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 (2) புதுக்கித் திருப்பிய நாள் _____
 (3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம் _____

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பெரு துறை

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Vital Statistics.

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

*Forwarding copy of Proceedings
recording: — — — — —
— — — — — Dec 1888.*

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9TH APRIL 1889, No. 328, PUBLIC.

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, 2nd April 1889, No. 490.

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 December
1888.

2. The total deaths registered in the districts including municipalities during the
month numbered 60,950, being greater than in any of the previous months since
January. The total births numbered 69,599, being less than in any of the previous
months since April. In the towns alone, the total deaths amounted to 5,973 and the
births to 4,960. Here also, as in the districts, the mortality was greater than in any
of the previous months since January.

3. The following table shows the events as they occurred among the different
sexes and several classes of the community :—

	Sexes.			Classes.				Ratio per mille per annum.			
	Males.	Females.	Percentage of males to females.	Christians.	Hindus.	Muham- madians.	Total.	Christians.	Hindus.	Muham- madians.	Total.
<i>Districts.</i>											
Births	35,354.	34,245	103.2	1,314	64,387	3,898	69,599	24.3	30.4	25.8	29.9
Deaths	31,584	29,366	107.5	1,367	55,702	3,881	60,950	25.3	26.3	25.7	26.2
<i>Municipalities.</i>											
Births	2,586	2,374	107.6	321	4,028	611	4,960	31.4	32.7	28.0	31.9
Deaths	3,063	2,910	100.7	391	4,738	844	5,973	38.2	38.4	38.8	38.5

4. The total births represent a ratio 29.9 per 1,000 of population per annum,
being equal to the average ratio of five previous years, and the total deaths a ratio of
26.2 against an average of 30.3. In the towns the ratios are 31.9 for births and 38.5
for deaths, against the averages of five previous years of 32.7 and 40.4, respectively.

5. In the table below, the actual number of events that were registered and the
rates at which they stood, considered with the population per mille per annum, are
given contrasted with those of the past periods noted, and in the statement appended,

the district mortality rate during the month under notice is compared with those of Bengal, North-west Provinces and Punjab for the same period:—

	Districts.				Municipalities.			
	Births.	Deaths.	Birth rate.	Death rate.	Births.	Deaths.	Birth rate.	Death rate.
Average of 5 previous Decembers	69,146	70,153	29.9	30.3	4,863	6,024	32.7	40.4
December 1887	70,644	77,818	30.8	33.9	5,141	7,752	33.3	50.3
January 1888	60,230	74,173	26.3	32.4	5,003	8,035	32.4	62.1
February	55,293	63,350	24.3	23.5	4,453	5,819	28.9	37.7
March	65,164	48,407	28.0	21.0	4,977	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	46,454	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	30.8
September	74,860	44,615	32.2	19.2	4,904	4,001	31.6	25.9
October	76,372	44,534	32.9	19.2	4,899	4,212	31.5	27.1
November	73,601	47,079	31.4	20.1	5,227	4,355	33.6	28.0
December	69,599	60,950	29.9	26.2	4,960	5,973	31.9	38.5

	Death rate per mille per annum.
Bengal	30.1
North-west Provinces	40.4
Punjab	37.4
Madras	26.2

6. The birth and death rates varied in both districts and towns, but much more so in the latter than in the former. The greatest birth-rate, 41.9, occurred in Chingleput, and the greatest death-rate, 47.3, in Madras (town); next to Madras, Tinnevely returned the greatest death-rate, 42.4. Nilgiris returned the lowest rates both as regards births and deaths, viz., 16.5 and 12.3, respectively. Among the towns, the highest birth-rate registered was in Karúr, 54.7, and the lowest in Tirupati, 2.7. Palamcottah returned the greatest death-rate, 86.8, and Tellicherry the least, 13.1. The high death-rate in Palamcottah was due to cholera, from which cause alone 74, or more than one-half of the total mortality (130), took place.

7. In the following tables, the birth and death rates in both districts and towns are given, arranged in order of occurrence from highest to lowest:—

Districts.	Birth-rate per mille per annum.	Districts.	Death-rate per mille per annum.
Chingleput	41.9	Madras	47.3
Salem	40.8	Tinnevely	42.4
Madras	40.6	Chingleput	33.8
Bellary	37.4	South Canara	33.3
Kistna	36.9	Kurnool	32.7
Kurnool	35.9	South Arcot	32.1
Madura	33.6	North Arcot	31.9
Tinnevely	33.5	Salem	31.5
North Arcot	31.9	Bellary	30.7
South Canara	31.4	Tanjore	29.9
Trichinopoly	31.3	Madura	29.2
Anantapur	30.7	Trichinopoly	28.8
Coimbatore	30.0	Cuddapah	27.6
South Arcot	29.1	Anantapur	20.5
Cuddapah	28.7	Coimbatore	20.5
Tanjore	25.9	Ganjam	18.4
Godávri	25.1	Kistna	18.3
Vizagapatam	25.0	Vizagapatam	17.7
Nellore	24.0	Godávri	15.6
Malabar	24.0	Malabar	14.9
Ganjam	20.4	Nellore	14.1
Nilgiris	16.5	Nilgiris	12.3

