(1) பக்கங்களின் எண்ணிக்கை 38 (33)

(2) புதுக்கித் திருப்பிய நாள் _____

(3) ஆதாரங் குறிப்பவர் சருக்கொப்பம் _____

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

_____ துறை

அரசாணை எண்.	அச்சகம்
மு. கோப்புத் தாள் எண். 418-89	பலவகை
நாள் : 9.5.1889	199

மடிக்கவோ கண்டபடி கையாளவோ கூடாது.

ஆவண. கா. 1—18,006—6-9-90.

[1]

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Public DEPARTMENT.
G.O., DATED 9. 5. 89
No. 418/9.

First copy sent to Press. 13/5

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[Despatch Abstract.]

Vital Statistics.

Recording the Sanitary Commissioner's remarks on the returns of —— in the districts and municipalities of the Madras Presidency for January 1889, and ordering their publication in the Fort St. Geo: Gazette.

~~Copy of Proceedings forwarded~~
~~Collectors of districts.~~

Forwarding copy of Proceedings recording ——

——————— para

[1]

Pub 415-9

ORDINARY, PRINTED.

DEPARTMENT.
G.O., DATED
No.

First copy sent to Press.

Returned for signature.

Despatched in print.

[Despatch Abstract.]

10

BACK PAPER, No. of 188

READ AGAIN Order of Government, dated 188 , No.

FURTHER PAPER, No. of 188

ENCLOSURES.

CURRENT No. 1389 — a

STATEMENT WITH DITTO.

ORDER, &c. OF GOVERNMENT—A.

PAPERS KEPT OUT OF FILE FOR DESPATCH IN ORIGINAL (not paged).

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R = Print, but not for monthly volume.

418 : 5
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Govt. of {1889} Madras.

PUBLIC.

Issued

Recd. *Encl.*

Letter, 9th May 1889, No. 419.

MAY.

Vital Statistics.

Forwarding copy of Proceedings recording the Sanitary Commissioner's remarks on the returns of — in the districts and municipalities of the Madras Presidency for January 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. 418, 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 January 1889.

2. The statistics are annexed.

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

OOTACAMUND,
9th May 1889.

Chief Secretary.

Exd. A. Raitt.

RETURN showing the BIRTHS and DEATHS registered in the MUNICIPALITIES of the MADRAS PRESIDENCY during the month of January 1889.

