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(2) புதுக்கித் திருப்பிய நாள்

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## தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

துறை

அரளாணை என்.  
மு. கோப்புத் தாள் என்.

அச்சகம்  
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Vital Statistics.

According to the Sanitary  
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on the returns of ———  
in the districts municipalities  
of Madras presidency for  
March 1899 and ordering their  
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Vital Statistics.

Recording the Sanitary Commissioner's remarks on the returns of—in the Districts and Municipalities of Madras Presidency for March 1889, and ordering their publication in the Fort St. George Gazette.

## GOVERNMENT OF MADRAS.

## PUBLIC DEPARTMENT.

READ—the following paper:—

From Surgeon-Major J. A. LAING, Sanitary Commissioner for Madras, to the Chief Secretary to Government, dated Madras, 15th July 1889, No. 924.

I have the honor to submit, for the information of Government and publication in the *Fort St. George Gazette*, the usual abstract statements of births and deaths in the districts and municipalities of the Madras Presidency for the month of March 1889.

2. The period on the whole appears to have been somewhat unhealthier than the preceding month, February, as indicated by a higher mortality. It is satisfactory, however, to note a diminution in the mortality from cholera and bowel-complaints; but small-pox and fevers were more fatal.

3. The total number of births registered was 63,075, against 54,075 in the previous month, of which 4,791 occurred in the municipalities, against 4,152 in February. The total deaths numbered 47,780, inclusive of 4,950 which took place in the towns. The numbers for February were 46,818 and 4,959 respectively.

4. Proportionally considered with the population (27,880,261 inclusive of towns) embraced by registration, the total births represent a ratio of 27·1 per mille per annum in the districts, and in the towns 30·9 on a population of 1,861,508. The total death-rates were 20·5 and 31·9 respectively. In the following table, these results are compared with the past months of the year, the corresponding month of the past year, and the average of five previous corresponding periods; and in the table subjoined the mortality rate of the presidency is contrasted with those of Bengal, North-west Provinces and Punjab:—

|                                  | Districts. |         |             |             | Municipalities. |         |             |             |
|----------------------------------|------------|---------|-------------|-------------|-----------------|---------|-------------|-------------|
|                                  | Births.    | Deaths. | Birth-rate. | Death-rate. | Births.         | Deaths. | Birth-rate. | Death-rate. |
| Average of 5 previous Marches .. | 61,847     | 47,056  | 26·7        | 20·3        | 4,101           | 4,547   | 31·2        | 30·6        |
| March 1888 .. .. .               | 63,962     | 47,145  | 27·8        | 20·5        | 4,790           | 4,703   | 31·0        | 20·5        |
| January 1889 .. .. .             | 63,441     | 65,584  | 27·3        | 28·2        | 4,623           | 6,234   | 29·8        | 49·1        |
| February .. .. .                 | 54,075     | 46,818  | 23·5        | 20·3        | 4,152           | 4,959   | 26·7        | 31·9        |
| March .. .. .                    | 63,075     | 47,780  | 27·1        | 20·5        | 4,791           | 4,950   | 30·9        | 31·9        |

|                              | Death rate<br>per mille<br>per annum. |
|------------------------------|---------------------------------------|
| Bengal .. .. .               | 20.7                                  |
| North-west Provinces .. .. . | 22.8                                  |
| Punjab .. .. .               | 22.2                                  |
| Madras .. .. .               | 20.5                                  |

5. How the different sexes and the several classes of the community were affected will be seen from the statement below; as usual, on the whole, the male element predominated:—

|                        | Sexes. |          |                                 | Classes.    |         |             |        | Ratio per mille per annum. |         |             |        |
|------------------------|--------|----------|---------------------------------|-------------|---------|-------------|--------|----------------------------|---------|-------------|--------|
|                        | Males. | Females. | Percentage of males to females. | Christians. | Hindus. | Mahomedans. | Total. | Christians.                | Hindus. | Mahomedans. | Total. |
| <i>Districts.</i>      |        |          |                                 |             |         |             |        |                            |         |             |        |
| Births .. .. .         | 32,681 | 30,394   | 107.5                           | 1,162       | 57,876  | 4,037       | 63,075 | 21.5                       | 27.3    | 26.6        | 27.1   |
| Deaths .. .. .         | 25,227 | 22,553   | 111.8                           | 825         | 44,079  | 2,876       | 47,780 | 15.2                       | 20.8    | 18.9        | 20.5   |
| <i>Municipalities.</i> |        |          |                                 |             |         |             |        |                            |         |             |        |
| Births .. .. .         | 2,514  | 2,277    | 110.4                           | 361         | 3,733   | 697         | 4,791  | 35.3                       | 30.3    | 32.0        | 30.9   |
| Deaths .. .. .         | 2,562  | 2,388    | 107.3                           | 285         | 3,931   | 734         | 4,950  | 27.9                       | 31.9    | 33.3        | 31.9   |

6. Taking each district and town individually, Bellary district stands at the top of the list with the highest birth-rate, 42.7 per mille per annum, and this position it has maintained for time past; while Godávári is at the bottom with only 15.5 per mille. In regard to the death-rates, Madras (town) returned the highest rate, 45.3, with 37.3 per mille, and Godávári is next above Nellore with 13.0. There appears to be no improvement in registration in the Godávári district, the defectiveness of recorded in Dindigul, and the lowest in Cuddalore, 11.6. Bezváda returned the highest birth-rate, 51.6, was death rate, 110.5 per mille, and Parlákimedi the lowest, 11.7. The high death-rate in or more than one half of the total (86) having occurred from this cause.

7. The following tables show the birth and death rates returned by each district and town, arranged in the order of sequence:—

