

(1) பக்கங்களின் எண்ணிக்கை

(2) புதுக்கித் திருப்பிய நாள்

(3) ஆதாரக் குறிப்பவர் கருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

செ.ஜ. வ.

அரசாணை எண். 242-243.
மு. கோப்புத் தாள் எண்.

அச்சகம்
பலவகை

நாள் : 11 3 1889

199

மடிக்கவோ தண்டபடி கையாளவோ கூடாது.

ஆவண. கா. 1-18,006-69-90.

16/4

N^o 226

Office of Sanitary Commissioner
Madras 2^d February 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 forward
for the information of Government
and publication in the Fort Saint
George Gazette the usual abstract
statements of births and deaths in the
districts and municipalities of the Madras
Presidency for the month of October 1888.

The total births registered in
the districts amounted to 76,372 against
74,860 in the previous month and the
total deaths numbered 4,453 against
4,615 - Of these 4,899 births and 4,212
deaths

உறுதிப்படுத்தப்பட்ட கடிதம், -1

தமிழ்நாட்டில் பிறப்புகள் (பி) - 76,372

மேற்கண்ட பிறப்புகள் செப்டம்பர் (பி) - 74,860
செப்டம்பர் மாதம்

மேற்கண்ட பிறப்புகள் செப்டம்பர் (பி) - 76,372
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செப்டம்பர் மாதம்

deaths occurred in the municipalities against 4904 and 4001 respectively in the preceding month.

3. In the following table are given the events as they occurred among the different sexes and the several classes of the community.

		Males		Percentage of males to female	Christians	Hindus	Mahomedans	Total	Ratio per mille per annum			
			Females						Christians	Hindus	Mahomedans	Total
Districts	Births	38940	37482	104.0	1343	7091	4418	76372	24.8	33.5	27.2	32.9
	Deaths	23019	21512	106.9	680	5803	2820	44634	12.6	19.4	18.6	19.2
Municipalities	Births	2534	2365	107.1	348	3909	642	4899	34.0	31.7	29.5	31.5
	Deaths	2135	2077	102.7	244	3382	586	4212	23.8	27.4	26.9	27.1

4. Proportionally considered with the population the total district birth rate stood at 32.9 per mille per annum and the death rate at 19.2. In the towns the rates were births 31.5 and deaths 27.1 per mille per annum.

5. In the table below the actual

actual numbers born and died and the proportion in which they occurred to population are compared with those of the past months of the year, the corresponding of the past year and average of five previous corresponding periods and in the statement subjoined the district mortality rate is compared with those of Bengal, Northwest Provinces and Punjab.

	Districts		Municipalities			
	Births	Deaths	Birth rate	Death rate	Birth rate	Death rate
Average of 5 previous October	72587	48507	33.1	20.6	5226	4208
October 1887	79479	51889	34.2	22.3	5770	4976
January 1888	60230	4173	26.3	31.4	5003	8035
February do	55293	53350	24.3	23.5	4453	5819
March do	65164	48407	28.0	21.0	4977	4890
April do	66233	43092	27.5	18.5	5048	4410
May do	70351	43732	30.1	18.7	5245	4304
June do	73093	46454	31.9	20.3	5018	4656
July do	81307	50652	34.9	21.7	5256	4605
August do	77522	48569	33.7	21.1	5188	4755
September do	74860	44665	32.2	19.2	4901	4001
October do	76372	44534	32.9	19.2	4899	4212

Bengal
Northwest Provinces
Punjab
Madras

Death rate
per mille
per annum

27.1
47.5
40.8
19.2

6. In both districts and towns the birth and death rates varied and to what extent they did so will be seen from the following tables in which they are arranged in order of sequence. Registration is still very defective in Tirupathi town. It seems to be deteriorating rather than improving. The high death rate 117.3 returned by Anantapur town is accounted for by a heavy cholera mortality 38 out of a total of 48 deaths having occurred from this cause.

Districts	Death rate per mille per annum	Districts	Death rate per mille per annum
Bellary	46.9	Madras	35.3
Salem	45.3	Bellary	32.1
Kistna	44.4	South Canara	26.8
Chingleput	44.2	Chingleput	24.8
Madras	41.0	Kurnool	24.8
Kurnool	39.1	Anantapur	22.6
Anantapur	37.3	Cuddapah	22.2
South Arcot	35.7	South Arcot	21.8
North Arcot	35.1	Tanjore	21.8
Coimbatore	35.1	Trichinopoly	19.6
Trichinopoly	33.2	Salem	19.0
Madura	33.1	North Arcot	18.6
Tinnevely	31.9	Kistna	17.8
Cuddapah	30.9	Madura	17.4
Nellore	30.3	Tinnevely	17.0
Tanjore	28.4	Nellore	16.4
Vizagapatnam	28.2	Coimbatore	16.3
South Canara	26.4	Ganjam	15.5
Godavari	23.4	Godavari	14.5
Ganjam	23.3	Malabar	14.0
Malabar	22.4	Vizagapatnam	12.7
Nilgiris	20.9	Nilgiris	12.5