Districts.	Municipal Towns.	Population, Census of 1881.	BIRTHS.							DEATHS.																										Ratio per Mille per Annum.		Average Ratio of previous Five Years ending 1888.	
			Class.				Total Births.			Class.				Total Deaths.			Causes of Death.																							
			Christians.	Hindus.	Muhammadans.	Other Classes.	M.	F.	Total.	Christians.	Hindus.	Muhammadans.	Other Classes.	M.	F.	Total.	Cholera.		Small-pox.		Fevers.		Bowel-complaints.		Injuries. Suicides.		Injuries. Wounds or Accidents.		Injuries. Snake-bite.		Injuries. Killed by Wild Beasts.		All other Causes.		Born dead.		Total Births.	Total Deaths.	Births.	Deaths.
																	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
Ganjam.	Chicacole ..	18,302	..	29	1	..	16	14	30	..	39	3	..	23	19	42	..	..	2	..	10	8	1	1	..	..	..	..	..	..	..	..	10	10	..	..	19·6	27·5	27·8	28·8
	Berhampore ..	23,599	1	63	..	..	35	29	64	2	81	1	..	53	31	84	..	..	12	10	21	10	5	5	..	..	2	..	..	..	..	..	13	6	..	..	32·5	42·7	36·6	41·8
	Parlakimedi ..	15,365	..	29	..	..	17	12	29	..	21	..	..	12	9	21	..	..	3	3	8	6	..	..	..	..	..	..	..	..	..	..	1	..	..	..	22·6	16·4	17·1	19·5
Vizagapatam.	Vizagapatam ..	30,291	..	66	5	..	38	33	71	2	91	5	..	46	52	98	..	..	10	9	14	11	4	3	..	..	..	..	..	..	..	..	18	29	..	..	28·1	38·8	31·7	31·7
	Bimlipatam ..	8,582	..	19	2	..	14	7	21	..	11	1	..	4	8	12	..	..	..	..	2	..	..	2	..	..	..	..	..	..	..	..	2	6	1	1	29·3	16·7	29·9	26·8
	Vizianagrum ..	22,577	..	65	2	..	32	35	67	..	53	3	..	29	27	56	..	..	5	7	8	6	..	4	..	..	1	..	..	..	..	..	15	10	..	..	35·6	29·7	31·5	27·4
	Anakapalle ..	13,341	..	36	..	..	21	15	36	..	32	..	..	17	15	32	..	..	..	..	9	4	..	1	..	..	..	..	..	..	..	..	8	10	..	..	32·3	28·7	37·0	31·8
Godavari.	Cocanada ..	30,441	..	88	8	..	50	46	96	2	65	2	..	36	33	69	..	..	..	..	2	1	5	7	..	..	..	..	..	..	..	..	29	25	..	1	37·8	27·2	37·2	25·5
	Rajahmundry ..	24,555	..	60	4	..	36	28	64	..	48	1	..	23	26	49	..	..	..	..	6	7	4	4	..	..	..	1	..	..	..	..	13	14	1	2	31·2	23·9	29·9	28·8
	Ellore ..	25,092	1	44	7	..	28	24	52	..	29	2	..	16	15	31	..	..	..	..	4	5	3	3	..	..	1	..	..	..	..	..	8	7	..	..	21·8	14·8	25·5	36·1
Kistna..	Masulipatam ..	35,056	1	67	8	..	40	36	76	..	38	3	..	24	17	41	..	..	..	..	1	2	..	..	..	..	1	..	..	..	..	..	22	15	..	..	26·0	14·0	25·3	23·0
	Guntur ..	19,646	2	43	11	..	27	29	56	1	15	10	..	12	14	26	..	..	..	..	4	5	1	..	..	..	1	1	..	..	..	..	6	8	3	1	34·2	15·8	23·9	23·5
	Bezvada ..	9,336	..	24	3	..	16	11	27	..	22	2	..	18	6	24	..	..	..	..	5	1	2	2	..	..	..	..	..	..	..	..	11	3	5	..	34·7	30·8	..	..
Nellore.	Nellore ..	27,505	2	43	13	..	31	27	58	2	44	10	..	37	19	56	6	3	..	..	11	4	..	..	..	..	1	..	..	..	..	..	19	12	..	..	25·3	24·4	29·2	26·8
	Ongole ..	9,200	3	25	4	..	14	18	32	3	15	2	..	12	8	20	..	..	..	..	3	..	2	1	..	..	..	1	..	..	..	..	7	6	2	1	41·7	26·0	41·7	36·7
Madras ..	Madras ..	405,848	102	990	180	..	646	626	1,272	114	1,304	264	..	879	803	1,682	17	14	1	..	192	196	172	167	..	..	9	5	..	..	..	..	488	421	11	8	37·6	49·7	38·2	50·9
Chingleput.	Conjeeveram ..	37,275	..	81	1	..	41	41	82	..	107	3	..	54	56	110	5	3	..	1	6	7	8	10	..	..	..	..	1	..	..	..	34	35	3	4	26·3	35·4	33·0	54·0
South Arcot.	Cuddalore ..	43,545	..	56	..	..	32	24	56	..	112	5	..	47	70	117	11	18	..	..	9	6	9	10	..	..	..	..	..	..	..	..	18	36	..	1	15·4	33·8	24·4	24·1
	Chidambaram ..	19,837	..	25	..	..	9	16	25	..	95	5	..	48	52	100	38	32	..	..	3	6	1	7	..	..	..	..	..	..	..	..	6	7	2	..	15·1	60·4	20·0	34·9
Trichinopoly.	Trichinopoly ..	84,449	9	84	10	..	51	52	103	16	131	17	..	75	89	164	..	..	4	7	11	24	7	18	..	..	5	..	..	..	..	..	48	40	4	4	14·6	23·3	18·6	49·9
	Srirangam ..	19,773	..	38	..	..	19	19	38	..	68	..	..	30	38	68	2	..	..	2	5	8	6	11	..	..	..	..	..	..	..	..	17	17	1	4	23·0	41·2	33·2	60·5
Tanjore.	Tanjore ..	54,745	16	108	9	..	76	57	133	17	267	19	..	152	151	303	62	57	2	3	16	20	29	28	..	..	..	..	..	..	..	..	43	43	2	1	29·1	66·4	21·8	54·4
	Kumbakonam ..	50,098	6	110	3	..	61	58	119	8	270	11	..	145	144	289	55	50	1	..	20	22	23	18	..	..	1	..	2	1	..	..	43	53	8	5	28·5	69·2	28·3	57·5
	Mayavaram ..	23,044	..	42	2	..	28	16	44	3	114	3	..	50	70	120	20	31	..	..	3	8	5	4	..	..	..	..	..	..	..	..	22	27	1	1	22·9	62·4	31·0	56·1
	Negapatam ..	53,776	12	53	12	..	40	37	77	20	98	29	..	71	76	147	33	39	..	..	3	..	15	19	..	..	..	..	..	..	..	..	20	18	1	2	17·1	32·8	19·1	52·4
	Mannargudi ..	19,409	1	39	..	..	14	17	31	1	41	1	..	23	20	43	1	..	3	2	3	1	3	6	..	..	..	2	..	..	..	..	13	9	..	1	19·1	26·5	33·2	45·2
Madura.	Madura ..	76,847	10	203	18	..	118	113	231	12	180	39	..	123	108	231	28	26	2	..	10	16	27	22	..	..	3	1	..	..	..	..	53	43	11	10	36·0	36·0	35·0	42·7
	Periyakulam ..	16,446	3	42	3	..	26	22	48	4	41	5	..	19	31	50	..	..	..	..	3	4	3	6	..	..	..	..	..	..	..	..	13	21	..	1	35·0	36·4	31·3	18·2
	Dindigul ..	14,182	16	46	2	..	29	35	64	19	37	6	..	27	35	62	6	2	4	3	2	3	2	6	..	..	..	1	..	..	..	..	13	20	2	1	54·1	52·4	43·8	33·9
	Palni	13,315	2	29	3	..	18	16	34	..	30	..	..	16	14	30	..	..	..	1	2	2	..	1	..	..	..	1	..	..	..	..	14	10	..	..	30·6	27·0	24·3	24·3
Tinnevelly.	Tinnevelly ..	23,221	..	39	2	..	24	17	41	2	156	10	..	82	86	168	48	47	..	..	1	2	18	15	..	..	1	..	..	..	..	..	14	22	..	..	21·1	86·8	25·0	52·6
	Palamcottah ..	17,964	5	23	1	..	12	17	29	5	73	5	..	41	42	83	27	28	..	..	..	2	..	..	..	..	..	..	..	..	..	..	14	12	..	..	19·3	55·4	24·7	51·6
	Tuticorin ..	16,281	20	36	..	..	33	23	56	16	62	8	..	47	39	86	8	12	..	..	10	8	17	9	..	..	..	..	..	..	..	..	12	10	..	..	41·2	63·3	35·0	58·8
Kurnool ..	Kurnool ..	20,329	1	20	23	..	27	17	44	3	36	50	..	47	42	89	..	..	8	2	28	29	3	2	..	..	..	..	..	..	..	..	8	9	1	..	25·9	52·5	33·7	26·7
Cuddapah.	Cuddapah ..	18,982	2	13	20	..	16	19	35	..	34	35	..	33	36	69	8	13	..	1	10	4	3	2	..	..	..	..	..	..	..	..	12	16	1	1	22·1	43·6	17·6	32·6
Bellary.	Bellary	53,460	6	89	51	..	79	67	146	6	86	68	..	85	75	160	..	..	2	1	18	19	5	1	..	..	..	..	..	..	..	..	60	54	..	..	32·7	35·8	23·8	33·4
	Adoni	22,441	..	33	24	..	32	25	57	..	27	18	..	24	21	45	..	1	3	3	13	7	..	..	..	..	..	..	..	..	..	..	8	10	..	..	30·4	24·0	31·9	20·3
Anantapur.	Anantapur ..	4,907	..	7	6	..	5	8	13	..	6	1	..	5	2	7	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	4	1	..	..	31·7	17·1	48·4	26·4
North Arcot.	Vellore	40,958	2	52	7	..	30	31	61	6	150	51	..	96	111	207	63	75	1	1	11	12	3	4	..	..	..	..	..	..	..	..	18	19	1	1	17·8	60·6	28·7	31·3
	Gudiyatam ..	16,690	..	11	3	..	5	9	14	..	60	15	..	39	34	73	25	22	3	1	4	5	1	..	..	..	..	..	..	..	..	..	6	6	1	..	10·0	52·4	23·7	90·6
	Walajapet ..	10,387	..	24	1	..	10	15	25	..	55	4	..	35	24	59	4	2	1	1	7	5	3	3	..	..	..	..	..	..	..	..	20	13	..	..	28·8	68·1	37·8	34·6
	Tirupati ..	13,232	..	7	1	..	1	7	8	..	22	1	..	14	9	23	..	..	..	..	6	6	3	1	..	..	..	..	..	..	..	..	5	2	..	..	7·2	20·8	15·4	29·0
Salem	Salem	59,631	1	131	19	..	80	71	151	1	173	23	..	109	88	197	54	34	3	1	6	15	7	4	..	..	1	1	..	..	..	..	38	33	..	..	30·3	39·6	29·7	34·3
	Vaniyambadi ..	15,933	..	18	29	..	33	14	47	..	37	39	..	42	34	76	16	15	..	..	10	9	1	1	..	..	..	..	..	..	..	..	15	9	..	..	35·3	57·2	4·5	13·5
	Tirupatur ..	14,278	1	24	15	..	19	21	40	1	27	10	..	20	18	38	2	1	..	..	7	3	3	4	..	..	..	1	..	..	..	..	8	9	..	..	33·6	31·9	20·1	22·6
Coimbatore.	Coimbatore ..	38,967	2	127	2	..	70	61	131	5	96	7	..	57	51	108	..	..	2	..	10	11	10	4	..	1	..	..	..	..	..	..	35	35	..	2	40·3	33·2	41·2	36·5
	Erode	9,864	4	31	5	..	19	21	40	3	16	5	..	15	9	24	..	..	..	1	3	1	3	1	..	..	..	..	..	..	..	..	9	6	..	..	48·6	29·1	33·3	47·4
	Karur ..	9,205	..	27	4	..	20	11	31	..	22	3	..	16	9	25	..	..	..	..	1	2	2	1	..	..	..	..	..	..	..	..	13	6	..	1	40·4	32·5	42·2	59·9
Nilgiris.	Ootacamund ..	12,335	16	13	..	..	13	16	29	10	8	3	..	7	14	21	..	..	..	..	4	7	..	3	..	..	..	..	..	..	..	..	3	4	..	..	28·2	20·4	33·4	29·0
	Coonoor ..	4,778	4	4	2	..	6	4	10	5	4	2	..	5	6	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	..	..	25·1	27·6	18·5	24·6
South Canara.	Mangalore ..	32,099	39	48	18	..	56	40	96	18	61	27	..	49	57	106	7	11	..	..	5	11	9	13	..	..	1	..	..	..	..	..	27	22	2	1	35·8	39·6	33·0	30·8
Malabar.	Tellicherry ..	24,581	2	21	19	..	21	21	42	6	14	16	..	20	16	36	..	..	..	..	7	3	2	3	..	..	..	..	..	..	..	..	11	10	..	..	20·5	17·5	26·9	21·7
	Calicut ..	57,085	7	63	68	..	54	84	138	9	104	53	..	92	74	166	..	..	12	12	10	6	11	10	..	..	3	..	..	..	..	..	56	46	4	1	29·0	34·8	34·3	39·9
	Palghat ..	36,339	1	70	11	..	46	36	82	1	70	13	..	38	46	84	..	..	..	..	17	8	2	1	..	..	1	2	..	..	..	..	18	35	..	..	27·0	27·7	33·5	36·5
	Cochin ..	15,698	41	8	2	..	29	22	51	27	11	5	..	25	18	43	..	..	..	..	3	5	..	3	..	..	..	..	..	..	..	..	22	10	2	..	38·9	32·8	41·0	66·3
	Cannanore ..	26,386	5	27	38	..	41	29	70	10	25	18	..	30	23	53	..	..	8	6	5	2	1	..	..	..	..	..	..	..	..	..	16	15	3	1	31·8	24·1	42·9	30·8
	Total ..	1,861,508	337	3,604	682	..	2,404	2,219	4,623a	360	4,934	940	..	3,194	3,040	6,234b	546	536	92	78	592	579	447	452	..	1	32	16	3	1	..	..	1,482	1,377	73	57	29·8	40·1	31·5	42·1

a Inclusive of 15 Europeans and 48 Eurasians, but exclusive of 130 still births.

b Inclusive of 14 Europeans and 60 Eurasians, but exclusive of 130 born dead.

