

- (1) பக்கங்களின் எண்ணிக்கை 18-36
(2) புதுக்கித் திருப்பிய நாள் _____
(3) ஆதாரங் குறிப்பவர் சுருக்கொப்பம் _____

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

யோசு துறை

அரசாணை எண். <u>890-91</u>	அச்சகம்
மு. கோப்புத் தாள் எண்.	பலவகை
நாள் : <u>6-11-1889</u>	1989

மடிக்கலோ துண்டபடி கையாளலோ கூடாது.

ORDINARY PRINTED.

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[Despatch Abstract.]

Vital Statistics.

Recording the Sanitary Commission
and remarks on the returns of
in the several districts in
the Madras Presidency for the
month of July 1889, and ordering
their publication in the Fort St.
George Gazette. Copy to the Secretary
of State.

Govt. of {1889} Madras.
PUBLIC.

Issued

Recd.

Encl.

Letter, 6th November 1889, No. 891.

NOVEMBER.

Vital Statistics.

Forwarding copy of Proceedings on the returns of — in the several districts in the Madras Presidency for the month of July 1889.

Handwritten notes in Tamil script, likely a summary or commentary on the official letter.

Number of copies required: Order complete 100, Letter only 20, Order complete with Letter 20.

Notes: A = Print in full, B = Not to be printed, C = Print abstract only, D = Print heading only, E = Print, but not for monthly volume.

890: 3000, 891: 1700

6TH NOVEMBER 1889, No. 891, PUBLIC.

PUBLIC DEPARTMENT.

LETTER—to

THE UNDER SECRETARY OF STATE FOR INDIA.

SIR,

I am directed to forward, for the information of the Right Honorable the Secretary of State for India, copy of the Proceedings of this Government, No. 890, 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 July 1889.

2. The statistics are annexed.

I have the honor to be,

Sir,

Your most obedient servant,

FORT ST. GEORGE,
6th November 1889,

Chief Secretary.

Exd. A. Raiff.

3 MADRAS PRESIDENCY during the month of July 1889.

DEATHS.																		Still birth or Born dead.		RATIO PER MILLE PER ANNUM.		AVERAGE RATIO OF PREVIOUS FIVE YEARS ENDING 1888.	
CAUSES OF DEATH.																							
Small-pox.		Fever.		Bowel-complaints.		Injuries.								All other Causes.									
						Suicides.		Wounds or Accidents.		Snake-bite.		Killed by Wild Beasts.											
F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total Births.	Total Deaths.	Births.	Deaths.	
16	3	3	2	4	11	..	..	..	..	..	..	..	..	..	15	17	1	1	27.5	59.0	25.3	26.1	
5	1	1	5	4	6	6	..	..	..	..	..	..	..	..	21	12	..	..	28.9	35.0	35.5	36.3	
8	..	1	7	2	..	..	..	1	..	..	..	..	..	..	2	2	..	..	21.0	30.4	18.7	28.8	
45	2	5	7	8	19	14	..	..	..	..	..	..	..	..	19	22	..	..	19.4	75.6	30.2	28.9	
8	..	..	3	7	2	3	..	..	..	..	..	..	..	..	9	5	1	..	51.7	68.5	29.6	31.8	
86	1	2	2	3	1	2	..	..	..	..	..	..	..	..	11	11	..	..	24.9	110.5	33.5	28.2	
22	1	1	1	3	..	..	..	..	..	..	..	..	..	..	12	5	..	..	51.2	61.1	40.7	20.4	
18	..	..	11	8	31	21	..	..	..	..	..	..	..	..	25	28	2	..	16.1	59.5	32.0	28.3	
29	..	..	8	15	7	3	..	1	..	1	..	..	..	..	11	12	..	..	25.4	64.7	27.9	28.6	
6	..	..	3	3	10	3	..	..	1	..	..	..	..	..	20	20	..	..	20.5	33.9	26.2	24.9	
2	..	..	3	6	..	..	..	..	1	1	..	..	..	..	23	23	..	..	27.0	19.5	26.3	15.0	
39	..	..	4	10	2	1	..	..	1	2	..	..	..	..	13	10	2	..	24.4	77.5	31.6	22.3	
12	2	1	8	6	1	4	..	..	1	1	..	..	..	..	7	10	1	..	64.2	71.9	..	..	
..	..	..	10	5	..	..	..	2	1	..	..	..	..	..	14	23	..	5	36.6	23.9	29.5	23.6	
..	..	..	5	1	3	1	..	..	2	..	..	1	..	..	6	7	1	1	52.1	27.3	44.0	30.2	
1	1	1	188	175	119	152	..	..	3	3	1*	..	..	..	393	366	20	19	41.8	40.9	43.7	35.7	
14	3	3	11	18	9	6	..	..	1	..	..	..	..	..	23	36	2	3	47.3	49.8	51.1	44.1	
2	1	1	8	9	11	9	..	..	..	..	..	..	..	..	30	19	..	..	24.5	25.6	26.9	14.7	
..	1	4	7	5	3	7	..	..	..	..	..	..	..	..	6	4	..	..	22.3	22.3	22.8	33.3	
..	7	10	16	18	2	2	..	..	..	..	..	2	..	..	29	39	..	..	20.4	17.7	20.4	20.2	
..	..	..	5	5	2	4	..	..	..	..	..	..	..	..	24	21	..	..	37.0	34.3	24.8	..	
..	1	2	6	15	14	7	..	2	1	..	..	..	..	..	37	34	1	..	33.3	25.6	24.8	22.5	
..	8	5	15	11	14	16	..	..	1	..	..	..	..	..	29	31	8	2	28.2	31.6	28.6	30.5	
..	..	..	4	5	6	4	..	..	..	..	..	..	..	..	16	11	3	..	29.6	23.9	27.7	26.7	
31	1	..	8	5	19	7	..	..	..	..	..	..	..	..	19	20	2	1	16.0	29.9	23.2	30.7	
4	2	3	3	1	5	6	..	..	..	..	..	1	..	..	8	6	..	..	32.7	36.8	31.1	..	
..	2	3	18	16	12	21	..	1	1	..	1	..	..	..	66	64	9	10	35.4	32.0	38.3	31.7	
3	..	..	2	2	2	2	..	..	1	..	..	..	..	..	8	9	1	1	43.4	25.9	43.7	24.8	
..	..	..	4	1	..	2	..	1	1	..	..	..	..	..	6	11	1	..	60.0	21.9	52.0	27.0	
..	..	..	6	1	..	1	..	..	..	..	..	..	..	..	10	11	..	..	33.8	26.1	27.0	22.5	
..	1	6	1	5	5	..	..	..	1	..	..	..	..	..	26	21	..	..	36.7	34.1	30.6	31.6	
..	..	..	..	..	6	..	..	2	1	..	..	..	..	..	18	13	..	..	30.6	22.7	33.6	24.2	
..	..	..	5	3	9	6	..	..	..	..	..	..	..	..	10	6	..	..	35.3	29.4	40.0	33.7	
..	..	..	16	10	4	1	..	..	1	..	..	..	..	..	3	8	..	..	28.5	25.3	36.8	42.6	
..	1	6	3	2	2	1	..	1	1	1	..	..	..	..	7	11	2	..	34.1	21.4	23.6	24.3	
..	5	7	25	24	4	1	..	1	1	1	..	..	..	..	59	55	..	..	45.7	41.0	30.7	27.4	
..	..	..	3	3	..	..	..	..	..	..	..	..	..	..	22	38	1	..	54.5	35.8	34.9	28.8	
..	..	..	4	13	11	4	7	..	..	1	1	..	..	..	5	5	..	..	53.8	24.4	52.8	38.1	
..	..	..	3	5	..	2	..	..	..	..	..	..	..	..	15	14	3	..	32.5	20.5	37.5	26.3	
..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	13	8	..	..	50.3	22.2	30.9	16.5	
..	..	..	4	4	..	..	..	1	1	..	..	..	..	..	12	6	..	..	40.4	23.1	27.1	20.8	
..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	7	3	..	..	9.0	18.1	12.6	18.1	
..	..	..	14	17	4	12	..	..	..	..	..	..	..	..	42	24	3	..	55.1	22.9	48.6	19.1	
13	3	3	2	5	3	..	..	..	1	1	..	..	..	..	13	11	..	..	42.9	49.7	13.5	8.2	
..	1	1	3	5	8	3	..	..	1	..	..	..	..	..	7	4	..	..	40.3	21.8	23.5	16.8	
6	4	1	12	11	3	..	..	..	1	1	..	..	..	..	23	30	..	..	43.4	35.4	42.4	27.3	
..	..	..	1	1	1	1	..	..	..	..	..	..	..	..	6	7	..	..	36.4	30.4	37.9	18.9	
..	..	..	5	1	6	3	1	..	..	..	..	..	..	..	6	7	..	..	41.6	18.2	46.1	18.4	
..	..	..	1	5	1	..	..	..	..	..	..	..	..	..	7	4	..	..	27.2	26.2	33.6	31.6	
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	..	..	55.2	32.6	16.5	22.6	
..	1	..	7	6	12	14	..	..	1	1	..	..	..	..	29	28	1	..	42.2	37.0	42.4	33.8	
..	..	..	4	3	3	..	..	..	2	..	..	..	..	..	9	12	1	..	26.8	16.5	40.3	45.1	
..	1	1	14	9	21	20	..	..	..	..	..	..	..	..	56	40	1	..	44.5	34.6	49.6	45.3	
..	..	..	4	12	4	4	..	..	..	..	..	..	..	..	38	51	..	..	48.2	37.3	41.6	38.0	
..	..	..	5	4	3	1	..	..	..	..	..	..	..	..	11	8	1	..	44.3	24.4	44.6	35.2	
..	..	..	8	2	3	3	1	..	..	..	..	..	..	..	17	11	1	..	23.1	20.4	47.0	54.2	
376	49	64	518	522	412	397	4	3	23	19	3	5	..	..	1,378	1,314	67	68	59	35.4	35.7	30.3	