Municipalities	Birth rate per mille per annum	Municipalities	Mortality rate per mille per annum
Berwada	59.1	Anantapur	117.3
Dindigul	55.8	Berwada	50.1
Erode	49.8	Rajahmundry	38.6
Vaniyambadi	45.1	Kurnool	36.5
Bimlipalam	43.3	Madras	35.3
Karur	41.7	Cuddalore	33.8
Coimbatore	41.6	Cochin	33.6
Anakapalle	41.3	Berhampore	33.0
Madras	41.0	Tanjore	32.4
Tirupatūr	37.8	Bellary	31.6
Madura	37.5	Eranganam	30.9
Conjeevaram	37.0	Cuddalore	30.9
Salem	36.8	Vizianagaram	30.8
Palghat	35.9	Dindigul	30.4
Vizianagaram	35.6	Erode	30.4
Vizagapatnam	35.2	Madura	30.1
Rajahmundry	34.6	Coimbatore	30.1
Cochin	34.3	Vizagapatnam	29.3
Quintur	34.2	Karur	28.5
Anantapur	34.2	Bimlipalam	27.9
Tuticorin	33.9	Palghat	27.4
Walajpet	33.5	Calicut	26.6
Kurnool	33.4	Coimbatore	26.6
Ongole	32.6	Cochin	26.0
Adoni	32.6	Walajpet	25.5
Periyakulam	32.1	Tuticorin	25.0
Palamcottah	32.0	Salem	24.5
Gudiyalam	31.6	Palni	24.3
Kocanada	29.1	Chelumbaram	24.1
Eranganam	29.1	Conjeevaram	23.1
Bellary	28.2	Gudiyalam	23.0
Vellore	27.8	Kumbakonam	22.9
Calicut	27.7	Mayavaram	22.9
Berhampore	27.4	Manuargudi	22.8
Chelumbaram	27.2	Periyakulam	22.6
Manuargudi	27.2	Ellore	22.6
Ootacamund	27.2	Mangalore	21.3
Mayavaram	27.0	Vellore	20.8
Masulipatam	26.7	Chicaole	20.3
Vellore	26.1	Tinnevely	20.1
Palni	26.1	Trichinopoly	19.7
Mangalore	26.1	Palamcottah	19.3
Tanjore	25.4	Quintur	18.3
Ellore	24.3	Ootacamund	17.5
Kumbakonam	22.9	Masulipatam	16.7
Tellicherry	21.4	Adoni	16.5
Tinnevely	21.4	Vaniyambadi	16.5
Chicaole	21.6	Vizagapatnam	16.0
Cuddalore	21.4	Vellore	15.7
Parlakudi	21.0	Tellicherry	15.6
Cuddalore	20.9	Ongole	14.3
Vizagapatnam	18.0	Canara	12.7
Canara	17.2	Anakapalle	12.5
Trichinopoly	12.5	Parlakudi	11.7
Coimbatore	10.0	Tirupatūr	11.7
Tirupatūr	1.8	Tirupatūr	11.7

7 Principal causes of death: The following table shows the mortality caused by the several specified diseases during the month under notice, contrasted with past periods. There was a slight increase in the mortality from cholera and bowel complaints in both districts and towns compared with the previous month and a diminution in that from small-pox while a decrease is observable in the deaths from fevers in the districts and an increase in the towns.

		Cholera	Small pox	Fevers	Bowel Complaints	Injuries	Other causes	Total Deaths
<u>Districts</u>								
October 1887	1860	1628	20265	2186	979	24971	57889	
January 1888	18772	1740	20576	3167	810	29108	74173	
February	9397	2291	15070	2154	772	22866	53350	
March	4423	2262	16525	1823	989	22085	48607	
April	2237	2248	15487	1790	1065	20265	43092	
May	1699	1729	15935	1919	1108	21342	43732	
June	2582	1591	16347	2131	1013	22816	46456	
July	4588	1733	16869	2471	922	24069	50652	
August	3539	1499	16292	2601	970	23668	48569	
September	1803	1418	16375	2141	1104	21774	44615	
October	1816	1292	15755	2201	975	22495	44534	
<u>Municipalities</u>								
October 1887	317	162	1206	675	38	2578	4976	
January 1888	2760	207	1222	769	50	3027	8035	
February	1284	273	1047	588	45	2582	5819	
March	412	302	1087	508	57	2524	4890	
April	308	247	912	499	62	2392	4410	
May	184	221	894	505	55	2405	4304	
June	520	232	849	579	48	2428	4656	
July	636	204	814	579	46	2321	4605	
August	403	168	927	712	50	2495	4755	
September	120	122	895	579	48	2297	4001	
October	125	106	976	566	54	2385	4212	

8 Cholera caused 1816 deaths in the districts and 125 in the towns. Only six out of the fifty six towns were affected; the greatest mortality 48 occurred in Buddalore and the smallest 1 in Cochin. Of the twenty two districts including Madras eight enjoyed a perfect immunity. Small pox was the cause of death in 1292 instances of which 106 occurred in the towns. Among the districts the highest small-pox mortality (153) took place in South Arcot and the lowest 4 in Godavari. The disease was absent in two districts. Among the towns Trichinopoly returned the largest number 22. Thirty three were entirely free of the disease while in eleven only a single death was recorded in each. The total deaths from fevers numbered 15755 and from bowel complaints 2201 in the districts. In the towns they were 976 and 566 respectively. All the districts and towns suffered from fevers. Bowel Complaints also were rife in all the

the districts while from seven towns the returns were "nil" in this respect. Buddalore district suffered mostly from fevers with 1422 deaths and Malabar from bowel complaints 340 deaths. Madras town returned by far the largest number of deaths both from fevers and bowel complaints viz 299 and 197 respectively. Next to Madras the numbers were 43 and 30 respectively in Madura. Injuries caused 475 deaths in the districts of which 54 occurred in the towns. The deaths from "all other causes" numbered 22495 in the districts and 2385 in the towns. Of the deaths from injuries 218 were self-inflicted. 518 were caused by wounds and accidents and 239 by snakes and wild beasts.