Municipalities.	Birth-rate per mille per annum.	Municipalities.	Death-rate per mille per annum.
Karúr	54.7	Palamcottah	86.8
Ongole	53.4	Gudiyátam	69.0
Bimlipatam	53.1	Tuticorin	68.6
Dindigul	50.7	Chidambaram	61.0
Periyakulam	50.3	Tirupati	58.0
Erode	49.8	Bellary	57.4
Mangalore	46.7	Tinnevely	57.3
Bezváda	46.2	Salem	57.3
Anakápalle	44.0	Mangalore	56.4
Madura	42.4	Srirangam	55.8
Anantapur	41.5	Kurnool	54.3
Masulipatam	40.7	Dindigul	50.7
Madras	40.6	Máyavaram	48.9
Cocanada	38.6	Madras	47.3
Ootacamund	37.9	Conjeeveram	46.3
Guntúr	37.8	Wárajápet	45.0
Vániyambádi	37.6	Vellore	41.3
Vizianagrum	37.2	Bezváda	39.8
Berhampore	37.1	Madura	38.8
Salem	36.8	Adóni	37.4
Gudiyátam	35.9	Chicacole	37.3
Coimbatore	35.4	Coimbatore	37.2
Tuticorin	35.3	Berhampore	37.1
Wárajápet	34.6	Periyakulam	35.7
Srirangam	34.5	Kumbakónam	35.6
Palni	33.3	Vániyambádi	33.8
Conjeeveram	32.8	Karúr	33.8
Pálghat	31.6	Tirupatúr	33.6
Tirupatúr	30.2	Ongole	31.3
Rajahmundry	29.8	Bimlipatam	30.7
Nellore	29.6	Negapatam	29.9
Kurnool	29.4	Rajahmundry	29.8
Vizagapatam	29.3	Vizianagrum	29.7
Palamcottah	28.0	Erode	29.1
Cochin	27.5	Cochin	29.0
Chicacole	26.8	Palni	27.9
Vellore	26.6	Trichinopoly	27.4
Adóni	26.2	Pálghat	27.0
Calicut	25.8	Anantapur	26.9
Kumbakónam	25.3	Cuddapah	26.5
Bellary	24.9	Ootacamund	26.2
Ellore	24.8	Cuddalore	25.9
Cuddapah	24.0	Tanjore	25.6
Tinnevely	23.2	Mannárgudi	24.7
Mannárgudi	22.2	Vizagapatam	24.5
Tellicherry	21.9	Calicut	23.3
Coonoor	20.0	Nellore	22.6
Tanjore	19.0	Anakápalle	22.4
Parlákimedi	18.7	Guntúr	21.9
Máyavaram	18.7	Ellore	21.5
Trichinopoly	17.4	Cocanada	18.9
Negapatam	16.9	Masulipatam	17.8
Cuddalore	15.9	Parlákimedi	16.4
Cannanore	15.9	Cannanore	15.0
Chidambaram	9.0	Tellicherry	13.1
Tirupati	2.7	Coonoor	12.5

8. *Principal Causes of Death.*—The deaths from the principal causes are shown in the following table compared with those of past periods:—

	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injuries.	Other causes.	Total deaths.
Districts—							
December 1887	13,648	1,615	25,438	3,051	849	33,217	77,818
January 1888	18,772	1,740	20,576	3,167	810	29,108	74,173
February	9,397	2,291	15,870	2,154	772	22,866	53,350
March	4,423	2,562	16,525	1,823	589	22,085	48,407
April	2,237	2,248	15,487	1,790	1,065	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	2,131	1,013	22,810	46,454
July	4,588	1,733	16,869	2,471	922	24,069	50,652
August	3,559	1,499	16,292	2,601	970	23,648	48,569
September	1,803	1,418	16,375	2,141	1,104	21,774	44,615
October	1,816	1,292	15,755	2,201	975	22,495	44,534
November	1,496	1,473	16,966	2,327	848	23,969	47,079
December	6,286	1,901	20,088	3,001	795	28,879	60,950
Municipalities—							
December 1887	2,270	148	1,369	700	50	3,215	7,752
January 1888	2,760	207	1,222	769	50	3,027	8,035
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	247	912	499	52	2,392	4,410
May	184	221	894	505	55	2,445	4,304
June	520	232	849	579	48	2,428	4,656
July	636	204	814	579	46	2,326	4,605
August	403	168	927	712	50	2,495	4,755
September	120	122	895	519	48	2,297	4,001
October	125	106	976	566	54	2,385	4,212
November	164	98	903	620	60	2,520	4,355
December	842	85	1,110	853	58	3,025	5,973

9. The figures indicate an increased mortality in the districts during the month under notice from all of the causes except injuries, but notably so from cholera in both districts and towns. 6,286 deaths occurred from *cholera* in the districts and 842 in the towns; these figures are in both instances higher than in any of the previous months since February. The greatest cholera mortality (1,765) occurred in Tinnevely among the districts. Among the towns, Salem suffered the most with 158 deaths. Three districts and thirty-one towns were entirely free of the disease. The total deaths from *small-pox* were 1,901, of which 85 occurred in the towns. In the districts, the mortality was greater than in any of the former months since April, while in the towns, it was less than in any month of the year as well as of the past year 1887. The largest number of small-pox deaths (339) occurred in Ganjam among the districts, and among the towns in Kurnool, 24. No deaths were recorded in three districts and thirty-three towns. *Fevers* caused 20,088 deaths in the districts and 1,110 in the towns. In both districts and towns, the numbers are greater than in any month since January. All the districts suffered from fevers, but the greatest sufferer was North Arcot, 1,667 deaths. Among the towns, Madras was mostly affected, 330 deaths, next to it Trichinopoly, 47 deaths. The deaths from *bowel complaints* numbered 3,001, of which 853 occurred in the towns. The district mortality was greater than that in any month since January, while the mortality in the towns was greater than that in any month of the year and even of the preceding year 1887. All the districts returned deaths from bowel-complaints—Chingleput the greatest number, 472, and Nilgiris the least, only 2. From ten towns the returns were *nil* in this respect. Madras suffered the most with 282 deaths, and Madura and Tinnevely next to it with 45 deaths each. *Injuries* caused 795 deaths in the districts and 58 in the towns, against 848 and 50, respectively, in the preceding month. The deaths from "*All other causes*" not specified amounted to 28,879 in the districts, against 23,969 in the month previous. In the towns they numbered 3,025 against 2,520. Of the deaths from injuries, 166 were suicidal, 481 were caused by wounds and accidents, and 148 by snakes and wild beasts.

