(1) பக்கங்களின் எண்ணிக்கை 16-30

(2) புதுக்கித் திருப்பிய நாள்

(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

ரூபாய் தாள்

அரசாணை எண். 34-35	அச்சகம்
மு. கோப்புத் தாள் எண்.	பல்வகை
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Vital Statistics.

Reporting the Sanitary Commissioner's remarks on the returns of ——— in the districts and municipalities of Calcutta Presidency for September 89, and ordering their publication in the Fort St. George Gazette.

Forwarding copy of Proceedings reading ———

——— ——— ——— ———

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Sept. September 89.

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Govt. of {1890} Madras.

PUBLIC.

Issued

Recd. *Encl.*

Letter, 21st Jan. 1890, No. 35.

JANUARY.

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 September 1889.

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. 34, 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 September 1889.

2. The statistics are annexed.

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

Fort St. George,
21*st January* 1890.

Ag. Chief Secretary.

Exd. W. H. French.

Govt. of {1890} Madras.

PUBLIC.

Issued

Recd. *Encl.*

G.O., 21st January 1890, No. 34.

JANUARY.

Vital Statistics.

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

69

Municipalities.	Birth-rate per mille per annum.
Adóni	77·5
Bezváda	66·8
Anantapur	58·6
Dindigul	56·6
Erode	48·6
Conjeeveram	47·3
Coimbatore	46·1
Kurnool	44·2
Wálajápet	42·7
Anakápalle	42·2
Mannárgudi	42·0
Tirupatúr	42·0
Bellary	41·5
Ongole	40·4
Karúr	40·4
Madras	40·0
Vániyambádi	38·4
Periyakulam	37·9
Vizianagrum	37·2
Bimlipatam	36·3
Pálghat	36·3
Masulipatam	36·2
Salem	35·8
Tuticorin	35·3
Madura	34·6
Calicut	34·2
Cochin	33·6
Palni	32·4
Gudiyátam	31·6
Mangalore	31·0
Ellore	30·6
Vellore	30·4
Tinnevelly	29·9
Nellore	29·2
Cuddapah	29·0
Vizagapatam	28·5
Rajahmundry	28·3
Srírangam	27·9
Coonoor	27·6
Máyavaram	27·5
Palamcottah	26·7
Guntúr	25·6
Chicacole	25·5
Chidambaram	24·1
Berhampore	23·3
Kumbakónam	22·7
Cannanore	20·0
Ootacamund	19·4
Tanjore	18·8
Negapatam	18·0
Parlákimedi	17·8
Cuddalore	17·6
Trichinopoly	15·3
Tellicherry	14·1
Cocanada	8·2
Tirupati	6·3

Municipalities.	Death-rate per mille per annum.
Erode	54·7
Bellary	47·5
Bezváda	43·7
Madras	40·8
Kurnool	36·5
Bimlipatam	36·3
Vániyambádi	34·6
Vizianagrum	34·0
Madura	32·9
Cochin	32·8
Chicacole	32·7
Vizagapatam	32·4
Guntúr	32·3
Anantapur	31·7
Tinnevelly	31·0
Máyavaram	30·7
Pálghat	30·3
Tirupatúr	30·2
Adóni	29·4
Kumbakónam	28·9
Rajahmundry	27·8
Cuddapah	27·8
Calicut	27·7
Ongole	27·3
Coimbatore	27·1
Berhampore	26·9
Karúr	26·0
Ellore	25·8
Negapatam	25·6
Srírangam	25·4
Mangalore	25·4
Tuticorin	25·1
Salem	24·7
Dindigul	24·5
Masulipatam	24·3
Anakápalle	24·2
Wálajápet	24·2
Conjeeveram	24·1
Nellore	23·1
Cocanada	20·8
Palni	20·7
Vellore	19·3
Periyakulam	18·9
Palamcottah	18·0
Tanjore	17·5
Coonoor	17·5
Tellicherry	17·5
Cannanore	16·3
Trichinopoly	15·7
Cuddalore	15·4
Parlákimedi	14·8
Mannárgudi	14·8
Tirupati	14·5
Chidambaram	13·9
Ootacamund	13·6
Gudiyátam	12·2

9. *Principal Causes of Death.*—The following table shows the deaths from the principal specified causes compared with past periods. The most noticeable feature in it is a diminution in the mortality from each of the several causes in both districts and towns compared with the preceding month, but from cholera and small-pox it was less than in any of the periods compared with :—

	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injuries.	All other causes.	Total deaths.
Districts—							
September 1888	1,803	1,418	16,375	2,141	1,104	21,774	44,615
January 1889	16,555	3,089	19,869	3,236	883	27,962	66,594
February ,,	5,050	3,077	15,055	2,176	793	20,657	46,816
March ,,	3,695	4,128	16,283	2,096	949	20,629	47,780
April ,,	5,478	3,749	16,760	1,805	965	19,756	47,513
May ,,	6,365	2,372	16,428	2,237	1,163	22,286	50,851
June ,,	9,734	1,986	17,259	2,428	890	21,920	54,219
July ,,	13,203	1,957	20,187	2,976	937	25,421	64,681
August ,,	7,547	1,746	21,743	2,860	1,034	25,618	60,548
September ,,	2,397	1,327	20,791	2,512	1,023	23,997	52,047
Municipalities—							
September 1888	120	122	895	519	48	2,297	4,001
January 1889	1,982	170	1,171	899	53	2,889	6,224
February ,,	619	193	1,061	618	52	2,416	4,959
March ,,	306	290	1,095	596	55	2,606	4,948
April ,,	500	268	1,036	518	47	2,500	4,869
May ,,	804	183	994	671	68	2,623	5,343
June ,,	746	122	977	767	55	2,470	5,137
July ,,	783	113	1,040	809	57	2,692	5,494
August ,,	222	73	1,085	840	43	2,579	4,841
September ,,	202	56	1,054	721	56	2,417	4,506

10. *Cholera* caused 2,397 deaths against 7,547 in the previous month; *small-pox*, 1,327 against 1,746; *fevers*, 20,791 against 21,743; *bowel-complaints*, 2,512 against 2,860.

11. The following tables show the deaths from each of the principal specified causes in the several districts and towns arranged in the order in which they were affected:—

Districts.	Cholera.	Districts.	Small-pox.	Districts.	Fevers.	Districts.	Bowel-complaints.
Nellore	520	South Arcot	301	Visagapatam	3,175	Chingleput	356
Kistna	413	Cuddapah	162	Ganjam	1,749	Malabar	314
Coimbatore	238	North Arcot	119	Kistna	1,656	Madras	300
Godávari	230	Tanjore	116	Godávari	1,485	North Arcot	136
Madura	148	Salem	101	Cuddapah	1,381	South Canara	129
Bellary	141	Ganjam	78	Malabar	1,376	Coimbatore	125
Tanjore	136	Bellary	69	Salem	1,286	Tanjore	100
Kurnool	87	Madura	61	North Arcot	1,234	Madura	98
Visagapatam	84	Visagapatam	60	Kurnool	1,199	South Arcot	95
Tinnevelly	80	Kurnool	49	South Arcot	1,052	Bellary	94
Salem	71	Anantapur	47	Coimbatore	1,013	Tinnevelly	93
Ganjam	64	Chingleput	43	Madura	572	Godávari	90
North Arcot	53	Malabar	41	Chingleput	524	Cuddapah	85
Anantapur	50	Coimbatore	39	Bellary	522	Nellore	79
Madras	39	Trichinopoly	34	Trichinopoly	506	Kistna	75
South Arcot	28	Nellore	27	Nellore	506	Visagapatam	73
Trichinopoly	10	Godávari	24	South Canara	464	Salem	73
Cuddapah	7	Tinnevelly	24	Madras	345	Ganjam	63
Chingleput	6	Kistna	18	Tanjore	306	Trichinopoly	44
Malabar	5	Nilgiris	13	Tinnevelly	300	Kurnool	44
Nilgiris	3	South Canara	10	Anantapur	163	Anantapur	39
South Canara		Madras	8	Nilgiris	88	Nilgiris	9