Office of Sanitary Commissioner, Madras,
29th April 1889.

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

SANITARY COMMISSIONER.

RETURN showing the BIRTHS and DEATHS in the DISTRICTS of the MADRAS PRESIDENCY during the month of January 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 ..	801,633	1	1,340	1	..	695	647	1,342	2	1,696	8	6	947	765	1,712	12	16
2,485,141*	Vizagapatam.	1,374,915	..	2,371	12	4	1,227	1,160	2,387	4	1,850	18	..	962	910	1,872	..	..
1,791,512*	Godavari ..	1,791,512	9	3,237	42	..	1,704	1,584	3,288	4	2,322	28	..	1,253	1,101	2,354	..	..
1,548,480	Kistna ..	1,548,480	45	3,891	206	..	2,080	2,062	4,142	23	2,307	100	..	1,260	1,170	2,430	..	..
1,220,236	Nellore ..	1,202,951	36	2,341	136	..	1,251	1,262	2,513	27	1,711	112	..	967	883	1,850	16	3
405,848	Madras ..	405,848	102	990	180	..	646	626	1,272	114	1,304	264	..	879	803	1,682	17	14
981,381	Chingleput ..	981,381	15	2,747	35	..	1,412	1,385	2,797	31	2,821	49	..	1,504	1,397	2,901	165	147
1,814,738	South Arcot..	1,816,375	28	3,662	59	1	1,944	1,806	3,750	42	5,554	118	2	2,965	2,751	5,716	997	897
1,215,033	Trichinopoly.	1,215,033	105	2,530	61	..	1,346	1,350	2,696	87	2,728	73	..	1,464	1,424	2,888	166	150
2,130,383	Tanjore ..	2,130,383	128	3,726	178	..	2,124	1,908	4,032	198	6,197	593	..	3,521	3,467	6,988	1,166	1,112
2,168,680	Madura ..	1,294,382	103	3,723	172	..	1,999	1,999	3,998	97	2,944	186	..	1,596	1,631	3,227	144	107
1,699,747	Tinnevelly ..	1,699,747	239	3,369	161	..	1,960	1,809	3,769	572	5,457	435	..	3,267	3,197	6,464	1,255	1,054
709,305	Kurnool ..	678,551	23	1,533	192	..	848	900	1,748	11	1,585	205	..	941	860	1,801	24	25
1,121,038	Cuddapah ..	1,121,038	11	2,083	242	..	1,124	1,212	2,336	5	2,136	181	..	1,222	1,100	2,322	41	29
736,807	Bellary ..	736,807	6	2,266	237	..	1,276	1,233	2,509	8	1,521	180	..	860	849	1,709	6	5
599,889	Anantapur ..	599,889	4	1,340	99	..	702	741	1,443	1	1,181	60	..	651	591	1,242	49	54
1,817,814	North Arcot..	1,822,873	10	4,020	97	..	2,089	2,038	4,127	9	5,255	313	..	2,908	2,669	5,577	957	922
1,599,595	Salem ..	1,592,899	19	4,301	138	..	2,277	2,181	4,458	35	3,723	141	..	2,022	1,877	3,899	340	318
1,657,690	Coimbatore ..	1,657,690	19	4,261	62	..	2,240	2,102	4,342	13	2,768	20	..	1,424	1,377	2,801	27	39
91,034	Nilgiris ..	91,034	19	108	8	..	73	62	135	15	68	6	..	47	42	89	..	..
959,514	South Canara.	955,842	196	1,973	266	18	1,286	1,167	2,453	123	2,191	289	33	1,417	1,219	2,636	142	120
2,365,035	Malabar ..	2,354,234	95	2,555	1,254	..	1,967	1,937	3,904	91	2,336	996	1	1,910	1,514	3,424	7	12
30,868,504	Total ..	27,873,497	1,213	58,367	3,838	23	32,270	31,171	63,441	1,512	59,655	4,375	42	33,987	31,597	65,584	5,531	5,024

* Including the Hill Tracts. † Inclusive of 19 Europeans and 50 Eurasians, but exclusive of 1,084 still births. ‡ Inclusive of 18 Europeans and 64 Eurasians, but exclusive of 1,084 born dead. [*Continued on next page.*]

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

Population according to Census of 1881.	District.	Population from which Returns were received.	DEATHS—*cont.*																		Ratio per 1,000 of Population per Annual.		Average Ratio per 1,000 of Population for previous Five Years ending 1888.	
			Causes of Death—*cont.*																					
			Small-pox.		Fevers.		Bowel-complaints.		Injuries.								All other Causes.		Born dead.		Births.	Deaths.	Births.	Deaths.
									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.	M.	F.				
1,749,604	Ganjam ..	801,633	274	231	522	412	11	22	6	3	10	4	1	..	..	1	100	87	..	3	20·1	25·6	21·0	18·5
2,485,141	Vizagapatam	1,374,915	53	58	802	741	7	13	..	..	9	5	..	..	..	..	91	91	7	8	20·8	16·4	20·4	19·2
1,791,512	Godavari ..	1,791,512	..	..	621	540	34	23	8	4	10	9	5	1	..	..	578	520	10	11	22·0	15·7	18·6	22·4
1,548,480	Kistna ..	1,548,480	7	8	530	501	20	10	5	4	14	14	1	1	..	..	683	632	23	26	32·1	18·8	28·5	25·2
1,220,236	Nellore ..	1,202,951	18	10	462	431	50	35	37	30	26	26	..	..	..	..	358	348	7	11	25·1	18·4	24·3	20·0
405,848	Madras ..	405,848	1	..	192	196	172	167	..	..	9	5	..	..	..	..	488	421	11	8	37·6	49·7	38·2	50·9
981,381	Chingleput ..	981,381	8	7	275	275	274	236	5	4	14	17	6	5	1	..	756	711	46	32	34·2	35·5	37·4	36·9
1,814,738	South Arcot	1,816,375	128	126	670	655	74	60	3	3	9	14	4	5	1	..	1,079	991	42	44	24·8	37·7	20·8	30·7
1,215,033	Trichinopoly	1,215,033	40	38	301	323	36	48	3	5	10	5	11	6	..	..	897	849	27	27	26·6	28·5	24·8	38·4
2,130,383	Tanjore ..	2,130,383	82	72	171	158	145	137	5	1	11	14	11	6	..	..	1,930	1,968	57	58	22·7	39·3	25·5	44·8
2,168,680	Madura ..	1,294,382	98	100	428	462	59	67	4	5	16	17	6	7	..	..	841	866	40	45	37·0	29·9	27·0	31·2
1,699,747	Tinnevelly ..	1,699,747	10	4	290	309	90	107	4	8	17	17	5	3	..	1	1,596	1,694	45	42	26·6	45·6	26·6	50·3
709,305	Kurnool ..	678,551	204	206	548	486	8	7	3	5	8	6	2	1	..	..	143	124	6	9	30·9	31·8	32·4	26·8
1,121,038	Cuddapah ..	1,121,038	100	96	848	752	49	35	3	9	12	14	3	3	..	..	166	162	16	23	25·0	24·8	26·4	24·3
736,807	Bellary ..	736,807	139	156	204	206	37	22	1	3	7	14	1	..	..	1	465	442	5	7	40·8	27·8	36·8	21·8
599,889	Anantapur ..	599,889	45	46	90	77	21	13	..	..	5	6	..	..	..	..	441	395	9	5	28·8	24·8	34·5	22·0
1,817,814	North Arcot	1,822,873	87	86	821	772	126	78	4	3	16	24	4	1	..	..	892	777	47	35	27·1	36·7	25·6	28·9
1,599,595	Salem ..	1,592,899	118	117	707	644	62	44	1	3	16	19	4	5	1	..	773	727	42	33	33·6	29·4	32·0	28·0
1,657,690	Coimbatore ..	1,657,690	26	32	578	544	77	55	5	5	9	9	3	2	1	..	703	691	43	36	31·4	20·3	24·6	24·7
91,034	Nilgiris ..	91,034	..	..	33	27	3	5	5	1	..	..	..	..	..	..	9	10	..	..	17·8	11·7	15·2	14·8
959,514	South Canara	955,842	37	25	359	316	183	144	6	2	19	7	..	..	..	..	671	605	51	44	30·9	33·1	32·3	28·4
2,365,035	Malabar ..	2,354,234	101	95	915	675	193	177	6	3	33	12	13	1	..	..	642	539	29	14	19·9	17·5	21·6	22·2
30,868,504	Total ..	27,873,497	1,576	1,513	10,367	9,502	1,742	1,494	102	112	281	258	79	41	7	3	14,302	13,650	563	521	27·3	28·2	26·1	29·4

Office of Sanitary Commissioner, Madras, 29th April 1889.

