A note showing the present stage of the several sub-works is enclosed. Expected to be completed in 1937-38.                                                                                                                                                                                                                                                                                                                                                                                                                                | No.                                                               |
| 11. Virudhunagar Water-supply Scheme. | The Government have passed orders directing the Chief Engineer to get the scheme revised and a revised estimate submitted for the work with reference to the alternative route for the laying of the pipes along the District Board road suggested by the Municipal Council—vide Government Memo. No. 2751-C/35-2, dated 21st August 1935, and they have been communicated to the Superintending Engineer for the early submission of the necessary estimate. The preparation of the estimate is pending with the Superintending Engineer. | No.                                                               |
| 2. Arkonam Water-supply Scheme.       | The first stage of the work, i.e., full power test, is in progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No.                                                               |

STATEMENT SHOWING THE PRESENT STAGE OF THE WATER-SUPPLY AND DRAINAGE SCHEMES UNDER EXECUTION BY THE PUBLIC WORKS DEPARTMENT, ETC.—cont.

| Name of work.                        | Present stage.                                                                                                                                                                                                                                                                                                                                                                     | Whether the scheme is likely to be completed in the current year. |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 12. Wallajapet Water-supply Scheme.  | The first stage of the work, i.e., full power test, is in progress.                                                                                                                                                                                                                                                                                                                | No.                                                               |
| 1. Anantapur Water-works Extensions. | The Superintending Engineer, Madras Circle, reports as under on 12th September 1935 "The extension of pipe lines to the northern half of Georgepet has been completed. The extensions to Police lines are almost completed and the portion remaining will be done as soon as reply is received from the Commissioner, Municipal Council, Anantapur, about position of a fountain." | Yes.                                                              |
| 7(b) Water-supply Scheme, Prodattur. | The extension of pipe lines has been completed. The construction of reinforced concrete reservoir is in progress and the columns are being cast.                                                                                                                                                                                                                                   | Yes.                                                              |
| 9. Saidapet Water-supply Scheme.     | Please see this Office unofficial reply No. 1062 Wks./35-5, dated 25th July 1935, explaining the present stage of the scheme.                                                                                                                                                                                                                                                      | Yes.                                                              |

NOTE SHOWING THE PRESENT STAGE OF THE SEVERAL SUB-WORKS OF THE BEZWADA DRAINAGE SCHEME.

*Sub-heads of Drainage Scheme, Bezwada.*

1. (a) Open drains—Block No. I. Since completed.
- (b) Hill drain No. 1. Do.
- (c) Hill drain No. 2. Do.
2. (a) Open drains—Block No. II. Completed. A supplemental estimate for Rs. 8,800 has been sanctioned by the Superintending Engineer, tenders are apparently being called for now. I expect to complete this work during 1935-36.
- (b) Hill drain No. 3 ... Since completed.

NOTE SHOWING THE PRESENT STAGE OF THE SEVERAL SUB-WORKS  
OF THE BEZWADA DRAINAGE SCHEME—cont.

Sub-heads of Drainage Scheme, Bezwada—cont.

3. Block No. III—Hill drain Work not yet started. A revised estimate for Rs. 1,12,795 was submitted by this office early in November 1934. It was sent to the Sanitary Engineer for approval. I understand the same has been returned with remarks. This work can be taken up only in 1936-37 as the estimate itself is not yet ready. Experience shows that an approximate amount of Rs. 60,000 alone can be spent on drains. Therefore, this work may be completed only in 1937-38.
4. Disposal works—
- (a) Improvements and division of Islampet main drain 1 to 4 reaches. Since completed excepting petty items which will be completed this year.
  - (b) Engine house and connected works. Will be completed in 1935-36.
  - (c) Sewage pumping plant. Work commenced and will be completed in 1935-36.
  - (d) Providing 14" Hume steel pipes. This will also be completed in 1935-36.
  - (e) Septic tank in the sewage farm. A sum of Rs. 22,000 is provided for this. Plans are awaited from the Sanitary Engineer. This will be taken up only in 1936-37 if the estimate is sanctioned in the meantime.
  - (f) Sewage farm ... A portion of work may be done during the official year 1935-36, and remaining work has to be taken up only in 1936-37 after the earthwork settles down.

In addition to the above, I have sent some estimates for sanction—

(1) Covering slabs over main drains—Estimate Rs. 40,192. This is under scrutiny in the division office. This will have to be taken up only in 1936-37.

(2) Providing silt traps in main junctions of drains. Design received from the Sanitary Engineer. Estimate is under preparation. Approximate cost of this will come to Rs. 3,000. This will have to be taken up this year if received sanctioned earlier.