Municipalities.	Cholera.	Municipalities.	Small-pox.	Municipalities.	Fevers.	Municipalities.	Bowel-complaints.
Negapatam	47	Kumbakónam	13	Madras	345	Madras	360
Madras	39	Madura	10	Bellary	55	Madura	46
Vániyambádi	27	Trichinopoly	9	Salem	49	Calicut	31
Madura	21	Visagapatam	3	Kurnool	36	Negapatam	26
Erode	21	Bezváda	3	Visianagrum	31	Chicacole	19
Salem	10	Tirupatúr	3	Madura	30	Tanjore	17
Trichinopoly	5	Madras	2	Rajahmundry	24	Kumbakónam	17
Visianagrum	4	Conjeeveram	2	Trichinopoly	24	Visagapatam	17
Dindigul	4	Chidambaram	2	Vellore	24	Máyavaram	16
Tirupatúr	4	Tanjore	2	Kumbakónam	21	Conjeeveram	14
Calicut	4	Chicacole	1	Visagapatam	19	Coimbatore	13
Tirupati	3	Visianagrum	1	Tanjore	19	Rajahmundry	13
Masulipatam	2	Cuddalore	1	Adóni	19	Bellary	12
Máyavaram	2	Periyakulam	1	Chicacole	18	Vellore	12
Tuticorin	2	Tinnevelly	1	Parlákimedi	17	Tinnevelly	12
Bellary	2	Tuticorin	1	Guntúr	17	Mangalore	11
Chicacole	1	Vellore	1	Negapatam	17	Berhampore	11
Guntúr	1	Berhampore	..	Pálghat	17	Ellore	10
Coimbatore	1	Parlákimedi	..	Tirupatúr	15	Cuddalore	9
Coconcumund	1	Bimlipatam	..	Nellore	14	Trichinopoly	8
Cochin	1	Anakápalle	..	Conjeeveram	14	Periyakulam	8
Berhampore	..	Cocanada	..	Cuddalore	14	Cuddapah	8
Parlákimedi	..	Rajahmundry	..	Cuddapah	14	Pálghat	8
Visagapatam	..	Ellore	..	Coimbatore	14	Cochin	8
Bimlipatam	..	Masulipatam	..	Berhampore	13	Cocanada	7
Anakápalle	..	Guntúr	..	Ellore	13	Bezváda	7
Cocanada	..	Nellore	..	Calicut	13	Tuticorin	7
Rajahmundry	..	Ongole	..	Mangalore	12	Bimlipatam	6
Ellore	..	Srírangam	..	Cocanada	9	Visianagrum	6
Bezváda	..	Máyavaram	..	Masulipatam	9	Srírangam	6
Nellore	..	Negapatam	..	Tirupati	9	Cannanore	6
Ongole	..	Mannárgudi	..	Tellicherry	9	Salem	5
Conjeeveram	..	Dindigul	..	Anakápalle	8	Guntúr	4
Cuddalore	..	Palni	..	Cochin	8	Ongole	4
Chidambaram	..	Palamcottah	..	Tuticorin	7	Mannárgudi	3
Srírangam	..	Kurnool	..	Vániyambádi	7	Kurnool	3
Tanjore	..	Cuddapah	..	Ongole	6	Tirupatúr	3
Kumbakónam	..	Bellary	..	Srírangam	6	Karúr	3
Mannárgudi	..	Adóni	..	Bezváda	5	Palamcottah	2
Periyakulam	..	Anantapur	..	Máyavaram	5	Erode	2
Palni	..	Gudiyátam	..	Anantapur	5	Ootacamund	2
Tinnevelly	..	Wálajápet	..	Wálajápet	5	Tellicherry	2
Palamcottah	..	Tirupati	..	Bimlipatam	4	Masulipatam	1
Kurnool	..	Salem	..	Chidambaram	4	Nellore	1
Cuddapah	..	Vániyambádi	..	Tinnevelly	4	Adóni	1
Adóni	..	Coimbatore	..	Gudiyátam	4	Gudiyátam	1
Anantapur	..	Erode	..	Karúr	4	Vániyambádi	1
Vellore	..	Karúr	..	Cannanore	4	Coonoor	1
Gudiyátam	..	Ootacamund	..	Erode	3	Parlákimedi	..
Wálajápet	..	Coonoor	..	Coonoor	3	Anakápalle	..
Karúr	..	Mangalore	..	Palni	2	Chidambaram	..
Coonoor	..	Tellicherry	..	Ootacamund	2	Dindigul	..
Mangalore	..	Calicut	..	Mannárgudi	1	Palni	..
Tellicherry	..	Pálghat	..	Periyakulam	1	Anantapur	..
Pálghat	..	Cochin	..	Dindigul	1	Wálajápet	..
Cannanore	..	Cannanore	..	Palamcottah	1	Tirupati	..

12. *Towns of* 25,000 *Inhabitants and upwards.*—The registered events in these towns (Ootacamund included) in a population of 906,380 amounted in September to 2,170 births and 1,913 deaths, yielding ratios of 28·7 and 25·3 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	27·1	15·6
First-class towns of Bengal	22·8	27·9
Do. of Madras	28·7	25·3

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

—	Population.	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injuries.	All other causes.	Total deaths.	Total births.
Trichinopoly	84,449	5	9	24	8	1	64	111	108
Madura	76,847	21	10	30	46	5	99	211	222
Salem	59,631	10	..	49	5	1	58	123	178
Calicut	57,085	4	..	13	21	2	82	122	163
Tanjore	54,745	..	2	19	17	4	38	80	86
Negapatam	53,776	47	..	17	26	..	25	115	81
Bellary	53,469	2	..	55	12	..	143	212	185
Kumbakónam	50,098	..	13	21	17	1	69	121	95
Cuddalore	43,545	..	1	14	8	..	33	56	64
Vellore	40,958	1	1	24	12	1	28	66	104
Coimbatore	38,967	..	..	14	13	..	60	88	150
Conjeeveram	37,275	..	2	14	13	3	43	75	147
Pálghat	36,339	..	..	17	8	2	65	92	110
Masulipatam	35,056	2	..	9	1	..	59	71	106
Mangalore	32,099	..	..	12	11	2	43	68	83
Cocanada	30,441	..	..	9	7	..	37	53	21
Vizagapatam	30,291	..	3	19	16	2	42	82	72
Nellore	27,505	..	..	14	1	6	32	53	67
Cannanore	26,386	..	..	4	6	..	26	36	44
Ellore	25,092	..	..	13	9	..	32	54	64
Ootacamund	12,335	1	..	2	2	..	9	14	20
Total ..	906,380	93	41	393	269	30	1,067	1,913	2,170

ORDER—dated 21st January 1890, No. 34, Public.

Recorded.

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

(True Extract.)

J. GROSE,
Ag. Chief Secretary.

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

Exd. W. H. French.