10. The following tables show the mortality from the principal specified causes in each individual district and town:—

Districts.	Cholera.	Districts.	Small-pox.	Districts.	Fevers.	Districts.	Bowel complaints.
Tinnevely	1,765	Ganjam	339	North Arcot	1,667	Chingleput	472
North Arcot	880	South Arcot	197	Cuddapah	1,662	Malabar	307
South Arcot	843	Kurnool	180	Salem	1,531	Madras	282
Tanjore	666	North Arcot	161	Vizagapatam	1,460	South Canara	272
Salem	577	Bellary	149	South Arcot	1,446	Tinnevely	232
South Canara	532	Madura	135	Malabar	1,367	North Arcot	194
Bellary	309	Cuddapah	132	Kurnool	1,198	Tanjore	190
Chingleput	174	Salem	122	Godavari	1,156	Salem	143
Madura	128	Tanjore	117	Coimbatore	1,114	South Arcot	137
Cuddapah	96	Trichinopoly	96	Kistna	1,014	Coimbatore	123
Malabar	84	Malabar	65	Madura	950	Cuddapah	114
Coimbatore	66	Coimbatore	59	Ganjam	907	Madura	113
Anantapur	65	Anantapur	42	Nellore	792	Trichinopoly	111
Kurnool	55	Vizagapatam	29	Trichinopoly	704	Bellary	66
Trichinopoly	29	Tinnevely	24	Tinnevely	629	Godavari	53
Madras	20	Chingleput	21	South Canara	584	Kurnool	38
Nellore	3	South Canara	15	Chingleput	553	Ganjam	36
Coimbatore	3	Nellore	12	Bellary	411	Nellore	33
Vizagapatam	1	Madras	6	Tanjore	386	Anantapur	33
Godavari	..	Godavari	..	Madras	330	Kistna	31
Kistna	..	Kistna	..	Anantapur	167	Vizagapatam	19
Nilgiris	..	Nilgiris	..	Nilgiris	60	Nilgiris	2

Municipalities.	Cholera.	Municipalities.	Small-pox.	Municipalities.	Fevers.	Municipalities.	Bowel complaints.
Salem	158	Kurnool	24	Madras	330	Madras	282
Palamcottah	74	Trichinopoly	8	Trichinopoly	47	Madura	45
Chidambaram	70	Madura	7	Kurnool	38	Tinnevely	45
Bellary	67	Madras	6	Bellary	35	Trichinopoly	39
Mangalore	56	Srirangam	5	Salem	35	Negapatam	37
Vellore	51	Vellore	4	Madura	34	Tanjore	33
Tirupati	51	Calicut	4	Tuticorin	33	Tuticorin	32
Negapatam	46	Cannanore	4	Kumbakonam	30	Kumbakonam	29
Gudiyatam	44	Vizagapatam	3	Berhampore	28	Conjeevaram	25
Adoni	39	Tanjore	3	Palghat	27	Mangalore	24
Cuddalore	38	Gudiyatam	3	Chicacole	26	Srirangam	19
Tinnevely	30	Parlakimedi	2	Tanjore	25	Coimbatore	18
Madura	29	Conjeevaram	2	Berhampore	24	Berhampore	16
Madras	20	Chicacole	1	Vizianagrum	23	Calicut	15
Dindigul	17	Berhampore	1	Vellore	23	Mannargudi	14
Conjeevaram	15	Vizianagrum	1	Vaniyambadi	22	Cuddalore	12
Mayavaram	14	Cuddalore	1	Mayavaram	17	Mayavaram	12
Tanjore	6	Kumbakonam	1	Coimbatore	17	Periyakulam	12
Tuticorin	6	Mannargudi	1	Srirangam	16	Tirupatur	12
Vaniyambadi	5	Dindigul	1	Nellore	15	Vellore	11
Cuddapah	2	Palni	1	Negapatam	15	Gudiyatam	10
Berhampore	1	Salem	1	Parlakimedi	14	Chidambaram	9
Walaipet	1	Karur	1	Guntur	14	Dindigul	8
Coimbatore	1	Bimlipatam	..	Rajahmundry	13	Salem	8
Karur	1	Anakapalle	..	Tirupatur	13	Chicacole	7
Chicacole	..	Cocanada	..	Vizagapatam	12	Vizagapatam	7
Parlakimedi	..	Rajahmundry	..	Ellore	12	Cocanada	7
Vizagapatam	..	Ellore	..	Adoni	12	Vizianagrum	6
Bimlipatam	..	Masulipatam	..	Periyakulam	11	Rajahmundry	6
Vizianagrum	..	Guntur	..	Tirupati	11	Bezvada	6
Anakapalle	..	Bezvada	..	Calicut	10	Palamcottah	6
Cocanada	..	Nellore	..	Anakapalle	9	Ellore	5
Rajahmundry	..	Ongole	..	Ongole	9	Kurnool	5
Ellore	..	Conjeevaram	..	Cuddalore	9	Cuddapah	5
Masulipatam	..	Chidambaram	..	Ootacamund	9	Karur	5
Guntur	..	Mayavaram	..	Cuddapah	8	Palghat	5
Bezvada	..	Negapatam	..	Walaipet	8	Bellary	3
Nellore	..	Periyakulam	..	Mangalore	8	Anantapur	2
Ongole	..	Tinnevely	..	Tinnevely	7	Erode	2
Trichinopoly	..	Palamcottah	..	Cochin	7	Cochin	2
Srirangam	..	Tuticorin	..	Bezvada	6	Cannanore	2
Kumbakonam	..	Cuddapah	..	Chidambaram	6	Anakapalle	1
Mannargudi	..	Bellary	..	Tellicherry	6	Palni	1
Periyakulam	..	Adoni	..	Cannanore	5	Tirupati	1
Palni	..	Anantapur	..	Bimlipatam	4	Coonoor	1
Kurnool	..	Walaipet	..	Mannargudi	4	Tellicherry	1
Anantapur	..	Tirupati	..	Palni	4	Parlakimedi	..
Tirupatur	..	Vaniyambadi	..	Erode	4	Bimlipatam	..
Erode	..	Tirupatur	..	Karur	4	Masulipatam	..
Ootacamund	..	Erode	..	Masulipatam	3	Guntur	..
Coonoor	..	Ootacamund	..	Dindigul	3	Nellore	..
Tellicherry	..	Coonoor	..	Palamcottah	3	Ongole	..
Calicut	..	Mangalore	..	Coonoor	2	Adoni	..
Palghat	..	Tellicherry	..	Cocanada	..	Walaipet	..
Cochin	..	Palghat	..	Anantapur	..	Vaniyambadi	..
Cannanore	..	Cochin	..	Gudiyatam	..	Ootacamund	..

