

Revenue (1898) Department.

PRESS SERIES.

G.O., No. 36

Dated 17th January

[Despatch Abstract.]

Special Death-rate Returns

Recording Board's Progs. submitting with
remarks — for the affected districts received from
the Sanitary Commissioners for the four months
ending with Sept. 1897.

BLACK PAPERS.

GO.	No.	Particulars	Date	GO.	No.	Particulars	Date

WHITE PAPERS.

GO.	No.	Particulars	Date	GO.	No.	Particulars	Date
Go.	1610/98						

REVENUE DEPARTMENT.

1897.

Current No. 142.

Board of Revenue

(Revenue Settlement, Land Records and Agriculture),

MADRAS.

Recd.

Regd.

1898.

Enclosures

Spare copies

Printed January 1898.

Proceedings, No. 747, 18th December 1897.

DECEMBER.

Special Death-rate Returns.—Submitting, with remarks, for the information of Government, — for the affected districts, received from the Sanitary Commissioner for the four months ending with September 1897.

27-1-98
To the Board of Revenue, Secy. (Genl).
a L. Secy. Secy.
11-1-98
50/3

PROCEEDINGS OF THE BOARD OF REVENUE
(REVENUE SETTLEMENT, LAND RECORDS AND AGRICULTURE).

W. J. H. LEFANU, Esq.
(Famine Commissioner).

READ—again the following Memorandum of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 6961, dated 27th August 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 16th August 1897, No. 1671-S.:—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the special death-rate return called for by the Government of India for the month of June 1897. The return from Ganjam for the month under reference has not yet been received in this office. On receipt thereof a supplemental statement will be rendered.

2. The rates have already been communicated to the Government of India by wire.

ENCLOSURE.

SPECIAL death-rate return for the famine-affected districts for June 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Vizagapatam	26.9	33.6	20.7	19.7	..
Bhadrachalam	68.1	61.1	80.8	30.0	..
Kurnool	22.0	19.5	22.0	21.0	..
Cuddapah	18.7	17.8	16.2	15.8	..
Bellary	27.3	23.3	25.5	24.4	..
Anantapur	19.9	18.6	20.0	18.6	..

* Vizagapatam.—The rates have not been calculated on the estimated population, as it has been found not possible to estimate population correctly owing to the fluctuations in the population for which returns were received from this district. Again the average death-rates are given for five years instead of ten years, as the populations for which returns were received are not available from 1892 to 1895.

Memorandum—Mis. No. 6961, dated 27th August 1897.

The Sanitary Commissioner is requested to state whether the figure 33.6 given in the statement forwarded with his letter, No. 1671-S., dated the 16th instant, as the death-rate of the month per mille per annum for the Vizagapatam district calculated on the estimated population is correct.

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Sanitary Commissioner.

READ—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 7625, dated 15th September 1897:—

Read—Memorandum of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 6961, dated 27th August 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 1st September 1897, No. 1784-S.:—

With reference to your Memorandum, Mis. No. 6961, dated 27th instant, I have the honour to state that the figure 33.6 under reference is correct. This figure was arrived at by calculating the death-rate of Vizagapatam district on the Census population for which return was received for June 1897.

Resolution—Mis. No. 7625, dated 15th September 1897.

Recorded.

2. It is understood that, in the case of the figures for the Vizagapatam district, column 3 of the mortality statement read in the first paper read above gives the actual death-rate of the month calculated on the Census population of the villages from which returns were received during the month, and that columns 4 and 5 give the average death-rates calculated on the Census population of the villages for which returns were received for the month in question in the year for which the averages are struck. If this be the case, the averages must be misleading, as the villages for which returns are received for any given month will, if incomplete, vary from year to year. The Sanitary Commissioner will be requested to state whether, under the circumstances, the comparison of the actual death-rates with the averages is of any value.

(True Copy and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Sanitary Commissioner.

READ—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 8427, dated 15th October 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 8th September 1897, No. 1828-S.:—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the special death-rate return

called for by the Government of India for the month of July 1897. The return from Ganjām for the month under reference has not yet been received in this office. On receipt thereof a supplemental statement will be rendered.

2. The rates have been communicated to the Government of India by wire.

ENCLOSURE.