—	Districts.				Municipalities.			
	Births.	Deaths.	Birth-rate.	Death-rate.	Births.	Deaths.	Birth-rate.	Death-rate.
Average of 5 previous Septembers	77,094	48,552	32·8	20·7	5,102	4,244	32·0	26·7
September 1888	74,860	44,615	32·2	19·2	4,904	4,001	31·6	25·9
January 1889	63,441	65,584	27·3	28·2	4,623	6,234	29·8	40·1
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
April ,, ...	65,941	47,513	28·5	20·5	4,874	4,859	31·4	31·3
May ,, ...	72,189	50,851	31·3	22·1	5,155	5,342	33·2	34·4
June ,, ...	73,315	54,216	31·7	23·4	5,091	5,137	32·8	33·1
July ,, ...	83,539	64,681	35·6	27·6	5,570	5,494	35·9	35·4
August ,, ...	80,800	60,548	34·4	25·7	5,187	4,841	33·4	31·2
September ,, ...	77,460	52,047	33·1	22·2	5,099	4,508	32·8	29·0

	Death-rate per mille per annum.
Bengal	24·6
North-west Provinces	35·1
Punjab	33·8
Madras	22·2

6. The birth and death rates varied in the several districts and towns. Among the districts, Bellary and Kurnool 47·7 each, Kistna 44·2, Chingleput 42·1, Madras (town) 40·0, and Salem 39·4, stood at the top of the list in regard to their birth rates as in the preceding month. South Canara 23·4, Nílgiri 23·0, Malabar 22·5, and Ganjam 20·9, stood at the bottom. In the other districts, the birth rates ranged between 37·6 in South Arcot and 24·8 in Vizagapatam. In regard to deaths, the highest rates were recorded in Madras town 40·8, Vizagapatam 31·6, Kistna 31·3, Bellary 31·2, and Kurnool 31·1, and the lowest in Nílgiris 17·5, Nellore 17·0, Tinnevelly 16·2, and Malabar 14·6. In the other districts, the rates were between 30·5 in Ganjam and 18·6 in South Canara.

7. Among the towns, the highest birth rates were returned by Adóni 77·5, Bezváda 66·8, Anantapur 58·6, and Dindigul 56·6; and the lowest by Trichinopoly 15·3, Tellicherry 14·1, Cocanada 8·2, and Tirupati 6·3. The highest death rates were recorded in Erode 54·7, Bellary 47·5 and Bezváda 43·7; and the lowest in Chidambaram 13·9, Ootacamund 13·6, and Gudiyátam 12·2.

8. The following tables show the birth and death rates in the several districts and towns in the order in which they occurred from highest to lowest:—

Districts.	Birth-rate per mille per annum.
Bellary	47·7
Kurnool	47·7
Kistna	44·2
Chingleput	42·1
Madras	40·0
Salem	39·4
South Arcot	37·6
Coimbatore	36·3
Trichinopoly	35·6
Madura	34·8
Anantapur	34·6
Cuddapah	34·4
North Arcot	34·3
Tanjore	33·9
Nellore	29·6
Tinnevelly	27·1
Godávari	25·7
Vizagapatam	24·8
South Canara	23·4
Nílgiris	23·0
Malabar	22·5
Ganjam	20·9

Districts.	Death-rate per mille per annum.
Madras	40·8
Vizagapatam	31·6
Kistna	31·3
Bellary	31·2
Kurnool	31·1
Ganjam	30·5
Chingleput	25·0
Anantapur	23·9
Godávari	21·8
Tanjore	21·5
Salem	21·4
South Arcot	21·3
Cuddapah	21·2
Coimbatore	20·2
Trichinopoly	19·9
Madura	19·8
North Arcot	19·6
South Canara	18·6
Nílgiris	17·5
Nellore	17·0
Tinnevelly	16·2
Malabar	14·6

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 Fort St. George, 16th January 1890, No. 68.

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 September 1889.

2. The total births registered numbered 77,460, and the total deaths 52,047. Of these, 5,099 of the former and 4,508 of the latter occurred in the Municipal towns. In the report for August, a reduced mortality rate was noted compared with the month previous, attributable to cholera, small-pox and bowel-complaints having been less fatal. In the month under notice, a still further reduction is observable, attributable to the same course,—and fevers also were less fatal in September than in its predecessor.

3. The events, as they occurred among the different sexes and several classes of the community in the districts and towns, were as follows:—

—	Sexes.			Classes.				Ratio per mille per annum.			
	Males.	Females.	Number of males to every 100 females.	Christians.	Hindus.	Muhammadans.	Total.	Christians.	Hindus.	Muhammadans.	Total.
Districts.											
Births	39,470	37,990	103·8	1,372	71,859	4,229	77,460	25·4	33·6	27·9	33·1
Deaths	26,389	25,658	102·8	879	48,480	2,688	52,047	16·3	22·7	17·7	22·2
Municipalities.											
Births	2,630	2,469	106·5	369	3,963	767	5,099	36·0	32·1	35·2	32·8
Deaths	2,259	2,249	100·4	304	3,532	672	4,508	29·7	28·7	30·8	29·0

4. Considered with the population, the total births represent a ratio of 33·1 per mille per annum, and the total deaths 22·2. In the towns, the rates were 32·8 and 29·0 respectively.

5. These results, with the actual totals, are shown below contrasted with former periods, together with the mortality rate compared with those of Bengal, North-west Provinces and Punjab:—

...mmander during the month of September 1889.