Under the above circumstances, I have to conclude that whole scheme can be completed only in 1937-38.

Order—No. 2819, P.H., dated 29th October 1935.

Recorded.

2. As compared with the previous year there was an increase of 58,246 in the mortality during the year from all causes, the total number of deaths being 1,127,169.

3. *Cholera*.—The disease, which showed signs of considerable abatement during the two previous years, increased in virulence; but the total mortality (18,158) was the lowest for the rest of the past decade. The disease was prevalent in a mild form in the first half of the year; but during the second half it became virulent and widespread in several districts with the onset of the monsoons. Among the northern group of districts, Ganjam was infected practically throughout the year while among the southern group, South Arcot, Trichinopoly, Tanjore and North Arcot suffered rather severely. It was possible to carry out anti-cholera inoculations on a larger scale in the infected areas as Sanitary Inspectors and L.I.Ms. were also permitted during the course of the year to carry on inoculations. It is gratifying to note that no accident or ill effect was reported among the 770 thousands of persons inoculated by them.

4. *Smallpox*.—There was a more widespread epidemic of smallpox during the year and it resulted in increased mortality. The total number of deaths during the year from smallpox rose from 10,745 in 1933 to 18,088, which is the highest recorded since 1926. Kurnool district with 2,344 deaths recorded the largest number of deaths, the rate being 2.29 per mille of the population. The total number of deaths, however, during the decade ending with the year under report, was less than that of the previous decade. The percentage of mortality in the age period above 10 was on the increase and this shows the need for re-vaccination among the adults.

5. *Plague*.—There was a fall in the death rate from plague during the year while under all other causes there was an increase in the mortality. There were 2,358 deaths from this cause during the year as against 2,591 in the previous year. The epidemic was particularly severe in the districts of Bellary, Madura, Coimbatore and Salem, which accounted for 85 per cent of the total mortality. A notable feature was the importation of pneumonic plague from Mysore State, but it was confined to North Arcot and Chittoor districts where, out of 8 attacks, 6 proved fatal.

Preventive measures adopted were based chiefly on the results of the investigations obtained in the Cumbum valley, in accordance with which anti-plague inoculations, evacuation, sun disinfection of grain and rat destruction were adopted. For destruction of rats, besides the usual methods of baiting and trapping, fumigation with cyanogas was widely adopted in the districts of Madura, Bellary and Anantapur and it has been decided to conduct a scheme of intensive cyanogas fumigation in four districts and two municipalities in the current year, the expenditure being shared equally between Government and the local bodies concerned.

6. *Malaria*.—The total number of deaths from fevers during the year was 325,050 as against 300,182 in the previous year. Owing to imperfect registration of deaths in rural areas, it is difficult to assess correctly the incidence from Malaria. The East Godavari, agency and the districts of Vizagapatam, Ganjam, Kurnool, Bellary, Anantapur and Cuddapah reported a high mortality which is probably due to large tracts in these areas being malarious, while Tanjore which is non-malarious, registered the lowest incidence as usual. As in the previous year, quinine was distributed free in the specially malarious tracts and, in furtherance of this scheme, malaria surveys were conducted in (1) Madakasira taluk in Anantapur district, (2) Gudur taluk in Nellore district, (3) Kurnool and Koilkuntla taluks in Kurnool district, (4) Coastal tracts in Ganjam district, (5) Srungavarapukota in Vizagapatam district, (6) Melur and Kodaikanal taluks in Madura district, (7) Kannamuchi village in Mettur taluk, Salem district and (8) Coimbatore taluk in Coimbatore district. Anti-malarial measures were continued in seven centres in the Vizagapatam Agency and also in the Vizagapatam municipality and the Rameswaram Island. The Government note with interest that useful work has been turned out during the last five years at Rameswaram, where all important breeding ponds were filled up and where the spleen rate decreased from 15 per cent in 1929 to only 1.5 per cent in 1934. It may also be mentioned in this connection that the permanent measure of roughstone revetment of the irrigation channels in Siruguppa proved a success in reducing the breeding of *A. Culicifacies* and the incidence of malaria. Government have recently sanctioned a scheme of anti-malarial operations at a cost of Rs. 50,000 in a few selected areas in the Presidency, the cost being met from the grant made by the Government of India for the improvement of rural areas.