11. *Towns of 25,000 inhabitants and upwards.*—The registered events in these towns (Ootacamund included) in a population of 9,06,380 amounted in December to 2,153 births and 2,546 deaths, yielding ratios of 28·5 and 33·7 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 ..	26·8	18·5
First-class towns of Bengal ..	23·9	29·0
„ „ of Madras ..	28·5	33·7

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

	Popula- tion.	Cholera.	Small- pox.	Fevers.	Bowel- complaints.	Injuries.	All other causes.	Total deaths.	Total births.
Trichinopoly ..	84,449	..	8	47	39	4	95	193	123
Madura ..	76,847	29	7	34	45	4	130	249	272
Salem ..	69,631	158	1	35	8	3	80	285	183
Calicut ..	57,085	..	4	10	15	2	80	111	123
Tanjore ..	54,745	6	3	25	33	..	50	117	87
Negapatam ..	53,776	46	..	15	37	1	35	134	76
Bellary ..	53,460	67	..	35	3	..	151	256	111
Kumbakonam ..	50,098	..	1	30	29	..	89	149	106
Cuddalore ..	43,545	38	1	9	12	..	34	94	58
Vellore ..	40,958	51	4	23	11	..	52	141	91
Coimbatore ..	38,967	1	2	17	18	5	78	121	115
Conjeeveram ..	37,275	15	..	24	25	1	79	144	102
Palghat ..	36,339	..	..	27	5	..	50	82	96
Masulipatam ..	35,056	..	..	3	..	..	49	52	119
Mangalore ..	32,099	56	..	8	24	3	60	151	125
Cocanada ..	30,441	..	..	..	7	..	41	48	98
Vizagapatam ..	30,291	..	3	12	7	1	39	62	74
Nellore ..	27,505	..	..	15	..	1	36	52	68
Cannanore ..	26,386	..	4	5	2	..	22	33	35
Ellore ..	25,092	..	..	12	5	..	28	45	52
Ootacamund ..	12,335	..	..	9	..	..	18	27	39
Total ..	906,380	467	38	395	325	25	1,296	2,546	2,153

ORDER—dated 9th April 1889, No. 328, 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.

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

RETURN showing the BIRTHS and DEATHS in the DISTRICTS of the MADRAS PRESIDENCY during the month of December 1888—cont.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Population according to Census of 1881.		District.	Population from which Returns were received.	DEATHS—cont.												CAUSES OF DEATH—cont.				Still births or born dead.		RATIO PER 1,000 OF POPULATION FOR PREVIOUS FIVE YEARS ENDING 1887.		BIRTHS.		Deaths.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				Small-pox.				Fever.		Borel-complaints.		Injuries.			All other Causes.		M.	F.	M.			F.	M.	F.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				Suicides.		Wounds or Accidents.		Snake-bite.		Killed by Wild Beasts.		M.		F.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Office of Sanitary Commissioner, Madras, 2nd April 1889.

JAS. ANDERSON LAING, Surgeon-Major, Sany. Commr: for Madras.

SANITARY COMMISSIONER.

RETURN showing the BIRTHS and DEATHS in the DISTRICTS of the MADRAS PRESIDENCY during the month of December 1888.

Population according to Census of 1881.	District.	Population from which Returns were received.	BIRTHS.							DEATHS.								
			CLASS.				TOTAL BIRTHS.†			CLASS.				TOTAL DEATHS.‡			CAUSES OF DEATH.	
			Chris- tians.	Hindus.	Muham- madans.	Other Classes.				Chris- tians.	Hindus.	Muham- madans.	Other Classes.				Cholera.	
							Males.	Females.	Total.					Males.	Females.	Total.	M.	F.
1,749,604*	Ganjam	1,059,927	4	1,803	..	..	988	819	1,807	..	1,619	5	..	870	754	1,624	51	33
2,485,141*	Vizagapatam.	1,145,135	3	2,362	16	..	1,145	1,236	2,381	7	1,668	15	..	921	769	1,690	1	..
1,791,512*	Godavari	1,791,512	15	3,684	49	..	1,878	1,870	3,748	4	2,277	46	..	1,276	1,051	2,327	..	..
1,548,480	Kistna	1,548,480	91	4,420	260	..	2,406	2,365	4,771	39	2,187	132	..	1,252	1,106	2,358	..	..
1,220,236	Nellore	1,193,505	6	2,274	106	..	1,230	1,156	2,386	10	1,329	51	..	739	661	1,400	1	2
405,848	Madras	405,848	96	1,111	165	..	730	642	1,372	119	1,269	212	..	779	821	1,600	10	10
981,381	Chingleput	981,381	16	3,365	47	..	1,723	1,705	3,428	17	2,704	42	..	1,413	1,350	2,763	81	93
1,814,738	South Arcot.	1,816,375	51	4,285	71	..	2,237	2,170	4,407	45	4,668	145	..	2,527	2,331	4,858	433	410
1,215,033	Trichinopoly.	1,215,033	137	2,988	40	..	1,597	1,568	3,165	121	2,744	52	..	1,517	1,370	2,917	21	8
2,130,383	Tanjore	2,130,383	109	4,278	213	..	2,343	2,257	4,600	113	4,978	229	..	2,686	2,634	5,320	313	343
2,168,680	Madura	1,294,382	86	3,418	113	..	1,826	1,796	3,622	97	2,882	166	..	1,578	1,567	3,145	68	60
1,699,747	Tinnevelly	1,699,747	277	3,832	211	..	2,185	2,135	4,320	475	5,102	431	..	3,054	2,954	6,008	927	838
709,305	Kurnool	678,551	17	1,793	221	..	977	1,054	2,031	22	1,619	207	..	933	915	1,848	32	23
1,121,038	Cuddapah	1,121,038	3	2,436	244	..	1,339	1,344	2,683	5	2,321	170	..	1,321	1,175	2,496	53	43
736,807	Bellary	736,807	7	2,066	233	..	1,166	1,140	2,306	6	1,592	292	..	978	912	1,890	176	133
599,889	Anantapur	599,889	2	1,442	91	..	800	735	1,535	..	1,118	67	..	593	582	1,175	35	30
1,817,814	North Arcot.	1,822,873	11	4,702	139	..	2,465	2,387	4,852	10	4,624	224	..	2,458	2,400	4,858	477	403
1,599,595	Salem	1,592,899	26	5,260	137	..	2,737	2,686	5,423	18	4,003	158	..	2,140	2,039	4,179	302	275
1,657,690	Coimbatore	1,657,690	19	4,039	79	..	2,196	1,941	4,137	8	2,799	21	..	1,484	1,344	2,828	3	..
91,034	Nilgiris	91,034	31	92	2	..	66	59	125	13	78	2	..	59	34	93	..	..
959,514	South Canara.	955,842	215	2,038	245	..	1,250	1,248	2,498	158	2,110	386	..	1,366	1,288	2,654	260	272
2,365,035	Malabar	2,354,234	92	2,699	1,211	..	2,070	1,932	4,002	80	2,001	838	..	1,610	1,309	2,919	32	34
30,868,504.	Total	27,892,565	1,314	64,387	3,898	..	35,354	34,245	69,599	1,367	55,702	3,881	..	31,584	29,366	60,950	3,276	3,010