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

9TH MAY 1889, No. 418, 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, 29th April 1889, No. 602.

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 January 1889.

2. The general health during the period, as indicated by the recorded results, cannot be said to have been favorable. The total births registered amounted to 63,441, and the total deaths to 65,584. Of these, 4,623 and 6,234 respectively occurred in the municipalities. The total deaths numbered more than the total births. An excess of deaths over births is unusual, and in the instance under notice it was owing to the prevalence of, and heavy mortality from, cholera and small-pox. In no month since January 1885, except in January 1888, was the the mortality from cholera so great as in January 1889, and in regard to small-pox it was greater than in any month since May 1885.

3. In the following table the actual registered results, and the proportion in which they stood to population, are compared with those of the past month (December 1888), the corresponding month of the past year, and the average of five past corresponding periods. In the table subjoined, the events, as they occurred among the different sexes and the several classes of the community, are shown, and below it again the district mortality is compared with those obtained in Bengal, North-west Provinces and Punjab.

—	Districts.				Municipalities.			
	Births.	Deaths.	Birth-rate.	Death-rate.	Births.	Deaths.	Birth-rate.	Death-rate.
Average of 5 previous Januaries	60,659	68,269	26·1	29·4	4,687	6,260	31·5	42·1
January 1888	58,862	72,805	25·8	31·9	4,797	7,829	31·1	50·8
December 1888	69,599	60,950	29·9	26·2	4,960	5,973	31·9	38·5
January 1889	63,441	65,584	27·3	28·2	4,623	6,234	29·8	40·1

	Sexes.			Classes.				Ratio per mille per annum.			
	Males.	Females.	Percentage of males to females.	Christians.	Hindus.	Muhammadans.	Total.	Christians.	Hindus.	Muhammadans.	Total.
Districts—											
Births	32,270	31,171	103·5	1,213	58,390	3,838	63,441	22·5	27·6	25·4	27·3
Deaths	33,987	31,597	107·6	1,512	59,697	4,375	65,584	28·0	28·2	28·9	28·2
Municipalities—											
Births	2,404	2,219	108·3	337	3,604	682	4,623	32·9	29·2	31·3	29·8
Deaths	3,194	3,040	105 0	360	4,934	940	6,234	35·2	40·0	38·6	40·1

	Death rate per mille per annum.
Bengal	Not available.
North-west Provinces	29·9
Punjab	29·8
Madras	28·2

4. In the following tables the birth and death rates in each district and town are given in the order of sequence, and it will be seen that they varied considerably, but they were more divergent among the towns than among the districts. The differences between the maximum and minimum rates among the towns were 46·9 for births and 72·8 for deaths; while in the districts they were 23·0 and 38·0, respectively. Among the districts the highest birth-rate occurred in Bellary (40·8) and the lowest in Nílgiris (17·8), which also returned the lowest death-rate (11·7). The highest death-rate occurred in Madras (town), 49·7, and next to it in Tinnevelly, 45·6. Among the towns the highest birth-rate was recorded in Dindigul (54·1), and the lowest in Tirupati (7·2). The highest death-rate was in Tinnevelly (86·8), and the lowest in Masulipatam (14·0). Nine other towns also on the top of the list returned high death-rates; these are situated in districts in which cholera was mostly prevalent, and the high rates are attributable to that disease:—

Districts.	Birth-rate per mille per annum.	Districts.	Death-rate per mille per annum.
Bellary	40·8	Madras	49·7
Madras	37·6	Tinnevelly	45·6
Madura	37·0	Tanjore	39·3
Chingleput	34·2	South Arcot	37·7
Salem	33·6	North Arcot	36·7
Kistna	32·1	Chingleput	35·5
Coimbatore	31·4	South Canara	33·1
Kurnool	30·9	Kurnool	31·8
South Canara	30·9	Madura	29·9
Anantapur	28·8	Salem	29·4
North Arcot	27·1	Trichinopoly	28·5
Trichinopoly	26·6	Bellary	27·8
Tinnevelly	26·6	Ganjam	25·6
Nellore	25·1	Cuddapah	24·8
Cuddapah	25·0	Anantapur	24·8
South Arcot	24·8	Coimbatore	20·3
Tanjore	22·7	Kistna	18·8
Godávari	22·0	Nellore	18·4
Vizagapatam	20·8	Malabar	17·5
Ganjam	20·1	Vizagapatam	16·4
Malabar	19·9	Godávari	15·7
Nílgiris	17·8	Nílgiris	11·7

Municipalities.	Birth-rate per mille per annum.	Municipalities.	Death-rate per mille per annum.
Dindigul	54·1	Tinnevelly	86·8
Erode	48·6	Kumbakónam	69·2
Ongole	41·7	Wálajápet	68·1
Tuticorin	41·2	Tanjore	66·4
Karúr	40·4	Tuticorin	63·3
Coimbatore	40·3	Máyavaram	62·4
Cochin	38·9	Vellore	60·6
Cocanada	37·8	Chidambaram	60 4
Madras	37·6	Vániyambádi	57·2
Madura	36·0	Palamcottah	55·4
Mangalore	35·8	Kurnool	52·5
Vizianagrum	35·6	Dindigul	52·4
Vániyambádi	35·3	Gudiyátam	52·4
Periyakulam	35·0	Madras	49·7
Bezváda	34·7	Cuddapah	43·6
Guntúr	34·2	Berhampore	42·7
Tirupatúr	33·6	Srírangam	41·2
Bellary	32·7	Salem	39·6
Berhampore	32·5	Mangalore	39·6
Anakápalle	32·3	Vizagapatam	38·8
Cannanore	31·8	Periyakulam	36·4
Anantapur	31·7	Madura	36·0
Rajahmundry	31·2	Bellary	35·8
Palni	30·6	Conjeeveram	35·4
Adóni	30·4	Calicut	34·8
Salem	30·3	Cuddalore	33·8
Bimlipatam	29·3	Coimbatore	33·2
Tanjore	29·1	Negapatam	32·8
Calicut	29·0	Cochin	32·8
Wálajápet	28·8	Karúr	32·5
Kumbakónam	28·5	Tirupatúr	31·9
Ootacamund	28·2	Bezváda	30·8
Vizagapatam	28·1	Vizianagrum	29·7
Pálghat	27·0	Erode	29·1
Conjeeveram	26·3	Anakápalle	28·7
Masulipatam	26·0	Pálghat	27·7
Kurnool	25·9	Coonoor	27·6
Nellore	25·3	Chicacole	27·5
Coonoor	25·1	Cocanada	27·2
Ellore	24·8	Palni	27·0
Srírangam	23·0	Mannárgudi	26·5
Máyavaram	22·9	Ongole	26·0
Parlákimedi	22·6	Nellore	24·4
Cuddapah	22·1	Cannanore	24·1
Tinnevelly	21·1	Adóni	24·0
Tellicherry	20·5	Rajahmundry	23·9
Chicacole	19·6	Trichinopoly	23·3
Palamcottah	19·3	Tirupati	20·8
Mannárgudi	19·1	Ootacamund	20·4
Vellore	17·8	Tellicherry	17·5
Negapatam	17·1	Anantapur	17·1
Cuddalore	15·4	Bimlipatam	16·7
Chidambaram	15·1	Parlákimedi	16·4
Trichinopoly	14·6	Guntúr	15·8
Gudiyátam	10·0	Ellore	14·8
Tirupati	7·2	Masulipatam	14·0

5. *Principal causes of Death.*—In the following table, the mortality from the several specified causes is given compared with past periods. The most noticeable feature in it is the heavy mortality from cholera and small-pox:—

—	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injuries.	Other causes.	Total deaths.
Districts—							
January 1888	18,772	1,740	20,576	3,167	810	27,740	72,805
December ,, ...	6,286	1,901	20,088	3,001	795	28,879	60,950
January 1889	10,555	3,089	19,869	3,236	883	27,952	65,584
Municipalities—							
January 1888	2,760	207	1,222	769	50	2,821	7,829
December ,, ...	842	85	1,110	853	58	3,025	5,973
January 1889	1,082	170	1,171	899	53	2,859	6,234

6. The total deaths from *Cholera* amounted to 10,555. Of these, 1,082 occurred in the towns. The disease was mostly prevalent in the districts of Tinnevelly, 2,309 deaths; Tanjore, 2,278; South Arcot, 1,894; North Arcot, 1,879; and Salem, 658; among them they contributed nearly nine-tenths of the total mortality. Four districts—Vizagapatam, Godávari, Kistna and Nílgiris—enjoyed a perfect immunity.