| Districts.           | Birth-rate per mille per annum. | Districts.          | Birth-rate per mille per annum. | Districts.           | Death-rate per mille per annum. | Districts.           | Death-rate per mille per annum. |
|----------------------|---------------------------------|---------------------|---------------------------------|----------------------|---------------------------------|----------------------|---------------------------------|
| Bellary .. .. .      | 42.7                            | Kistna .. .. .      | 27.7                            | Madras .. .. .       | 45.3                            | Nilgiris .. .. .     | 19.9                            |
| Madras .. .. .       | 41.0                            | Tinnevely .. .. .   | 27.5                            | Kurnool .. .. .      | 37.3                            | Tinnevely .. .. .    | 19.6                            |
| Kurnool .. .. .      | 37.9                            | North Arcot .. .. . | 27.1                            | Bellary .. .. .      | 31.2                            | North Arcot .. .. .  | 19.5                            |
| Anantapur .. .. .    | 33.7                            | Tanjore .. .. .     | 24.9                            | South Arcot .. .. .  | 27.1                            | South Canara .. .. . | 19.2                            |
| South Canara .. .. . | 33.7                            | South Arcot .. .. . | 23.6                            | Ganjam .. .. .       | 25.6                            | Salem .. .. .        | 19.1                            |
| Coimbatore .. .. .   | 33.1                            | Malabar .. .. .     | 23.4                            | Chingleput .. .. .   | 23.8                            | Kistna .. .. .       | 17.5                            |
| Salem .. .. .        | 32.6                            | Nellore .. .. .     | 20.7                            | Cuddapah .. .. .     | 23.5                            | Coimbatore .. .. .   | 16.8                            |
| Chingleput .. .. .   | 32.4                            | Nilgiris .. .. .    | 20.3                            | Anantapur .. .. .    | 23.5                            | Malabar .. .. .      | 15.7                            |
| Madura .. .. .       | 31.1                            | Ganjam .. .. .      | 17.2                            | Tanjore .. .. .      | 23.3                            | Vizagapatam .. .. .  | 14.6                            |
| Trichinopoly .. .. . | 30.4                            | Vizagapatam .. .. . | 17.1                            | Trichinopoly .. .. . | 21.9                            | Godávári .. .. .     | 13.0                            |
| Cuddapah .. .. .     | 28.9                            | Godávári .. .. .    | 15.5                            | Madura .. .. .       | 19.9                            | Nellore .. .. .      | 12.2                            |

| Municipalities.     | Birth-rate per mille per annum. | Municipalities.      | Birth-rate per mille per annum. | Municipalities.     | Death rate per mille per annum. | Municipalities.      | Death-rate per mille per annum. |
|---------------------|---------------------------------|----------------------|---------------------------------|---------------------|---------------------------------|----------------------|---------------------------------|
| Dindigul .. .. .    | 51.6                            | Vizagapatam .. .. .  | 28.9                            | Bezváda .. .. .     | 110.5                           | Karúr .. .. .        | 27.4                            |
| Erode .. .. .       | 47.4                            | Karúr .. .. .        | 28.7                            | Kurnool .. .. .     | 59.6                            | Negapatam .. .. .    | 27.2                            |
| Bezváda .. .. .     | 43.7                            | Cuddapah .. .. .     | 28.4                            | Cuddapah .. .. .    | 51.8                            | Conjeeveram .. .. .  | 27.0                            |
| Salem .. .. .       | 43.5                            | Vellore .. .. .      | 27.8                            | Cochin .. .. .      | 51.2                            | Palni .. .. .        | 27.0                            |
| Tuticorin .. .. .   | 41.3                            | Cocanada .. .. .     | 27.6                            | Rajahmundry .. .. . | 50.3                            | Adóni .. .. .        | 26.7                            |
| Madras .. .. .      | 41.0                            | Wárajápet .. .. .    | 26.5                            | Madras .. .. .      | 45.3                            | Mayavaram .. .. .    | 26.0                            |
| Ongole .. .. .      | 40.4                            | Coonoor .. .. .      | 25.1                            | Srirangam .. .. .   | 44.3                            | Tirupatúr .. .. .    | 25.2                            |
| Coimbatore .. .. .  | 40.0                            | Kurnool .. .. .      | 24.2                            | Bellary .. .. .     | 43.3                            | Calicut .. .. .      | 25.0                            |
| Mangalore .. .. .   | 39.3                            | Berhampore .. .. .   | 23.9                            | Tuticorin .. .. .   | 42.7                            | Erode .. .. .        | 24.3                            |
| Cochin .. .. .      | 38.9                            | Rajahmundry .. .. .  | 23.9                            | Wárajápet .. .. .   | 41.6                            | Vellore .. .. .      | 22.6                            |
| Calicut .. .. .     | 38.7                            | Anakápalie .. .. .   | 23.3                            | Vizagapatam .. .. . | 39.6                            | Tellicherry .. .. .  | 22.5                            |
| Pálghat .. .. .     | 37.3                            | Vaniyambádi .. .. .  | 23.3                            | Berhampore .. .. .  | 35.6                            | Anakápalie .. .. .   | 22.4                            |
| Palamcottah .. .. . | 36.8                            | Guntúr .. .. .       | 23.2                            | Bindipatam .. .. .  | 34.9                            | Ootacamund .. .. .   | 22.3                            |
| Vizianagrum .. .. . | 35.6                            | Conjeeveram .. .. .  | 22.2                            | Ongole .. .. .      | 33.9                            | Cocanada .. .. .     | 22.0                            |
| Bindipatam .. .. .  | 34.9                            | Nellore .. .. .      | 21.8                            | Salem .. .. .       | 33.0                            | Pálghat .. .. .      | 21.2                            |
| Adóni .. .. .       | 34.8                            | Cannanore .. .. .    | 21.4                            | Dindigul .. .. .    | 32.2                            | Periyakulam .. .. .  | 21.1                            |
| Tellicherry .. .. . | 34.7                            | Parlákimedi .. .. .  | 21.0                            | Chicacole .. .. .   | 32.1                            | Tirupati .. .. .     | 19.9                            |
| Tirupatúr .. .. .   | 34.4                            | Negapatam .. .. .    | 20.5                            | Palamcottah .. .. . | 31.4                            | Nellore .. .. .      | 18.7                            |
| Madura .. .. .      | 32.9                            | Tanjore .. .. .      | 19.3                            | Mannárgudi .. .. .  | 30.9                            | Gudiyátam .. .. .    | 17.2                            |
| Bellary .. .. .     | 32.9                            | Masulipatam .. .. .  | 19.2                            | Vizianagrum .. .. . | 30.8                            | Guntúr .. .. .       | 17.1                            |
| Anantapur .. .. .   | 31.8                            | Chicacole .. .. .    | 19.0                            | Ellore .. .. .      | 29.6                            | Masulipatam .. .. .  | 16.4                            |
| Periyakulam .. .. . | 31.4                            | Mayavaram .. .. .    | 18.2                            | Anantapur .. .. .   | 29.3                            | Tinnevely .. .. .    | 15.5                            |
| Gudiyátam .. .. .   | 30.9                            | Tinnevely .. .. .    | 17.0                            | Coimbatore .. .. .  | 29.2                            | Trichinopoly .. .. . | 15.0                            |
| Palni .. .. .       | 30.6                            | Chidambaram .. .. .  | 16.9                            | Mangalore .. .. .   | 29.2                            | Coonoor .. .. .      | 15.0                            |
| Srirangam .. .. .   | 30.3                            | Tirupati .. .. .     | 16.3                            | Chidambaram .. .. . | 29.0                            | Cuddalore .. .. .    | 13.5                            |
| Kumbakónam .. .. .  | 30.2                            | Ellore .. .. .       | 15.8                            | Madura .. .. .      | 29.0                            | Vaniyambádi .. .. .  | 13.5                            |
| Ootacamund .. .. .  | 30.1                            | Trichinopoly .. .. . | 14.0                            | Kumbakónam .. .. .  | 28.5                            | Cannanore .. .. .    | 13.2                            |
| Mannárgudi .. .. .  | 29.0                            | Cuddalore .. .. .    | 11.6                            | Tanjore .. .. .     | 27.8                            | Parlákimedi .. .. .  | 11.7                            |