7. *Registration of Vital Statistics*.—By the transfer of the work of compilation of vital statistics in non-municipal areas to the office of the Director of Public Health in 1932, improvement has been effected both in their compilation and accuracy, but the registration, not only in rural areas but to a large extent in municipalities and towns, still remains poor. As the true state of public health can be gauged only from correct vital statistics, the Government impress on village headmen and on the registrars in municipalities the need for the detection of unregistered cases and they expect them to follow strictly the instructions issued by them for accurate registration of vital statistics.

8. *Birth-rate*.—The recorded birth-rate during the year was 36.17 per mille as compared with the birth-rate of 37.72 per mille in 1933 and the average rate of 37.40 per mille for the previous five years. The birth-rate in all districts, except Bellary, was in excess of the death-rate. In Bellary district the death-rate was in excess of the birth-rate by 0.58 per mille. The birth-rate in municipalities increased from 37.98 to 38.61 while in rural towns the birth-rate decreased from 36.43 to 34.53 per mille. Two municipalities,

Tiruvarur and Parlakimedi recorded low birth-rates of 22.68 and 22.78 respectively while eight other municipalities registered birth rates between 25 and 30. Tiruvarur particularly has been registering low birth-rates during the last three years. The main cause of these low rates obviously is defective registration.

The municipalities which recorded rates below 30 per mille should take steps to improve the standard of their vital statistics records.

9. *Death-rate*.—The death-rate during the year was 24.95 per mille as compared with 23.66 in 1933 and the average rate of 24.03 per mille for the previous five years. Death-rates increased in all districts, except Bellary, Coimbatore, Madras, Malabar, South Kanara and Salem. The recorded vital statistics show that the rate of mortality was the lowest during the second quarter of the year, indicating that summer months are the healthiest in the Presidency. The death-rate in municipalities during the year increased to 29.51 per mille as compared with 28.18 per mille in the previous year. The average death-rate in rural towns also increased from 22.7 to 24.17. Death-rates below 20 per mille were registered in five municipalities and 46 rural towns. Tenali and Erode continued to return low death-rates as in previous years in spite of their attention having been drawn in the previous report to the low rates recorded in their areas. It is hoped that the Commissioners of these municipalities would pay special attention to the registration of vital statistics in their areas.

10. *Rural Sanitation*.—The six rural sanitation units continued to do useful work during the year in combating hookworm infection. Towards the close of the year the rural sanitation units were working in the districts of Madura, Tinnevely, South Arcot, West Godavari, Salem and East Godavari. As usual the work of these units consisted of (1) educational propaganda on hookworm, (2) hookworm treatment and (3) improvement of rural sanitation by the provision of latrines. Intense propaganda was carried out throughout the rural areas by means of cinema shows, magic lantern demonstrations, health exhibitions and pamphlets and bulletins. Of the total of 193,278 hookworm treatments given during the year 13,687 were administered by the rural sanitation staff. These units will not be stationed long in each district and the local bodies should continue the work started in their areas under the "Rural Sanitation Scheme" particularly in the matter of providing a large number of latrines. Prevention of soil pollution is the most important measure in the control of hookworm infection. In the current year the Government have decided to utilize a sum of Rs. 2.75 lakhs for the improvement of village sanitation by providing borehole latrines in 100 selected villages in each area under the jurisdiction of a District Board. The problem cannot be solved by the provision of public latrines alone. As far as possible the owner of every house should provide a latrine. With a view to popularising this idea, ferro-concrete squatting slabs were given free of cost in the Madura

district and the Government note with satisfaction that 579 house latrines were constructed in that district. The Government trust that the other District Boards will follow the laudable example set by the Madura District Board in this matter.

11. *Maternity and Child Welfare.*—The mortality from child-birth during the year rose from 13,565 in the previous year to 13,902 and the infantile mortality also increased from 184.9 per 1,000 in the previous year to 192.90 per 1,000. This work was placed on a firmer footing under the administration of the local bodies who appreciably increased their allotments for this branch. The appointment of medical women as special child welfare assistants to the Health Officers facilitated progress and it is hoped that, with the growing popularity of the maternity welfare scheme, better results will follow. Good work was turned out by the midwives in the rural areas of Coimbatore, Ramnad and West Gōdāvari districts. The Assistant Directress of Public Health paid quarterly visits to these districts as well as to Tanjore and nine other districts and 20 municipalities. The progress made so far has been satisfactory, except in the case of Tanjore where work seems to have been hampered by various factors.

12. *Health Propaganda.*—During the year 139,186 lectures and short talks, 18,852 magic lantern demonstrations and 621 cinema shows besides 1,461 health exhibitions and 813 dramas on health subjects were given and the total audience thereat is estimated at 78 lakhs. Health propaganda in municipal areas showed a general improvement during the year as compared with that of the previous year. It is regrettable that no propaganda work was done in the Walajapet Municipality; reference was also made in the previous report to the failure of this municipality to report any activity in this direction. No report of work done in the Chicacole Municipality also was submitted this year. The Commissioners of Walajapet and Chicacole municipalities should submit their reports without delay.