...	Causes of Death.														Still births or Born dead.		Ratio per Mille per Annum.		Average Ratio of previous Five Years ending 1888.	
	Fevers.		Bowel-complaints.		Injuries.								All other Causes.							
					Suicides.		Wounds or Accidents.		Snake-bite.		Killed by Wild Beasts.									
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total Births.	Total Deaths.	Births.	Deaths.
...	12	7	10	9	..	..	..	..	..	..	..	..	6	5	..	1	25·5	32·7	31·8	25·5
...	6	6	6	4	..	..	..	..	..	..	..	..	14	16	..	3	23·3	26·9	35·1	46·4
...	12	8	..	..	..	..	..	..	..	..	..	..	1	1	..	..	17·8	14·8	22·6	12·4
...	11	3	10	6	..	..	1	..	1	..	..	..	24	18	..	..	28·5	32·4	33·1	28·3
...	1	3	3	..	..	..	..	..	..	..	..	..	7	9	1	2	36·3	36·3	39·1	32·9
...	10	11	5	1	..	..	..	2	..	..	..	..	10	10	..	..	37·2	34·0	34·0	27·4
...	3	5	..	..	..	..	1	..	..	..	..	..	13	5	..	..	42·2	24·2	36·5	22·5
...	6	4	3	4	..	..	..	..	..	..	..	..	22	16	..	2	8·2	20·8	27·0	22·7
...	14	10	5	7	..	..	2	..	..	..	..	..	8	11	3	..	28·3	27·8	24·7	31·6
...	6	5	6	3	..	..	..	..	..	..	..	..	21	11	..	..	30·6	25·8	30·7	24·2
...	9	..	1	..	..	..	..	..	..	..	..	..	28	31	3	..	36·2	24·3	24·6	14·4
...	6	11	1	3	..	..	1	..	..	..	..	..	14	16	3	1	25·6	32·3	30·6	23·9
1	2	3	4	3	..	..	1	..	..	..	..	..	10	8	1	2	66·8	43·7	..	..
...	7	7	1	..	1	..	3	2	..	..	..	..	20	12	..	..	29·2	23·1	27·6	20·6
...	3	3	3	1	..	..	..	..	..	..	..	..	5	6	1	..	40·4	27·3	57·3	28·6
1	145	200	152	148	..	1	2	..	..	..	..	..	360	333	16	20	40·0	40·8	41·4	39·7
2	5	9	12	1	1	..	1	1	..	..	..	..	22	21	1	3	47·2	24·1	48·3	30·2
...	5	9	5	3	..	..	..	..	..	..	..	..	13	20	..	..	17·6	15·4	25·8	15·4
2	2	2	..	..	..	..	..	..	..	..	..	..	10	7	2	..	24·1	13·9	29·2	18·3
6	13	11	4	4	1	..	..	..	..	..	..	..	38	26	..	..	15·3	15·7	19·1	19·4
..	1	5	4	2	..	..	..	..	..	..	..	..	18	12	..	2	27·9	25·4	31·8	23·2
1	11	8	10	7	..	..	3	1	..	..	..	..	23	15	2	1	18·8	17·5	24·7	17·5
7	11	10	10	7	..	..	..	1	..	..	..	..	35	34	2	3	22·7	28·9	28·0	27·4
..	4	4	8	6	..	..	2	1	..	..	..	..	19	16	1	2	27·5	30·7	31·6	25·8
..	9	8	12	14	..	..	..	..	..	..	..	..	15	10	3	..	18·0	25·6	20·7	29·0
..	..	1	3	..	..	..	1	..	..	..	..	..	11	8	1	..	42·0	14·8	29·7	22·1
4	10	20	27	19	..	..	4	1	..	..	..	..	46	53	10	8	34·6	32·9	37·3	28·4
1	1	..	3	5	..	..	..	..	..	..	..	..	6	11	1	2	37·9	18·9	34·2	20·4
..	1	..	..	..	1	..	1	..	..	..	..	..	11	11	1	..	56·6	24·5	45·3	25·8
..	1	1	..	..	..	..	1	..	..	..	..	..	9	11	..	..	32·4	20·7	27·0	21·6
1	2	2	4	7	..	1	..	..	..	..	..	..	16	27	..	3	29·9	31·0	27·0	19·3
..	..	1	2	..	..	1	..	..	..	..	..	..	15	8	2	..	26·7	18·0	31·3	19·8
1	3	4	3	4	..	1	..	..	..	..	..	..	8	9	..	..	35·3	25·1	34·3	29·2
..	16	20	2	1	..	..	..	..	..	..	..	..	13	10	1	..	44·2	36·5	37·2	34·5
..	3	12	6	2	..	..	1	1	..	..	..	..	8	12	1	1	29·0	27·8	23·3	30·6
..	22	33	7	5	..	..	..	..	..	..	..	..	58	55	..	..	41·5	47·5	27·7	25·7
..	8	11	..	1	..	..	..	..	..	..	..	..	25	10	..	..	77·5	29·4	34·2	19·5
..	..	5	..	..	..	..	..	..	..	..	..	..	3	5	1	2	58·6	31·7	44·9	32·2
..	10	14	5	7	..	1	..	..	..	..	..	..	12	16	..	..	30·4	19·3	35·6	18·4
..	..	4	1	..	..	..	..	..	..	..	..	..	6	6	1	..	31·6	12·2	25·1	18·6
..	2	3	..	..	1	..	..	..	..	..	..	..	9	6	..	..	42·7	24·2	41·8	24·7
..	6	3	..	..	..	..	..	..	..	..	..	..	3	1	..	..	6·3	14·5	12·6	19·0
..	21	28	1	4	..	..	1	..	..	..	..	..	25	33	..	..	35·8	24·7	36·8	18·8
..	2	5	1	..	1	..	..	..	..	..	..	..	4	6	..	..	38·4	34·6	15·0	7·5
3	10	5	1	2	..	..	..	..	..	..	..	..	6	5	..	..	42·0	30·2	23·5	14·2
..	6	8	11	2	..	..	..	..	..	..	..	..	26	34	..	..	46·1	27·1	40·1	23·2
..	2	1	..	2	..	..	..	..	..	..	..	..	8	11	..	..	48·6	54·7	35·7	21·3
..	1	3	2	1	..	..	..	..	..	..	..	..	5	8	..	..	40·4	26·0	48·2	22·1
..	1	1	2	..	..	..	..	..	..	..	..	..	7	2	..	..	19·4	13·6	28 5	21·5
..	..	3	..	1	..	..	..	..	..	..	..	..	3	..	..	..	27·6	17·5	15·0	22·6
..	5	7	4	7	..	..	1	1	..	..	..	..	21	22	..	3	31·0	25·4	35·3	28·3
..	5	4	1	1	..	..	..	..	..	..	..	..	16	9	1	2	14·1	17·5	31·5	23·8
..	3	10	20	11	..	..	1	..	1	..	..	..	37	45	1	3	34·2	27·7	40·9	33·7
..	11	6	4	4	..	..	1	1	..	..	..	..	28	37	..	..	36·3	30·3	30·9	31·0
..	6	2	2	6	..	1	1	2	..	..	..	..	11	11	4	..	33·6	32·8	43·2	37·3
..	..	4	3	3	..	..	..	..	..	..	..	..	10	16	..	..	20·0	16·3	39·0	26·0
33	482	572	390	331	6	6	30	14	2	..	..	..	1,221	1,196	64	66	32·8	29·0	32·0	26·7

* Inclusive of 14 Europeans and 51 Eurasians, but exclusive of 130 born dead.

JAS. ANDERSON LAING, Surgeon-Major,
Sanitary Commissioner for Madras.

Return showing the Births and Deaths registered in the ...

Districts.	Municipal Towns.	Population, Census of 1881.	Births.							Deaths.							
			Class.				Total Births.			Class.				Total Deaths.			
			Christians.	Hindus.	Muhammadans.	Other Classes.	M.	F.	Total.	Christians.	Hindus.	Muhammadans.	Other Classes.	M.	F.	Total.	
Ganjam.	Chicacole	18,302	..	39	..	..	18	21	39	..	46	2	..	27	22	49	
	Berhampore	23,599	1	43	2	..	25	21	46	2	49	2	..	28	28	56	
	Parlakimedi	15,365	..	23	..	..	12	11	23	..	19	..	..	13	6	19	
Vizagapatam.	Vizagapatam	30,291	2	65	5	..	37	35	72	1	76	5	..	48	34	82	
	Bimlipatam	8,582	..	24	2	..	14	12	26	..	25	1	..	12	13	25	
	Vizianagrum	22,577	..	69	1	..	37	33	70	1	58	5	..	17	10	27	
	Anakapalle	13,341	..	47	..	..	23	24	47	..	27	..	..	20	26	46	
Godavari.	Cocanada	30,441	..	19	2	..	11	10	21	3	50	..	..	30	26	56	
	Rajahmundry	24,555	2	55	1	..	28	30	58	..	53	4	..	29	29	58	
	Ellore	25,092	..	56	8	..	37	27	64	..	50	4	..	35	19	54	
Kistna..	Masulipatam	35,056	4	86	16	..	60	46	106	1	62	8	..	38	33	71	
	Guntur	19,646	..	27	15	..	25	17	42	2	40	11	..	23	30	53	
	Besvada	9,336	..	40	12	..	24	28	52	1	29	4	..	19	15	34	
Nellore.	Nellore	27,505	..	59	8	..	39	28	67	..	43	10	..	32	21	53	
	Ongole	9,200	1	26	4	..	14	17	31	1	17	3	..	11	10	21	
Madras ..	Madras	405,848	148	1,048	157	..	724	629	1,353	125	1,102	156	..	678	704	1,382	
Chingleput.	Conjeeveram	37,275	..	143	4	..	78	69	147	..	74	1	..	41	34	75	
South Arcot.	Cuddalore	43,545	..	63	1	..	29	35	64	1	52	3	..	24	32	56	
Trichinopoly.	Chidambaram	19,837	..	36	4	..	19	21	40	..	23	..	..	12	11	23	
	Trichinopoly	84,449	13	86	9	..	51	57	108	12	90	9	..	62	49	111	
	Srirangam	19,773	1	45	..	..	23	23	46	..	42	..	..	23	19	42	
Tanjore.	Tanjore	54,745	5	78	3	..	36	50	86	3	71	6	..	48	32	80	
	Kumbakonam	50,098	4	90	1	..	42	52	95	2	116	3	..	62	49	111	
	Mayavaram	23,044	..	53	..	..	24	29	53	1	56	2	..	31	25	56	
	Negapatam	53,776	8	46	27	..	34	47	81	25	66	24	..	65	50	115	
	Mannargudi	19,409	1	66	1	..	36	32	68	..	24	..	..	15	9	24	
Madura.	Madura	76,847	8	198	16	..	113	109	222	5	175	31	..	104	107	211	
	Periyakulam	16,446	5	43	4	..	27	25	52	1	18	7	..	9	17	26	
	Dindigul	14,182	12	41	14	..	40	27	67	2	20	7	..	18	11	29	
	Palni ..	13,315	..	34	2	..	20	16	36	..	21	2	..	11	12	23	
Tinnevelly.	Tinnevelly	22,221	1	56	1	..	25	33	58	1	54	5	..	22	32	54	
	Palamcottah	17,964	7	32	1	..	19	21	40	6	18	3	..	17	16	33	
	Tuticorin	16,281	24	28	1	..	26	22	48	16	16	3	..	16	19	35	
Kurnool ..	Kurnool	20,329	2	39	34	..	40	35	75	1	30	31	..	31	31	62	
Cuddapah.	Cuddapah	18,982	..	29	17	..	24	22	46	..	24	20	..	17	27	44	
Bellary.	Bellary ..	53,460	10	103	72	..	102	83	185	9	127	76	..	87	135	222	
	Adoni ..	22,441	..	89	56	..	81	64	145	..	34	21	..	33	32	65	
Anantapur.	Anantapur	4,907	..	14	10	..	10	14	24	..	11	2	..	3	10	13	
North Arcot.	Vellore ..	40,958	1	87	18	..	56	48	104	3	51	12	..	28	38	66	
	Gudiyatam	16,690	..	37	7	..	21	23	44	..	12	5	..	7	10	17	
	Walajapet	10,387	..	35	2	..	14	23	37	..	19	2	..	12	9	21	
	Tirupati	13,232	..	7	..	..	4	3	7	..	14	2	..	10	6	16	
Salem	Salem ..	59,631	7	159	12	..	90	88	178	3	109	11	..	55	68	123	
	Vaniyambadi	16,933	..	19	32	..	30	21	51	..	23	23	..	20	26	46	
	Tirupatur	14,278	..	31	19	..	25	25	50	1	15	20	..	18	18	36	
Coimbatore.	Coimbatore	38,967	8	186	6	..	67	83	150	3	82	3	..	43	44	87	
	Erode ..	9,864	2	29	9	..	24	16	40	1	37	7	..	20	25	45	
	Karur	9,205	1	26	4	..	20	11	31	..	18	2	..	8	12	20	
Nilgiris.	Ootacamund	12,335	7	9	4	..	10	10	20	3	9	2	..	11	3	14	
	Coonoor	4,778	4	5	2	..	5	6	11	1	6	..	..	3	4	7	
South Canara.	Mangalore	32,099	20	42	21	..	47	36	83	10	48	10	..	31	37	68	
Malabar.	Tellicherry	24,581	..	14	15	..	17	12	29	6	12	18	..	22	14	36	
	Calicut	57,085	13	61	69	..	76	87	163	19	63	50	..	63	68	131	
	Palghat	36,339	3	92	15	..	45	65	110	1	82	9	..	44	48	92	
	Cochin	15,698	27	7	10	..	24	20	44	20	14	9	..	20	23	43	
	Cannanore	26,386	17	14	13	..	28	16	44	11	8	17	..	13	23	36	
	Total ..	1,861,508	369	3,963	767	..	2,630	2,469	5,099a	304	3,532	672	..	2,259	2,249	4,508a	