8. *Principal causes of Death.*—The following table shows the deaths from the principal specified causes:—

|                        | Cholera. | Small-pox. | Fevers. | Bowel-complaints. | Injuries. | All other causes. | Total deaths. |
|------------------------|----------|------------|---------|-------------------|-----------|-------------------|---------------|
| <i>Districts.</i>      |          |            |         |                   |           |                   |               |
| March 1888 .. .. .     | 4,423    | 2,562      | 16,525  | 1,823             | 989       | 20,823            | 47,145        |
| January 1889 .. .. .   | 10,555   | 3,089      | 19,869  | 3,236             | 883       | 27,952            | 65,584        |
| February .. .. .       | 5,050    | 3,077      | 15,065  | 2,176             | 793       | 20,657            | 46,818        |
| March .. .. .          | 3,695    | 4,128      | 16,282  | 2,096             | 949       | 20,629            | 47,780        |
| <i>Municipalities.</i> |          |            |         |                   |           |                   |               |
| March 1888 .. .. .     | 412      | 302        | 1,087   | 568               | 57        | 2,337             | 4,703         |
| January 1889 .. .. .   | 1,682    | 170        | 1,171   | 899               | 53        | 2,859             | 6,234         |
| February .. .. .       | 619      | 193        | 1,061   | 618               | 52        | 2,416             | 4,959         |
| March .. .. .          | 306      | 290        | 1,095   | 596               | 55        | 2,608             | 4,950         |

9. *Cholera*—caused 3,695 deaths, against 5,050 in the preceding month. Of these, 306 occurred in the towns, against 619. Among the districts, the greatest stress of the disease fell on South Arcot, which returned 925 deaths. Next to it Tanjore suffered the most with 668 deaths, and next to it again Tinnevely with 433. Three districts—Bellary, Anantapur and Nilgiris—returned no deaths. In Ganjam, only 82 cholera deaths were recorded, notwithstanding the existence of scarcity amounting to famine in some portions of the district and the consequent undue prevalence of cholera. According to the season reports, the deaths from the week ending 9th to that ending 30th March amount to 156, and this is exclusive of two days in the beginning and one day at the end of the month. This has been brought to the notice of the Collector of the district for inquiry. Among the towns, Salem suffered the most from cholera, 73 deaths, and then Bezváda, 48. Thirty-three towns escaped with no deaths, while in six only a single death was recorded in each.

10. The deaths from *small-pox* numbered 4,128 in the districts inclusive of towns, against 3,077 in the previous month. In the towns alone, they were 290,

against 193. In no district was the disease ever absent during the month. It caused the greatest mortality in Kurnool, 707; Ganjam, 640; Bellary, 607. In Nilgiris, only a solitary death was recorded. Among the towns, Vizagapatam (40), Bellary, (35), and Berhampore (34), lost the greatest number of persons from small-pox. The disease was entirely absent in twenty-seven towns, and in five only one death was recorded in each.

11. *Fevers*—caused 16,283 deaths, against 15,065 in February, of which 1,095 were returned by the municipalities against 1,061. As usual, all the districts and towns suffered; but the greatest mortality among the districts occurred in Malabar, 1,406; Cuddapah, 1,393; North Arcot, 1,206; and Vizagapatam, 1,197. Nilgiris returned the lowest number, 85. Among the towns, Madras suffered by far the most, 348 deaths, the number next to it being 67, which occurred in Bellary.

12. The mortality from *bowel-complaints* amounted to 2,096 in the districts, against 2,176 in the preceding month. Of these, 596 were recorded in the towns, against 618. Deaths from bowel-complaints occurred in all the districts; the greatest number returned was by Chingleput, 293, and the smallest by Nilgiris, 9. Among the towns, as from fevers so also from bowel-complaints, by far the greatest mortality, 218, occurred in Madras; Madura returned the next highest number, 50. From five towns the returns were *nil*, and nine returned only one death each.

13. *Injuries* were the cause of death in 949 instances in the districts, against 793 in the previous month. In the towns, the deaths numbered 55, against 52. The mortality from "*all other causes*" not specified amounted to 20,629 in the districts, against 20,657 in the month previous. Of these, 2,608 were registered in the towns, against 2,416 in the previous month. Of the deaths from injuries, 211 were self-inflicted, 559 were caused by wounds and accidents, and 179 by snakes and wild beasts.

14. The following tables show the deaths from each of the several specified diseases, arranged in the order of occurrence:—

| Districts.      | Cholera. | Districts.      | Small-pox. | Districts.      | Fevers. | Districts.      | Bowel-complaints. |
|-----------------|----------|-----------------|------------|-----------------|---------|-----------------|-------------------|
| South Arcot ..  | 925      | Kurnool ..      | 707        | Malabar ..      | 1,406   | Chingleput ..   | 293               |
| Tanjore ..      | 668      | Ganjam ..       | 640        | Cuddapah ..     | 1,393   | Malabar ..      | 265               |
| Tinnevelly ..   | 432      | Bellary ..      | 607        | North Arcot ..  | 1,206   | Madras ..       | 218               |
| Trichinopoly .. | 273      | South Arcot ..  | 361        | Vizagapatam ..  | 1,197   | Tanjore ..      | 182               |
| Kistna ..       | 227      | Malabar ..      | 294        | Coimbatore ..   | 1,087   | Tinnevelly ..   | 156               |
| North Arcot ..  | 216      | Cuddapah ..     | 270        | Kurnool ..      | 1,075   | South Canara .. | 108               |
| Madura ..       | 191      | North Arcot ..  | 193        | South Arcot ..  | 1,030   | South Arcot ..  | 97                |
| Godavari ..     | 154      | Vizagapatam ..  | 174        | Salem ..        | 1,009   | South Arcot ..  | 88                |
| Salem ..        | 149      | Salem ..        | 162        | Ganjam ..       | 927     | Coimbatore ..   | 87                |
| Cuddapah ..     | 137      | Madura ..       | 153        | Godavari ..     | 856     | Madura ..       | 86                |
| Ganjam ..       | 82       | Tanjore ..      | 152        | Kistna ..       | 856     | Nellore ..      | 78                |
| Coimbatore ..   | 60       | Anantapur ..    | 121        | Madura ..       | 589     | Salem ..        | 73                |
| Malabar ..      | 50       | South Canara .. | 70         | Nellore ..      | 516     | Godavari ..     | 65                |
| Vizagapatam ..  | 43       | Coimbatore ..   | 60         | Bellary ..      | 476     | Trichinopoly .. | 57                |
| Chingleput ..   | 42       | Trichinopoly .. | 58         | Chingleput ..   | 464     | Cuddapah ..     | 57                |
| Kurnool ..      | 17       | Chingleput ..   | 31         | Trichinopoly .. | 461     | Bellary ..      | 44                |
| South Canara .. | 13       | Kistna ..       | 28         | South Canara .. | 459     | Ganjam ..       | 39                |
| Nellore ..      | 10       | Nellore ..      | 19         | Tinnevelly ..   | 380     | Kistna ..       | 32                |
| Madras ..       | 6        | Tinnevelly ..   | 14         | Madras ..       | 348     | Kurnool ..      | 22                |
| Bellary ..      | ..       | Madras ..       | 10         | Anantapur ..    | 248     | Anantapur ..    | 21                |
| Anantapur ..    | ..       | Godavari ..     | 3          | Tanjore ..      | 215     | Vizagapatam ..  | 19                |
| Nilgiris ..     | ..       | Nilgiris ..     | 1          | Nilgiris ..     | 85      | Nilgiris ..     | 9                 |