* Including the Hill Tracts.

† Inclusive of 22 Europeans and 52 Eurasians, but exclusive of 1,330 still births.

‡ Inclusive of 7 Europeans and 50 Eurasians, but exclusive of 1,330 born dead.

[Continued on next page.]

RETURN showing the BIRTHS and DEATHS registered in the MUNICIPALITIES of the MADRAS PRESIDENCY during the month of December 1888.

Districts.	Municipal Towns.	Popula- tion, Census of 1881.	BIRTHS.						DEATHS.						CAUSES OF DEATH.										RATIO PER- MILLE PER ANNUM.		AVERAGE RATIO OF PREVIOUS FIVE YEARS ENDING 1887.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			CLASS.				TOTAL BIRTHS.	CLASS.				TOTAL DEATHS.	CAUSES OF DEATH.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			Christians.	Hindus.	Muhammadans.	Other Classes.		Christians.	Hindus.	Muhammadans.	Other Classes.		Small-pox.	Fever.	Bowel-complaints.	Injuries.				All other Causes.	Born dead.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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9TH APRIL 1889, No. 329, 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. 328, 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 December 1888.

2. The statistics are annexed.

I have the honor to be,
Sir,

Your most obedient servant,

OOTACAMUND,
9th April 1889.

Chief Secretary.

Exd. A. Raitt.

Govt. of {1889} Madras.
PUBLIC.

Issued

Recd.

Encl.

Letter, 9th April 1889, No. 329.

APRIL,

Vital Statistics.

Forwarding copy of Proceedings recording the
Sanitary Commissioner's remarks on the returns of
— in the districts and municipalities of Madras
Presidency for December 1888.

Recd 328 & 7/4/89

18
Office of Sanitary Commissioner
No 490 Madras 2^d April 1889
Despd 3 — — —
From *Ms 1085*
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 December 1888.
The total deaths regis-
tered in the districts including
municipalities during the month
numbered 60,950, being greater
than

than in any of the previous months since January. The total births numbered 69,599 being less than in any of the previous months since April. In the towns alone the total deaths amounted to 5,973 and the births to 4,960. Here also, as in the districts, the mortality was greater than in any of the previous months since January.

3. The following table shows the events as they occurred among the different sexes and several classes of the community.

	Sexes		Classes					Rates per mille per annum			
	Males	Females	Percentage of females	Christians	Hindus	Mahomedans	Total	Christians	Hindus	Mohomedans	Total
<u>Districts</u>											
Births	35354	34245	103.2	1314	64387	5878	69599	24.3	30.4	25.8	29.9
Deaths	31584	29366	107.5	1367	55702	3881	60950	25.3	26.3	25.7	26.2
<u>Municipalities</u>											
Births	2586	2374	107.6	321	4028	611	4960	31.4	32.7	28.0	31.9
Deaths	3063	2910	100.7	391	4738	844	5973	38.2	38.4	38.8	38.5

70 4 4 4 4 1 3 4 3 3 3 3

4. The total births represent a ratio 29.9 per 1000 of population per annum, - being equal to the average ratio of five previous years, - and the total deaths a ratio of 26.2 against an average of 30.3. In the towns, the ratios are 31.9 for births and 38.5 for deaths against the averages of five previous years of 32.7 and 40.4 respectively.

5. In the table below the actual number of events that were registered and the rates at which they stood, considered with the population per mille per annum, are given contrasted with those of the past periods noted; and in the statements appended the district mortality rate during the month under notice is compared with those of Bengal, North-west Provinces and Punjab for the same period.

	Districts				Municipalities			
	Births	Deaths	Birth rate	Death rate	Births	Deaths	Birth rate	Death rate
Average of 5 previous Decem.	69146	70153	22.9	30.3	4863	6024	32.7	40.4
December 1887	70644	77818	30.8	33.9	5141	7752	33.3	50.3
January 1888	60230	74173	26.3	32.4	5003	8035	32.4	52.1
February	53293	53352	24.3	23.5	4453	5819	28.9	37.7
March	65164	48407	28.0	21.0	4977	4890	32.3	31.7
April	64233	43092	27.5	18.5	5048	4410	32.6	28.4
May	70351	43732	30.1	18.7	5245	4304	33.8	27.7
June	73073	46452	31.9	20.3	5018	4656	32.4	30.0
July	81307	58652	34.9	21.7	5256	4606	33.9	29.7
August	77522	48589	33.7	21.1	5138	4755	33.1	30.8
September	74860	44615	32.2	19.2	4902	4201	31.6	25.9
October	76372	44334	32.9	19.2	4899	4212	31.5	27.1
November	73601	47079	31.4	20.1	5227	4355	33.6	28.0
December	69599	60950	29.9	26.2	4960	5773	31.9	38.5