9 The following tables show the deaths from each of the principal specified causes of death arranged in order from highest to lowest in both districts and towns.

Districts	Cholera	Districts	Small-pox	Districts	Fever	Districts	Bowel complaints
South Canara	426	South Arcot	153	Euddapah	1422	Malabar	340
Tanjore	314	Madura	152	Malabar	1210	Chingleput	331
Bellary	304	Salem	151	North Arcot	1103	Madras	197
Chingleput	202	North Arcot	139	Godavari	1073	South Canara	161
South Arcot	142	Trichinopoly	114	Salem	1047	Coimbatore	123
Cuddapah	113	Tanjore	101	South Arcot	1046	South Arcot	116
Anantapur	102	Kurnool	101	Visagapatam	1034	Tanjore	102
North Arcot	97	Ganjam	84	Kurnool	998	North Arcot	100
Ganjam	34	Cuddapah	71	Kistna	961	Nellore	97
Madras	32	Bellary	48	Coimbatore	919	Bellary	92
Malabar	31	Coimbatore	38	Ganjam	820	Salem	78
Trichinopoly	11	Malabar	35	Nellore	711	Tinnevely	76
Madura	4	South Canara	33	South Canara	490	Cuddapah	66
Salem	4	Nellore	15	Madura	486	Godavari	60
Visagapatam	1	Tinnevely	15	Bellary	476	Madura	52
Kistna	1	Chingleput	13	Trichinopoly	444	Trichinopoly	49
Godavari	1	Anantapur	11	Chingleput	433	Ganjam	40
Nellore	1	Visagapatam	9	Tinnevely	325	Anantapur	37
Tinnevely	1	Kistna	5	Madras	299	Kistna	35
Kurnool	1	Godavari	4	Tanjore	242	Visagapatam	27
Coimbatore	1	Madras	1	Anantapur	138	Kurnool	20
Milgiris	1	Milgiris	1	Milgiris	68	Milgiris	2

Municipalities	Cholera	Municipalities	Small-pox	Municipalities	Fever	Municipalities	Bowel complaints
Cuddalore	48	Trichinopoly	22	Madras	299	Madras	197
Anantapur	38	Salem	14	Madura	43	Madura	30
Madras	32	Tanjore	10	Trichinopoly	38	Calicut	30
Vellore	3	Kurnool	10	Berhampore	36	Tanjore	28
Salem	3	Madura	9	Salem	32	Cuddalore	26
Cochin	1	Srirangam	6	Tanjore	31	Trichinopoly	22
Chicacole	1	Trindigul	6	Kurnool	29	Tinnevely	17
Berhampore	1	Vellore	6	Bellary	28	Nagapatnam	16
Parlakimedi	1	Calicut	6	Rajahmundry	27	Kumbakonam	15
Visagapatam	1	Godavari	3	Visagapatam	25	Visagapatam	13
Buntipatam	1	Parlakimedi	2	Vellore	22	Mannargudi	10
Trichinagarum	1	Tellicherry	2	Kumbakonam	21	Berhampore	9
Anakapalle	1	Conjeeveram	1	Palghat	21	Conjeeveram	9
Cocanada	1	Kumbakonam	1	Visagapatam	19	Tuticorin	9
Rajahmundry	1	Mayavaram	1	Adoni	17	Chicacole	8
Ellore	1	Nagapatnam	1	Coimbatore	16	Visagapatam	8
Masulipatam	1	Mannargudi	1	Cuddalore	15	Bezawada	8
Guntur	1	Tinnevely	1	Nellore	13	Cocanada	7
Bezawada	1	Walajapet	1	Conjeeveram	13	Erode	7
Vellore	1	Vanniyambadi	1	Parlakimedi	12	Rajahmundry	6
Ongole	1	Coimbatore	1	Cuddalore	11	Mayavaram	6
Conjeeveram	1	Erode	1	Godavari	11	Salem	6
Chellumberam	1	Cannanore	1	Vanniyambadi	11	Cochin	6
Trichinopoly	1	Chicacole	1	Cocanada	10	Tirupattur	5
Srirangam	1	Berhampore	1	Guntur	10	Coimbatore	5
Tanjore	1	Visagapatam	1	Calicut	10	Mangalore	5
Kumbakonam	1	Buntipatam	1	Ellore	9	Ellore	4
Mayavaram	1	Visagapatam	1	Masulipatam	9	Chellumberam	4
Nagapatnam	1	Anakapalle	1	Tuticorin	9	Trindigul	4
Mannargudi	1	Cocanada	1	Tirupattur	9	Palamcottah	4
Madura	1	Rajahmundry	1	Mayavaram	8	Cuddalore	4
Periyakulam	1	Ellore	1	Periyakulam	8	Bellary	4
Trindigul	1	Masulipatam	1	Coonoor	8	Palghat	4
Palni	1	Guntur	1	Cochin	8	Buntipatam	3
Tinnevely	1	Bezawada	1	Chellumberam	7	Srirangam	3
Palamcottah	1	Nellore	1	Nagapatnam	7	Periyakulam	3
Tuticorin	1	Ongole	1	Thunati	7	Kurnool	3
Kurnool	1	Madras	1	Matigalore	7	Vellore	3
Cuddalore	1	Cuddalore	1	Tellicherry	6	Tellicherry	3
Bellary	1	Chellumberam	1	Chicacole	5	Palni	2
Adoni	1	Periyakulam	1	Buntipatam	5	Karur	2
Godavari	1	Palni	1	Palni	5	Anakapalle	1
Walajapet	1	Palamcottah	1	Walajapet	5	Quahir	1
Tirupattur	1	Tuticorin	1	Bezawada	5	Nellore	1
Vanniyambadi	1	Cuddalore	1	Anakapalle	4	Ongole	1
Tirupattur	1	Bellary	1	Srirangam	4	Adoni	1
Coimbatore	1	Adoni	1	Cannanore	4	Ootacamund	1
Erode	1	Anantapur	1	Mannargudi	3	Coonoor	1
Karur	1	Tirupattur	1	Tinnevely	3	Cannanore	1
Ootacamund	1	Tirupattur	1	Ootacamund	3	Parlakimedi	1
Coonoor	1	Karur	1	Ongole	2	Masulipatam	1
Mangalore	1	Ootacamund	1	Karur	2	Godavari	1
Tellicherry	1	Coonoor	1	Trindigul	1	Walajapet	1
Calicut	1	Mangalore	1	Palamcottah	1	Tirupattur	1
Palghat	1	Palghat	1	Anantapur	1	Vanniyambadi	1
Cannanore	1	Cochin	1	Erode	1	Anantapur	1