13. *Health Unit Scheme.*—The Government have sanctioned a scheme of rural development for 18 months in Poonamallee and its surrounding villages in the Sriperumbuder taluk, Chingleput. The cost of the scheme is proposed to be met out of the grant made by the Government of India for rural development and by the Rockefeller foundation.

14. *Research Work.*—The most important research work carried on in the year was the continuance of the studies on the problems of plague at Cumbum (Madura district). Rat-flea surveys were continued. It was found that in several villages infection first commenced in bandicoots, the house-rats and mice getting infected later. Repeated attempts were made to detect loose fleas in consignments of grain at the Kumili Frontier, but the results were all negative, perhaps due to the fact that most of the consignments came from rat-proof godowns at Cumbum. The fact of the

possibility of importation of fleas through grain was, however, proved by an examination conducted among the rats in the northern half of the Peermade taluk adjoining the Cumbum Valley. This emphasises the necessity for storing grain in rat-proof godowns. Observations on the utility of Cyanogas fumigation of rat-burrows showed that, though it cannot entirely prevent an outbreak of plague, it will have a considerable modifying effect upon the intensity of infection in as much as it deals with large numbers of rats and fleas confined in the burrows.

15. *Vaccination.*—There was an increase of 671,165 in the total number of vaccine operations (5,223,920—both primary vaccinations and re-vaccinations) during 1934-35 as against 4,552,755 carried out during the previous year. The increase in the total number of vaccinations was due primarily to the prevalence of smallpox in the Presidency in epidemic form and to the enforcement of compulsory vaccination. The total number of compulsory operations during the year was the highest in the history of the Public Health Department. The cost of each successful case of vaccination during the year was practically the same as that in the previous year. The transfer of the vaccination administration from taluk boards to the District Boards effected during the year was an important change. Under the new arrangement, centralisation of the control of the vaccination staff, prompt action during epidemics and efficient administration have been secured. Several Presidents of District Boards delegated their powers of prosecution of offenders to District Health Officers. It is hoped that the Presidents of remaining District Boards also would do so at an early date.

16. *Water-supply—Municipalities.*—During the year under review two water-supply schemes were completed and handed over to the municipalities concerned, viz., Rajahmundry and Tiruvannamalai. The number of municipal towns equipped with protected water-supply schemes now stands at 41 as against 39 in the previous year. Six other new schemes were in progress in the following municipal towns:—

(1) Coimbatore, (2) Palacole, (3) Proddattur, (4) Saidapet, (5) Virudhunagar and (6) Walajapet. Improvements to the existing works were also in progress in several municipalities.

As regards the scheme for which detailed plans and estimates were submitted by the Sanitary Engineer, the Peddapuram water-supply scheme, and the scheme for the extension of water-supply to the Headquarters buildings at Ellore, have been sanctioned by the Government and necessary funds provided in the current year's budget for the execution of these two works. The plans and estimates for the Hindupur water-supply scheme have also been sanctioned, but its execution has been deferred for want of funds. The execution of the scheme of improvements to the Coganada water works will be taken up as soon as final orders are issued sanctioning the estimates which are now pending consideration with the Municipal Council. Further consideration of the proposal to extend the

water-supply scheme to the high level areas at Guntur has been deferred until the question, whether the comprehensive scheme of water-supply to the town will be taken up or not, is decided by the Council. As regards the schemes for which investigation reports have been received, the Government have since sanctioned the preparation of detailed plans and estimates for water-supply schemes for the following municipalities :—

- (1) Salem ... From the Mettur Reservoir.
- (2) Vizagapatam. Meghadrigedda Scheme.
- (3) Cuddapah ... Pennar Scheme.
- (4) Bezwada ... Re-arrangement of the distribution system.
- (5) Adoni ... Hagari Scheme.
- (6) Cuddalore ... New Town.
- (7) Srirangam ... Cheaper Scheme.

The reports relating to the Bodinayakanur, Gudiyattam and Udamalpet were pending consideration either with the Government or the Municipal Council concerned.