	Death rate per mille per annum
Bengal	30.1
North-west Provinces	40.4
Punjab	37.4
Madras	26.2

6. The birth and death rates varied in both districts and towns, but much more so in the latter than in the former... The greatest birth rate 41.9, occurred in Chingleput and

and the greatest death rate 47.3 in Madras (town); next to Madras, Tirunelveli returned the greatest death rate 42.4. Nilgiris returned the lowest rates both as regards births and deaths viz 18.5 and 12.3 respectively. Among the towns the highest birth rate registered was in Karur 54.7 and the lowest in Tirupathi 2.7. Palamcottah returned the greatest death rate 86.8 and Tellicherry the least 18.1. The high death rate in Palamcottah was due to cholera from which cause alone 74 or more than one-half of the total mortality (130) took place.

In the following tables the birth and death rates in both districts and towns are given arranged in order of occurrence from highest to lowest.

Districts	Birth rate per mille per annum	Districts	Death rate per mille per annum
Chingleput	41.9	Madras	47.3
Salem	40.8	Tinnevely	42.4
Madras	40.6	Chingleput	33.8
Bellary	37.4	South Canara	33.3
Kistna	36.9	Kurnool	32.7
Kurnool	35.9	South Arcot	32.1
Madura	33.6	North Arcot	31.9
Tinnevely	33.5	Salem	31.5
North Arcot	31.9	Bellary	30.7
South Canara	31.4	Tanjore	29.9
Trichinopoly	31.3	Madura	29.2
Amantapur	30.7	Trichinopoly	28.8
Coimbatore	30.0	Buddapah	27.6
South Arcot	29.1	Amantapur	20.5
Buddapah	28.7	Coimbatore	20.5
Tanjore	25.9	Gaujan	18.4
Godavari	25.1	Kistna	18.3
Vizagapatam	25.0	Vizagapatam	17.7
Nellore	24.0	Godavari	15.6
Malabar	24.0	Malabar	14.9
Gaujan	20.4	Nellore	14.1
Nilgiris	18.5	Nilgiris	12.3

Municipalities	Birth rate per mille per annum	Municipalities	Death rate per mille per annum
Karur	54.7	Palamcottah	86.8
Angole	53.4	Gudiyalam	69.0
Bimlipalam	53.1	Tulicorin	68.6
Widigul	50.7	Chellumberam	61.0
Peyakulam	50.3	Tirupati	57.4
Erode	49.8	Bellary	57.3
Mangalore	46.7	Tinnevely	57.3
Bejwada	46.2	Salem	56.4
Anakapalle	44.0	Mangalore	55.8
Madura	42.4	Srirangam	54.3
Aicantapur	41.5	Kurnool	50.7
Masulipatam	40.7	Widigul	48.9
Madras	40.6	Mayavaram	47.3
Coanada	38.6	Madras	46.3
Coacamund	37.9	Coacamund	45.0
Guntur	37.8	Walajapet	41.3
Vaniyambadi	37.6	Vellore	39.8
Vizianagaram	37.2	Bejwada	38.8
Berhampore	37.1	Madura	37.4
Salem	36.8	Chicacole	37.3
Gudiyalam	35.9	Coimbatore	37.2
Coimbatore	35.4	Berhampore	37.1
Tulicorin	35.3	Peyakulam	35.7
Walajapet	34.6	Kumbakonam	35.6
Srirangam	34.5	Vaniyambadi	33.8
Palni	33.3	Karur	33.8
Coacamund	32.8	Tirupati	31.3
Palghat	31.6	Angole	30.7
Tirupattur	30.2	Bimlipalam	29.9
Rajahmundry	29.8	Kgapatam	29.8
Nellore	29.6	Vizianagaram	29.7
Kurnool	29.4	Erode	29.1
Vizagapatam	29.3	Cochin	29.0
Palamcottah	28.0	Palni	27.9
Cochin	27.5	Trichinopoly	27.4
Chicacole	26.8	Palghat	27.0
Vellore	26.6	Amantapur	26.9
Adoni	26.2	Buddapah	26.5
Calicut	25.8	Coimbatore	26.2
Kumbakonam	25.3	Buddalore	25.9
Bellary	24.9	Tanjore	25.6
Vellore	24.8	Mannargudi	24.7
Buddapah	24.0	Vizagapatam	24.5
Tinnevely	23.2	Calicut	23.3
Mannargudi	22.2	Nellore	22.6
Tellicherry	21.9	Anakapalle	22.4
Coonoor	20.0	Guntur	21.9
Tanjore	19.0	Vellore	21.5
Parlakurmedi	18.7	Coanada	18.9
Mayavaram	18.7	Masulipatam	17.8
Trichinopoly	17.4	Parlakurmedi	16.4
Kgapatam	16.9	Coonoor	15.0
Buddalore	15.9	Tellicherry	13.1
Coonoor	15.9	Tirupati	12.5
Chellumberam	9.0		
Tirupati	2.7		

8. Principal causes of death:- The deaths from the principal causes are shown in the following table compared with those of past periods.