10. Towns of 25000 inhabitants and upwards. The registered events in the towns (Ootacamund included) in a population of 906380 amounted, in October, to 2080 births and 1848 deaths yielding ratios of 27.5 and 24.1 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 & Wales.	28.9	18.8
First class towns of Bengal	20.7	28.0
Do Madras	27.5	24.1

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

	Population	Cholera	Small-pox	Fever	Bowel Complaints	Injuries	All other Causes	Total Deaths	Total Births
Trichinopoly	84449	23	22	38	22	1	56	139	88
Madura	76847	.	8	43	30	5	107	193	240
Salem	59631	3	14	32	6	1	66	122	183
Calicut	57085	.	6	10	30	.	81	127	732
Tanjore	54745	.	10	31	28	2	77	148	116
Megapalam	53776	.	1	7	16	1	47	72	81
Bellary	53460	.	.	28	4	2	107	141	126
Kumbakonam	50098	.	1	21	15	1	58	96	96
Cuddalore	43545	48	.	11	26	3	35	123	76
Coimbatore	38967	.	1	16	5	3	64	86	135
Vellore	40958	3	6	22	3	.	37	71	95
Conjeveram	37275	.	1	13	9	.	49	72	115
Talghat	36339	.	.	21	4	.	58	83	109
Masulipatam	35056	.	.	9	.	.	40	49	78
Mangalore	32099	.	.	7	5	.	45	57	70
Cochinada	30441	.	.	10	7	2	47	66	74
Tiragapalam	30291	.	.	25	13	.	36	74	89
Vellore	27505	.	.	13	1	1	21	36	60
Channarayana	26386	.	1	4	1	.	22	28	38
Ellore	25092	.	.	9	4	.	34	47	57
Ootacamund	12335	.	.	3	1	.	14	18	28
Total	906380	54	71	373	230	22	1098	1848	2080

I have the honor to be
Sir,
Your most obedient servant
D. Anderson P. M. D.
Surgeon Major
Sanitary Commissioner
for Madras

212-439

Public Department

From

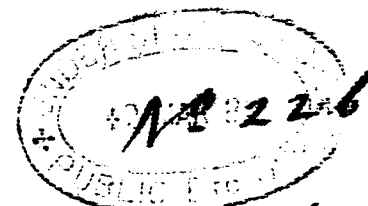
Surgam Mago J. A. Loring
Sanitary Commissioner
for Madras

To

The Chief Secretary
to Government

Public Department

Dated 2nd }
Despatched 4 } March 1889
Recd . . . }



Encl 2/

Subject

Forwards the vital
Statistical Report of the
District & Municipalities
of the Madras Presidency
for October 1888.

512
PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT. 10
242/89

READ the following

letter from the Sanitary Commissioner, dated 2^d March '89 No. 226.

ORDER THEREON, 11 March/89 No. 242

Recorded.

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

H. E.

PUBLIC DEPARTMENT.

(Sanitary).

No. 243 of 1889.

To the Revenue Department. 7
21

„ Board of Revenue. 21

„ Surgeon-General with the Government of Madras. 6

„ Sanitary Commissioner. 23

Recd 20/3/89
with the San. Commr.

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. 242 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 October 1888.

2. The statistics are annexed.

Chief Secretary.

413

11TH MARCH 1889, No. 242, PUBLIC.

GOVERNMENT OF MADRAS.
PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVT.

Dated

1889, No. 242

READ—the following paper:—

From Surgeon-Major J. A. LAING, Sanitary Commissioner for Madras, to the Chief Secretary to Government, dated Madras, 2nd March 1889, No. 226.

I have the honor to forward, 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 October 1888.

2. The total births registered in the districts amounted to 76,372 against 74,860 in the previous month, and the total deaths numbered 44,534 against 44,615. Of these, 4,899 births and 4,212 deaths occurred in the Municipalities, against 4,904 and 4,001, respectively, in the preceding month.