| Municipalities. | Cholera. | Municipalities. | Small-pox. | Municipalities. | Fevers. | Municipalities. | Bowel-complaints. |
|-----------------|----------|-----------------|------------|-----------------|---------|-----------------|-------------------|
| Salem ..        | 73       | Vizagapatam ..  | 40         | Madras ..       | 348     | Madras ..       | 218               |
| Bezvada ..      | 48       | Bellary ..      | 35         | Bellary ..      | 67      | Madura ..       | 50                |
| Negapatam ..    | 32       | Berhampore ..   | 34         | Kurnool ..      | 49      | Tanjore ..      | 35                |
| Cochin ..       | 29       | Adoni ..        | 22         | Madura ..       | 36      | Negapatam ..    | 33                |
| Ellore ..       | 25       | Calicut ..      | 19         | Vellore ..      | 29      | Kumbakonam ..   | 18                |
| Rajahmundry ..  | 22       | Vizianagrum ..  | 18         | Trichinopoly .. | 24      | Calicut ..      | 18                |
| Cuddapah ..     | 21       | Kurnool ..      | 15         | Rajahmundry ..  | 23      | Cocanada ..     | 11                |
| Palamcottah ..  | 11       | Tanjore ..      | 12         | Tanjore ..      | 23      | Conjeeveram ..  | 11                |
| Tuticorin ..    | 9        | Madras ..       | 10         | Coimbatore ..   | 23      | Rajahmundry ..  | 10                |
| Madras ..       | 6        | Chicacole ..    | 8          | Kumbakonam ..   | 22      | Chidambaram ..  | 10                |
| Cuddalore ..    | 5        | Mannargudi ..   | 8          | Negapatam ..    | 21      | Trichinopoly .. | 10                |
| Palni ..        | 5        | Vellore ..      | 8          | Salem ..        | 20      | Mangalore ..    | 10                |
| Mannargudi ..   | 4        | Kumbakonam ..   | 7          | Vizagapatam ..  | 18      | Srirangam ..    | 9                 |
| Chidambaram ..  | 3        | Coimbatore ..   | 7          | Vizianagrum ..  | 17      | Mayavaram ..    | 9                 |
| Karur ..        | 3        | Cuddalore ..    | 6          | Chidambaram ..  | 17      | Tuticorin ..    | 9                 |
| Masulipatam ..  | 2        | Cannanore ..    | 6          | Cuddapah ..     | 17      | Mannargudi ..   | 8                 |
| Tanjore ..      | 2        | Anakapalle ..   | 5          | Berhampore ..   | 16      | Palamcottah ..  | 8                 |
| Berhampore ..   | 1        | Bezvada ..      | 5          | Mangalore ..    | 15      | Cuddapah ..     | 8                 |
| Vizianagrum ..  | 1        | Chidambaram ..  | 5          | Tellicherry ..  | 15      | Ongole ..       | 7                 |
| Guntur ..       | 1        | Trichinopoly .. | 5          | Conjeeveram ..  | 14      | Berhampore ..   | 6                 |
| Nellore ..      | 1        | Palni ..        | 4          | Srirangam ..    | 14      | Bezvada ..      | 6                 |
| Mayavaram ..    | 1        | Negapatam ..    | 2          | Chicacole ..    | 13      | Tinnevelly ..   | 6                 |
| Calicut ..      | 1        | Gudiyatam ..    | 2          | Tuticorin ..    | 13      | Salem ..        | 6                 |
| Chicacole ..    | ..       | Salem ..        | 2          | Tirupati ..     | 13      | Coimbatore ..   | 6                 |
| Parlakimedi ..  | ..       | Bimlipatam ..   | 1          | Calicut ..      | 13      | Vizagapatam ..  | 5                 |
| Vizagapatam ..  | ..       | Rajahmundry ..  | 1          | Ellore ..       | 12      | Ellore ..       | 5                 |
| Bimlipatam ..   | ..       | Dindigul ..     | 1          | Nellore ..      | 12      | Walajapet ..    | 5                 |
| Anakapalle ..   | ..       | Walajapet ..    | 1          | Cuddalore ..    | 12      | Karur ..        | 5                 |
| Cocanada ..     | ..       | Erode ..        | 1          | Tirupatur ..    | 12      | Ootacamund ..   | 5                 |
| Ongole ..       | ..       | Parlakimedi ..  | ..         | Palghat ..      | 12      | Palghat ..      | 6                 |
| Conjeeveram ..  | ..       | Cocanada ..     | ..         | Parlakimedi ..  | 11      | Periyakulam ..  | 4                 |
| Trichinopoly .. | ..       | Ellore ..       | ..         | Periyakulam ..  | 11      | Dindigul ..     | 4                 |
| Srirangam ..    | ..       | Masulipatam ..  | ..         | Adoni ..        | 11      | Vellore ..      | 4                 |
| Kumbakonam ..   | ..       | Guntur ..       | ..         | Vaniyambadi ..  | 11      | Bimlipatam ..   | 3                 |
| Madura ..       | ..       | Nellore ..      | ..         | Bezvada ..      | 10      | Vizianagrum ..  | 3                 |
| Periyakulam ..  | ..       | Ongole ..       | ..         | Gudiyatam ..    | 8       | Gudiyatam ..    | 3                 |
| Dindigul ..     | ..       | Conjeeveram ..  | ..         | Mayavaram ..    | 7       | Tellicherry ..  | 3                 |
| Tinnevelly ..   | ..       | Srirangam ..    | ..         | Dindigul ..     | 7       | Cochin ..       | 3                 |
| Kurnool ..      | ..       | Mayavaram ..    | ..         | Karur ..        | 7       | Chicacole ..    | 2                 |
| Bellary ..      | ..       | Madura ..       | ..         | Walajapet ..    | 6       | Anakapalle ..   | 2                 |
| Adoni ..        | ..       | Periyakulam ..  | ..         | Ootacamund ..   | 6       | Nellore ..      | 2                 |
| Anantapur ..    | ..       | Tinnevelly ..   | ..         | Anakapalle ..   | 6       | Kurnool ..      | 2                 |
| Vellore ..      | ..       | Palamcottah ..  | ..         | Masulipatam ..  | 5       | Guntur ..       | 1                 |
| Gudiyatam ..    | ..       | Tuticorin ..    | ..         | Guntur ..       | 5       | Cuddalore ..    | 1                 |
| Walajapet ..    | ..       | Cuddapah ..     | ..         | Ongole ..       | 5       | Palni ..        | 1                 |
| Tirupati ..     | ..       | Anantapur ..    | ..         | Mannargudi ..   | 5       | Bellary ..      | 1                 |
| Vaniyambadi ..  | ..       | Tirupati ..     | ..         | Anantapur ..    | 5       | Adoni ..        | 1                 |
| Tirupatur ..    | ..       | Vaniyambadi ..  | ..         | Cochin ..       | 5       | Tirupatur ..    | 1                 |
| Coimbatore ..   | ..       | Karur ..        | ..         | Bimlipatam ..   | 4       | Erode ..        | 1                 |
| Erode ..        | ..       | Palni ..        | ..         | Coonoor ..      | 4       | Coonoor ..      | 1                 |
| Ootacamund ..   | ..       | Ootacamund ..   | ..         | Cocanada ..     | 3       | Cannanore ..    | 1                 |
| Coonoor ..      | ..       | Coonoor ..      | ..         | Erode ..        | 3       | Parlakimedi ..  | ..                |
| Mangalore ..    | ..       | Tellicherry ..  | ..         | Cannanore ..    | 3       | Masulipatam ..  | ..                |
| Tellicherry ..  | ..       | Palghat ..      | ..         | Tinnevelly ..   | 2       | Anantapur ..    | ..                |
| Palghat ..      | ..       | Cochin ..       | ..         | Palamcottah ..  | 2       | Tirupati ..     | ..                |
| Cannanore ..    | ..       | ..              | ..         | ..              | ..      | Vaniyambadi ..  | ..                |