a Inclusive of 20 Europeans and 66 Eurasians, but exclusive of 130 still-births.

Office of Sanitary Commissioner, Madras,
16th January 1890.

RETURN showing the BIRTHS and DEATHS in the DISTRICTS of the MADRAS PRESIDENCY during the month of September 1889—*cont.*

Population according to Census of 1881.	District.	Population from which Returns were received.	DEATHS—*cont.*														Still births or Born dead.		Ratio per 1,000 of Population per Annum.		Average Ratio per 1,000 of Population for previous Five Years ending 1888.	
			Causes of Death—*cont.*																			
			Small-pox.		Fevers.		Bowel-complaints.		Injuries.													
									Suicides.		Wounds or Accidents.		Snake-bite.		Killed by Wild Beasts.		All other Causes.					
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Births.	Deaths.	Births.	Deaths.
1,749,604	Ganjam ..	968,390	36	40	897	846	32	31	2	6	6	5	4	..	..	..	268	242	..	4	20·9	30·5	25·0	19·8
2,485,141	Vizagapatam	1,379,136	24	26	1,627	1,548	45	28	..	..	9	19	2	5	..	..	118	101	29	9	24·8	31·6	29·5	18·7
1,791,512	Godavari ..	1,791,512	11	13	784	701	51	39	4	7	9	12	12	4	3	10	727	642	16	15	25·7	21·8	23·5	23·1
1,548,480	Kistna ..	1,548,480	7	6	776	780	37	38	7	9	18	13	4	3	..	..	947	981	32	39	44·2	31·3	39·6	24·6
1,220,236	Nellore ..	1,220,236	12	15	250	255	43	36	20	14	22	20	..	..	..	..	266	263	6	4	29·6	17·9	31·5	17·3
405,848	Madras ..	405,848	1	1	145	200	152	148	..	1	2	..	..	..	..	..	360	333	16	20	40·0	40·8	41·4	39·7
981,381	Chingleput ..	981,381	13	30	253	271	169	187	4	4	10	14	13	5	..	..	549	523	44	35	42·1	25·0	45·2	26·3
1,814,738	South Arcot.	1,816,375	150	114	540	512	60	35	..	..	22	16	22	10	..	..	918	815	5	6	37·6	21·3	35·3	19·9
1,215,033	Trichinopoly.	1,215,033	17	17	248	258	21	23	6	2	3	10	17	9	..	..	701	668	16	15	35·6	19·9	31·5	20·1
2,130,383	Tanjore ..	2,130,383	57	58	156	152	59	41	4	3	21	16	11	10	..	..	1,560	1,530	98	62	33·9	21·5	33·3	22·1
2,168,680	Madura ..	1,294,382	25	26	305	267	52	44	6	9	17	10	10	6	..	..	607	601	44	42	34·8	19·8	32·8	17·7
1,699,747	Tinnevelly ..	1,699,747	6	12	175	125	40	53	9	9	10	15	2	2	..	..	902	868	41	34	27·1	16·2	29·8	18·5
709,305	Kurnool ..	678,551	19	30	605	594	30	14	1	3	6	5	5	3	..	..	185	171	12	13	47·7	31·1	42·7	26·2
1,121,038	Cuddapah ..	1,121,038	82	60	676	705	39	46	1	11	13	21	7	3	..	..	160	156	28	22	34·4	21·2	32·9	21·4
736,807	Bellary ..	736,807	23	36	230	292	44	50	..	2	3	8	4	3	..	..	544	541	5	3	47·7	31·2	42·9	24·2
599,889	Anantapur ..	599,889	19	28	77	86	23	16	2	3	8	7	2	2	..	..	411	464	10	7	34·6	23·9	36·8	20·9
1,817,814	North Arcot	1,822,873	60	59	583	651	68	68	9	11	6	26	5	8	3	..	663	709	38	28	34·3	19·6	36·4	19·5
1,599,595	Salem ..	1,592,899	51	50	628	652	41	32	4	7	25	15	9	11	..	1	625	630	35	39	39·4	21·4	40·1	18·6
1,657,690	Coimbatore ..	1,657,690	25	14	515	498	66	59	2	4	9	24	11	4	..	1	664	666	24	28	36·3	20·2	30·0	15·3
91,034	Nilgiris ..	91,034	4	6	49	39	7	2	..	..	..	..	..	..	..	..	15	8	1	2	23·0	17·5	18·6	16·0
959,514	South Canara	955,842	3	..	251	213	63	66	3	1	16	11	5	1	1	..	391	459	31	32	23·4	18·6	27·8	25·2
2,365,035	Malabar ...	2,354,234	30	11	744	632	166	148	3	4	24	22	17	7	1	..	536	514	26	15	22·8	14·6	24·9	18·1
30,868,504	Total ..	28,061,760	675	652	10,514	10,277	1,308	1,204	87	110	259	289	162	96	8	12	12,117	11,880	557	474	33·1	22·2	32·8	20·7

Office of Sanitary Commissioner, Madras, 16th January 1890.

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 September 1889.