^b Inclusive of 17 Europeans and 61 Eurasians, but exclusive of 129n dead.

GEO. DIQUE, *Major and Assistant,*
for *Sary Commissioner for Madras.*

RETURN showing the BIRTHS and DEATHS registered in the MUNICIPALITIES of

Districts.	Municipal Towns.	Population, Census of 1881.	BIRTHS.										DEATHS.									
			CLASS.				TOTAL BIRTHS.			CLASS.				TOTAL DEATHS.			M.					
			Christians.	Hindus.	Muhammadans.	Other Classes.	M.	F.	Total.	Christians.	Hindus.	Muhammadans.	Other Classes.	M.	F.	Total.						
Ganjam.	Chicacole	18,302	..	40	2	..	27	15	42	..	83	7	..	50	40	90	19					
	Berhampore	23,599	..	54	2	..	23	34	57	1	64	4	..	41	28	69	9					
	Parlakimedi	15,365	..	27	..	..	15	12	27	..	39	..	..	26	13	39	16					
Vizagapatnam.	Vizagapatnam	30,291	1	46	2	..	26	23	49	8	173	10	..	97	94	191	50					
	Bimlipatam	8,582	..	36	..	..	15	22	37	..	46	3	..	26	23	49	12					
	Vizianagram	22,577	..	44	3	..	26	27	47	..	183	25	..	104	104	208	89					
Goda-vary.	Anakapalle	13,341	..	56	1	..	22	35	57	..	66	2	..	37	31	68	23					
	Cocanada	30,441	2	36	3	..	26	15	41	1	142	8	..	76	75	151	9					
	Rajahmundry	24,555	..	52	..	..	27	25	52	3	89	20	..	53	59	112	25					
Kistna..	Ellore	25,092	2	33	8	..	23	20	43	5	43	23	..	38	33	71	6					
	Masulipatam	35,056	2	66	11	..	40	39	79	..	52	5	..	25	31	57	..					
	Guntur	19,046	..	35	5	..	17	23	40	13	74	40	..	66	61	127	46					
Nellore.	Bezvada	9,336	..	42	8	..	25	25	50	1	51	4	..	21	35	56	2					
	Nellore	27,505	1	71	12	..	37	47	84	..	47	8	..	26	29	55	..					
	Ongole	9,200	2	31	7	..	20	20	40	1	18	2	..	11	10	21	..					
Madras	Madras	405,848	119	1,131	164	..	750	664	1,414	99	1,130	157	..	688	698	1,386	3					
Chingleput.	Conjeeveram	37,275	..	142	5	..	74	73	147	2	149	4	..	78	77	155	31					
South Arcot.	Cuddalore	43,545	1	82	6	..	40	49	89	3	83	7	..	53	40	93	3					
	Chidambaram	19,837	..	34	3	..	26	11	37	..	36	1	..	17	20	37	..					
	Trichinopoly	84,449	11	116	17	..	72	72	144	22	90	13	..	51	71	125	..					
Tanjore.	Srirangam	19,773	..	58	..	..	33	25	58	1	60	..	..	31	30	61	..					
	Tanjore	54,745	6	140	6	..	80	72	152	6	101	10	..	58	59	117	..					
	Kumbakonam	50,098	2	113	3	..	56	62	118	1	127	4	..	68	64	132	..					
Madura.	Mayavaram	23,044	2	50	5	..	38	19	57	1	45	..	..	26	20	46	..					
	Negapatam	53,776	8	45	19	..	37	35	72	17	103	14	..	71	63	134	24					
	Mannargudi	19,409	1	52	..	..	27	25	53	..	41	2	..	22	21	43	4					
Tinnevely.	Madura	76,847	4	209	14	..	101	126	227	7	175	23	..	98	107	205	..					
	Periyakulam	16,446	6	49	5	..	32	27	59	6	28	1	..	19	16	35	6					
	Dindigul	14,182	10	57	4	..	38	33	71	2	24	..	..	11	15	26	..					
Kurnool.	Palni	13,315	..	35	2	..	16	21	37	..	29	..	..	15	13	29	..					
	Tinnevely	23,221	..	67	4	..	34	37	71	..	63	3	..	37	29	66	..					
	Palamcottah	17,964	3	40	3	..	23	23	46	3	31	..	..	20	14	34	..					
Kurdappah.	Tuticorin	16,281	20	27	1	..	29	19	48	15	22	3	..	24	16	40	..					
	Kurnool	20,329	1	24	25	..	30	20	50	..	20	23	..	24	19	43	..					
	Cuddappah	18,982	..	24	30	..	24	30	54	1	18	15	..	17	17	34	..					
Bellary.	Bellary	53,460	5	120	79	..	112	92	204	8	104	71	..	93	88	183	1					
	Adoni	22,441	..	67	35	..	48	54	102	1	44	22	..	25	42	67	..					
	Anantapur	4,907	1	11	10	..	11	11	22	..	9	1	..	5	5	10	..					
North Arcot.	Anantapur	40,958	1	95	15	..	61	50	111	4	52	14	..	33	37	70	..					
	Vellore	16,690	..	55	5	..	40	30	70	..	27	4	..	16	15	31	..					
	Gudiyatam	10,387	..	33	2	..	17	18	35	..	19	1	..	13	7	20	..					
Salem.	Walajapet	12,232	..	9	1	..	5	5	10	..	10	..	..	12	8	20	..					
	Tirupati	59,631	3	250	21	..	141	133	274	1	103	10	..	61	53	114	..					
	Salem	15,933	..	29	23	..	30	27	57	..	19	47	..	33	33	66	15					
Coimbatore.	Vaniyambadi	14,278	..	38	10	..	29	19	48	..	22	4	..	16	10	26	..					
	Tirupatur	38,967	6	131	4	..	82	59	141	12	93	5	..	65	60	115	11					
	Coimbatore	9,205	1	27	2	..	18	12	30	..	22	3	..	12	13	25	2					
Nilgiris.	Erode	12,335	18	10	..	..	6	22	28	15	10	2	..	5	9	14	..					
	Karur	4,778	9	10	3	..	15	7	22	1	12	..	..	8	5	13	..					
	Ootacamund	32,099	29	65	19	..	55	58	113	24	57	18	..	50	49	99	..					
Malabar.	Coonoor	24,581	1	29	25	..	26	29	55	3	17	14	..	19	15	34	..					
	Mangalore	57,085	13	103	96	..	112	100	212	16	75	74	..	94	71	165	3					
	Tellicherry	36,339	6	114	26	..	78	68	146	4	87	22	..	40	67	113	..					
South Canara.	Palghat	15,698	42	9	7	..	21	37	58	22	4	6	..	19	13	32	..					
	Cochin	26,386	11	20	20	..	19	32	51	6	23	16	..	29	16	45	..					
	Cannanore	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..					
Total		1,861,508	358	4,425	792	..	2,865	2,705	5,570	337	4,381	776	..	2,795	2,699	5,494	408					

a. Inclusive of 19 Europeans and 59 Eurasians, but exclusive of 129 still-births.

Office of Sanitary Commissioner, Madras,
30th October 1889.

Return showing the Births and Deaths in the Districts of the Madras Presidency during the month of July 1889—cont.