3. In the following table are given the events as they occurred among the different sexes and the several classes of the community:—

Different sexes and the several classes of the community.										Ratio per mille per annum.				
										Christians.	Hindus.	Muhammadans.	Total.	
Districts.														
Births	..	..	..	38,940	37,432	104.0	1,343	70,911	4,118	76,372	24.8	33.5	27.2	32.9
Deaths	..	..	..	23,019	21,515	106.9	680	41,034	2,820	44,534	12.6	19.4	18.6	19.2
Municipalities.														
Births	..	..	..	2,531	2,365	107.1	348	3,909	612	4,899	34.0	31.7	29.5	31.5
Deaths	..	..	..	2,135	2,077	102.7	244	3,382	586	4,212	23.8	27.4	26.9	27.1

4. Proportionally considered with the population, the total district birth-rate stood at 32.9 per mille per annum and the death-rate at 19.2. In the towns, the rates were, births 31.5, and deaths 27.1, per mille per annum.

5. In the table below, the actual numbers born and died, and the proportion in which they occurred to population, are compared with those of the past month of the year, the corresponding of the past year, and average of five previous corresponding periods, and in the statement subjoined the district mortality rate is compared 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 Octobers.	72,587	48,507	33.4	20.6	5,226	4,205	35.1	28.2
October 1887	79,479	51,889	34.2	22.3	5,770	4,976	37.4	32.2
January 1888	60,230	71,173	26.3	32.4	5,003	8,035	32.4	62.1
February	55,223	53,350	24.3	23.5	4,453	5,819	28.9	37.7
March	65,164	48,407	28.0	21.0	4,077	4,890	32.3	31.7
April	64,233	43,092	27.5	18.5	5,048	4,410	32.6	28.4
May	70,351	43,732	30.1	18.7	5,245	4,304	33.8	27.7
June	73,093	46,451	31.9	20.3	5,018	4,656	32.4	30.0
July	81,307	50,652	34.9	21.7	5,256	4,605	33.9	29.7
August	77,522	48,569	33.7	21.1	5,138	4,755	33.1	30.7
September	74,860	44,615	32.2	19.2	4,904	4,001	31.6	25.8
October	76,372	44,534	32.9	19.2	4,899	4,212	31.5	27.1

Bengal	27.1
North-West Provinces	47.5
Punjab	40.8
Madras	19.2

6. In both districts and towns the birth and death rates varied, and to what extent they did so will be seen from the following tables in which they are arranged in order of sequence. Registration is still very defective in Tirupati town. It seems to be deteriorating rather than improving. The high death-rate—117.3—returned by Anantapur town is accounted for by a heavy cholera-mortality, 38 out of a total of 48 deaths having occurred from this cause:—

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	46.9	Madura	32.1	Madras	35.3	North Arcot	18.6
Salem	45.3	Tinnevely	31.9	Bellary	32.1	Kistna	17.8
Kistna	44.4	Cuddapah	30.9	South Canara	26.8	Madura	17.4
Chingleput	44.2	Nellore	30.3	Chingleput	24.8	Tinnevely	17.0
Madras	41.0	Tanjore	28.4	Kurnool	24.8	Nellore	16.4
Kurnool	39.1	Vizagapatam	28.2	Anantapur	22.6	Coimbatore	16.3
Anantapur	37.3	South Canara	21.4	Cuddapah	22.2	Ganjam	15.5
South Arcot	35.7	Godavari	23.4	South Arcot	21.8	Godavari	14.5
North Arcot	35.1	Ganjam	23.3	Tanjore	21.8	Malabar	14.0
Coimbatore	35.1	Malabar	22.4	Trichinopoly	19.6	Vizagapatam	12.7
Trichinopoly	33.2	Nilgiris	20.9	Salem	19.0	Nilgiris	12.5

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.
Bezvada	59.1	Cocanada	29.1	Anantapur	117.3	Chidambaram	24.1
Dindigul	55.8	Srirangam	29.1	Bezvada	50.1	Conjeevaram	23.1
Erode	49.8	Bellary	28.2	Rajahmundry	38.0	Gudiyatom	23.0
Vaniyambadi	45.1	Vellore	27.8	Kurnool	36.5	Kumbakonam	22.9
Bimlipatam	43.3	Calicut	27.7	Madras	35.3	Mayavaram	22.9
Karur	41.7	Berhampore	27.4	Cuddalore	33.8	Mannargudi	22.8
Coimbatore	41.6	Chidambaram	27.2	Cochin	33.6	Periyakulam	22.6
Anakapalle	41.3	Mannargudi	27.2	Berhampore	33.0	Ellore	22.4
Madras	41.0	Ootacamund	27.2	Tanjore	32.4	Mangalore	21.3
Tirupatūr	37.8	Mayavaram	27.0	Bellary	31.6	Vellore	20.8
Madura	37.5	Masulipatam	26.7	Srirangam	30.9	Chicacole	20.3
Conjeevaram	37.0	Nellore	26.1	Cuddapah	30.9	Tinnevely	20.1
Salem	36.8	Palni	26.1	Vizianagrum	30.8	Trichinopoly	19.7
Palghat	35.9	Mangalore	26.1	Dindigul	30.4	Palamecottah	19.3
Vizianagrum	35.6	Tanjore	25.4	Erode	30.4	Guntūr	18.3
Vizagapatam	35.2	Ellore	24.3	Madura	30.1	Ootacamund	17.5
Rajahmundry	34.6	Kumbakonam	22.9	Coonoor	30.1	Masulipatam	16.7
Cochin	34.3	Tellicherry	21.9	Vizagapatam	29.3	Adoni	16.5
Guntūr	34.2	Tinnevely	21.7	Karur	28.5	Vaniyambadi	16.5
Anantapur	34.2	Chicacole	21.6	Bimlipatam	27.9	Negapatam	16.0
Tuticorin	33.9	Cuddapah	21.4	Palghat	27.4	Nellore	15.7
Wajajpet	33.5	Parlakimedi	21.0	Calicut	26.6	Tellicherry	15.6
Kurnool	33.0	Cuddalore	20.9	Coimbatore	26.4	Ongole	14.3
Ongole	32.6	Negapatam	18.0	Cocanada	26.0	Cannanore	12.7
Adoni	32.6	Cannanore	17.2	Wajajpet	25.5	Anakapalle	11.5
Periyakulam	32.1	Trichinopoly	12.5	Tuticorin	25.0	Parlakimedi	11.7
Palamecottah	32.0	Coonoor	10.0	Salem	24.5	Tirupatūr	11.7
Gudiyatom	31.6	Tirupati	1.8	Palni	24.3		