15. *Towns of 25,000 inhabitants and upwards.*—The registered events in these towns (Ootacamund included) in a population of 906,380 amounted in March to 2,077 births and 1,945 deaths, yielding ratios of 27·5 and 25·7 per mille per annum respectively. Compared with the registered results of the twenty-eight great towns of England and Wales and the first-class towns of Bengal, they stand thus:—

|                                                  | Birth-rate<br>per mille<br>per annum. | Death-rate<br>per mille<br>per annum. |
|--------------------------------------------------|---------------------------------------|---------------------------------------|
| Twenty-eight great towns of England and Wales .. | 30·3                                  | 19·0                                  |
| First-class towns of Bengal .. .. .              | 20·9                                  | 21·9                                  |
| Do. of Madras .. .. .                            | 27·5                                  | 25·7                                  |

16. The following table gives the particulars for each of the towns:—

|                    | Popula-<br>tion. | Cholera. | Small-<br>pox. | Fevers. | Bowel-<br>complaints. | Injuries. | All other<br>causes. | Total<br>deaths. | Total<br>births. |
|--------------------|------------------|----------|----------------|---------|-----------------------|-----------|----------------------|------------------|------------------|
| Trichinopoly .. .. | 84,449           | ..       | 5              | 24      | 10                    | 3         | 64                   | 106              | 99               |
| Madura .. ..       | 76,847           | ..       | ..             | 36      | 50                    | 3         | 97                   | 186              | 211              |
| Salem .. ..        | 59,631           | 73       | 2              | 20      | 6                     | 3         | 60                   | 164              | 216              |
| Calicut .. ..      | 57,085           | 1        | 19             | 13      | 18                    | 4         | 64                   | 119              | 184              |
| Tanjore .. ..      | 54,745           | 2        | 12             | 23      | 35                    | ..        | 55                   | 127              | 88               |
| Negapatam .. ..    | 53,776           | 32       | 2              | 21      | 33                    | ..        | 34                   | 122              | 92               |
| Bellary .. ..      | 53,460           | ..       | 35             | 67      | 1                     | 1         | 89                   | 193              | 147              |
| Kumbakonam .. ..   | 50,098           | ..       | 7              | 22      | 18                    | ..        | 72                   | 119              | 126              |
| Cuddalore .. ..    | 43,545           | 5        | 6              | 12      | 1                     | ..        | 25                   | 49               | 42               |
| Vellore .. ..      | 40,958           | ..       | 8              | 29      | 4                     | ..        | 36                   | 77               | 95               |
| Coimbatore .. ..   | 38,967           | ..       | 7              | 23      | 6                     | 1         | 58                   | 95               | 130              |
| Conjeeveram .. ..  | 37,275           | ..       | ..             | 14      | 11                    | 1         | 58                   | 84               | 69               |
| Palghat .. ..      | 36,339           | ..       | ..             | 12      | 5                     | ..        | 48                   | 65               | 113              |
| Masulipatam .. ..  | 35,056           | 2        | ..             | 5       | ..                    | 1         | 40                   | 48               | 56               |
| Mangalore .. ..    | 32,099           | ..       | ..             | 15      | 10                    | 1         | 52                   | 78               | 105              |
| Cocanada .. ..     | 30,441           | ..       | ..             | 3       | 11                    | ..        | 42                   | 56               | 70               |
| Vizagapatam .. ..  | 30,291           | ..       | 40             | 18      | 5                     | 1         | 36                   | 100              | 73               |
| Nellore .. ..      | 27,505           | 1        | ..             | 12      | 2                     | 4         | 24                   | 43               | 50               |
| Cannanore .. ..    | 26,386           | ..       | 6              | 3       | 1                     | ..        | 19                   | 29               | 47               |
| Ellore .. ..       | 25,092           | 25       | ..             | 12      | 5                     | ..        | 20                   | 62               | 33               |
| Ootacamund .. ..   | 12,335           | ..       | ..             | 6       | 5                     | ..        | 12                   | 23               | 31               |
| Total .. ..        | 906,380          | 141      | 149            | 390     | 237                   | 23        | 1,005                | 1,945            | 2,077            |

ORDER—dated 31st July 1889, No. 641, Public.

Recorded.

2. The returns will be published in the *Fort St. George Gazette*.

(True Extract.)

J. F. PRICE,  
*Chief Secretary.*

To the Revenue Department.

„ Board of Revenue.

„ Surgeon-General with the Government of Madras.

„ Sanitary Commissioner for Madras.

Exd. A. Raitt.

Govt. of {1889} Madras.  
PUBLIC.

Public {188 } Dept.

PROCEEDINGS OF THE MADRAS GOVT.

Dated 188 , No.