SPECIAL death-rate return for the famine-affected districts for July 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Vizagapatam	34.9	• 48.0	• 23.2	• 22.6	..
Bhadrachalam	40.4	36.2	28.0	27.4	..
Kurnool	34.6	30.7	27.3	23.3	..
Cuddapah	20.6	19.0	20.1	17.8	..
Bellary	41.7	35.5	28.5	25.6	..
Anantapur	24.7	22.0	24.1	20.6	..

* The rates have been calculated on the census population for which returns were received, as it has not been found possible to estimate the population correctly owing to the fluctuations in the populations for which returns were received from this district. Again the average rate of five years instead of ten is given, as the populations for which returns were received are not available from 1892 to 1895.

Resolution—Mis. No. 8427, dated 15th October 1897.

Recorded, pending receipt of reply to Board's Proceedings, Mis. No. 7625, dated 15th September 1897.

(True Copy and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

Read—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 8861, dated 3rd November 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 21st October 1897, No. 2144-S:—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the special death-rate return called for by the Government of India for the month of August 1897, with statements showing in detail the causation of mortality in such of the districts as have exhibited a large increase over the average.

2. The rates have been communicated to the Government of India.

ENCLOSURES.

SPECIAL death-rate return for the famine-affected districts for August 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Ganjám *	54.8	..	23.6	20.9	..
Vizagapatam *	40.8	..	20.2	20.5	..
Bhadrachalam	35.7	31.9	27.1	27.1	..
Kurnool	50.4	44.7	30.3	24.3	..
Cuddapah	24.6	22.6	22.9	19.8	..
Bellary	54.6	46.4	27.3	23.6	..
Anantapur	24.7	22.8	24.4	20.5	..

* The rates have been calculated on the census population for which returns were received, as it has not been found possible to estimate the population correctly owing to the fluctuations in the populations for which returns were received from these districts. Again the average rate of five years instead of ten is given, as the populations for which returns were received are not available from 1892 to 1895.

GANJĀM District—August 1897.

Years.	Average population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	All other causes.
1888	9,73,453	1,572	19.4	174	164	949	39	246	11.1	10.4	60.4	2.5	15.6
1889	9,77,692	3,882	47.6	701	170	2,037	70	904	18.0	4.4	52.5	1.8	23.3
1890	1,346,896	1,558	18.9	7	25	1,169	33	324	0.5	1.6	75.0	2.1	20.8
1891	1,376,420	1,532	13.3	1	8	1,158	48	317	0.1	0.5	75.6	3.1	20.7
1892	1,896,400	2,954	18.7	145	34	2,077	110	588	4.9	1.2	70.3	3.7	19.9
1893	1,896,400	1,786	11.3	4	19	1,291	68	404	0.2	1.1	72.3	3.8	22.6
1894	1,896,400	2,411	15.2	..	30	1,841	112	428	..	1.2	76.4	4.6	17.8
1895	1,896,400	2,590	16.4	15	22	1,966	133	454	0.6	0.8	75.9	5.1	17.6
1896	1,351,897	2,897	25.7	367	73	1,879	131	447	12.7	2.5	64.9	4.5	15.4
1897	1,104,759	5,051	54.8	1,151	732	2,327	340	501	22.8	14.5	46.1	6.7	9.9

VIZAGAPATAM District—August 1897.

Years.	Average population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	All other causes.
1888	1,232,631	1,127	10.9	11	1	929	32	154	1.0	0.1	82.4	2.8	13.7
1889	1,390,887	4,101	35.4	734	36	2,895	110	326	17.9	0.9	70.6	2.7	7.9
1890	1,493,909	2,162	17.4	..	33	1,836	45	248	..	1.5	84.9	2.1	11.5
1891	1,455,806	2,131	17.6	12	26	1,746	83	264	0.6	1.2	81.9	3.9	12.4
1892	1,942,195	4,080	25.2	366	134	2,953	199	428	8.9	3.3	72.4	4.9	10.6
1893	1,942,195	2,258	13.9	..	80	1,791	80	304	..	3.5	79.4	3.6	13.5
1894	1,942,195	3,098	19.1	..	20	2,659	102	317	..	0.7	85.8	3.3	10.2
1895	1,617,702	3,775	28.0	..	33	3,303	154	285	..	0.9	87.5	4.1	7.5
1896	1,737,035	2,611	18.0	70	34	2,132	104	271	2.7	1.3	81.6	4.0	10.4
1897	1,463,238	4,978	40.8	595	41	3,739	159	444	12.0	0.8	75.1	3.2	8.9