RETURN showing the BIRTHS and DEATHS in the DISTRICTS OF THE MADRAS PROVINCE FOR THE YEAR 1888.			DEATHS—cont.														AVERAGE RATIO PER 1,000 OF POPULATION FOR PREVIOUS FIVE YEARS ENDING 1888.										
Population according to Census of 1881.	District.	Population from which Returns were received.	CAUSES OF DEATH—cont.														Still birth or Born dead.	RATIO PER 1,000 OF POPULATION FOR PREVIOUS FIVE YEARS PER ANNUM.									
			Small-pox.						Fever.		Bowel-complaints.		Injuries.														
			M.		F.		M.		F.		M.		F.		M.			F.		M.		F.					
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		M.	F.	M.	F.	Births.	Deaths.				
1,749,604	Ganjam ..	963,186	128	104	763	606	38	15	..	2	7	5	..	..	..	..	..	..	301	218	1	1	16.7	52.6	25.1	18.9	
2,485,141	Vizagapatam ..	1,445,120	84	26	1,353	1,284	53	41	..	1	17	16	..	..	..	..	..	..	163	157	2	2	23.9	50.7	26.8	15.7	
1,791,512	Godavari ..	1,791,512	12	15	762	759	122	117	5	6	12	8	..	..	..	..	..	..	839	809	16	24	26.3	45.9	24.7	25.9	
1,548,480	Kistna ..	1,548,480	17	12	688	735	39	39	11	2	8	20	8	..	..	..	..	..	971	901	45	33	44.8	33.6	39.3	24.5	
1,220,236	Nellore ..	1,220,236	10	12	284	272	30	27	20	26	20	19	1	..	..	..	..	..	331	357	5	10	32.1	17.4	28.6	15.4	
405,848	Madras ..	405,848	1*	1	168	175	119	152	..	..	..	..	..	..	..	..	..	..	393	366	20	19	41.8	40.9	43.7	35.7	
981,381	Chingleput ..	981,381	34	30	237	309	186	139	..	..	..	..	..	..	..	..	..	..	554	590	65	39	45.4	28.3	50.5	26.6	
1,814,738	South Arcot ..	1,816,375	136	157	526	503	67	72	..	..	..	..	..	..	..	..	..	..	897	826	..	1	37.3	26.6	38.7	22.4	
1,215,033	Tadchinopoly ..	1,215,033	31	34	236	247	30	26	5	1	18	13	13	..	..	..	..	..	762	726	42	27	41.2	25.8	35.9	22.4	
2,130,383	Tanjore ..	2,130,383	74	67	132	125	80	61	3	3	19	13	13	..	..	..	..	..	1,586	1,511	78	54	31.4	22.7	31.5	28.2	
2,168,680	Madura ..	1,294,382	26	21	336	294	67	70	5	1	20	14	9	..	..	..	..	..	610	567	46	40	41.4	22.7	39.1	19.5	
1,699,747	Tinnevely ..	1,699,747	4	10	245	207	82	63	..	..	..	..	..	..	..	..	..	..	1,063	1,006	15	42	34.0	20.4	41.6	18.2	
709,305	Kurnool ..	678,551	58	48	568	571	27	15	4	4	7	4	3	2	1	3	1	..	167	176	14	10	47.7	29.4	44.8	27.8	
1,121,038	Cuddapah ..	1,121,038	101	94	618	621	39	22	3	10	8	20	9	..	..	..	..	..	153	168	22	17	36.0	20.2	33.2	18.9	
736,807	Bellary ..	736,807	74	75	236	233	55	48	1	2	2	2	2	..	..	..	..	..	641	688	12	12	57.0	42.3	51.5	28.9	
599,889	Anantapur ..	599,889	75	67	79	96	15	14	2	2	4	8	..	..	..	..	..	..	475	498	12	12	40.7	30.1	41.9	24.1	
1,817,814	North Arcot ..	1,822,873	50	48	504	546	54	57	5	9	17	19	7	..	..	..	..	..	684	696	45	40	35.9	17.9	37.8	18.7	
1,599,595	Salem ..	1,592,899	49	55	524	538	37	40	3	2	14	9	6	..	..	..	..	..	586	561	43	36	41.7	19.6	40.8	20.1	
1,657,690	Coimbatore ..	1,657,690	44	43	548	539	86	80	6	4	5	22	5	..	..	..	..	..	618	560	28	29	37.1	20.1	34.5	17.5	
91,034	Nilgiris ..	91,034	..	..	..	..	12	5	1	..	..	..	..	..	..	..	..	..	20	10	3	..	23.7	20.1	19.4	21.6	
959,514	South Canara ..	955,842	13	7	345	298	79	68	1	1	2	16	18	..	..	..	..	..	515	500	70	39	37.5	23.4	39.2	33.5	
2,365,035	Malabar ..	2,354,234	31	29	1,041	931	263	225	5	5	28	17	1	..	..	..	..	..	678	615	32	30	28.4	19.8	29.4	25.2	
30,868,504	Total ..	28,122,540	1,002	955	10,253	9,934	1,580	1,396	86	98	257	270	124	86	10	6	13,007	12,414	658	531	35.6	27.6	..	..	35.2	22.5	..

SANITARY COMMISSIONER.

RETURN showing the BIRTHS and DEATHS in the DISTRICTS of the MADRAS PRESIDENCY during the month of July 1889.

		BIRTHS.				DEATHS.											
Population according to Census of 1881.	District.	CLASS.				CLASS.				TOTAL DEATHS.		CAUSES OF DEATH.					
		Christians.	Hindus.	Muham- madans.	Other Classes.	Christians.	Hindus.	Muham- madans.	Other Classes.	Males.	Females.		Total.				
Population from which Returns were received.		TOTAL BIRTHS. †				TOTAL DEATHS. ‡											
		Christians.	Hindus.	Muham- madans.	Other Classes.	Males.	Females.	Total.	Christians.	Hindus.	Muham- madans.	Other Classes.	Males.	Females.	Total.	M.	F.
1,749,604*	Ganjam	1	1,337	4	..	699*	643	1,342	1	4,216	11	..	2,348	1,880	4,228	1,110	930
2,485,141*	Vizagapatam.	4	2,863	15	..	1,481	1,401	2,882	9	6,032	64	..	3,252	2,858	6,103	1,626	1,375
1,791,512*	Godavari	15	3,871	42	..	1,973	1,955	3,928	11	6,700	152	..	3,494	3,369	6,863	1,731	1,651
1,548,480	Kistna	103	5,386	302	..	2,923	2,868	5,791	47	4,151	149	..	2,201	2,146	4,347	459	428
1,230,236	Nellore	22	3,142	101	..	1,708	1,557	3,265	30	1,622	125	..	918	859	1,777	223	145
405,848	Madras	119	1,131	164	..	750	684	1,414	99	1,130	157	..	688	698	1,386	3	1
981,381	Chingleput	19	3,667	34	..	1,873	1,847	3,720	16	2,266	33	..	1,135	1,130	2,315	107	100
1,814,738	South Arcot..	68	5,490	91	..	2,868	2,781	5,649	24	3,964	47	..	2,080	1,955	4,035	423	369
1,215,033	Trialinopoly.	155	3,960	58	..	2,074	2,099	4,173	95	2,486	39	..	1,336	1,284	2,620	250	231
2,130,383	Tanjore	161	5,182	238	..	2,897	2,684	5,581	104	3,795	146	..	2,077	1,968	4,045	165	180
2,168,680	Madura	103	4,203	167	..	2,200	2,273	4,473	56	2,214	105	..	1,266	1,109	2,375	193	139
1,699,747	Tinnevelly	266	4,338	220	..	2,467	2,357*	4,824	176	2,583	136	..	1,507	1,388	2,895	87	75
709,805	Kurnool	20	2,417	262	..	1,335	1,304	2,699	12	1,492	161	..	889	826	1,665	4	3
1,121,038	Cuddapah	11	3,043	313	..	1,654	1,713	3,367	14	1,747	133	..	942	952	1,894	10	7
736,807	Bellary	9	3,146	348	..	1,805	1,698	3,503	13	2,360	229	..	1,273	1,329	2,602	262	230
599,889	Anantapur	3	1,896	138	..	1,048	989	2,037	1	1,408	97	..	744	762	1,536	92	73
1,817,814	North Arcot..	14	5,301	148	..	2,786	2,677	5,463	7	2,646	67	..	1,368	1,352	2,720	49	60
1,599,595	Salem	29	5,370	143	..	2,771	2,771	5,542	12	2,498	90	..	1,316	1,284	2,500	95	73
1,657,690	Combaratore	24	5,030	83	..	2,594	2,543	5,137	22	2,710	48	..	1,447	1,333	2,780	135	79
91,034	Nilgris	29	146	5	..	88	92	180	19	127	7	..	93	60	153	..	..
959,514	South Canara.	196	2,501	295	..	1,511	1,481	2,993	114	1,574	180	..	971	897	1,868	..	..
2,365,035	Malabar	123	3,830	1,624*	..	2,831	2,746	5,577	95	2,828	979	..	2,067	1,835	3,902	19	11
-Total	-Total	1,494	77,250	4,795	..	42,396	41,143	83,539	978	60,549	3,154	..	33,362	31,319	64,681	7,043	6,160

* Including the Hill Tracts.