7. *Small-pox* caused a total of 3,089 deaths—a mortality heavier than in any month for the past three-and-a-half-years. Of the total deaths, 170 occurred in the towns. The disease was prevalent in all the districts except two, Godávari and Nílgiris. The greatest mortality occurred in Ganjam, 505. Among the towns, one-half of them, 29 in number, escaped with no deaths from small-pox. Of those that suffered, Calicut returned the highest number (24).

8. *Fevers* caused 19,869 deaths, and *Bowel-complaints* 3,236, against 20,088 and 3,001, respectively, in the preceding month. In the towns, the fever deaths amounted to 1,171 against 1,110 in the previous month, and those from bowel-complaints to 899 against 853. All the districts suffered from both ailments; Cuddapah returned the greatest fever mortality, 1,600, and Nílgiris the lowest, 60. From bowel-complaints the mortality was greatest in Chingleput, 510, and lowest in Nílgiris, 8. Among the towns also, deaths from fevers were recorded in every one of them, but from bowel-complaints the returns from five were *nil*.

9. The total deaths under *Injuries* amounted to 883 against 795 in the previous month. Of these, 53 occurred in the towns against 58. The mortality from "*All other causes*" not specified came up to 27,952 in the districts and 2,859 in the towns, against 28,879 and 3,025, respectively, in the previous month. Of the deaths from injuries, 214 were self-inflicted, 539 were caused by wounds and accidents, and 130 by snakes and wild beasts.

10. The following tables show the deaths from each of the specified causes in the several districts and towns arranged in the order of occurrence from highest to lowest:—

Districts.	Cholera.	Districts.	Small-pox.	Districts.	Fevers.	Districts.	Bowel-complaints.
Tinnevelly	2,309	Ganjam	505	Cuddapah	1,600	Chingleput ..	510
Tanjore	2,278	Kurnool	410	North Arcot ..	1,583	Malabar	370
South Arcot ..	1,894	Bellary	295	Malabar	1,690	Madras	339
North Arcot ..	1,879	South Arcot ..	254	Vizagapatam ..	1,543	South Canara ..	327
Salem	658	Salem	235	Salem	1,351	Tanjore	282
Trichinopoly ..	316	Madura	198	South Arcot ..	1,325	North Arcot ..	204
Chingleput ..	312	Cuddapah	196	Godávari	1,161	Tinnevelly	197
South Canara ..	262	Malabar	196	Coimbatore ..	1,122	South Arcot ..	134
Madura	251	North Arcot ..	173	Kurnool	1,034	Coimbatore ..	132
Anantapur ..	103	Tanjore	154	Kistna	1,031	Madura	126
Cuddapah	70	Vizagapatam ..	111	Ganjam	934	Salem	106
Coimbatore ..	66	Anantapur ..	91	Nellore	893	Nellore	85
Kurnool	49	Trichinopoly ..	78	Madura	890	Trichinopoly ..	84
Madras	31	South Canara ..	62	South Canara ..	675	Cuddapah	84
Ganjam	28	Coimbatore ..	58	Trichinopoly ..	624	Bellary	59
Nellore	19	Nellore	28	Tinnevelly ..	599	Godávari	57
Malabar	19	Kistna	15	Chingleput ..	550	Anantapur ..	34
Bellary	11	Chingleput ..	15	Bellary	410	Ganjam	33
Vizagapatam ..	..	Tinnevelly ..	14	Madras	388	Kistna	30
Godávari	..	Madras	1	Tanjore	329	Vizagapatam ..	20
Kistna	..	Godávari	..	Anantapur ..	167	Kurnool	15
Nílgiris	..	Nílgiris	..	Nílgiris	60	Nílgiris	8

Municipalities.	Cholera.	Municipalities.	Small-pox.	Municipalities.	Fevers.	Municipalities.	Bowel-complaints.
Vellore	138	Calicut	24	Madras	388	Madras	339
Tanjore	119	Berhampore ..	22	Kurnool	57	Tanjore	57
Kumbakónam ..	105	Vizagapatam ..	19	Kumbakónam ..	42	Madura	49
Tinnevelly ..	95	Cannanore ..	14	Bellary	37	Kumbakónam ..	41
Salem	88	Vizianagrum ..	12	Tanjore	36	Negapatam ..	34
Negapatam ..	72	Trichinopoly ..	11	Trichinopoly ..	35	Tinnevelly ..	33
Chidambaram ..	70	Kurnool ..	10	Berhampore ..	31	Tuticorin ..	26
Palamcottah ..	55	Dindigul ..	7	Madura	26	Trichinopoly ..	25
Madura	54	Parlákimedi ..	6	Vizagapatam ..	25	Mangalore ..	22
Máyavaram ..	51	Adóni	6	Pálghat	25	Calicut	21
Gudiyátam ..	47	Tanjore	5	Vellore	23	Cuddalore ..	19
Madras	31	Mannárgudi ..	5	Salem	21	Conjeeveram ..	18
Vániyambádi ..	31	Gudiyátam ..	4	Coimbatore ..	21	Srírangam ..	17
Cuddalore ..	29	Salem	4	Adóni	20	Coimbatore ..	14
Cuddapah ..	21	Bellary	3	Vániyambádi ..	19	Cocanada	12
Tuticorin ..	20	Chicacole ..	2	Chicacole	18	Salem	11
Mangalore ..	18	Srírangam ..	2	Tuticorin	18	Berhampore ..	10
Nellore	9	Madura	2	Mangalore ..	16	Máyavaram ..	9
Conjeeveram ..	8	Vellore	2	Calicut	16	Mannárgudi ..	9
Dindigul	8	Wálajápet ..	2	Nellore	15	Periyakulam ..	9
Wálajápet ..	6	Coimbatore ..	2	Cuddalore ..	15	Rajahmundry ..	8
Tirupatúr ..	3	Madras	1	Parlákimedi ..	14	Chidambaram ..	8
Srírangam ..	2	Conjeeveram ..	1	Vizianagrum ..	14	Dindigul	8
Mannárgudi ..	1	Kumbakónam ..	1	Cuddapah	14	Vizagapatam ..	7
Adóni	1	Palni	1	Anakápalle ..	13	Vellore	7
Chicacole	..	Cuddapah ..	1	Rajahmundry ..	13	Tirupatúr ..	7
Berhampore ..	..	Erode	1	Conjeeveram ..	13	Ellore	6
Parlákimedi ..	..	Bimlipatam ..	..	Srírangam ..	13	Bellary	6
Vizagapatam ..	..	Anakápalle ..	..	Wálajápet ..	12	Wálajápet ..	6
Bimlipatam ..	..	Cocanada ..	..	Tirupati	12	Kurnool	5
Vizianagrum ..	..	Rajahmundry ..	..	Máyavaram ..	11	Cuddapah ..	5
Anakápalle ..	..	Ellore	..	Ootacamund ..	11	Tellicherry ..	5
Cocanada	..	Masulipatam ..	..	Tirupati	10	Vizianagrum ..	4
Rajahmundry ..	..	Guntúr	..	Tellicherry ..	10	Bezváda	4
Ellore	..	Bezváda	..	Ellore	9	Tirupati	4
Masulipatam ..	..	Nellore	..	Guntúr	9	Erode	4
Guntúr	..	Ongole	..	Chidambaram ..	9	Ongole	3
Bezváda	..	Cuddalore ..	..	Gudiyátam ..	9	Karúr	3
Ongole	..	Chidambaram ..	..	Cochin	8	Ootacamund ..	3
Trichinopoly ..	..	Máyavaram ..	..	Periyakulam ..	7	Coonoor	3
Periyakulam ..	..	Negapatam ..	..	Cannanore ..	7	Pálghat	3
Palni	..	Periyakulam ..	..	Bezváda	6	Cochin	3
Kurnool	..	Tinnevelly ..	..	Dindigul	5	Chicacole ..	2
Bellary	..	Palamcottah ..	..	Mannárgudi ..	4	Bimlipatam ..	2
Anantapur ..	..	Tuticorin ..	..	Palni	4	Vániyambádi ..	2
Tirupati	..	Anantapur ..	..	Erode	4	Anakápalle ..	1
Coimbatore ..	..	Tirupati ..	..	Cocanada ..	3	Guntúr	1
Erode	..	Vániyambádi ..	..	Masulipatam ..	3	Palni	1
Karúr	..	Tirupatúr ..	..	Ongole	3	Anantapur ..	1
Ootacamund ..	..	Karúr	..	Negapatam ..	3	Gudiyátam ..	1
Coonoor	..	Ootacamund ..	..	Tinnevelly ..	3	Cannanore ..	1
Tellicherry ..	..	Coonoor	..	Karúr	3	Parlákimedi ..	..
Calicut	..	Mangalore ..	..	Coonoor	3	Masulipatam ..	..
Pálghat	..	Tellicherry ..	..	Bimlipatam ..	2	Nellore	..
Cochin	..	Pálghat	..	Palamcottah ..	2	Palamcottah ..	..
Cannanore ..	..	Cochin	..	Anantapur ..	1	Adóni	..