		Cholera	Small-pox	Fever	Bowel complaints	Injuries	Other Causes	Total Deaths
<u>Districts</u>								
December 1887		15648	1615	25438	3051	849	33217	77818
January 1888		18772	1740	20576	3167	810	29108	74173
February		9397	2291	15870	2154	772	22866	53350
March		4672	562	16525	1823	989	22085	42407
April		2237	2248	15487	1790	1065	20265	43092
May		1699	1729	15735	1719	1105	21342	43732
June		2562	1591	16347	2131	1013	22810	46454
July		4588	1733	16869	2471	922	24069	50652
August		3559	1499	16292	2601	970	23648	48539
September		1803	1418	16375	2141	1104	21774	44615
October		1816	1292	15753	2201	975	22495	44534
November		1496	1473	16966	2327	848	23969	47079
December		6286	1901	20088	3101	795	28879	60950
<u>Municipalities</u>								
December 1887		2270	148	1369	700	50	3215	7782
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	52	2392	4410
May		184	221	894	505	55	2445	4304
June		520	232	849	579	48	2428	4656
July		636	204	814	579	46	2326	4605
August		403	168	927	712	50	2495	4755
September		120	122	895	519	48	2297	4001
October		125	106	976	566	54	2385	4212
November		164	98	903	620	50	2520	4355
December		842	85	1110	853	58	3025	5973

9. The figures indicate an increased mortality in the districts during the month under notice from all of the causes except injuries, but notably so from cholera in both districts and towns. 6286 deaths occurred from cholera in the districts and 842 in the towns; these figures are in both instances higher than in any of the previous months since February. The greatest cholera mortality 17.65 occurred in Immervelly among the districts. Among the towns Salem suffered the most with 158 deaths. Three districts and thirty-one towns were entirely free of the disease. The total deaths from Small-pox were 1901 of which 85 occurred in the towns. In the districts the mortality was greater than in any of the former

months

months since April, while in the towns it was less than in any month of the year as well as of the past year 1887. The largest number of small-pox deaths (339) occurred in Ganyam among the districts and among the towns in Kurnool 24. No deaths were recorded in three districts and thirty-three towns. Fevers caused 20088 deaths in the districts and 1110 in the towns. In both districts and towns the numbers are greater than in any month since January. All the districts suffered from fevers but the greatest sufferer was North Arcot 1667 deaths. Among the towns Madras was mostly affected 330 deaths, next to it Trichinopoly 47 deaths. The deaths from bowel complaints numbered 3001, of which 853 occurred in the

the towns. The districts' mortality was greater than that in any month since January while the mortality in the towns was greater than that in any month of the year and even of the preceding year 1887. All the districts returned deaths from bowel complaints, - Chingleput, the greatest number 472 and Nilgiris the least only 2. From ten towns the returns were nil in this respect. Madras suffered the most with 282 deaths and Madurai and Tirunelveli next to it with 45 deaths each. Injuries caused 793 deaths in the districts and 58 in the towns against 848 and 50 respectively in the preceding month. The deaths from "all other causes" not specified amounted to 28879 in the districts against 23969 in the month previous. In the towns they numbered 3025 against 2520. Of the deaths from injuries

injuries 166 were suicidal, 481 were caused by wounds and accidents and 148 by snakes and wild beasts.

10. The following tables show the mortality from the principal specified causes in each individual district and town.

Districts	Cholera		Smallpox	Districts	Smallpox	Districts	Bowel-complaints
Tinnevely	1765	Gangam	339	North Arcot	1667	Chingleput	472
North Arcot	880	South Arcot	197	Buddapah	1662	Malabar	307
South Arcot	843	Kurnool	180	Salem	4531	Madras	282
Tanjore	656	North Arcot	161	Vizagapatam	1460	South Canara	272
Salem	577	Bellary	149	South Arcot	1446	Tinnevely	232
South Canara	532	Madura	135	Malabar	1367	North Arcot	194
Bellary	309	Buddapah	132	Kurnool	1198	Tanjore	190
Chingleput	174	Salem	122	Godavari	1156	Salem	143
Madura	128	Tanjore	117	Coimbatore	1114	South Arcot	137
Buddapah	96	Trichinopoly	96	Krishna	1014	Coimbatore	123
Ganjam	84	Malabar	65	Madura	950	Buddapah	114
Malabar	66	Coimbatore	59	Gangam	907	Madura	113
Anantapur	65	Anantapur	42	Vellore	792	Trichinopoly	111
Kurnool	55	Vizagapatam	29	Trichinopoly	704	Bellary	66
Trichinopoly	29	Tinnevely	24	Tinnevely	629	Godavari	53
Madras	20	Chingleput	21	South Canara	584	Kurnool	38
Vellore	3	South Canara	15	Chingleput	553	Gangam	36
Coimbatore	3	Vellore	12	Bellary	411	Vellore	33
Vizagapatam	1	Madras	6	Tanjore	386	Anantapur	33
Godavari		Godavari		Madras	330	Krishna	31
Krishna		Krishna		Anantapur	167	Vizagapatam	19
Nilgiris		Nilgiris		Nilgiris	60	Nilgiris	2