† Inclusive of 26 Europeans and 67 Eurasians, but exclusive of 1,192 still-births.

* Inclusive of 21 Europeans and 62 Eurasians, but exclusive of 1,192 born dead,

[Continued on next page.]

Recording the Sanitary Commissioner's remarks on the returns of — in the several districts in the Madras Presidency for the month of July 1889, and ordering their publication in the *Fort St. George Gazette*. Copy to the Secretary of State.

Vital Statistics.

NOVEMBER.

Recd.

Encl.

Issued

Gobt. of {1889} Madras.

PUBLIC.

	Population.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injuries.	All other causes.	Total deaths.	Total births.
Trichinopoly	84,449	..	17	34	4	2	68	125	144
Madura	76,847	..	5	36	33	1	130	205	227
Salem	69,631	..	1	31	16	..	66	114	274
Calicut	57,086	4	1	23	41	..	96	165	212
Tanjore	64,745	..	3	21	21	1	71	117	152
Negapatam	53,776	56	1	13	26	..	39	134	72
Bellary	53,460	1	12	49	4	3	114	183	204
Kumbakonam	50,098	..	13	26	30	3	60	132	118
Cuddalore	43,545	5	2	17	20	..	49	93	89
Vellore	40,958	..	4	24	11	2	29	70	111
Coimbatore	38,967	17	1	27	16	1	53	115	141
Conjeevaram	37,275	46	6	29	15	1	69	155	147
Palghat	36,339	..	..	16	8	..	89	113	146
Masulipatam	35,056	2	..	9	..	..	46	57	79
Mangalore	32,099	..	1	13	26	2	57	99	113
Cocanada	30,441	27	..	19	52	..	53	151	41
Vizagapatam	30,291	95	7	15	33	..	41	191	49
Nellore	27,505	..	..	15	..	3	37	55	84
Cannanore	26,386	..	..	10	6	1	28	45	51
Elore	25,092	11	..	6	13	1	40	71	43
Ootacamund	12,335	..	..	6	9	1	11	27	28
Total ..	906,380	262	74	439	384	22	1,236	2,417	2,525

ORDER—dated 6th November 1889, No. 890, 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 (Land Revenue).
- „ Surgeon-General with the Government of Madras.
- „ Sanitary Commissioner for Madras.

Exd. A. Raitt.

districts—Nilgiris and South Canara—and thirty-two towns were absolutely free of the disease.

12. *The Small-pox* mortality in the districts amounted to 1,957 against 1,985 in the month before, and in the towns to 113 against 122. All the districts except Nilgiris returned deaths under this head; but the greatest numbers were from South Arcot 293, Ganjam 232, and Cuddapah 195. Among the towns the greatest mortality, 17, occurred in Trichinopoly, then in Kumbakonam 13 and Bellary 12.

13. *Fevers* caused 20,187 deaths, of which 1,040 occurred in the towns; in the preceding month, the numbers were 17,259 in the districts and 977 in the towns. All the districts and towns, except two—Palamcottah and Anantapur—were stricken with fevers. Among the districts, the largest number of deaths took place in Vizagapatam 2,587, Malabar 1,972 and Godavari 1,521, and the lowest in Nilgiris 105, Anantapur 175 and Tanjore 257. Among the towns by far the greatest fever mortality occurred in Madras 343, the numbers next to it being 49 in Bellary, 36 in Madura and 34 in Trichinopoly.

14. *Bowel complaints* were fatal in 2,976 instances in the districts against 2,428 in the previous month, and in the towns in 809 against 767. In no district were there no deaths recorded from bowel disorders. Malabar suffered the most, 488 deaths, and Nilgiris the least, 17. Next to Malabar Chingleput comes with 325 deaths followed by Madras (town) 271, Godavari 239, and Coimbatore 166. Among the towns, the greatest mortality, eliminating Madras, occurred in Cocanada 52, then in Calicut 41, and in Vizagapatam and Madura 33 in each. In nine towns the returns under this head were nil.

15. *Injuries* caused 937 deaths in the districts and 57 in the towns, against 890 and 55, respectively, in the preceding month. The deaths from "All other causes" not specified numbered 25,421, of which 2,692 occurred in the towns; in the preceding month the numbers were 21,920 and 2,470 respectively. The mortality from injuries was made up of 184 suicides, 527 wounds and accidents, and of 226 deaths caused by snakes and wild-beasts.

16. The following tables show the deaths from the several specified causes in each district and town arranged in order from highest to lowest:—

Districts.	Cholera.	Districts.	Small-pox.	Districts.	Fevers.	Districts.	Bowel-complaints.
Godavari ..	3,382	South Arcot ..	293	Vizagapatam ..	2,587	Malabar ..	488
Vizagapatam ..	3,001	Ganjam ..	232	Malabar ..	1,972	Chingleput ..	325
Ganjam ..	2,040	Cuddapah ..	195	Godavari ..	1,521	Madras ..	271
Kistna ..	887	Bellary ..	149	Kistna ..	1,423	Godavari ..	239
South Arcot ..	792	Anantapur ..	142	Ganjam ..	1,369	Coimbatore ..	166
Bellary ..	492	Tanjore ..	141	Cuddapah ..	1,239	South Canara ..	147
Trichinopoly ..	481	Kurnool ..	106	Kurnool ..	1,139	Tinnevelly ..	145
Nellore ..	368	Salem ..	98	Coimbatore ..	1,087	Tanjore ..	141
Tanjore ..	345	North Arcot ..	87	North Arcot ..	1,062	South Arcot ..	139
Madura ..	332	Coimbatore ..	87	South Arcot ..	1,050	Madura ..	137
Coimbatore ..	214	Trichinopoly ..	65	South Arcot ..	1,029	Bellary ..	103
Chingleput ..	207	Chingleput ..	64	South Canara ..	643	Vizagapatam ..	94
Salem ..	168	Vizagapatam ..	60	Madura ..	630	Kistna ..	78
Anantapur ..	165	Malabar ..	60	Nellore ..	568	Salem ..	77
Tinnevelly ..	162	Madura ..	47	Chingleput ..	546	Cuddapah ..	61
North Arcot ..	109	Kistna ..	29	Bellary ..	519	Nellore ..	57
Malabar ..	30	Godavari ..	27	Trichinopoly ..	483	Trichinopoly ..	56
Cuddapah ..	17	Nellore ..	22	Tinnevelly ..	452	Ganjam ..	53
Kurnool ..	7	South Canara ..	20	Madras ..	343	Kurnool ..	42
Madras ..	4	Tinnevelly ..	14	Tanjore ..	257	Anantapur ..	29
Nilgiris ..	..	Madras ..	2	Anantapur ..	175	Nilgiris ..	17
South Canara ..	..	Nilgiris ..	..	Nilgiris ..	105	..	..