*Issued*

*Recd.*

*Encl.*

G.O., 31st July 1889, No. 641.

JULY.

27

**Vital Statistics.**

Recording the Sanitary Commissioner's remarks  
on the returns of—in the Districts and Munici-  
palities of Madras Presidency for March 1889,  
and ordering their publication in the *Fort St.*  
*George Gazette.*

PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

letter from the Sanitary Commissioner, dated 15<sup>th</sup> July 1889 No. 924

ORDER THEREON, 31 July 1889 No. 641

Recorded.

The returns will be published in the Fort St. George Gazette.

To the Revenue Department.

- " Board of Revenue.
- " Surgeon-General with the Government of Madras.
- " Sanitary Commissioner.

H. E.

PUBLIC DEPARTMENT.  
(Sanitary).

No. 642 of 1889.

To

THE UNDER SECRETARY OF  
STATE FOR INDIA.

SIR,

I AM directed to forward, for the information of the Right Honorable the Secretary of State for India, copy of the Proceedings of this Government, No. 642 Public, of to-day's date, recording the Sanitary Commissioner's remarks on the returns of vital statistics in the several districts in this Presidency, for the month of

March 1889.

2. The statistics are annexed.

Chief Secretary,

Public Department

From

Surgeon Major J. A. Loring  
Sanitary Commissioner  
for Madras

To

The Chief Secretary  
to Government  
Public Department

Dated 15<sup>th</sup> }  
Dated 20<sup>th</sup> } July 1889  
Recd

No. 924

enclosed

Subject

Submits Vital Statistical  
Reports of the districts and  
municipalities of the Madras  
Presidency for March 1889.

|              | Population | Cholera | Small-pox | Fever | Bowel com-plaints | Erysipelas | All other causes | Total deaths | Total births |
|--------------|------------|---------|-----------|-------|-------------------|------------|------------------|--------------|--------------|
| Trichinopoly | 84449      | .       | 5         | 24    | 10                | 3          | 64               | 106          | 99           |
| Madura       | 76847      | .       | .         | 36    | 50                | 3          | 97               | 186          | 211          |
| Salem        | 59631      | 73      | 2         | 20    | 6                 | 3          | 60               | 164          | 216          |
| Calicut      | 57085      | 1       | 19        | 13    | 18                | 4          | 64               | 119          | 184          |
| Tanjore      | 54745      | 2       | 12        | 23    | 35                | .          | 55               | 127          | 88           |
| Vengalpatam  | 53776      | 32      | 2         | 21    | 33                | .          | 34               | 122          | 92           |
| Bellary      | 53460      | .       | 35        | 67    | 1                 | 1          | 89               | 193          | 147          |
| Kumbakonam   | 50098      | .       | 7         | 22    | 18                | .          | 72               | 119          | 126          |
| Andalore     | 43545      | 5       | 6         | 12    | 1                 | .          | 25               | 49           | 42           |
| Kellore      | 40958      | .       | 8         | 29    | 4                 | .          | 36               | 77           | 95           |
| Coimbatore   | 38967      | .       | 7         | 23    | 6                 | 1          | 58               | 95           | 130          |
| Carpeveram   | 37275      | .       | .         | 14    | 11                | 1          | 58               | 84           | 69           |
| Palghat      | 36339      | .       | .         | 12    | 5                 | .          | 48               | 65           | 113          |
| Masulipatam  | 35056      | 2       | .         | 5     | .                 | 1          | 40               | 48           | 56           |
| Mangalore    | 32099      | .       | .         | 15    | 10                | 1          | 52               | 78           | 105          |
| Goanada      | 30441      | .       | .         | 3     | 11                | .          | 42               | 56           | 70           |
| Vizagapatam  | 30291      | .       | 40        | 18    | 5                 | 1          | 36               | 100          | 73           |
| Kellore      | 27505      | 1       | .         | 12    | 2                 | 4          | 24               | 43           | 50           |
| Channore     | 26386      | .       | 6         | 3     | 1                 | .          | 19               | 29           | 47           |
| Ellore       | 25092      | 25      | .         | 12    | 5                 | .          | 20               | 62           | 33           |
| Cotacamund   | 12335      | .       | .         | 6     | 5                 | .          | 12               | 23           | 31           |
| Total        | 906380     | 141     | 149       | 390   | 237               | 23         | 1005             | 1945         | 2077         |

I have the honor to be

Sir

your most obedt servant

Jas. Anderson *Surgeon Major*

15 Towns of 25000 inhabitants and upwards. The registered events in these towns (Cotacamund included) in a population of 906,380 amounted in March to 2077 births and 1945 deaths, yielding ratios of 27.5 and 25.7 per mille per annum respectively. Compared with the registered results of the twenty-eight great towns of England and Wales and the first class towns of Bengal they stand thus:-

|                                               | Birth rate per mille per annum | Death rate per mille per annum |
|-----------------------------------------------|--------------------------------|--------------------------------|
| Twenty-eight great towns of England and Wales | 30.3                           | 19.0                           |
| First class towns of Bengal                   | 20.9                           | 21.9                           |
| _____ of Madras                               | 27.5                           | 25.7                           |

16 The following table gives the particulars for each of the towns.



the districts against 793 in the previous month. In the towns the deaths numbered 55 against 52. The mortality from "all other causes" not specified amounted to 20,629 in the districts against 20,657 in the month previous. Of these 2,608 were registered in the towns against 2,416 in the previous month. Of the deaths from injuries 211 were self-inflicted, 559 were caused by wounds and accidents and 179 by snakes and wild beasts.

14 The following tables show the deaths from each of the several specified diseases arranged in the order of occurrence.

most 348 deaths, the number next to it being 67 which occurred in Bellary.

12 The mortality from bowel-complaints amounted to 2096 in the districts against 2176 in the preceding month. Of these 596 were recorded in the towns against 618. Deaths from bowel-complaints occurred in all the districts; the greatest number returned was by Chingleput 293 and the smallest by Nilgiris 9. Among the towns as from fevers so also from bowel-complaints by far the greatest mortality, 218, occurred in Madras; Madurai returned the next highest number 50. From five towns the returns were nil and nine returned only one death each.

13 Injuries were the cause of death in 949 instances in the

was the disease ever absent during the month. It caused the greatest mortality in Kurnool 707, Ganyam 640, Bellary 607. In Nilgiris only a solitary death was recorded. Among the towns Vizagapatam, 40, Bellary, 35, and Berhampore, 34, lost the greatest number of persons from small-pox. The disease was entirely absent in twenty seven towns and in five only one death was recorded in each.