7. *Principal Causes of Death.*—The following table shows the mortality caused by the several specified diseases during the month under notice contrasted with past periods. There was a slight increase in the mortality from cholera and bowel-complaints in both

districts and towns compared with the previous month, and a diminution in that from small-pox, while a decrease is observable in the deaths from fevers in the districts, and an increase in the towns:—

	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injuries.	Other causes.	Total deaths.
Districts—							
October 1887	1,860	1,628	20,265	2,185	979	21,971	61,889
January 1888	18,772	1,749	20,576	3,167	816	29,108	74,173
February	9,397	2,291	15,879	2,154	772	22,896	53,550
March	4,423	2,562	16,525	1,823	989	22,085	48,407
April	2,237	2,245	15,487	1,756	1,055	20,265	43,092
May	1,699	1,729	15,935	1,919	1,108	21,342	43,732
June	2,562	1,591	16,347	2,151	1,013	22,810	48,454
July	4,588	1,733	16,869	2,471	922	21,669	50,652
August	3,559	1,499	16,292	2,661	970	23,648	48,569
September	1,893	1,418	16,375	2,141	1,104	21,774	44,515
October	1,816	1,292	15,755	2,201	975	22,495	44,534
Municipalities—							
October 1887	317	162	1,296	675	38	2,578	4,976
January 1888	2,760	207	1,222	739	50	3,927	8,055
February	1,284	273	1,047	588	45	2,582	5,819
March	412	302	1,087	508	57	2,524	4,890
April	308	217	912	499	52	2,392	4,410
May	184	221	894	565	55	2,445	4,304
June	620	232	849	579	48	2,128	4,556
July	636	204	814	572	46	2,326	4,605
August	403	163	927	712	50	2,495	4,755
September	129	122	895	519	48	2,297	4,001
October	125	106	976	566	54	2,385	4,212

8. *Cholera*—caused 1,816 deaths in the districts, and 125 in the towns. Only six out of the fifty-six towns were affected; the greatest mortality (48) occurred in Cuddalore, and the smallest (1) in Cochin. Of the twenty-two districts including Madras, eight enjoyed a perfect immunity. *Small-pox* was the cause of death in 1,292 instances, of which 106 occurred in the towns. Among the districts, the highest small-pox mortality (153) took place in South Arcot, and the lowest (4) in Godavari. The disease was absent in two districts. Among the towns, Trichinopoly returned the largest number, 22. Thirty-three were entirely free of the disease, while in eleven only a single death was recorded in each. The total deaths from *fevers* numbered 15,755, and from bowel-complaints 2,201, in the districts. In the towns, they were 976 and 566, respectively. All the districts and towns suffered from fevers. *Bowel-complaints* also were rife in all the districts, while from seven towns the returns were “nil” in this respect. Cuddapah district suffered mostly from fevers with 1,422 deaths, and Malabar from bowel-complaints, 310 deaths. Madras town returned by far the largest number of deaths both from fevers and bowel complaints, viz., 299 and 197 respectively. Next to Madras, the numbers were 43 and 30 respectively in Madura. *Injuries* caused 975 deaths in the districts, of which 54 occurred in the towns. The deaths from “*All other causes*” numbered 22,495 in the districts and 2,385 in the towns. Of the deaths from injuries, 218 were self-inflicted, 518 were caused by wounds and accidents, and 239 by snakes and wild beasts.

9. The following tables show the deaths from each of the principal specified causes of death arranged in order from highest to lowest in both districts and towns:—