Municipalities.	Cholera.	Municipalities.	Small-pox.	Municipalities.	Fevers.	Municipalities.	Bowel-complaints.
Vizianagrum ..	175	Trichinopoly ..	17	Madras ..	343	Madras ..	271
Vizagapatam ..	95	Kumbakonam ..	13	Bellary ..	49	Cocanada ..	52
Guntur ..	85	Bellary ..	12	Madura ..	36	Calicut ..	41
Negapatam ..	55	Vizagapatam ..	7	Trichinopoly ..	34	Vizagapatam ..	33
Rajahmundry ..	54	Chicacole ..	6	Salem ..	31	Madura ..	33
Anakapalle ..	45	Conjeeveram ..	6	Conjeeveram ..	29	Kumbakonam ..	30
Conjeeveram ..	45	Vaniyambadi ..	6	Coimbatore ..	27	Negapatam ..	26
Chicacole ..	35	Chidambaram ..	6	Kumbakonam ..	26	Mangalore ..	26
Vaniyambadi ..	28	Mannargudi ..	5	Kurnool ..	26	Tanjore ..	21
Cocanada ..	27	Madura ..	5	Vellore ..	24	Cuddalore ..	20
Parlakimedi ..	24	Vellore ..	4	Rajahmundry ..	23	Salem ..	16
Bimlipatam ..	20	Vizianagrum ..	3	Calicut ..	23	Coimbatore ..	16
Coimbatore ..	17	Bezvada ..	3	Tanjore ..	21	Conjeeveram ..	15
Berhampore ..	14	Tanjore ..	3	Cocanada ..	19	Tuticorin ..	15
Bezvada ..	14	Anakapalle ..	2	Cuddalore ..	17	Ellore ..	13
Ellore ..	11	Madras ..	2	Palghat ..	16	Berhampore ..	12
Periyakulam ..	9	Cuddalore ..	2	Vizagapatam ..	15	Chicacole ..	11
Mannargudi ..	8	Berhampore ..	1	Nellore ..	15	Mannargudi ..	11
Erode ..	6	Parlakimedi ..	1	Guntur ..	14	Vellore ..	11
Cuddalore ..	5	Negapatam ..	1	Bezvada ..	14	Rajahmundry ..	10
Madras ..	4	Tinnevelly ..	1	Negapatam ..	13	Chidambaram ..	10
Calicut ..	4	Cuddapah ..	1	Mangalore ..	13	Mayavaram ..	10
Masulipatam ..	2	Salem ..	1	Chidambaram ..	12	Tinnevelly ..	10
Bellary ..	1	Tirupatūr ..	1	Bimlipatam ..	10	Ootacamund ..	9
Nellore ..	..	Coimbatore ..	1	Srirangam ..	10	Tirupatūr ..	8
Ongole ..	..	Erode ..	1	Cannanore ..	10	Palghat ..	8
Chidambaram ..	..	Mangalore ..	1	Berhampore ..	9	Srirangam ..	6
Trichinopoly ..	..	Tellicherry ..	1	Parlakimedi ..	9	Cannanore ..	6
Srirangam ..	..	Calicut ..	1	Masulipatam ..	9	Bimlipatam ..	5
Tanjore ..	..	Bimlipatam ..	..	Mayavaram ..	9	Bezvada ..	5
Kumbakonam ..	..	Cocanada ..	..	Cuddapah ..	9	Kurnool ..	5
Mayavaram ..	..	Rajahmundry ..	..	Cochin ..	9	Ongole ..	4
Madura ..	..	Ellore ..	..	Tuticorin ..	8	Trichinopoly ..	4
Dindigul ..	..	Masulipatam ..	..	Gudiyatam ..	8	Periyakulam ..	4
Palni ..	..	Guntur ..	..	Tirupati ..	8	Cuddapah ..	4
Tinnevelly ..	..	Nellore ..	..	Palni ..	7	Bellary ..	4
Palamcottah ..	..	Ongole ..	..	Tinnevelly ..	7	Cochin ..	4
Tuticorin ..	..	Srirangam ..	..	Vaniyambadi ..	7	Vizianagrum ..	3
Kurnool ..	..	Mayavaram ..	..	Tellicherry ..	7	Guntur ..	3
Cuddapah ..	..	Periyakulam ..	..	Chicacole ..	6	Erode ..	3
Adoni ..	..	Dindigul ..	..	Ellore ..	6	Tellicherry ..	3
Anantapur ..	..	Palni ..	..	Adoni ..	6	Dindigul ..	2
Vellore ..	..	Palamcottah ..	..	Ootacamund ..	6	Gudiyatam ..	2
Gudiyatam ..	..	Tuticorin ..	..	Coonoor ..	6	Palni ..	1
Walajapet ..	..	Kurnool ..	..	Vizianagrum ..	5	Adoni ..	1
Tirupati ..	..	Adoni ..	..	Dindigul ..	6	Karur ..	1
Salem ..	..	Anantapur ..	..	Tirupatūr ..	5	Coonoor ..	1
Tirupatūr ..	..	Gudiyatam ..	..	Anakapalle ..	4	Parlakimedi ..	..
Karur ..	..	Walajapet ..	..	Mannargudi ..	4	Anakapalle ..	..
Ootacamund ..	..	Tirupati ..	..	Periyakulam ..	4	Masulipatam ..	..
Coonoor ..	..	Karur ..	..	Ongole ..	3	Nellore ..	..
Mangalore ..	..	Ootacamund ..	..	Walajapet ..	2	Palamcottah ..	..
Tellicherry ..	..	Coonoor ..	..	Erode ..	1	Anantapur ..	..
Palghat ..	..	Palghat ..	..	Karur ..	1	Walajapet ..	..
Cochin ..	..	Cochin ..	..	Palamcottah ..	..	Tirupati ..	..
Cannanore ..	..	Cannanore ..	..	Anantapur ..	..	Vaniyambadi ..	..

17. *Towns of 25,000 inhabitants and upwards.*—The registered events in these towns (Ootacamund included) in a population of 906,380 amounted in July to 2,525 births and 2,417 deaths, yielding ratios of 33·4 and 31·9 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 ..	27·9	18·6
First-class towns of Bengal	18·3	26·0
Do. of Madras	33·4	31·9

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

Municipalities.	Birth-rate per mille per annum.	Municipalities.	Birth-rate per mille per annum.	Municipalities.	Death-rate per mille per annum.	Municipalities.	Death-rate per mille per annum.
Bezvada	64.2	Srirangam	35.2	Vizianagrum	110.5	Taticeorin	29.4
Dindigul	60.0	Cuddapah	34.1	Guntur	77.5	Ongole	27.3
Oonoor	55.2	Tanjore	33.3	Vizagapatam	75.6	Mannargudi	26.5
Salem	55.1	Palni	33.3	Bezvada	71.9	Ootacamund	26.2
Adoni	54.6	Mannargudi	32.7	Bimlipatam	68.5	Palni	26.1
Anantapur	53.8	Vellore	32.5	Anakapalle	61.1	Cuddalore	25.6
Ongole	52.1	Palamcottah	30.7	Cocanada	59.5	Tanjore	25.6
Bimlipatam	51.7	Mayavaram	29.6	Chicacole	59.0	Periyakulam	25.5
Anakapalle	51.2	Kurnool	29.5	Rajahmundry	54.7	Kurnool	25.3
Gudiyatam	50.3	Berhampore	28.9	Conjeeveram	49.8	Anantapur	24.4
Palghat	48.2	Kumbakonam	28.2	Vaniyambadi	49.7	Cochin	24.4
Conjeeveram	47.8	Chicacole	27.5	Bellary	41.9	Nellore	23.9
Bellary	46.7	Ootacamund	27.2	Madras	40.9	Mayavaram	23.9
Calicut	44.6	Masulipatam	27.0	Palghat	37.3	Walaipet	23.1
Cochin	44.3	Tellicherry	26.8	Srirangam	37.0	Salem	22.9
Periyakulam	43.4	Rajahmundry	26.4	Mangalore	37.0	Palamcottah	22.7
Coimbatore	43.4	Vizianagrum	24.9	Adoni	35.8	Chidambaram	22.3
Vaniyambadi	42.9	Cuddalore	24.5	Coimbatore	35.4	Gudiyatam	22.2
Mangalore	42.2	Guntur	24.4	Berhampore	35.0	Dindigul	21.9
Madras	41.8	Cannanore	23.1	Calicut	34.6	Tirupatur	21.8
Karur	41.6	Chidambaram	22.3	Tinnevely	34.1	Cuddapah	21.4
Walaipet	40.4	Parlakimedi	21.0	Ellore	33.9	Vellore	20.5
Tirupatur	40.3	Ellore	20.5	Oonoor	32.6	Cannanore	20.4
Nellore	36.6	Trichinopoly	20.4	Madura	32.0	Masulipatam	19.5
Tinnevely	36.6	Vizagapatam	19.4	Kumbakonam	31.6	Karur	18.2
Erode	36.4	Cocanada	16.1	Parlakimedi	30.4	Tirupati	18.1
Madura	35.4	Negapatam	16.0	Erode	30.4	Trichinopoly	17.7
Taticeorin	35.3	Tirupati	9.0	Negapatam	29.9	Tellicherry	16.5

10. *Principal Causes of Deaths.*—The following table shows the deaths from the principal specified causes. Cholera and fevers were more fatal during the period under notice than in any of the preceding months of the year, while small-pox was less so. The mortality from bowel-complaints also was greater than in any of the past months except January:—

	Cholera.	Small-pox.	Fevers.	Bowel-complaints.	Injuries.	All other causes.	Total deaths.
<i>Districts.</i>							
July 1888	4,588	1,733	16,869	2,471	922	22,632	49,215
January 1889	10,565	3,089	19,869	3,236	883	27,952	65,584
February	5,050	3,077	15,065	2,176	793	20,657	46,818
March	3,695	4,128	16,283	2,096	949	20,629	47,780
April	5,478	3,749	15,760	1,805	965	19,756	47,513
May	5,365	2,272	16,428	2,237	1,163	22,386	50,851
June	9,734	1,985	17,259	2,428	890	21,920	54,216
July	13,203	1,957	20,187	2,976	937	25,421	64,681
<i>Municipalities.</i>							
July 1888	636	204	814	679	46	2,171	4,450
January 1889	1,082	170	1,171	899	53	2,859	6,234
February	819	193	1,061	618	52	2,416	4,959
March	306	290	1,095	596	55	2,608	4,950
April	500	258	1,036	618	47	2,500	4,859
May	804	183	994	671	68	2,622	5,342
June	746	122	977	767	55	2,470	5,137
July	783	113	1,040	809	57	2,692	5,494