11 Fevers caused 16,283 deaths against 15065 in February, of which 1095 were returned by the municipalities against 1061. As usual all the districts and towns suffered, but the greatest mortality among the districts occurred in <sup>Malabar 144</sup> Cuddalore 1393, North Arcot 1206 and Vizagapatam 1197. Nilgiris returned the lowest number 85. Among the towns Madras suffered by far the most

the existence of scarcity, amounting to famine in some portions of the district and the consequent undue prevalence of cholera. According to the Season Reports the deaths from the week ending 9<sup>th</sup> to that ending 30<sup>th</sup> March, amount to 156 and this is exclusive of two days in the beginning and one day at the end of the month. This has been brought to the notice of the collector of the district for enquiry. Among the towns Salem suffered the most from cholera 73 deaths and then Bellary 48. — Thirty three towns escaped with no deaths while in six only a single death was recorded in each.

10 The deaths from Small-pox numbered 4128 in the districts inclusive of towns against 3077 in the previous month. In the towns alone they were 290 against 193. In no district

was

8. Principal causes of death:- The following table shows the deaths from the principal specified causes.

|                       |      | Cholera | Small-pox | Fever | Bowel complaints | Dysentery | All other causes | Total deaths |
|-----------------------|------|---------|-----------|-------|------------------|-----------|------------------|--------------|
| <u>Districts</u>      |      |         |           |       |                  |           |                  |              |
| March                 | 1888 | 4423    | 2562      | 16525 | 1823             | 989       | 20823            | 47145        |
| January               | 1889 | 10555   | 3089      | 19869 | 3236             | 883       | 27952            | 65584        |
| February              | .    | 5050    | 3077      | 16865 | 2176             | 793       | 20657            | 46818        |
| March                 | .    | 3695    | 4128      | 16283 | 2096             | 949       | 20629            | 47780        |
| <u>Municipalities</u> |      |         |           |       |                  |           |                  |              |
| March                 | 1888 | 412     | 302       | 1087  | 508              | 57        | 2337             | 4703         |
| January               | 1889 | 1082    | 170       | 1171  | 899              | 53        | 2859             | 6234         |
| February              | .    | 619     | 193       | 1061  | 618              | 52        | 2416             | 4759         |
| March                 | .    | 306     | 290       | 1095  | 596              | 55        | 2608             | 4950         |

9. Cholera caused 3695 deaths — against 5050 in the preceding month. Of these 306 occurred in the towns — against 619. Among the districts, the greatest stress of the disease fell on — South Arcot, which returned 925 deaths. Next to it Tanjore suffered the most — with 668 deaths and next to it again Tirunelveli 432. Three districts Bellary, Anantapur and Nilgiris returned no deaths. In Ganjam only 82 cholera deaths were recorded, notwithstanding the

| Municipalities | Birth rate per mille per annum | Municipalities | Death rate per mille per annum |
|----------------|--------------------------------|----------------|--------------------------------|
| Dundigol       | 51.6                           | Bezwada        | 110.5                          |
| Brook          | 47.4                           | Kurnool        | 59.6                           |
| Bezwada        | 43.7                           | Cuddalore      | 57.8                           |
| Salem          | 43.5                           | Cochin         | 57.2                           |
| Tuticorin      | 41.3                           | Rajahmundry    | 50.3                           |
| Madras         | 41.0                           | Madras         | 45.3                           |
| Ongole         | 40.2                           | Srirangam      | 44.3                           |
| Chimbatore     | 39.2                           | Bellary        | 43.3                           |
| Mangalore      | 39.3                           | Tuticorin      | 42.7                           |
| Cochin         | 38.9                           | Malapatt       | 41.6                           |
| Calicut        | 38.7                           | Vizagapatam    | 39.6                           |
| Palghat        | 37.3                           | Bushampore     | 35.6                           |
| Palamestah     | 36.8                           | Bimlipatam     | 36.9                           |
| Vizianagaram   | 35.6                           | Ongole         | 33.9                           |
| Bimlipatam     | 34.9                           | Salem          | 32.0                           |
| Adoni          | 34.8                           | Dundigol       | 32.2                           |
| Tellicherry    | 34.7                           | Chitpale       | 32.1                           |
| Triplicat      | 34.4                           | Palamestah     | 31.4                           |
| Madras         | 32.9                           | Manamagudi     | 30.9                           |
| Bellary        | 32.9                           | Vizianagaram   | 30.8                           |
| Anantapur      | 31.8                           | Ellore         | 29.8                           |
| Periyakulam    | 31.4                           | Anantapur      | 29.3                           |
| Yudiyatam      | 30.9                           | Chimbatore     | 29.2                           |
| Palhi          | 30.6                           | Mangalore      | 29.2                           |
| Srirangam      | 30.3                           | Chellumburam   | 29.0                           |
| Kumbakonam     | 30.2                           | Madras         | 29.0                           |
| Ottamund       | 30.1                           | Kumbakonam     | 28.5                           |
| Manamagudi     | 29.0                           | Tanjore        | 27.8                           |
| Vizagapatam    | 28.9                           | Parur          | 27.4                           |
| Karur          | 28.7                           | Nagapatam      | 27.2                           |
| Cuddalore      | 28.4                           | Chinnuram      | 27.0                           |
| Vellore        | 27.8                           | Palhi          | 27.0                           |
| Kocanada       | 27.6                           | Adoni          | 26.7                           |
| Malapatt       | 26.5                           | Mayavaram      | 26.0                           |
| Coimbatore     | 25.1                           | Triplicat      | 25.2                           |
| Kurnool        | 24.2                           | Calicut        | 25.0                           |
| Bushampore     | 23.9                           | Brook          | 24.3                           |
| Rajahmundry    | 23.9                           | Vellore        | 22.6                           |
| Anakapalle     | 23.3                           | Tellicherry    | 22.6                           |
| Vaniyambadi    | 23.3                           | Anakapalle     | 22.6                           |
| Yutur          | 23.2                           | Ottamund       | 22.3                           |
| Chinnuram      | 22.2                           | Coimbatore     | 22.0                           |
| Vellore        | 21.8                           | Palghat        | 21.2                           |
| Gannanore      | 21.4                           | Periyakulam    | 21.1                           |
| Parlakimedi    | 21.0                           | Triplicat      | 19.9                           |
| Nagapatam      | 20.5                           | Vellore        | 18.7                           |
| Tanjore        | 19.3                           | Yudiyatam      | 17.2                           |
| Malapatt       | 19.2                           | Quilcher       | 17.1                           |
| Chitpale       | 19.0                           | Malapatt       | 16.4                           |
| Mayavaram      | 18.2                           | Tirunelveli    | 15.5                           |
| Tirunelveli    | 17.0                           | Tirunelveli    | 15.0                           |
| Chellumburam   | 16.9                           | Coimbatore     | 15.0                           |
| Triplicat      | 16.3                           | Cuddalore      | 13.5                           |
| Ellore         | 15.8                           | Vaniyambadi    | 13.5                           |
| Tirunelveli    | 14.0                           | Chinnuram      | 13.2                           |
| Cuddalore      | 11.6                           | Parlakimedi    | 11.7                           |

accounted for by a comparatively heavy mortality from cholera - 48 deaths, or more than one half of the total, 86, having occurred from this cause.