Population according to Census of 1881.	District.	Population from which Returns were received.	BIRTHS.							DEATHS.								
			CLASS.				TOTAL BIRTHS.†			CLASS.				TOTAL DEATHS.‡			CAUSES OF DEATH.	
			Christians.	Hindus.	Muhammadans.	Other Classes.	Males.	Females.	Total.	Christians.	Hindus.	Muhammadans.	Other Classes.	Males.	Females.	Total.	Cholera. M.	Cholera. F.
1,749,604*	Ganjam ..	968,390	1	1,685	2	..	896	792	1,688	2	2,462	5	..	1,270	1,199	2,469	25	29
2,485,141*	Vizagapatam.	1,379,136	3	2,842	13	..	1,492	1,366	2,858	7	3,606	23	..	1,870	1,766	3,636	45	39
1,791,512*	Godavari ..	1,791,512	6	3,788	50	..	1,901	1,943	3,844	3	3,204	52	..	1,715	1,544	3,259	114	116
1,548,480	Kistna ..	1,548,480	93	5,378	242	..	2,933	2,780	5,713	44	3,909	86	..	2,019	2,020	4,039	223	190
1,220,236	Nellore ..	1,220,236	11	2,917	91	..	1,533	1,486	3,019	26	1,575	135	..	889	847	1,736	276	244
405,848	Madras ..	405,848	148	1,048	157	..	724	629	1,353	125	1,102	155	..	678	704	1,382	18	21
981,381	Chingleput ..	981,381	20	3,388	39	..	1,745	1,702	3,447	11	2,011	29	..	1,013	1,038	2,051	2	4
1,814,738	South Arcot.	1,816,375	93	5,508	91	..	2,918	2,774	5,692	39	3,136	59	..	1,721	1,515	3,236	9	13
1,215,033	Trichinopoly.	1,215,033	126	3,410	73	..	1,849	1,760	3,609	64	1,916	30	..	1,019	991	2,010	6	4
2,130,383	Tanjore ..	2,130,383	184	5,580	254	..	3,102	2,916	6,018	153	3,501	150	..	1,938	1,876	3,814	70	66
2,168,680	Madura ..	1,294,382	115	3,502	138	..	1,923	1,832	3,755	35	1,987	114	..	1,106	1,027	2,133	84	64
1,699,747	Tinnevelly ..	1,699,747	255	3,396	191	..	2,032	1,810	3,842	122	2,042	139	..	1,186	1,117	2,303	42	38
709,305	Kurnool ..	678,551	13	2,411	278	..	1,370	1,332	2,702	21	1,573	164	..	890	868	1,758	39	48
1,121,038	Cuddapah ..	1,121,038	7	2,927	284	..	1,615	1,603	3,218	8	1,828	151	..	981	1,006	1,987	3	4
736,807	Bellary ..	736,807	11	2,610	320	..	1,513	1,428	2,941	10	1,732	179	..	927	994	1,921	79	62
599,889	Anantapur ..	599,889	2	1,618	113	..	851	882	1,733	..	1,141	57	..	566	632	1,198	24	26
1,817,814	North Arcot.	1,822,873	7	5,058	151	..	2,637	2,582	5,219	5	2,892	85	..	1,423	1,559	2,982	26	27
1,599,595	Salem ..	1,592,899	22	5,086	128	..	2,579	2,657	5,236	15	2,740	97	..	1,414	1,438	2,852	31	46
1,657,690	Coimbatore ..	1,657,690	20	4,918	83	..	2,552	2,469	5,021	9	2,724	67	..	1,431	1,369	2,800	139	99
91,034	Nilgiris ..	91,034	16	152	7	..	93	82	175	8	123	2	..	78	55	133	3	..
959,514	South Canara.	955,842	119	1,649	196	..	1,020	944	1,964	85	1,266	133	..	733	751	1,484	..	..
2,365,035	Malabar ..	2,354,234	100	2,988	1,325	..	2,192	2,221	4,413	87	2,008	769	..	1,522	1,342	2,864	1	4
30,868,504	Total ..	28,061,760	1,372	71,859	4,229	..	39,470	37,990	77,460	679	48,480	2,688	..	26,389	25,658	52,047	1,269	1,138

* Including the Hill Tracts.

† Inclusive of 26 Europeans and 66 Eurasians.

‡ Inclusive of 19 Europeans and 32 Eurasians.

[Continued on next page.]

PROCEEDINGS OF THE MADRAS GOV

Dated

188

11

PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following letter from the Sanitary Commissioner, dated Currently No. 177.

ORDER thereon, 21-1-90. No.

Recorded.

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

To the Revenue Department. 7
" Board of Revenue. 21
" Surgeon-General with the Government of Madras. 6
" Sanitary Commissioner. 2

Sdeps 29/1/90.

H. E.

PUBLIC DEPARTMENT.

(Sanitary).

No. 35 of 1890.

dated 29/1/90
with Sen. Com.
returns.

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. 34 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 September 1889.

2. The statistics are annexed.

for Chief Secretary.

Chief Secretary.

Pub. C. No. 177

Public Department

No.

From

Surgeon Major J. A. Lang
Sanitary Commissioner
for Madras

To Ge 21-1-90 No. 3 G

The Chief Secretary
to Government

Public Department

Dated 16
Despd
Recd
N.

} January 1890

No. 62

Enclosure

Subject

Submits vital statistics
report of the districts and
municipalities of the Madras
Presidency for September 1889

	Population	Cholera	Small pox	Fevers	Bowel Complaints	Injuries	All other causes	Deaths	Births
Trichinopoly	84449	5	9	24	8	1	64	111	108
Madura	76847	21	10	30	46	5	99	211	222
Salem	59631	10	-	49	5	1	58	123	178
Calicut	57085	11	-	13	31	2	82	132	163
Tanjore	64745	-	2	19	17	4	38	80	86
Negapatam	63776	47	-	17	26	-	25	115	81
Bellary	53460	2	-	55	12	-	143	212	185
Kumbakonum	50098	-	13	21	17	1	69	121	95
Cuddalore	43545	-	1	14	8	-	33	56	64
Vellore	40958	-	1	24	12	1	28	66	104
Coimbatore	38967	1	-	14	13	-	60	88	150
Conjeveram	37275	-	2	14	13	3	43	75	147
Palghat	36339	-	-	17	8	2	65	92	110
Masulipatam	35456	2	-	9	1	-	59	71	106
Mangalore	32099	-	-	12	11	2	43	68	83
Cocanada	30441	-	-	9	7	-	37	53	21
Vizagapatam	30291	-	3	19	16	2	42	82	72
Vellore	27975	-	-	14	1	6	32	53	67
Cannanore	26386	-	-	4	6	-	26	36	44
Ellore	25992	-	-	13	9	-	32	54	64
Rajamundry	12335	1	-	2	2	-	9	14	20
Total	906380	93	41	393	269	30	1087	1913	2170

I have the honor to be

Sir,

your most obedt. servant

Jas. Anderson Laing
Surgeon Major
Sanitary Commissioner for
Madras

of 25,000 inhabitants and upwards. The registered events in these towns (Bolaramum included) in a population of 906,380 amounted in September to 2170 births and 1913 deaths yielding ratios of 28·7 and 25·3 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	27·1	15·6
First class towns of Bengal	22·8	27·9
——— ——— of Madras	28·7	25·3