Districts.	Cholera.	Districts.	Small-pox.	Districts.	Fever.	Districts.	Bowel complaints.
South Canara ..	426	South Arcot ..	153	Cuddapah ..	1,422	Malabar ..	340
Tanjore ..	314	Madura ..	152	Malabar ..	1,210	Chingleput ..	331
Bellary ..	304	Salem ..	151	North Arcot ..	1,193	Madras ..	197
Chingleput ..	202	North Arcot ..	139	Godavari ..	1,073	South Canara ..	161
South Arcot ..	142	Trichinopoly ..	114	Salem ..	1,047	Coimbatore ..	123
Oudlapah ..	113	Tanjore ..	101	South Arcot ..	1,046	South Arcot ..	116
Anantapur ..	102	Kurnool ..	101	Vizagapatam ..	1,034	Tanjore ..	102
North Arcot ..	97	Ganjam ..	84	Kurnool ..	998	North Arcot ..	100
Ganjam ..	34	Cuddapah ..	71	Kistna ..	961	Nellore ..	97
Madras ..	32	Bellary ..	48	Coimbatore ..	919	Bellary ..	92
Malabar ..	31	Coimbatore ..	38	Ganjam ..	829	Salem ..	78
Trichinopoly ..	11	Malabar ..	35	Nellore ..	711	Tinnevely ..	76
Madura ..	4	South Canara ..	33	South Canara ..	490	Cuddapah ..	66
Salem ..	4	Nellore ..	15	Madura ..	486	Godavari ..	60
Vizagapatam ..	..	Tinnevely ..	15	Bellary ..	476	Madura ..	52
Kistna ..	..	Chingleput ..	13	Trichinopoly ..	444	Trichinopoly ..	49
Godavari ..	..	Anantapur ..	11	Chingleput ..	433	Ganjam ..	40
Nellore ..	..	Vizagapatam ..	9	Tinnevely ..	325	Anantapur ..	37
Tinnevely ..	..	Kistna ..	5	Madras ..	299	Kistna ..	35
Kurnool ..	..	Godavari ..	4	Tanjore ..	242	Vizagapatam ..	27
Coimbatore ..	..	Madras ..	..	Anantapur ..	135	Kurnool ..	20
Nilgiris ..	..	Nilgiris ..	..	Nilgiris ..	68	Nilgiris ..	2

Municipalities.	Cholera.	Municipalities.	Small-pox.	Municipalities.	Fever.	Municipalities.	Bowel complaints.
Cuddalore ..	48	Trichinopoly ..	22	Madras ..	299	Madras ..	197
Anantapur ..	38	Salem ..	14	Madura ..	43	Madura ..	30
Madras ..	32	Tanjore ..	10	Trichinopoly ..	38	Calicut ..	30
Vellore ..	3	Kurnool ..	10	Belthampore ..	36	Tanjore ..	28
Salem ..	3	Madura ..	8	Salem ..	32	Cuddalore ..	26
Cochin ..	1	Srirangam ..	6	Tanjore ..	31	Trichinopoly ..	22
Chicacole ..	..	Dindigul ..	6	Kurnool ..	29	Tinnevely ..	17
Belthampore ..	..	Vellore ..	6	Bellary ..	28	Negapatam ..	16
Parlakimedi ..	..	Calicut ..	6	Rajahmundry ..	27	Kumbakonam ..	15
Vizagapatam ..	..	Gudiyatam ..	3	Vizagapatam ..	25	Vizagapatam ..	13
Bimlipatam ..	..	Parlakimedi ..	2	Vellore ..	22	Mannargudi ..	10
Vizianagrum ..	..	Tellicherry ..	2	Kumbakonam ..	21	Belthampore ..	9
Anakapalle ..	..	Conjeevaram ..	1	Palghat ..	21	Conjeevaram ..	9
Cocanada ..	..	Kumbakonam ..	1	Vizianagrum ..	19	Tuticorin ..	8
Rajahmundry ..	..	Adoni ..	1	Coimbatore ..	17	Chicacole ..	8
Ellore ..	..	Mayavaram ..	1	Cuddalore ..	16	Vizianagrum ..	8
Masulipatam ..	..	Negapatam ..	1	Cuddapah ..	15	Bezvada ..	8
Chidambaram ..	..	Mannargudi ..	1	Nellore ..	13	Cocanada ..	7
Trichinopoly ..	..	Tinnevely ..	1	Conjeevaram ..	13	Erode ..	7
Srirangam ..	..	Walajpet ..	1	Parlakimedi ..	12	Rajahmundry ..	6
Tanjore ..	..	Vaniyambadi ..	1	Cuddalore ..	11	Mayavaram ..	6
Kumbakonam ..	..	Coimbatore ..	1	Gudiyatam ..	11	Salem ..	6
Mayavaram ..	..	Erode ..	1	Vaniyambadi ..	11	Cochin ..	6
Negapatam ..	..	Cannanore ..	..	Cocanada ..	10	Tirupatūr ..	5
Mannargudi ..	..	Chicacole ..	..	Guntūr ..	10	Coimbatore ..	5
Madura ..	..	Belthampore ..	..	Calicut ..	10	Mangalore ..	5
Periyakulam ..	..	Vizagapatam ..	..	Ellore ..	9	Ellore ..	4
Dindigul ..	..	Bimlipatam ..	..	Masulipatam ..	9	Chidambaram ..	4
Palmi ..	..	Vizianagrum ..	..	Tuticorin ..	9	Dindigul ..	4
Tinnevely ..	..	Anakapalle ..	..	Tirupatūr ..	9	Palacottah ..	4
Palacottah ..	..	Cocanada ..	..	Mayavaram ..	8	Cuddapah ..	4
Tuticorin ..	..	Rajahmundry ..	..	Periyakulam ..	8	Bellary ..	4
Kurnool ..	..	Ellore ..	..	Coonoor ..	8	Palghat ..	4
Cuddapah ..	..	Masulipatam ..	..	Cochin ..	8	Bimlipatam ..	3
Bellary ..	..	Guntūr ..	..	Chidambaram ..	7	Srirangam ..	3
A. B. Iy ..	..	Bezvada ..	..	Negapatam ..	7	Periyakulam ..	3
Gudiyatam ..	..	Nellore ..	..	Tirupatūr ..	7	Kurnool ..	3
Walajpet ..	..	Ongele ..	..	Mangalore ..	7	Vellore ..	3
Tirupatūr ..	..	Madras ..	..	Tellicherry ..	6	Tellicherry ..	2
Vaniyambadi ..	..	Cuddalore ..	..	Chicacole ..	5	Palmi ..	2
Tirupatūr ..	..	Chidambaram ..	..	Bimlipatam ..	5	Karūr ..	1
Coimbatore ..	..	Periyakulam ..	..	Palmi ..	5	Anakapalle ..	1
Erode ..	..	Palmi ..	..	Walajpet ..	5	Guntūr ..	1
Karūr ..	..	Palacottah ..	..	Bezvada ..	4	Nellore ..	1
Ootacamund ..	..	Tuticorin ..	..	Arakapalle ..	4	Ongele ..	1
Mangalore ..	..	Cuddapah ..	..	Srirangam ..	4	Adoni ..	1
Tellicherry ..	..	Bellary ..	..	Cannanore ..	4	Ootacamund ..	1
Calicut ..	..	Addi ..	..	Mannargudi ..	3	Coonoor ..	1
Palghat ..	..	Anantapur ..	..	Tinnevely ..	3	Cannanore ..	..
Cannanore ..	..	Tirupatūr ..	..	Ootacamund ..	2	Masulipatam ..	..
	..	Karūr ..	..	Ongele ..	2	Gudiyatam ..	..
	..	Ootacamund ..	..	Karūr ..	1	Walajpet ..	..
	..	Coonoor ..	..	Dindigul ..	1	Tirupatūr ..	..
	..	Mangalore ..	..	Palacottah ..	1	Vaniyambadi ..	..
	..	Tellicherry ..	..	Anantapur ..	1	Anantapur ..	..
	..	Calicut ..	..	Erode ..	..		..
	..	Palghat ..	..		..		..
	..	Cochin ..	..		..		..