11. *The Deaths from Cholera* numbered 13,203, against 9,734 in the previous month. Of these, 783 occurred in the towns against 746. Godavari (3,382 deaths), Vizagapatam (3,001), Ganjam (2,040), Kistna (887) and South Arcot (792) districts were the greatest sufferers. Among the towns Vizianagrum, Vizagapatam and Guntur returned the greatest cholera mortality, viz., 175, 95 and 85, respectively. Two

5. The following table shows the results of registration among the different sexes and several classes of the community:—

	Sexes.			Classes.				Ratio per mille per annum.			
	Males.	Females.	Number of males to every 100 females.	Christians.	Hindus.	Muham-madans.	Total.	Christians.	Hindus.	Muham-madans.	Total.
<i>Districts.</i>											
Births	42,396	41,143	103.0	1,494	77,250	4,795	83,539	27.6	36.1	31.7	35.6
Deaths	33,362	31,319	106.4	978	60,549	3,154	64,681	18.1	28.3	20.8	27.6
<i>Municipalities.</i>											
Births	2,865	2,705	105.9	352	4,425	792	5,570	34.5	35.9	36.4	35.9
Deaths	2,795	2,699	103.6	337	4,381	776	5,494	32.9	35.5	35.6	35.4

6. As usual, both the birth and death rates varied in the several districts and towns, as will be seen from the tables appended. Bellary continued to maintain the highest position on the list in regard to its birth-rate, 57.0 per mille per annum. Kurnool and Chingleput kept to their second and third places, as in the preceding month, with ratios of 47.7 and 45.4 respectively; but Madras (town) 41.8, gave way to Kistna, 44.8. Next to Madras stand Salem 41.7, Madura 41.4, Trichinopoly 41.2, and Anantapur 40.7. The lowest birth-rate (16.7) was, as in the month before, recorded in Ganjam.

7. Ganjam scored the highest death-rate, as in the preceding month, 52.6 against 71.8, and Nellore returned the lowest, 17.4 against 15.2. Next to Ganjam the highest death-rates occurred in Vizagapatam and Godavari, 50.7 and 45.9 respectively. The high death-rate in Ganjam may be attributable to the famine and its concomitant ailments; while cholera is accountable for the high death-rate in Godavari, and cholera and fevers in Vizagapatam.

8. Among the towns, the highest birth-rate occurred in Bezvada, 64.2, and the lowest in Tirupati, 9.0. Vizianagrum returned the highest death-rate, 110.5, and Tellicherry the lowest, 16.5. A heavy cholera mortality—175 out of a total of 208 deaths—tended to swell the death-rate in Vizianagrum. Registration appears to be defective in some towns as indicated by the results shown in the returns.

9. The following tables show the birth and death rates in the several districts and towns arranged in the order of sequence:—

Districts.	Birth-rate per mille per annum.	Districts.	Birth-rate per mille per annum.	Districts.	Death-rate per mille per annum.	Districts.	Death-rate per mille per annum.
Bellary	57.0	Coimbatore	37.1	Ganjam	52.6	South Canara	23.4
Kurnool	47.7	Cuddapah	36.0	Vizagapatam	50.7	Tanjore	22.7
Chingleput	45.4	North Arcot	35.9	Godavari	45.9	Madura	22.7
Kistna	44.8	Tinnevely	34.0	Bellary	42.3	Tinnevely	20.4
Madras	41.8	Nellore	32.1	Madras	40.9	Cuddapah	20.2
Salem	41.7	Tanjore	31.4	Kistna	33.6	Coimbatore	20.1
Madura	41.4	Malabar	28.4	Anantapur	30.1	Nilgiris	20.1
Trichinopoly	41.2	Godavari	26.3	Kurnool	29.4	Malabar	19.8
Anantapur	40.7	Vizagapatam	23.9	Chingleput	28.3	Salem	19.6
South Canara	37.5	Nilgiris	23.7	South Arcot	26.6	North Arcot	17.9
South Arcot	37.3	Ganjam	16.7	Trichinopoly	25.8	Nellore	17.4

6TH NOVEMBER 1889, No. 890, 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 Ootacamund, 25th October 1889, No. 1574.

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 July 1889.

2. The most noticeable feature as disclosed by the returns is increased birth and death rates in both districts and towns compared with past periods.

3. The total number of births registered numbered 83,539, being greater than in any of the past months of the year and representing a ratio of 35.6 per 1,000 of population per annum. The total deaths amounted to 64,681, or more than in any of the past months, except January, and yield a ratio of 27.6 per mille per annum. Of the total births and deaths, 5,570 of the former and 5,494 of the latter occurred in the municipal towns, or in the proportion of 35.9 and 35.4 per mille per annum considered with the population.

4. In the table below, the total births and deaths in the districts and towns, and their rates, are given compared with past periods; and in the table subjoined, the mortality rate of the Presidency is contrasted with those of Bengal, North-Western Provinces and Punjab for the same period:—

	Districts.				Municipalities.			
	Births.	Deaths.	Birth rate.	Death rate.	Births.	Deaths.	Birth rate.	Death rate.
Average of 5 previous Julys	82,271	52,706	35.2	22.5	5,383	4,663	35.7	30.3
July 1888	79,870	49,215	34.3	21.1	5,101	4,450	32.9	28.7
January 1889	68,441	65,584	27.3	28.2	4,623	8,234	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 „	66,941	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

	Death rate per mille per annum.
Bengal	25.0
North-West Provinces	27.7
Punjab	23.8
Madras	27.6

Office of Sanitary Commr:
Ootacamund 25th October 1889
Recd 30th October 1889

N^o. 1574

From

Surgeon Major J. A. Laing
Sanitary Commissioner for Madras

To

The Chief Secretary to Government
Public Department

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	Districts				Municipalities			
	Births	Deaths	Birth rate	Death rate	Births	Deaths	Birth rate	Death rate
Average of 5 previous years	82271	52706	35.2	22.5	5383	4563	35.7	30.3
July 1888	79870	49215	34.3	21.1	5101	4450	32.9	28.7
January 1889	63441	65584	27.3	28.2	4623	6234	29.8	40.1
February	54075	46818	23.5	20.3	4152	4959	26.7	31.9
March	63075	47780	27.1	20.5	4791	4950	30.9	31.9
April	65941	47513	28.5	20.5	4874	4859	31.4	31.3
May	72189	50851	31.0	22.1	5155	5342	33.2	34.4
June	73315	54216	31.7	23.4	5091	5137	32.8	33.1
July	83539	44681	35.6	27.6	5570	5494	35.9	27.6

	Death rate per mille per annum
Bengal	25.0
North-west Provinces	27.7
Punjab	23.8
Madras	27.6

5. The following table shows the results of registration among the different sexes and several classes of the community:

	Sexes			Classes				Ratio per mille per annum			
	Males	Females	Number of males to 100 females	Christians	Hindus	Moslems	Total	Christians	Hindus	Moslems	Total
Districts											
Births	42396	41143	103.0	1494	77250	4795	83539	27.6	36.1	31.7	35.1
Deaths	33362	31319	106.4	778	60549	3154	64681	18.1	28.3	20.8	27.6
Municipalities											
Births	2865	2705	105.9	353	4425	792	5570	34.5	35.9	36.4	35.9
Deaths	1795	2697	103.5	337	4381	776	5494	32.9	35.5	35.6	35.4

6. As usual both the birth and death rates varied in the several districts and towns, as will be seen from the tables appended. Bellary continued to maintain the highest position on the list in regard to its birth rate, 57.0, per mille per annum. Kurnool and Chingleput kept to their second and ^{third} places as in the preceding month with ratios of 47.7 and 45.4 respectively; but Madras (town) 41.8, gave way to Kistna, 44.8. Next to Madras stand Salem 41.7, Madurai 41.4, Trichinopoly 41.2 and Amritapur 40.7. The lowest birth rate 16.7 was, as in the month before, recorded in Ganyam.

7. Ganyam scored the highest death rate as in the preceding month 52.6 against 71.8 and Kellore returned the lowest 17.4 against 15.2. Next to Ganyam the highest death rates occurred in Vizagapatnam and Godavari 50.7 and 45.9 respectively. The high death rate in

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in Ganyam may be attributable to the famine and its concomitant ailments; while cholera is accountable for the high death rate in Godavari and cholera and fevers in Vizagapatnam.

8. Among the towns the highest birth rate occurred in Bezwada, 64.9 and the lowest in Tirupati, 7.0. Vizianagram returned the highest death rate 11.5 and Tellicherry the lowest 7.5. A heavy cholera mortality 175 out of a total of 208 deaths tended to swell the death rate in Vizianagram. Registration appears to be defective in some towns as indicated by the results shown in the returns.