11. *Towns of* 25,000 *inhabitants and upwards.*—The registered events in these towns (Ootacamund included) in a population of 906,380 amounted in January to 2,058 births and 2,758 deaths, yielding ratios of 27·2 and 36·5 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 ..	37·6	25·4
First-class towns of Bengal	Not available.	
Do. do. of Madras	27·2	36·5

12. 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	..	11	35	25	5	88	164	103
Madura	76,847	54	2	26	49	4	96	231	231
Salem	59,631	88	4	21	11	2	71	197	151
Calicut	57,085	..	24	16	21	3	102	166	138
Tanjore	54,745	119	5	36	57	..	86	303	133
Negapatam	53,776	72	..	3	34	..	38	147	77
Bellary	53,460	..	3	37	6	..	114	160	146
Kumbakónam	50,098	105	1	42	41	4	96	289	119
Cuddalore	43,545	29	..	15	19	..	54	117	56
Vellore	40,958	138	2	23	7	..	37	207	61
Coimbatore	38,967	..	2	21	14	1	70	108	131
Conjeeveram	37,275	8	1	13	18	1	69	110	82
Pálghat	36,339	..	..	25	3	3	53	84	82
Másulipatam	35,056	..	..	3	..	1	37	41	76
Mangalore	32,099	18	..	16	22	1	49	106	96
Cocanada	30,441	..	..	3	12	..	54	69	96
Vizagapatam	30,291	..	19	25	7	..	47	98	71
Nellore	27,505	9	..	15	..	1	31	56	58
Cannanore	26,386	..	14	7	1	..	31	53	70
Ellore	26,092	..	..	9	6	1	15	31	52
Ootacamund	12,335	..	..	11	3	..	7	21	29
Total ..	9,06,380	640	88	402	356	27	1,245	2,758	2,058

ORDER—dated 9th May 1889, No. 418, 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.

Exd. A. Raitt.

Gobt. of {1889} Madras.

PUBLIC.

Issued

Recd. *Encl.*

G.O., 9th May 1889, No. 418.

MAY.

Vital Statistics.

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

Public {188 } Dept.

PROCEEDINGS OF THE MADRAS GOVT.

Dated 188 , No.

I 9/5

90

PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

letter from the Sanitary Commissioner, dated 29th April 89 No. 602

ORDER THEREON, 9 May 89 No 418

Recorded.

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

H. E.

To the Revenue Department.
" Board of Revenue. 27
" Surgeon-General with the Government of Madras.
" Sanitary Commissioner. 23

PUBLIC DEPARTMENT.

(Sanitary).

Desp 21/5/89.

No. 419 of 1889.

desp 25/5/89 with the Sen. Stats 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. 418 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 January 1889.

2. The statistics are annexed.

Chief Secretary.

Pub Cons No. 1387

15

Public Department

From

Surgeon Major J. A. Laing
Sanitary Commissioner
for Madras

To

The Chief Secretary
to Government
Public Department

CHIEF SECRETARY 2 MAY GOVERNMENT OF MADRAS

Dated 29th
Desp'd 1st May } April 1889
Recd 2nd May

No 602

Encls 2/

Subject

Forwards vital statistical Report on the districts and municipalities of the Madras Presidency for January 1889.

	Population	Cholera	Small-pox	Fevers	Bowels. com. plaints	Injuries	All other causes	Total deaths	Total births
Trichinopaly	84449	-	11	35	25	5	88	164	103
Madura	76847	54	2	26	49	4	96	231	231
Salem	57631	88	4	21	11	2	71	197	151
Calicut	57085	-	24	16	21	3	102	166	138
Tanjore	54745	119	5	36	57	-	86	303	133
Negapatam	53776	72	-	3	34	-	38	147	77
Bellary	53460	-	3	37	6	-	114	160	146
Kumbakonum	50098	105	1	42	41	4	96	289	119
Cuddalore	43545	29	-	15	19	-	54	117	56
Vellore	40958	138	2	23	7	-	37	207	61
Coimbatore	38967	-	2	21	14	1	70	108	131
Conjeeveram	37275	8	1	13	18	1	69	110	82
Palghat	36339	-	-	25	3	3	53	84	82
Masulipatam	35056	-	-	3	-	1	37	41	76
Mangalore	32099	18	-	16	22	1	49	106	96
Cocanada	30441	-	-	3	12	-	54	69	96
Vizagapatam	30291	-	19	25	7	-	47	98	71
Nellore	27505	9	-	15	-	1	31	56	58
Cannanore	26386	-	14	7	1	-	31	53	70
Ellore	25092	-	-	9	6	1	15	31	52
Colacamunds	12335	-	-	11	3	-	7	21	29
Total	906380	640	88	402	356	27	1245	2758	2058

	Sexes			Classes				Ratio per mille per annum			
	Males	Females	Percentage of males to females	Christians	Hindus	Mahomedans	Total	Christians	Hindus	Mahomedans	Total
Districts											
Births	32270	31171	103·5	1213	58390	3838	63441	22·5	27·6	25·4	27·3
Deaths	33987	31577	107·6	1512	59697	4375	65584	28·0	28·2	28·9	28·2
Municipalities											
Births	2404	2219	108·3	337	3604	682	4623	32·9	29·2	31·3	29·8
Deaths	3194	3040	105·0	360	4934	940	6234	35·2	40·0	38·6	40·1

	Death rate per mille per annum
Bengal	not available
North-west Provinces	29·9
Punjab	29·8
Madras	28·2

I have the honor to be

Sir

your most obedt servant

Jas. Anderson Paine

Surgeon Major

Sanitary Commissioner for

Madras

4. In the following tables the birth and death rates in each district and town are given in the order of sequence and it will be seen that they varied considerably; but they were more divergent among

C.S. 1357 16

Office of Sanitary Commr.

No 602 Madras 29th April 1889

From

Surgeon Major J. A. Laing
Sanitary Commissioner for
Madras

To

The Chief Secretary
to Government
Public Department

Sir,

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

2. The general health during the period as indicated by the recorded

5. Principal causes of death:-

In the following table the mortality from the several specified causes is given compared with past periods. The most noticeable feature in it is the heavy mortality from cholera and small-pox.