10. *Towns of 25,000 Inhabitants and upwards.*—The registered events in the towns (Ootacamund included) in a population of 906,380 amounted, in October, to 2,080 births and 1,848 deaths, yielding ratios of 27.5 and 24.4 per mille per annum, respectively. Compared with 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	28.9	18.8
First-class towns of Bengal	20.7	28.0
Do. of Madras	27.5	24.4

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

	Popula- tion.	Cholera.	Small- pox.	Fever.	Bowel complaints.	Injuries.	All other causes.	Total deaths.	Total births.
Trichinopoly ..	84,449	..	22	38	22	1	56	139	88
Madura ..	76,847	..	8	43	30	5	107	193	240
Salem ..	59,631	3	14	32	6	1	66	122	183
Calicut ..	57,085	..	6	10	30	..	81	127	132
Tanjore ..	54,745	..	10	31	28	2	77	148	116
Negapatam ..	53,776	..	1	7	16	1	47	72	81
Bellary ..	53,460	..	..	28	4	2	107	141	123
Kumbakonam ..	50,098	..	1	21	15	..	58	96	96
Cuddalore ..	43,545	48	..	11	26	3	35	123	76
Coimbatore ..	38,967	..	1	16	5	3	61	86	135
Vellore ..	40,958	3	6	22	3	..	37	71	95
Conjeevaram ..	37,275	..	1	13	9	..	49	72	115
Palghat ..	36,339	..	..	21	4	..	58	83	109
Masulipatam ..	35,056	..	..	9	..	..	40	49	78
Mangalore ..	32,029	..	..	7	5	..	45	57	70
Cocanada ..	30,441	..	..	10	7	2	47	66	74
Vizagapatam ..	30,291	..	..	25	13	..	36	74	89
Nellore ..	27,605	..	..	13	1	1	21	36	60
Cannanore ..	26,386	..	1	4	1	..	22	28	38
Ellore ..	25,092	..	..	9	4	..	34	47	61
Ootacamund ..	12,335	..	..	3	1	..	14	18	28
Total ..	906,380	54	71	373	230	22	1,098	1,848	2,080

ORDER—dated 11th March 1889, No. 242, 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.

Issued

Recd.

Encl.

G.O., 11th March 1889, No. 242.

MARCH.

Vital Statistics.

Recording the Sanitary Commissioner's remarks on the returns of — in the Districts and Municipalities of the Madras Presidency for October, 1888, and ordering their publication in the *Fort St. George Gazette*.

11TH MARCH 1889, No. 242, PUBLIC.

PUBLIC DEPARTMENT.

LETTER—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. 242, 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 October 1888.

2. The statistics are annexed.

I have the honor to be,
Sir,
Your most obedient servant,

FORT ST. GEORGE,
11th March 1889.

Chief Secretary.

Exd. A. Raitt.

Govt. of {1889} Madras.
PUBLIC.

Issued

Recd.

Encl.

Letter 11th March 1889, No. 243.

MARCH.

Vital Statistics.

Forwarding copy of Proceedings recording the Sanitary Commissioner's remarks on the returns of — in the Districts and Municipalities of the Madras Presidency for October 1888, and ordering their publication in the *Port St. George Gazette*.

LD AGAIN Order of Government, dated
188 , No.

15
242-43

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ENT. No.

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A = Print in full
B = Not to be printed
P = Print abstract only
Q = Print heading only
R = Print but not to be published

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Vital Statistics.

Recd. by the Sanitary
Commissioner's remarks
on the returns of —
in the districts & munici-
palities of the Madras Presi-
dency for October 1888,
and ordering them published
therein in the Madras Gazette

Forwarding copy of
Proceedings recording —
— — — — — Col/Sec