7. The following tables show the birth and death rates returned by each district and town arranged in the order of sequence.

| Districts    | Birth rate<br>per mille<br>per annum | Districts    | Death rate<br>per mille<br>per annum |
|--------------|--------------------------------------|--------------|--------------------------------------|
| Bellary      | 42.7                                 | Madras       | 45.3                                 |
| Madras       | 41.0                                 | Kurnool      | 37.3                                 |
| Kurnool      | 37.9                                 | Bellary      | 37.2                                 |
| Anantapur    | 33.7                                 | South Arcot  | 27.1                                 |
| South Canara | 33.7                                 | Ganjam       | 25.6                                 |
| Coimbatore   | 33.4                                 | Chingleput   | 25.8                                 |
| Salem        | 32.6                                 | Buddalore    | 23.5                                 |
| Chingleput   | 32.4                                 | Anantapur    | 23.5                                 |
| Madura       | 31.1                                 | Tanjore      | 23.3                                 |
| Trichinopoly | 30.4                                 | Trichinopoly | 21.9                                 |
| Buddalore    | 28.9                                 | Madura       | 19.9                                 |
| Kistna       | 27.7                                 | Nilgiris     | 19.9                                 |
| Tinnevely    | 27.5                                 | Tinnevely    | 19.6                                 |
| North Arcot  | 27.1                                 | North Arcot  | 19.8                                 |
| Tanjore      | 24.9                                 | South Canara | 19.2                                 |
| South Arcot  | 23.6                                 | Salem        | 19.4                                 |
| Malabar      | 23.4                                 | Kistna       | 17.5                                 |
| Nellore      | 20.7                                 | Coimbatore   | 16.8                                 |
| Nilgiris     | 20.3                                 | Malabar      | 15.7                                 |
| Ganjam       | 17.2                                 | Vizagapatam  | 14.6                                 |
| Vizagapatam  | 17.1                                 | Godavari     | 13.0                                 |
| Godavari     | 15.5                                 | Nellore      | 12.2                                 |

6 Taking each district and town individually, Bellary district stands at the top of the list with the highest birth rate 42.7 per mille per annum, and this position it has maintained for some past; - while Godavari is at the bottom with only 15.5 per mille. In regard to the death rates Madras (town) returned the highest rate 45.3 and Nellore the lowest 12.2. Eliminating Madras, Kurnool stands next on the list with 37.3 per mille and Godavari is next above Nellore with 13.0. There appears to be no improvement <sup>in registration</sup> in the Godavari district, the defectiveness of which has already been noted. Among the towns the highest birth rate, 51.6, was recorded in Dindigul and the lowest in Buddalore 11.6. Bezwada returned the highest death rate 110.5 per mille and Parlakimedi the lowest 11.7. The high death rate in Bezwada is accounted

Presidency is contrasted with those of Bengal, North-west Provinces and Punjab:-

|                                            | Districts |        |            |            | Municipalities |        |            |            |
|--------------------------------------------|-----------|--------|------------|------------|----------------|--------|------------|------------|
|                                            | Births    | Deaths | Birth rate | Death rate | Births         | Deaths | Birth rate | Death rate |
| Average of five previous months March 1888 | 61847     | 47056  | 26.7       | 20.3       | 4101           | 4547   | 31.2       | 30.6       |
| March 1888                                 | 63902     | 47145  | 27.9       | 20.5       | 4790           | 4703   | 31.0       | 30.5       |
| January 1889                               | 63441     | 46584  | 27.3       | 28.2       | 4623           | 6234   | 29.8       | 40.1       |
| February                                   | 54075     | 46818  | 23.5       | 20.3       | 4152           | 4959   | 26.7       | 31.9       |
| March                                      | 63075     | 47780  | 27.1       | 20.5       | 4791           | 4950   | 30.9       | 31.9       |

|                      | Death rate per mille per annum |
|----------------------|--------------------------------|
| Bengal               | 20.7                           |
| North-west Provinces | 22.8                           |
| Punjab               | 22.2                           |
| Madras               | 20.5                           |

5 How the different sexes and the several classes of the community were affected will be seen from the statements below:- As usual, on the whole, the male elements predominated.

|                | Sexes |         |                    | Classes    |        |            |       | Ratio per mille per annum |        |            |       |
|----------------|-------|---------|--------------------|------------|--------|------------|-------|---------------------------|--------|------------|-------|
|                | Males | Females | Percentage females | Christians | Hindus | Mahomedans | Total | Christians                | Hindus | Mahomedans | Total |
| Districts      |       |         |                    |            |        |            |       |                           |        |            |       |
| Births         | 32681 | 30394   | 107.5              | 1162       | 57876  | 4037       | 63075 | 21.8                      | 27.3   | 26.6       | 27.1  |
| Deaths         | 25227 | 22553   | 111.8              | 825        | 44079  | 2876       | 47780 | 18.2                      | 20.8   | 28.9       | 20.5  |
| Municipalities |       |         |                    |            |        |            |       |                           |        |            |       |
| Births         | 2514  | 2277    | 110.4              | 361        | 3733   | 697        | 4791  | 35.3                      | 30.3   | 32.0       | 30.9  |
| Deaths         | 2562  | 2388    | 107.3              | 285        | 3931   | 734        | 4950  | 27.9                      | 31.9   | 33.3       | 31.9  |

small-pox and fevers were more fatal.

3. The total number of births registered was 63,075 against 54,075 in the previous month, of which 4,791 occurred in the Municipalities against 4,152 in February. The total deaths numbered 47,780 inclusive of 4,950 which took place in the towns. The numbers for February were 46,818 and 4,959 respectively.

4. Proportionally considered with the population (27,880,261 inclusive of towns) embraced by registration the total births represent a ratio of 27.1 per mille per annum in the districts and in the towns 30.9 on a population of 1,861,518. The total death rates were 20.5 and 31.9 respectively. In the following table these results are compared with the past months of the year, the corresponding months of the past year and the average of five previous corresponding periods; and in the table subjoined the mortality rate of the Presidency

Office of Sanitary Commr.

Nº 924

Madras 15<sup>th</sup> July 1889

From

Surgeon Major J. A. Laing

Sanitary Commissioner for Madras

To

The Chief Secretary to Government  
Public Department

Sir,

I have the honor to submit for  
the information of Government and  
publication in the Fort Saint George's  
Gazette the usual abstract statements  
of births and deaths in the districts and  
municipalities of the Madras Presidency  
for the month of March 1889.

2 The period on the whole appears  
to have been somewhat unhealthier than  
the preceding month, February, as  
indicated by a higher mortality. It  
is satisfactory, however, to note a  
diminution in the mortality from  
cholera and bowel-complaints, but  
small-pox