9. The following tables show the birth and death rates in the several districts and towns arranged in the order of sequence.

Districts	Birth rate per mille per annum	Districts	Death rate per mille per annum
Bellary	67.0	Gangam	52.6
Kurnool	47.7	Vizagapatnam	50.7
Chinglaput	45.4	Godavari	45.9
Kistna	44.8	Bellary	42.3
Madras	41.8	Madras	40.9
Salem	41.7	Kistna	33.6
Madura	41.4	Amantapur	32.1
Trichinopoly	41.2	Kurnool	29.4
Amantapur	40.7	Chinglaput	28.3
South Canara	37.5	South Arcot	26.6
South Arcot	37.3	Trichinopoly	25.8
Coimbatore	37.1	South Canara	23.4
Cuddapah	36.0	Tanjore	22.7
North Arcot	35.9	Madura	22.7
Trinnevelly	34.0	Trinnevelly	20.4
Vellore	32.1	Cuddapah	20.2
Tanjore	31.4	Coimbatore	20.1
Malabar	28.4	Vilgin	20.1
Godavari	26.3	Malabar	19.8
Vizagapatam	23.9	Salem	19.6
Vilgin	23.3	North Arcot	17.9
Gangam	16.7	Vellore	17.4

Municipalities	Birth rate per mille per annum	Municipalities	Death rate per mille per annum
Bengalada	64.2	Vizianagrum	110.5
Quindigub	60.0	Guntur	77.5
Coonoor	55.2	Vizagapatam	75.6
Salem	55.1	Bengalada	71.9
Adoni	54.5	Amantapur	68.5
Amantapur	53.8	Amakapalle	61.1
Angola	52.1	Coanada	57.5
Buntapattam	51.7	Chicacole	57.0
Amakapalle	51.2	Rajahmundry	56.7
Godiyatam	50.3	Canjeesam	49.8
Palghat	48.2	Valliyambadi	48.7
Canjeesam	47.3	Bellary	41.0
Bellary	45.7	Madras	40.9
Calicut	44.5	Palghat	37.3
Calicut	44.3	Srirangam	37.0
Periyakulam	43.4	Mangalore	37.0
Coimbatore	43.4	Adoni	35.8
Valliyambadi	42.9	Coimbatore	35.4
Mangalore	42.2	Beshampore	35.0
Madras	41.8	Calicut	34.8
Karur	41.6	Trinnevelly	31.9
Wadypet	40.4	Chellore	31.9
Sripattur	40.3	Coonoor	32.5
Vellore	38.6	Madura	32.0
Trinnevelly	38.6	Kannibakorum	31.6
Erode	38.4	Parlakumedi	30.4
Madura	38.4	Erode	30.4
Inticorin	35.3	Nagapatam	29.9
Srirangam	35.2	Inticorin	29.4
Cuddapah	34.1	Angola	27.3
Tanjore	33.3	Mannargudi	26.7
Pahli	32.7	Odneamund	26.2
Mannargudi	32.5	Pahli	26.1
Vellore	32.5	Cuddalore	25.6
Palamcottah	30.7	Tanjore	25.0
Mayavaram	27.6	Periyakulam	25.5
Kurnool	27.5	Kurnool	25.0
Beshampore	27.9	Amantapur	24.0
Kannibakorum	27.2	Calicut	24.0
Chicacole	27.3	Vellore	24.0
Odneamund	27.2	Mayavaram	23.9
Manantipatam	27.4	Cuddalore	23.4
Tellicherry	26.8	Salem	22.9
Rajahmundry	25.4	Palamcottah	22.7
Vizianagrum	24.9	Chellumbesam	22.8
Cuddalore	24.5	Godiyatam	22.2
Guntur	24.4	Quindigub	21.9
Cananore	23.7	Sripattur	21.8
Chellumbesam	22.3	Cuddapah	21.4
Parlakumedi	21.0	Vellore	20.5
Chellore	20.5	Cananore	20.4
Trichinopoly	20.1	Manantipatam	19.5
Vizagapatam	19.1	Karur	18.2
Coanada	16.1	Sripatti	18.1
Nagapatam	16.0	Trichinopoly	17.7
Sripatti	9.0	Tellicherry	16.5

10 Principal causes of death :- The following table shows the deaths from the principal specified causes. Cholera and fevers were more fatal during the period under notice than in any of the preceding months of the year, while small-pox was less so. The mortality from bowel complaints also was greater than in any of the past months, except January.

		Cholera	Small-pox	Fevers	Bowel Com- plaints	Dysentery	All other causes	Total deaths
Districts								
July 1888		4588	1753	16849	2471	922	22632	49215
January 1889		10585	3089	19819	3236	883	27952	65884
February		5050	3077	15065	4176	793	20657	46818
March		3698	4123	16423	2096	749	20629	47728
April		5478	3747	15760	1808	965	19758	47613
May		6866	2272	16428	2237	1163	22386	50851
June		9734	1935	17257	2428	890	24924	64416
July		13203	1957	20187	2976	937	25424	64681
Municipalities								
July 1888		636	204	814	579	46	2171	4450
January 1889		1082	170	1171	899	53	2857	6284
February		619	193	1061	618	52	2416	4959
March		311	290	1095	596	55	2608	4950
April		500	258	1036	518	47	2500	4859
May		804	183	794	671	68	2622	5342
June		746	120	777	767	55	2470	5137
July		783	113	1040	809	57	2692	5494

11 The deaths from Cholera — numbered 13203 against 9734 in the previous

58 previous month. Of these 783 occurred in the towns against 746. Godavari (3382) deaths, Vizagapatam (3001), Ganyam (2040), Kistna (887) and South Arcot (192) ^{districts} were the greatest sufferers. Among the towns Vizianagaram, Vizagapatam and Guntur returned the greatest cholera mortality viz 175, 95 and 85 respectively. Two districts Nilgiris and South Canara and thirty-two towns were absolutely free of the disease.

12 The Small-pox mortality in the districts amounted to 1957 against 1985 in the month before and in the towns to 113 against 122. All the districts except Nilgiris returned deaths under this head, but the greatest numbers were from South Arcot 293, Ganyam 232 and Bellary 195. Among the towns the greatest mortality 17, occurred in Trichinopoly, then in Kumbakonam 13 and Bellary 12.

13 Fevers caused 20187 deaths of which 1040 occurred in the towns; in the

the preceding month, the numbers were 17,259 in the districts and 977 in the towns. All the districts and towns, except two Palamcottah and Amantapur, were stricken with fevers. Among the districts the largest number of deaths took place in Vizagapatam 2,587, Malabar 1,972 — and Godavari 1,521 and the lowest in Nilgiris 105, Amantapur 175 and Tanjore 25. Among the towns by far the greatest — fever mortality occurred in Madras 343, the numbers next to it being 49 in Bellary, 36 in Madura and 34 in Trichinopoly.

14. Bowel complaints were fatal in 2,976 instances in the districts against 2,428 in the previous month and in the towns in 809 against 767. In no district were there so deaths recorded from bowel disorders. Malabar suffered the most 488 deaths and Nilgiris the least 17. Next to Malabar Chingleput comes with 325 deaths followed by Madras (town) 271, Godavari 239 and Coimbatore 166. Among the towns, the greatest mortality, summing Madras

Madras, occurred in Coimbatore 52, then in Calicut 41, and in Vizagapatam and Madura 33 each. In nine towns the returns under this head were nil.

15. Injuries caused 937 deaths in the districts and 57 in the towns against 890 and 55 respectively in the preceding month. The deaths from "all other causes" not specified numbered 25,421 of which 2,692 occurred in the towns; in the preceding month the numbers were 2,1920 and 2,470 respectively. The mortality from injuries were made up of 184 suicides, 527 wounds and accidents and 226 deaths caused by snakes and wild beasts.

16. The following tables show the deaths from the several specified causes in each district and town arranged in order from highest to lowest.