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Municipalities	Cholera	Municipalities	Smallpox	Municipalities	Smallpox	Municipalities	Bowel-complaints
Salem	158	Kurnool	24	Madras	330	Madras	282
Palanecottah	74	Trichinopoly	8	Trichinopoly	47	Madura	45
Chellumberam	70	Madura	7	Kurnool	38	Tinnevely	45
Bellary	67	Madras	6	Bellary	35	Trichinopoly	39
Mangalore	58	Srirangam	5	Salem	35	Vizagapatam	37
Vellore	57	Vellore	4	Madura	34	Tanjore	33
Tirupali	57	Baliect	4	Talicoor	33	Talicoor	32
Vizagapatam	46	Cananore	4	Kumbakonam	30	Kumbakonam	29
Gudiyatam	44	Vizagapatam	3	Berhampore	28	Coimbatore	25
Adoni	39	Tanjore	3	Palghat	27	Mangalore	24
Buddalore	38	Gudiyatam	3	Chicacole	26	Srirangam	19
Tinnevely	30	Parlakunedi	2	Tanjore	25	Coimbatore	18
Madura	29	Coimbatore	2	Coimbatore	24	Berhampore	16
Madras	20	Chicacole	1	Tirunaguram	23	Baliect	15
Spidigut	17	Berhampore	1	Vellore	23	Thamargudi	14
Coimbatore	15	Tirunaguram	1	Vaniyambadi	22	Buddalore	12
Mayavaram	14	Buddalore	1	Mayavaram	17	Mayavaram	12
Tanjore	6	Kumbakonam	1	Coimbatore	17	Periyathalam	12
Talicoor	6	Thamargudi	1	Srirangam	16	Tirupali	12
Vaniyambadi	5	Spidigut	1	Vellore	15	Vellore	11
Buddapah	2	Palni	1	Vizagapatam	15	Gudiyatam	10
Berhampore	1	Salem	1	Parlakunedi	14	Chellumberam	9
Walajapet	1	Karur	1	Gudiyatam	14	Spidigut	8
Coimbatore	1	Bimlipatam	1	Rajahmundry	13	Salem	8
Karur	1	Anakapalle	1	Tirupali	13	Chicacole	7
Chicacole	1	Coimbatore	1	Vizagapatam	12	Vizagapatam	7
Parlakunedi	1	Rajahmundry	1	Vellore	12	Coimbatore	7
Vizagapatam	1	Ellore	1	Adoni	12	Tirunaguram	6
Bimlipatam	1	Thasulipatam	1	Periyathalam	11	Rajahmundry	6
Tirunaguram	1	Gudiyatam	1	Tirupali	11	Bayawada	6
Anakapalle	1	Bayawada	1	Baliect	10	Palanecottah	6
Coimbatore	1	Vellore	1	Anakapalle	9	Ellore	5
Rajahmundry	1	Angole	1	Angole	9	Kurnool	5
Ellore	1	Coimbatore	1	Buddalore	9	Buddapah	5
Thasulipatam	1	Chellumberam	1	Coimbatore	9	Karur	5
Gudiyatam	1	Mayavaram	1	Buddapah	8	Palghat	5
Bayawada	1	Vizagapatam	1	Walajapet	8	Bellary	3
Vellore	1	Periyathalam	1	Mangalore	8	Anantapur	2
Angole	1	Tinnevely	1	Tinnevely	7	Erode	2
Trichinopoly	1	Palanecottah	1	Coimbatore	7	Coimbatore	2
Srirangam	1	Talicoor	1	Bayawada	6	Cananore	2
Kumbakonam	1	Buddapah	1	Chellumberam	6	Anakapalle	1
Thamargudi	1	Bellary	1	Talicoor	6	Palni	1
Periyathalam	1	Adoni	1	Cananore	5	Tirupali	1
Palni	1	Anantapur	1	Bimlipatam	4	Coimbatore	1
Kurnool	1	Walajapet	1	Thamargudi	4	Talicoor	1
Anantapur	1	Tirupali	1	Palni	4	Parlakunedi	1
Tirupali	1	Vaniyambadi	1	Erode	4	Bimlipatam	1
Erode	1	Tirupali	1	Karur	4	Thasulipatam	1
Coimbatore	1	Erode	1	Thasulipatam	3	Gudiyatam	1
Palghat	1	Coimbatore	1	Gudiyatam	3	Vellore	1
Coimbatore	1	Palanecottah	1	Palanecottah	3	Angole	1
Coimbatore	1	Coimbatore	1	Coimbatore	2	Adoni	1
Palghat	1	Talicoor	1	Coimbatore	2	Walajapet	1
Coimbatore	1	Palghat	1	Anantapur	1	Vaniyambadi	1
Cananore	1	Coimbatore	1	Gudiyatam	1	Coimbatore	1

11.

Towns of 25000 inhabitants

and upwards. The registered events in these towns (Potacamund included) in a population of 906380 amounted in December to 2153 births and 2546 deaths, yielding ratios of 28.5 and 33.7 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 & Wales	26.8	18.5
First class towns of Bengal	23.9	29.0
of Madras	28.5	33.7

12.

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

	Population	Cholera	Small-pox	Fever	Bowel complaints	Dysentery	All other causes	Total deaths	Total births
Trichinopoly	84449	"	8	47	39	4	95	193	123
Madurai	76847	29	7	34	45	4	130	249	272
Salem	59631	158	1	35	8	3	80	285	183
Caticul	57085	"	4	10	15	2	80	111	123
Tanjore	54745	6	3	25	33	"	50	117	87
Nagapattinam	53776	46	"	15	37	1	35	134	76
Bellary	53460	67	"	35	3	"	157	258	111
Kumbakonam	52098	"	1	30	29	"	89	149	106
Buddalore	43545	38	1	9	12	"	34	94	58
Vellore	40958	57	4	23	11	"	52	141	91
Channarayana	38967	1	2	17	18	5	48	121	115
Chengam	37275	15	"	24	25	1	79	144	102
Palghat	36339	"	"	27	5	"	50	82	96
Masulipatnam	35056	"	"	3	"	"	49	52	119
Mangalore	32099	56	"	8	24	3	60	151	125
Cocanada	30441	"	"	"	7	"	41	48	98
Kizhappattinam	30291	"	3	12	7	1	39	62	74
Vellore	27505	"	"	15	"	1	36	52	68
Channarayana	26386	"	4	5	2	"	22	33	35
Vellore	25092	"	"	12	5	"	28	45	52
Potacamund	12335	"	"	9	"	"	18	27	39
Totals	906380	467	38	395	325	25	1296	2546	2153

I have the honor to be

Sir

Your most obedient servant

Jas. Anderson Rainey

Surgeon Major
Sanitary Commissioner for Madras

C No 1085

Public Department

From

Surgeon Major J. A. Lang

Sanitary Commissioner
for Madras

To

The Chief Secretary
to Government

Public Department

Dated 2nd }
Despd 3rd } April 1889
Recd 5 }

2 Mss.

No 490

Encl 2/

Subject

Forwards vital statistics
local reports of the districts
and municipalities of the
Madras Presidency for Decemr
1888.

PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

letter from the Sanitary Commissioner, dated

READ the following

No.

ORDER THEREON, 9 April/89 No. 328

Recorded.

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

H. E.

PUBLIC DEPARTMENT.

(Sanitary).

No. 329 of 188

9 April/89.

To

THE UNDER SECRETARY OF

STATE FOR INDIA.

SIR,

I AM directed to forward, for the inform-
ation of the Right Honorable the Secretary of
State for India, copy of the Proceedings of this
Government, No. 328 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
December 1888.

2. The statistics are annexed.

Chief Secretary,

Recd
21/11/89

Public {188 } Dept.

PROCEEDINGS OF THE MADRAS GOVT.

Dated 188 , No.