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

Municipalities	Cholera	Municipalities	Small-pox	Municipalities	Fevers	Municipalities	Bowel-complaints
Negapatam	47	Kumbakonam	13	Madras	345	Madras	301
Madras	39	Madura	10	Bellary	55	Madura	46
Vaniyambadi	27	Trichinopoly	9	Salem	49	Calicut	31
Madura	21	Negapatam	3	Kurnool	36	Negapatam	26
Erode	20	Cuddalore	3	Vizianagrum	31	Chicacole	19
Salem	10	Tanjore	3	Madura	30	Tanjore	17
Trichinopoly	5	Madras	2	Rajahmundry	24	Kumbakonum	17
Vizianagrum	4	Karaikeraum	2	Trichinopoly	24	Negapatam	16
Pondichy	4	Chellumberam	2	Vellore	24	Malayaram	14
Trinpatur	4	Tanjore	2	Kumbakonum	21	Karaikeraum	13
Calicut	4	Chicacole	1	Negapatam	19	Colimbatore	13
Tirupati	3	Vizianagrum	1	Tanjore	19	Rajahmundry	12
Masulipatam	2	Cuddalore	1	Adoni	19	Bellary	12
Malayaram	2	Periyakulam	1	Chicacole	18	Vellore	12
Tuticoren	2	Tinnevelly	1	Parlakimedi	17	Tinnevelly	11
Bellary	2	Tuticorin	1	Gumlur	17	Bangalore	11
Chicacole	1	Vellore	1	Negapatam	17	Berhampore	10
Gumlur	1	Berhampore	-	Palghat	17	Vellore	9
Coimbatore	1	Parlakimedi	-	Tirupatur	15	Cuddalore	8
Palacamund	1	Bimlipatam	-	Vellore	14	Trichinopoly	8
Cochin	1	Anakapalle	-	Karaikeraum	14	Periyakulam	8
Berhampore	1	Cocanada	-	Cuddalore	14	Cuddapah	8
Parlakimedi	-	Cocanada	-	Rajahmundry	14	Palghat	8
Vizagapatam	-	Rajahmundry	-	Cuddapah	14	Cochin	7
Bimlipatam	-	Vellore	-	Coimbatore	14	Cocanada	7
Anakapalle	-	Masulipatam	-	Berhampore	13	Bezwada	7
Cocanada	-	Gumlur	-	Vellore	13	Tuticorin	7
Rajahmundry	-	Vellore	-	Calicut	13	Bimlipatam	6
Vellore	-	Ongole	-	Mangalore	12	Vizianagrum	6
Bezwada	-	Srirangam	-	Cocanada	9	Masulipatam	6
Vellore	-	Malayaram	-	Masulipatam	9	Tirupati	6
Ongole	-	Negapatam	-	Tirupati	9	Srirangam	6
Karaikeraum	-	Mannargudi	-	Pelliacherry	9	Coimbore	6
Cuddalore	-	Pondigul	-	Anakapalle	8	Salem	5
Chellumberam	-	Palni	-	Cochin	8	Gumlur	4
Srirangam	-	Palamcottah	-	Tuticoren	8	Ongole	4
Tanjore	-	Kurnool	-	Vaniyambadi	7	Mannargudi	3
Kumbakonum	-	Cuddapah	-	Ongole	7	Kurnool	3
Mannargudi	-	Bellary	-	Srirangam	6	Tirupatur	3
Periyakullam	-	Adoni	-	Bezwada	6	Karur	3
Palni	-	Anantapur	-	Malayaram	5	Palamcottah	2
Tinnevelly	-	Gudiyatam	-	Anantapur	5	Erode	2
Palamcottah	-	Walajapet	-	Walajapet	5	Palacamund	2
Kurnool	-	Tirupati	-	Bimlipatam	5	Pelliacherry	2
Cuddapah	-	Salem	-	Masulipatam	4	Bimlipatam	2
Adoni	-	Vaniyambadi	-	Chellumberam	4	Chellumberam	1
Anantapur	-	Coimbatore	-	Tinnevelly	4	Tinnevelly	1
Vellore	-	Erode	-	Gudiyatam	4	Gudiyatam	1
Gudiyatam	-	Karur	-	Karur	4	Vaniyambadi	1
Walajapet	-	Palacamund	-	Cannanore	4	Coimbore	1
Karur	-	Coimbore	-	Erode	3	Palacamund	1
Coimbore	-	Mangalore	-	Coimbore	3	Anakapalle	-
Mangalore	-	Pelliacherry	-	Palni	2	Chellumberam	-
Pelliacherry	-	Calicut	-	Palacamund	2	Pondigul	-
Palghat	-	Palghat	-	Mannargudi	1	Palni	-
Cannanore	-	Cochin	-	Periyakullam	1	Anantapur	-
		Cannanore	-	Pondigul	1	Walajapet	-
				Palamcottah	1	Tirupati	-

10 Cholera caused 2017 deaths against 7547 in the previous month; - Small-pox 327 against 1746; - fevers 20781 against 21743; - bowel-complaints 2512 against 2860.

11 The following tables show the deaths from each of the principal specified causes in the several districts and towns arranged in the order in which they were affected.

Districts	Cholera	Districts	Small-pox	Districts	Fevers	Districts	Bowel-complaints
Nellore	520	South Arcot	264	Vizagapatam	3175	Chingleput	380
Kistna	413	Cuddapah	142	Ganjam	1728	Malabar	314
Coimbatore	238	North Arcot	119	Kistna	1556	Madras	308
Godavari	230	Tanjore	115	Godavari	1446	North Arcot	136
Madura	198	Salem	101	Cuddapah	1300	South Canara	129
Salem	141	Ganjam	76	Malabar	1300	Coimbatore	125
Tanjore	136	Bellary	59	Salem	1200	Tanjore	100
Kurnool	87	Madura	51	North Arcot	1200	Madura	96
Vizagapatam	84	Vizagapatam	50	Kurnool	1100	South Arcot	95
Tinnevelly	80	Kurnool	49	South Arcot	1087	Bellary	94
Salem	71	Anantapur	47	Coimbatore	1000	Tinnevelly	93
Ganjam	64	Chingleput	43	Madura	970	Godavari	90
North Arcot	53	Malabar	41	Chingleput	900	Cuddapah	85
Anantapur	50	Coimbatore	39	Bellary	850	Nellore	79
Madras	39	Trichinopoly	34	Trichinopoly	800	Kistna	75
South Arcot	22	Nellore	27	Nellore	508	Vizagapatam	73
Trichinopoly	10	Godavari	24	South Canara	664	Salem	73
Cuddapah	7	Tinnevelly	18	Madras	345	Ganjam	63
Chingleput	6	Kistna	13	Tanjore	300	Trichinopoly	44
Malabar	5	Malgeris	10	Tinnevelly	300	Kurnool	44
Malgeris	3	South Canara	3	Anantapur	96	Anantapur	39
South Canara	-	Madras	2	Malgeris	88	Malgeris	9

9. Principal causes of death. The following table shows the deaths from the principal specified causes compared with past periods. The most noticeable features in the transactions in the mortality from each of the several causes are both decided and towns compared with the preceding months, but from cholera and small-pox it was less than in any of the periods compared with.

	Cholera	Small-pox	Fevers	Bowel-complaints	Dysentery	All other causes	Total deaths
February							
September 1900	1803	1418	16375	2140	1104	29774	46615
January 1899	10555	3089	19869	3286	993	27952	65584
February	5050	3077	15065	2176	773	20667	46018
March	3695	4128	16283	2096	949	20625	47776
April	5478	3749	15760	1906	965	19756	47614
May	6365	2272	16428	2237	1163	22396	50859
June	7734	1985	17257	2428	890	21920	54216
July	13203	1957	20187	2978	937	25428	65708
August	7887	1746	21743	2864	1034	25618	60892
September	2317	1327	20790	2812	1028	23997	57147
Municipalities							
September 1898	120	122	87	519	68	2297	3213
January 1899	1082	170	1171	899	53	2957	6334
February	619	193	1061	619	62	2416	4969
March	306	290	1098	596	65	2608	4963
April	300	258	1036	518	47	2500	4659
May	304	183	994	671	68	2822	5342
June	746	122	977	767	55	2470	5137
July	783	113	1010	809	57	2692	5464
August	222	72	1085	840	43	2579	4841
September	202	56	1054	721	58	2417	4508