17. *Drainage—Municipalities.*—During the year under review the execution of the Salem Drainage Scheme (construction of intercepting sewers) was completed by the Public Works Department and the work was handed over to the municipality. Further progress was made in the execution of the Bezwada, Salem (construction of open drains) and the Tirupati drainage schemes; and the Chingleput (partial) scheme was taken up for execution. The Coimbatore scheme could not be taken up as the question of agency for its execution has not yet been settled. The preparation of plans and estimates was completed in the case of three schemes (Bellary, Negapatam and Rajahmundry) and it was in progress in the case of five schemes (Madanapalle, Kodaikanal, Cochin, Kurnool and Vizianagram). Plans and estimates for one of these schemes (Kurnool) have since been completed. The Government sanctioned during the year the investigation of drainage scheme for the Bodinayakanur Municipality.

*Water-supply—Panchayats.*—As regards Panchayat Boards, the execution of the Arkonam water-supply scheme is reported to be still in progress. The Government have since sanctioned the execution of the Pennukonda (Anantapur district) and Tiruvallur (Chingleput district) water-supply schemes. The execution of the Chodavaram water-supply scheme has been transferred from the Public Works Department to the Vizagapatam District Board. The plans and estimates for the Sembium water-supply scheme are under the scrutiny of the Chief Engineer and the question of ordering preparation of plans and estimates for a water-supply scheme for the Vayalpad Panchayat is under the consideration of the Government.

The question of accelerating the progress of water-supply and drainage schemes in the urban and rural areas in this Province is now under the consideration of the Government.

*Pumping Plant.*—As regards the condition of the pumping plants it is reported that the Boiler Inspection Department have made the usual inspection and recommended improvements wherever found necessary. It is observed that the following municipalities have failed to carry out these recommendations :—Bellary, Conjeevaram, Cuddapah, Erode and Tadpatri. The Commissioners of the Municipalities are requested to see that the recommendations of the Chief Inspector of Boilers are carried out. Under the orders issued in G.O. No. 1234-W., dated 27th May 1935, the Sanitary Engineer has ceased to exercise control over the Boiler Inspection Department. It has, however, been decided that one Inspector of Boilers along with two foremen fitters and one peon should be transferred for a period of one year to work as mechanical expert under the Sanitary Engineer for work relating to pumping plants and similar mechanical equipment for water-supply and drainage system pertaining to local bodies.

18. *Fairs and Festivals.*—Five hundred and seventy festivals were celebrated during the year. The arrangements for all the festivals in municipal areas were generally satisfactory. The recommendations of the Public Health Department were not carried out in full by a few district boards. The Government trust that local boards will make every attempt to give full effect to the recommendations of the Public Health Department in these matters. All the festivals during the first half year passed off without any outbreak of cholera, while during the second half there were a few imported cases in five important festivals but prompt and effective steps were taken to check the spread of the disease. In connexion with the Ardhodayam Festival, which takes place once in about 30 years and was celebrated in February 1935, special sanitary arrangements were made in a number of seaside places, the more important ones being Vedaranyam and Kodakkara in the Tanjore district, Rameswaram and Dhanuskodi in the Ramnad district, Mahabalipuram in the Chingleput district and Masulipatam in the Kistna district. It is gratifying to note that the arrangements were satisfactory in all the centres during this important festival. Very few local boards seem to have recognized the importance of carrying out permanent arrangements at perennial and important pilgrim centres. The Government trust that local boards will make a serious attempt to carry out such arrangements as early as possible.

*General.*—The problem of Public Health in this country is indeed huge, and Government note that the Public Health staff has been trying to grapple with it as effectively as possible. The increase in epidemics and in consequent mortality during the year, despite the strenuous efforts made by a vigilant health staff to

subdue and minimise the same, cannot but lead to the conclusion that the real remedy lies in devoting greater attention to factors such as provision of wholesome drinking water-supply, and provision of proper drainage facilities, etc., Government hope that these factors would receive greater attention from local bodies than has been the case hitherto; for on the manner in which these factors are solved, depends also the solution of the problem of reducing the intensity of diseases and deaths in this province. The administration of the Public Health Department was fairly satisfactory.

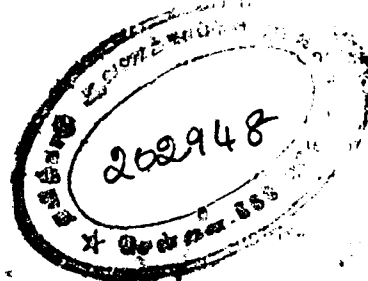
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R. SUBBAYYA,  
*Joint Secretary to Government.*

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 „ the Sanitary Engineer.  
 „ the Inspector-General of Prisons.  
 „ the Inspector-General of Police.  
 „ the Director of Public Instruction.  
 „ the Director of Civil Veterinary Department.  
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