Districts	Deaths	Districts	Deaths	Districts	Deaths	Districts	Deaths
Godavari	3882	South Arcot	293	Vizagapatam	2587	Malabar	488
Vizagapatam	3001	Ganjam	232	Malabar	1972	Chingleput	325
Ganjam	2040	Cuddapah	195	Godavari	1521	Madras	271
Kistna	887	Bellary	149	Kistna	1423	Godavari	239
South Arcot	772	Amantapur	142	Ganjam	1369	Coimbatore	166
Bellary	472	Tanjore	141	Cuddapah	1239	South Canara	147
Trichinopoly	431	Kurnool	106	Kurnool	1159	Tinnevely	145
Kellore	368	Salem	104	Coimbatore	1087	Tanjore	141
Tanjore	305	North Arcot	98	Salem	1062	South Arcot	137
Madura	332	Coimbatore	87	North Arcot	1050	Madura	137
Coimbatore	214	Trichinopoly	65	South Arcot	1029	North Arcot	111
Chingleput	207	Chingleput	64	South Canara	643	Bellary	103
Salem	168	Vizagapatam	60	Madura	630	Vizagapatam	94
Amantapur	163	Malabar	60	Kellore	586	Kistna	78
Tinnevely	162	Madura	47	Chingleput	581	Salem	77
North Arcot	109	Kistna	29	Bellary	579	Cuddapah	61
Malabar	30	Godavari	27	Trichinopoly	483	Kellore	57
Cuddapah	17	Kellore	22	Tinnevely	452	Trichinopoly	56
Kurnool	7	South Canara	20	Madras	343	Ganjam	53
Madras	4	Tinnevely	14	Tanjore	257	Kurnool	42
Nilgiris	-	Madras	2	Amantapur	175	Amantapur	29
South Canara	-	Nilgiris	-	Nilgiris	105	Nilgiris	17

17. Towns of 25000 inhabitants and upwards. The registered events in these towns (Ootacamund included) in a population of 906,380 amounted in July to 2525 births and 2417 deaths — yielding ratios of 33.4 and 31.9 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	27.9	18.6
First Class Towns of Bengal	18.3	26.0
— of Madras	33.4	31.9

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

Municipalities	Cholera	Municipalities	Small-pox	Municipalities	Fever	Municipalities	Bowel - Com - = plagues
Vizianagaram	175	Tiruchinopoly	17	Madras	343	Madras	271
Vizagapatnam	95	Kumbakonam	13	Bellary	49	Cocanada	52
Guntur	85	Bellary	12	Madura	36	Bali-ent	41
Vizagapatnam	55	Vizagapatnam	7	Tiruchinopoly	34	Vizagapatnam	38
Rajahmundry	51	Chicaole	6	Salurn	31	Madura	33
Anakapalle	45	Conjeevaram	6	Conjeevaram	29	Kumbakonam	30
Conjeevaram	45	Vaniyambadi	6	Coimbatore	27	Vizagapatnam	26
Chicaole	35	Chellumberum	5	Kumbakonam	26	Mangalore	26
Vaniyambadi	28	Mannargudi	5	Kurnool	26	Tanjore	21
Cocanada	27	Madura	5	Vellore	24	Cuddalore	20
Parthakur	24	Vellore	4	Rajahmundry	23	Salurn	16
Bimlipatam	20	Vizianagaram	3	Bali-ent	23	Coimbatore	16
Coimbatore	17	Bezwada	3	Tanjore	21	Conjeevaram	15
Bengalpur	14	Tanjore	3	Cocanada	19	Tuticorin	15
Bezwada	14	Anakapalle	2	Cuddalore	17	Vellore	13
Ellore	11	Madras	2	Palghat	16	Bengalpur	12
Veniyakulam	9	Cuddalore	2	Vizagapatnam	15	Chicaole	11
Mannargudi	8	Bengalpur	1	Vellore	15	Mannargudi	11
Erode	6	Parthakur	1	Guntur	14	Vellore	11
Cuddalore	5	Madras	1	Bezwada	14	Rajahmundry	10
Madras	4	Tirumvelly	1	Vizagapatnam	13	Chellumberum	10
Bali-ent	4	Cuddalore	1	Mangalore	13	Mayavaram	10
Maoulipatam	2	Salurn	1	Chellumberum	12	Tirumvelly	10
Bellary	1	Tirupattur	1	Bimlipatam	10	Ootacamund	9
Vellore	-	Coimbatore	1	Srirangam	10	Tirupattur	8
Angole	-	Erode	1	Channarayana	10	Palghat	8
Chellumberum	-	Mangalore	1	Bengalpur	9	Srirangam	6
Tiruchinopoly	-	Tellicherry	1	Parthakur	9	Channarayana	6
Srirangam	-	Bali-ent	1	Maoulipatam	9	Bimlipatam	5
Tanjore	-	Bimlipatam	-	Mayavaram	9	Bezwada	5
Kumbakonam	-	Cocanada	-	Cuddalore	9	Kurnool	5
Mayavaram	-	Rajahmundry	-	Chicaole	9	Angole	5
Madura	-	Ellore	-	Tuticorin	8	Tiruchinopoly	5
Quindigul	-	Maoulipatam	-	Vizagapatnam	8	Veniyakulam	5
Palni	-	Guntur	-	Tirupattur	8	Cuddalore	5
Tirumvelly	-	Vellore	-	Palni	7	Bellary	5
Palamcottah	-	Angole	-	Tirumvelly	7	Vellore	5
Tuticorin	-	Srirangam	-	Vaniyambadi	7	Vizianagaram	5
Kurnool	-	Mayavaram	-	Tellicherry	7	Guntur	5
Cuddalore	-	Veniyakulam	-	Chicaole	6	Erode	5
Adoni	-	Quindigul	-	Ellore	6	Tellicherry	5
Anantapur	-	Palni	-	Adoni	6	Quindigul	5
Vellore	-	Palamcottah	-	Ootacamund	6	Vizagapatnam	5
Vizagapatnam	-	Tuticorin	-	Coimbatore	6	Palni	5
Walajapet	-	Kurnool	-	Vizianagaram	5	Adoni	5
Tirupattur	-	Adoni	-	Quindigul	5	Kannur	5
Salurn	-	Anantapur	-	Tirupattur	5	Coimbatore	5
Tirupattur	-	Vizagapatnam	-	Anakapalle	5	Parthakur	5
Kannur	-	Walajapet	-	Mannargudi	4	Anakapalle	5
Ootacamund	-	Tirupattur	-	Rajahmundry	4	Maoulipatam	5
Coimbatore	-	Kannur	-	Angole	3	Vellore	5
Mangalore	-	Ootacamund	-	Walajapet	3	Palamcottah	5
Tellicherry	-	Coimbatore	-	Erode	2	Anantapur	5
Palghat	-	Palghat	-	Kannur	1	Walajapet	5
Channarayana	-	Channarayana	-	Palamcottah	1	Tirupattur	5
	-		-	Anantapur	-	Vaniyambadi	5

	Population	Cholera	Smallpox	Fever	Bomb-com = plague	Injuries	All other causes	Total deaths	Total burials
Trichinopoly	84649	-	17	34	4	2	68	125	144
Madura	76847	-	5	36	33	1	130	205	227
Talav	59631	-	1	31	16	-	66	114	274
Calicut	57085	4	1	23	41	-	96	165	212
Tanjore	54745	-	3	21	21	1	71	117	152
Megapatam	53776	55	1	13	26	-	39	134	72
Kelbary	53460	1	12	49	4	3	114	183	204
Kumbakonam	50098	-	13	26	30	3	60	132	118
Chengalore	43845	5	2	17	20	-	49	93	89
Vellore	40958	-	4	24	11	2	29	70	111
Coimbatore	38967	17	1	27	16	1	53	115	141
Chengam	37275	45	6	29	15	1	59	155	147
Palghat	36339	-	-	16	8	-	89	113	146
Masulipatam	35056	2	-	9	-	-	46	57	79
Mangalore	32099	-	1	13	26	2	57	99	113
Coimada	30441	27	-	19	52	-	53	151	41
Vizagapatam	30291	95	7	15	33	-	41	191	49
Vellore	27505	-	-	15	-	3	37	55	84
Channarayana	26386	-	-	10	6	1	28	45	51
Ellore	25092	11	-	6	13	1	40	71	43
Channarayana	12335	-	-	6	9	1	11	27	28
Total	906380	262	74	439	384	22	1236	2417	2525

I have the honor to be

Sir

Your most obedt servant

J. Anderson P. J. J.

Surgeon Major

Sanitary Commissioner for Madras

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

letter from the Sanitary Commissioner, dated 25th Oct 89 No. 1574

ORDER THEREON, d/6.11.89 No. 890.

Recorded.

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

H. E.

PUBLIC DEPARTMENT.

(Sanitary).

No. 891 of 1889.

To the Revenue Department.

„ Board of Revenue.

„ Surgeon-General with the Government of Madras.

„ Sanitary Commissioner.

Desp^d 16/11/89.

desp^d 20/11/89
with the two returns

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. 890 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

July 1889.

2. The statistics are annexed.

Chief Secretary.

Public Department

From

Surgeon Major J. A. Loring
Sanitary Commissioner

for Madras

To

The Chief Secretary
to Government
Public Department

Dated 25th
Desp^d 30th
Recd. 31st } October 1889

CHIEF SECRETARY
GOVERNMENT OF MADRAS

No. 1574

Encl^d 2/

Subject

Submits vital statistical reports of the districts and municipalities of the Madras Presidency for July 1889.

Public {188 } Dept.

PROCEEDINGS OF THE MADRAS GOVT.

Dated 188 , No.