Municipalities	Births ratio per mille per annum
Adoni	77·5
Bezwada	66·8
Anantapur	58·6
Dindigul	58·6
Erode	48·6
Gooty	47·3
Coimbatore	46·1
Kurnool	44·2
Walajapet	42·7
Amalapalle	42·2
Mannargudi	42·0
Tirupatur	42·0
Bellary	41·5
Ongole	40·4
Kolar	40·4
Madras	40·0
Vaniyambadi	39·4
Nagapatam	37·9
Vizianagram	37·2
Bezwada	36·3
Palghat	36·3
Masulipatam	36·1
Salem	35·8
Tuticorin	35·3
Madura	34·6
Calicut	34·2
Cochin	33·6
Palni	33·2
Gudiyatam	31·4
Mangalore	31·0
Cellore	30·6
Vellore	30·4
Tinnevelly	29·9
Attore	29·1
Kond Lapah	29·0
Vizagapatam	28·8
Rajahmundry	28·3
Srirangam	27·9
Conoor	27·7
Maiyavaram	27·6
Pattamcottah	26·7
Gumtur	25·6
Cocanada	25·5
Coimbatore	24·4
Berhampore	23·3
Kumbakonam	22·7
Cannanore	20·1
Octacamund	19·4
Tanjore	18·8
Negapatam	18·0
Parlakimedi	17·8
Cuddalore	17·6
Trichinopoly	15·3
Pollicherry	14·1
Cocanada	8·2
Tirupati	6·3

Municipalities	Deaths ratio per mille per annum
Erode	77·5
Bellary	66·8
Bezwada	58·6
Madras	58·6
Kurnool	48·6
Bunderpatam	47·3
Vaniyambadi	46·1
Vizianagrum	44·2
Madura	42·7
Cochin	42·2
Chicacole	42·0
Vizagapatam	42·0
Guntur	41·5
Anantapur	40·4
Tinnevelly	40·4
Mayavaram	40·0
Palghat	39·4
Tirupatur	37·9
Adoni	37·2
Kumbakonum	36·3
Rajahmundry	36·3
Cuddapah	36·1
Salem	35·8
Tuticorin	35·3
Ongole	34·6
Coimbatore	34·2
Berhampore	33·6
Karur	33·2
Cellore	31·4
Negapatam	31·0
Cochangam	30·6
Mangalore	30·4
Tuticorin	29·9
Salem	29·1
Dindigul	29·0
Masulipatam	28·8
Nidadapalle	28·3
Walajapet	27·9
Conjeveram	27·7
Kellore	27·6
Cocanada	26·7
Palni	25·6
Vellore	25·5
Periyakulam	24·4
Pattamcottah	23·3
Tanjore	22·7
Conoor	20·1
Pollicherry	19·4
Cannanore	18·8
Trichinopoly	18·0
Cuddalore	17·8
Parlakimedi	17·6
Mannargudi	15·3
Tirupati	14·1
Chellumberam	8·2
Octacamund	6·3
Gudiyatam	

Bellary 47·5 and [illegible] and the lowest in Chellumbrum 13·9, Cotteam 13·6 and Gudiyatam 12·2.

The following tables show the birth and death rates on the several districts and towns in the order in which they occurred from highest to lowest.

Districts	Birth rate per mille	Districts	Death rate per mille
Bellary	47·7	Madras	40·8
Kurnool	47·7	Vizagapatam	31·6
Kistna	44·7	Kistna	31·3
Chingleput	42·1	Bellary	31·2
Madras	40·8	Kurnool	31·1
Salem	37·4	Ganjam	30·5
South Arcot	37·6	Chingleput	25·0
Coimbatore	36·3	Anantapur	23·9
Trichinopoly	35·6	Godavari	21·8
Madura	34·9	Cuddapah	21·5
Anantapur	34·8	Salem	21·4
Cuddapah	34·5	South Arcot	21·3
North Arcot	34·3	Cuddapah	21·2
Cuddapah	33·9	Coimbatore	20·2
Nellore	29·6	Trichinopoly	19·9
Tinnevelly	27·5	Madura	19·8
Godavari	25·2	North Arcot	19·8
Vizagapatam	24·8	South Canara	18·6
South Canara	23·4	Nilgiris	17·5
Nilgiris	23·0	Nellore	17·0
Malabar	22·5	Tinnevelly	16·2
Ganjam	20·9	Malabar	14·6

towns. Among the districts, Bellary and Kurnool 47·7 and Kistna 44·2, Chingleput, Madras (town) 40·0 and Salem 37·4 stood at the top of the list in regard to their birth rates as in the preceding month. South Canara 23·4, Nilgiris 23·0, Malabar 22·5 and Ganjam 20·9 stood at the bottom. In the other districts the birth rates ranged between 37·6 in North Arcot and 24·8 in Vizagapatam. In regard to deaths the highest rate recorded in Madras town 40·8, Vizagapatam 31·6, Kistna 31·3, Bellary 31·2 and Kurnool 31·1 and the lowest in Nilgiris 17·5, Nellore 17·0, Tinnevelly 16·2 and Malabar 14·6. In the other districts the rates were between 30·5 in Ganjam and 18·6 in South Canara.

7. Among the towns the highest birth rates were returned by Adoni 77·5, Bezwada 66·8, Anantapur 58·6 and Pondicherry 56·6 and the lowest by Trichinopoly 15·3, Tellicherry 14·1, Coconada 9·2 and Tirupati 6·3. The highest death rates were recorded in Erode 54·7,

Bellary

were 32·8 [illegible]

5 These results with the actual [illegible] details are shown below contrasted with former periods, together with the mortality rates for 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 Septembers	77094	48552	32·8	20·7	5102	4244	32·0	26·7
September 1888	74860	44615	32·2	19·2	4904	4007	31·6	25·8
January 1889	63441	65584	27·3	28·2	4623	6234	29·8	40·1
February	54075	46818	23·5	20·3	4152	4957	26·7	31·9
March	63075	47780	27·1	20·5	4791	4950	30·9	31·9
April	65941	47513	28·5	20·5	4884	4859	31·4	31·3
May	72189	50851	31·3	22·7	5155	5342	33·2	34·4
June	73315	54216	31·7	23·4	5091	5137	32·8	33·1
July	83539	64681	35·8	27·6	5870	5494	35·9	35·4
August	80800	60548	34·4	25·7	5187	4841	33·4	31·2
September	77460	52047	33·1	22·2	5099	4508	32·8	29·0

	Death rate per mille per annum
Bengal	24·6
North-west Provinces	35·1
Punjab	33·8
Madras	22·2

6 The birth and death ratios varied in the several districts and towns

noted compared with the months previous attributable to cholera, small-pox and bowel complaints having been less fatal. In the months under notice a still further reduction is observable attributable to the same causes, and fevers also were less fatal in September than in the predecessor.

3. The events as they occurred among the different sexes and several classes of the community in the districts and towns were as follows:-

	Sexes			Classes								Ratio per mille per annum	
	Males	Females	Sex unknown	Christians	Hindus	Mahomedans	Sikhs	Hindoos	Parsees	Non-Europeans	Total		
Districts													
Births	39470	37990	103·8	1372	71859	4229	77460	25·4	33·6	27·9	33·1		
Deaths	26389	25658	102·8	879	48[illegible]	[illegible]	47	16·3	22·7	17·7	22·2		
Municipalities													
Births	2630	2469	106·5	369	3743	767	5099	36·0	32·1	35·2	32·8		
Deaths	2259	2249	100·4	304	3532	672	4508	29·7	29·7	30·8	29·0		

4 Considered with the population the total births represent a ratio of 33·1 per mille per annum and the total deaths 22·2. In the towns the ratios were

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Office of Sanitary Commrs

No. 48 Fort Saint George, 16th January 1890

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 Gazette the usual abstract statements of births and deaths in the Districts and Municipalities of the Madras Presidency for the months of September 1889.

2. The total births registered numbered 77,460 and the total deaths 52,047. Of these 5099 of the former and 4609 of the latter occurred in the Municipal towns. In the report for August a reduced mortality rate was noted