	Cholera	Small-pox	Fevers	Bowel-complaints	Injuries	All other causes	Total deaths
Districts							
January 1888	18772	1740	20576	3167	810	27740	72805
December "	6286	1901	20088	3001	795	28879	60950
January 1889	10555	3089	19869	3236	883	27952	65584
Municipalities							
January 1888	2760	207	1222	769	50	2821	7829
December "	842	85	1114	853	58	3025	5973
January 1889	1082	170	1171	899	58	2859	6234

6. The total deaths from cholera amounted to 10555. Of these 1082 occurred in the towns. The disease was mostly prevalent in the districts of Tinnevelly, 2309 deaths,

Tanjore

	Sexes			Classes				Ratios per mille per annum			
	Males	Females	Percentage of males to females	Christians	Hindus	Mahomedans	Totals	Christians	Hindus	Mahomedans	Totals
Districts											
Births	32270	31171	103·5	1213	58390	3838	63441	22·5	27·6	25·4	27·3
Deaths	33987	31597	107·6	1512	57697	4375	65584	28·0	28·2	28·9	28·2
Municipalities											
Births	2404	2219	108·3	337	3604	682	4623	32·9	29·2	31·3	29·8
Deaths	3194	3040	105·0	360	4934	940	6234	35·2	40·0	38·6	40·1

	Death rate per mille per annum
Bengal	not available
North-west Provinces	29·9
Punjab	29·8
Madras	28·2

4. In the following tables the birth and death rates in each — district and town are given in the order of sequence and it will be seen that they varied considerably, but they were more divergent — among

among the towns than among the districts. The differences between the maximum and minimum rates among the towns were 46·9 for births and 72·8 for deaths; while in the districts they were 23·0 and 38·0 respectively. Among the districts the highest birth rate occurred in Bellary 40·8 and the lowest in Nilgiris 17·8 which also returned the lowest death rate 11·7. The — highest death rate occurred in Madras (town) 49·7 and next to it in Tinnevelly 45·6. Among the towns the highest birth rate was recorded in Dindigul 54·1 and the lowest in Tirupati 7·2. The — highest death rate was in — Tinnevelly 86·8 and the lowest in Masulipatam 14·0. Nine other towns also on the top of the list returned ~~the~~ high death rates; these are situated

situated in districts in which cholera was mostly prevalent and the high rates are attributable to that disease.

Districts	Birth rate per mille per annum	Districts	Death rate per mille per annum
Bellary	40·8	Madras	49·7
Madras	37·6	Tinnevelly	45·6
Madura	37·0	Tanjore	39·3
Chingleput	34·2	South Arcot	37·7
Salem	33·6	North Arcot	36·7
Kistna	32·1	Chingleput	35·5
Coimbatore	31·4	South Canara	33·1
Kurnool	30·9	Kurnool	31·8
South Canara	30·9	Madura	29·9
Anantapur	28·8	Salem	29·4
North Arcot	27·1	Trichinopoly	28·5
Trichinopoly	26·6	Bellary	27·8
Tinnevelly	26·6	Ganjam	25·6
Nellore	25·1	Cuddapah	24·8
Cuddapah	25·0	Anantapur	24·8
South Arcot	24·8	Coimbatore	20·3
Tanjore	22·7	Kistna	18·8
Godavari	22·0	Nellore	18·4
Vizagapatam	20·8	Malabar	17·5
Ganjam	20·1	Vizagapatam	16·4
Malabar	19·9	Godavari	15·7
Nilgiris	17·8	Nilgiris	11·7

Municipalities	Birth rate per mille per annum	Municipalities	Death rate per mille per annum
Dindigul	54·1	Tinnevelly	86·8
Erode	48·6	Kumbakonam	69·2
Ongole	41·7	Walajapet	68·1
Tuticorin	41·2	Tanjore	66·4
Karur	40·4	Tuticorin	63·3
Coimbatore	40·3	Mayavaram	62·4
Cochin	38·9	Vellore	60·6
Cocanada	37·8	Chellumberam	60·4
Madras	37·6	Vaniyambadi	57·2
Madura	36·0	Palamcottah	55·4
Mangalore	35·8	Kurnool	52·5
Vizianagrum	35·6	Dindigul	52·4
Vaniyambadi	35·3	Gudiyatam	52·4
Periyakulam	35·0	Madras	49·7
Bezwada	34·7	Cuddapah	43·6
Guntur	34·2	Berhampore	42·7
Tirupatur	33·6	Srirangam	41·2
Bellary	32·7	Salem	39·6
Berhampore	32·5	Mangalore	39·6
Amalapalle	32·3	Vizagapatam	38·8
Cannanore	31·8	Periyakulam	36·4
Anantapur	31·7	Madura	36·0
Rajahmundry	31·2	Bellary	35·8
Palni	30·6	Cuyeneram	35·4
Adoni	30·4	Calicut	34·8
Salem	30·3	Cuddalore	33·8
Bunlipatam	29·3	Coimbatore	33·2
Tanjore	29·1	Negapatam	32·8
Calicut	29·0	Cochin	32·8
Walajapet	28·8	Karur	32·5
Kumbakonam	28·5	Tirupatur	31·9
Palacamund	28·2	Bezwada	30·8
Vizagapatam	28·1	Vizianagrum	29·7
Palghat	27·0	Erode	29·1
Cayeneram	26·3	Amalapalle	28·7
Masulipatam	26·0	Palghat	27·7
Kurnool	25·9	Coonoor	27·6
Nellore	25·3	Chicacole	27·5
Coonoor	25·1	Cocanada	27·2
Ellore	24·8	Palni	27·0
Sriarangam	23·0	Mannargudi	26·5
Mayavaram	22·9	Ongole	26·0
Parlakemedi	22·6	Nellore	24·4
Cuddapah	22·1	Cannanore	24·1
Tinnevelly	21·1	Adoni	24·0
Tellicherry	20·5	Rajahmundry	23·9
Chicacole	19·6	Trichinopoly	23·3
Palamcottah	19·3	Tirupati	20·8
Mannargudi	19·1	Palacamund	20·4
Vellore	17·8	Tellicherry	17·5
Negapatam	17·1	Anantapur	17·1
Cuddalore	15·4	Bunlipatam	16·7
Chellumberam	15·1	Parlakemedi	16·4
Trichinopoly	14·6	Guntur	15·8
Gudiyatam	10·0	Ellore	14·8
Tirupati	7·2	Masulipatam	14·0

5. Principal causes of death:-
In the following table the mortality from the several specified causes is given compared with past periods. The most noticeable feature in it is the heavy mortality from cholera and small-pox.

	Cholera	Small-pox	Fevers	Bowel-complaints	Injuries	All other causes	Total deaths
Districts							
January 1888	18772	1740	20576	3167	810	27740	72805
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Municipalities							
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December "	842	85	1110	853	58	3025	5973
January 1889	1082	170	1171	899	53	2859	6234

6. The total deaths from cholera amounted to 10555. Of these 1082 occurred in the towns. The disease was mostly prevalent in the districts of Tinnevelly, 2309 deaths, Tanjore 2278, South Arcot 1894, North Arcot 1879 and Salem 658; among them they contributed nearly nine-tenths of the total mortality. Four districts, Vizagapatam, Godavari, Kistna and Nilgiris enjoyed a perfect immunity.

7. Small-pox caused a total of 3089 deaths, a mortality heavier than in any month for the past three and half years. Of the total deaths 170 occurred in the towns. The disease was prevalent in all the districts, except two, Godavari and Nilgiris. The greatest mortality occurred in Ganjam 505. Among the towns, one-half of them, 29 in number, escaped with no deaths from small-pox. Of those that suffered, Calicut returned the highest number (24).

8. Fevers caused 19869 deaths — and

and bowel-complaints 3236 against 20088 and 3001 respectively in the preceding month. In the towns the fever deaths amounted to 1171 against 1110 in the previous month and those from bowel-complaints to 899 against 853. All the districts suffered from both ailments, — Cuddapah returned the greatest fever mortality 1600 and Nilgiris the lowest 60. From bowel-complaints the mortality was greatest in — Chingleput 510 and lowest in Nilgiris 8. Among the towns also deaths from fevers were recorded in every one of them, but from bowel-complaints the returns from five were nil

9. The total deaths under injuries amounted to 883 against 795 in the previous month. Of these 53 occurred in the towns against

against 58. The mortality from "all other causes" not specified came up to 27952 in the — districts and 2859 in the towns against 28879 and 3025 respectively in the previous month. Of the deaths from injuries 214 were self-inflicted, 539 were caused by wounds and accidents and 130 by snakes and wild beasts.

10. The following tables — show the deaths from each of the specified causes in the — several districts and towns — arranged in the order of occurrence from highest to lowest.