KURNOOL District—August 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.
1888	780,524	1,765	27.1	50	142	1,192	39	842	2.8	8.0	67.6	2.2	19.4
1889	795,232	1,818	27.4	27	70	1,310	71	840	1.5	3.8	72.1	3.9	18.7
1890	810,216	1,639	24.3	17	23	1,164	28	403	1.0	1.4	71.3	1.7	24.6
1891	825,481	3,359	48.8	1,456	25	1,358	137	383	43.3	0.8	40.4	4.1	11.4
1892	841,033	4,097	58.4	1,724	21	1,789	80	433	42.1	0.5	43.7	1.9	11.4
1893	856,881	1,579	22.1	..	13	1,200	19	317	..	0.8	76.0	1.2	22.0
1894	873,026	1,569	21.5	51	23	1,158	31	308	3.2	1.5	73.7	2.0	19.6
1895	889,476	1,769	23.8	159	52	1,139	16	403	9.0	2.9	64.4	0.9	22.8
1896	906,236	1,826	21.2	379	88	1,032	37	810	20.8	2.1	58.5	2.0	18.6
1897	923,312	3,437	41.7	1,119	80	1,620	201	467	32.6	0.9	47.1	6.8	13.6

BELLARY District—August 1897.

Years.	Estimated population.	Total deaths.	Death rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.
1888	863,181	1,810	25.2	76	87	449	93	1,100	4.2	4.8	24.8	5.4	60.8
1889	882,198	2,362	32.1	240	124	577	111	1,310	10.2	5.2	24.4	4.7	55.5
1890	901,630	1,556	20.4	..	21	413	61	1,061	..	1.4	26.5	3.9	68.2
1891	921,491	3,029	39.4	958	22	633	95	1,321	31.8	0.7	20.9	3.2	43.6
1892	941,800	3,086	39.3	690	35	921	182	1,258	22.4	1.1	29.8	5.9	46.8
1893	962,549	1,613	20.1	..	53	697	91	772	..	3.3	43.2	5.6	47.9
1894	983,753	1,743	21.3	1	63	762	71	846	0.1	3.6	43.7	4.1	48.5
1895	1,005,425	2,129	25.4	460	36	659	87	887	21.6	1.7	30.9	4.1	41.7
1896	1,027,588	2,041	23.8	474	12	618	79	858	23.2	0.6	30.3	3.9	42.0
1897	1,050,221	4,060	46.4	1,638	37	1,205	375	1,405	25.6	0.9	29.7	9.2	34.6

Resolution—Mis. No. 8861, dated 3rd November 1897.

Recorded.

2. The Sanitary Commissioner is requested to send an early reply to Board's Proceedings, Mis. No. 7625, dated the 15th September 1897.

(True Copy and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Sanitary Commissioner.

READ—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Secretary to the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated Fort St. George, 26th November 1897, No. 2417-S. :—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the death-rates for the famine-affected districts for the month of September 1897 as compared with the average of the ten previous non-famine years. To enable an estimate to be formed as to the causation of mortality, I attach statements giving the necessary details in the case of those districts which have shown a large increase over the average.

2. The rates have been communicated to the Government of India.

ENCLOSURES.

SPECIAL death-rate return for the famine-affected districts for September 1897.

1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Ganjām	• 42.1	..	• 21.6	• 20.6	..
Vizagapatam	• 40.0	..	• 22.6	• 22.3	..
Bhadrachalam	26.5	23.7	36.4	35.4	..
Kurnool	59.2	52.4	25.1	23.0	..
Cuddapah	36.0	33.1	22.8	20.9	..
Bellary	48.6	41.2	23.2	20.8	..
Anantapur	48.8	45.1	19.9	18.4	..

* The rates have been calculated on the Census population for which returns were received as it has not been found possible to estimate the populations correctly owing to the fluctuations in the populations for which returns were received from this district. Again the average death-rate of five years instead of ten is given, as the populations for which returns were received are not available from 1892-95.

CAUSATION statement of Ganjām district for September 1897.