Districts	Cholera	Districts	Small-pox	Districts	Fevers	Districts	Bowel-complaints
Tinnevelly	2309	Ganjam	505	Cuddapah	1600	Chingleput	510
Tanjore	2278	Kurnool	410	North Arcot	1593	Malabar	370
South Arcot	1894	Bellary	295	Malabar	1590	Madras	339
North Arcot	1879	South Arcot	254	Vizagapatam	1543	South Canara	327
Salem	658	Salem	235	Salem	1351	Tanjore	282
Trichinopoly	316	Madura	198	South Arcot	1325	North Arcot	204
Chingleput	312	Cuddapah	196	Godavari	1161	Tinnevelly	197
South Canara	262	Malabar	196	Coimbatore	1122	South Arcot	134
Madura	251	North Arcot	173	Kurnool	1034	Coimbatore	132
Anantapur	103	Tanjore	154	Kistna	1031	Madura	126
Cuddapah	70	Vizagapatam	111	Ganjam	934	Salem	106
Coimbatore	66	Anantapur	91	Nellore	893	Nellore	85
Kurnool	49	Trichinopoly	78	Madura	890	Trichinopoly	84
Madras	31	South Canara	62	South Canara	675	Cuddapah	84
Ganjam	28	Coimbatore	58	Trichinopoly	624	Bellary	59
Nellore	19	Nellore	28	Tinnevelly	599	Godavari	57
Malabar	19	Kistna	15	Chingleput	550	Anantapur	34
Bellary	11	Chingleput	15	Bellary	410	Ganjam	33
Vizagapatam	-	Tinnevelly	14	Madras	388	Kistna	30
Godavari	-	Madras	1	Tanjore	329	Vizagapatam	20
Kistna	-	Godavari	-	Anantapur	167	Kurnool	15
Nilgiris	-	Nilgiris	-	Nilgiris	60	Nilgiris	8

11. Towns of 25000 inhabitants and upwards. The registered events in these towns (Cocanada included) in a population of 906380 amounted in January to 2058 births and 2758 deaths, yielding ratios of 27·2 and 36·5 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	37·6	25·4
First class towns of Bengal	Not available	
——"—— of Madras	27·2	36·5

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

Districts	Cholera	Districts	Small-pox	Districts	Fevers	Districts	Bowel-complaints
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Salem	658	Salem	235	Salem	1351	Tanjore	282
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Chingleput	312	Cuddapah	196	Godavari	1161	Tinnevelly	197
South Canara	262	Malabar	196	Coimbatore	1122	South Arcot	134
Madura	251	North Arcot	173	Kurnool	1034	Coimbatore	132
Anantapur	103	Tanjore	154	Kistna	1031	Madura	126
Cuddapah	70	Vizagapatam	111	Ganjam	934	Salem	106
Coimbatore	66	Anantapur	91	Nellore	893	Nellore	85
Kurnool	49	Trichinopoly	78	Madura	890	Trichinopoly	84
Madras	31	South Canara	62	South Canara	675	Cuddapah	84
Ganjam	28	Coimbatore	58	Trichinopoly	624	Bellary	59
Nellore	19	Nellore	28	Tinnevelly	599	Godavari	57
Malabar	19	Kistna	15	Chingleput	550	Anantapur	34
Bellary	11	Chingleput	15	Bellary	410	Ganjam	33
Vizagapatam	-	Tinnevelly	14	Madras	388	Kistna	30
Godavari	-	Madras	1	Tanjore	329	Vizagapatam	20
Kistna	-	Godavari	-	Anantapur	167	Kurnool	15
Nilgiris	-	Nilgiris	-	Nilgiris	60	Nilgiris	8

11. Towns of 25000 inhabitants and upwards. The registered events in these towns (Coliacamund included) in a population of 906380 amounted in January to 2058 births and 2758 deaths, yielding ratios of 27·2 and 36·5 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	37·6	25·4
First class towns of Bengal	Not available	
——— of Madras	27·2	36·5

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

Municipalities	Cholera	Municipalities	Small-pox	Municipalities	Fevers	Municipalities	Bowel-complaints
Vellore	138	Calicut	24	Madras	388	Madras	339
Tanjore	119	Berhampore	22	Kurnool	57	Tanjore	57
Kumbakonum	105	Vizagapatam	19	Kumbakonum	42	Madura	49
Tinnivelly	95	Cannanore	14	Bellary	37	Kumbakonum	41
Salem	88	Vizianagrum	12	Tanjore	36	Negapatam	34
Negapatam	72	Trichinopoly	11	Trichinopoly	35	Tinnivelly	33
Chellumberem	70	Kurnool	10	Berhampore	31	Tuticorin	26
Palamcottah	55	Dindigul	7	Madura	26	Trichinopoly	25
Madura	54	Parlakimedi	6	Vizagapatam	25	Mangalore	22
Mayavaram	51	Adoni	6	Palghat	25	Calicut	21
Gudiyatam	47	Tanjore	5	Vellore	23	Cuddalore	19
Madras	31	Mannargudi	5	Salem	21	Cayeeveram	18
Vaniyambadi	31	Gudiyatam	4	Coimbatore	21	Srirangam	17
Cuddalore	29	Salem	4	Adoni	20	Coimbatore	14
Cuddapah	21	Bellary	3	Vaniyambadi	19	Cocanada	12
Tuticorin	20	Chicacole	2	Chicacole	18	Salem	11
Mangalore	18	Srirangam	2	Tuticorin	18	Berhampore	10
Nellore	9	Madura	2	Mangalore	16	Mayavaram	9
Cayeeveram	8	Vellore	2	Calicut	16	Mannargudi	9
Dindigul	8	Walajapet	2	Nellore	15	Periyakulam	9
Walajapet	6	Coimbatore	2	Cuddalore	15	Rajahmundry	8
Tirupatur	3	Madras	1	Parlakimedi	14	Chellumberem	8
Srirangam	2	Cayeeveram	1	Vizianagrum	14	Dindigul	8
Mannargudi	1	Kumbakonum	1	Cuddapah	14	Vizagapatam	7
Adoni	1	Palni	1	Anakapalle	13	Vellore	7
Chicacole	-	Cuddapah	1	Rajahmundry	13	Tirupatur	7
Berhampore	-	Erode	1	Cayeeveram	13	Ellore	6
Parlakimedi	-	Bimlipatam	-	Srirangam	13	Bellary	6
Vizagapatam	-	Anakapalle	-	Walajapet	12	Walajapet	6
Bimlipatam	-	Cocanada	-	Tirupati	12	Kurnool	5
Vizianagrum	-	Rajahmundry	-	Mayavaram	11	Cuddapah	5
Anakapalle	-	Ellore	-	Cotacamund	11	Tellicherry	5
Cocanada	-	Masulipatam	-	Tirupatur	10	Vizianagrum	4
Rajahmundry	-	Guntur	-	Tellicherry	10	Benzwada	4
Ellore	-	Benzwada	-	Ellore	9	Tirupati	4
Masulipatam	-	Nellore	-	Guntur	9	Erode	4
Guntur	-	Ongole	-	Chellumberem	9	Ongole	3
Benzwada	-	Cuddalore	-	Gudiyatam	7	Karur	3
Ongole	-	Chellumberem	-	Cochin	8	Cotacamund	3
Trichinopoly	-	Mayavaram	-	Periyakulam	7	Coonoor	3
Periyakulam	-	Negapatam	-	Cannanore	7	Palghat	3
Palni	-	Periyakulam	-	Benzwada	6	Cochin	3
Kurnool	-	Tinnivelly	-	Dindigul	5	Chicacole	2
Bellary	-	Palamcottah	-	Mannargudi	4	Bimlipatam	2
Anantapur	-	Tuticorin	-	Palni	4	Vaniyambadi	2
Tirupati	-	Anantapur	-	Erode	4	Anakapalle	1
Coimbatore	-	Tirupati	-	Cocanada	3	Guntur	1
Erode	-	Vaniyambadi	-	Masulipatam	3	Palni	1
Karur	-	Tirupatur	-	Ongole	3	Anantapur	1
Cotacamund	-	Karur	-	Negapatam	3	Gudiyatam	1
Coonoor	-	Cotacamund	-	Tinnivelly	3	Cannanore	1
Tellicherry	-	Coonoor	-	Karur	3	Parlakimedi	-
Calicut	-	Mangalore	-	Coonoor	3	Masulipatam	-
Palghat	-	Tellicherry	-	Bimlipatam	2	Nellore	-
Cochin	-	Palghat	-	Palamcottah	2	Palamcottah	-
Cannanore	-	Cochin	-	Anantapur	1	Adoni	-