Years.	Population for which returns were received.	Total deaths.	Death-rate per mille of population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888	973,453	1,725	21.3	117	161	1,090	63	294	6.8	9.3	63.2	3.7	17.0
1889	977,692	2,468	30.3	54	76	1,743	63	532	2.2	3.1	70.6	2.5	21.6
1890	1,346,896	1,558	18.9	..	34	1,148	43	333	..	2.2	73.7	2.8	21.3
1891	1,376,420	1,808	15.8	1	10	1,361	42	394	0.1	0.5	75.3	2.3	21.8
1892	1,896,400	2,316	14.6	16	20	1,731	105	444	0.7	0.9	74.7	4.5	19.2
1893	1,896,400	1,840	11.6	..	27	1,346	60	407	..	1.5	73.1	3.3	22.1
1894	1,896,400	2,306	14.6	..	23	1,791	94	398	..	1.0	77.6	4.1	17.3
1895	1,896,400	2,674	16.9	22	36	2,057	135	424	0.8	1.4	76.9	5.0	15.9
1896	1,328,833	2,904	26.2	481	98	1,797	111	417	16.6	3.4	61.9	3.8	14.3
1897	1,072,462	3,764	42.1	402	470	2,112	298	482	10.7	12.5	56.1	7.9	12.8

CAUSATION statement of Vizagapatam district for September 1897.

Years.	Population for which returns were received.	Total deaths.	Death-rate per mille of population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888	1,232,631	1,589	15.5	19	24	1,298	44	204	1.2	1.5	81.7	2.8	12.8
1889	1,390,887	3,634	31.3	84	50	3,175	73	252	2.3	1.4	87.4	2.0	6.9
1890	1,493,909	2,614	21.0	..	39	2,285	54	236	..	1.5	87.4	2.1	9.0
1891	1,455,856	2,549	21.0	4	33	2,156	57	299	0.2	1.3	84.6	2.2	11.7
1892	1,942,195	3,609	22.3	74	133	2,812	189	401	2.1	3.7	77.9	5.2	11.1
1893	1,942,195	2,341	14.5	..	58	1,865	92	326	..	2.5	79.7	3.9	13.9
1894	1,942,195	3,104	19.2	..	27	2,619	118	345	..	0.9	84.4	3.6	11.1
1895	1,680,077	3,979	28.4	..	12	3,508	114	345	..	0.3	88.1	2.9	8.7
1896	1,712,232	3,277	23.0	369	23	2,397	198	290	11.3	0.7	73.2	6.0	8.8
1897	1,555,530	5,190	40.0	479	31	4,022	290	368	9.2	0.6	77.5	5.6	7.1

CAUSATION statement of Kurnool district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888	751,739	1,535	23.6	..	83	1,102	19	331	..	5.4	71.8	1.2	21.6
1889	796,470	1,758	20.5	87	49	1,199	44	379	5.0	2.7	64.2	2.5	21.6
1890	811,477	1,812	20.8	92	35	1,228	43	414	5.0	1.9	67.8	2.4	22.9
1891	826,768	1,977	28.7	221	8	1,247	100	491	11.2	0.4	63.0	5.1	20.3
1892	812,343	2,630	37.6	403	22	1,724	59	422	15.3	0.9	65.0	2.2	16.0
1893	868,215	1,505	21.0	..	6	1,171	26	302	..	0.4	77.8	1.7	20.1
1894	874,385	1,558	21.4	95	29	1,077	84	323	6.1	1.9	69.1	2.2	20.7
1895	890,861	1,504	20.2	49	27	1,017	24	337	3.3	3.1	69.6	1.6	22.4
1896	907,647	1,511	20.0	181	51	972	9	298	12.0	3.4	64.3	0.6	19.7
1897	924,749	4,035	52.4	1,615	5	1,771	190	448	40.0	0.1	43.9	4.9	11.1

CAUSATION statement of Cuddapah district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888	1,233,513	2,271	22.1	332	73	1,374	77	415	14.6	3.2	60.5	3.4	18.3
1889	1,249,201	1,987	19.1	7	112	1,381	85	372	0.4	7.1	69.5	4.3	18.7
1890	1,265,090	2,769	26.3	719	84	1,549	120	297	25.9	3.0	56.0	4.3	10.8
1891	1,281,180	2,913	27.3	978	18	1,467	60	390	33.6	0.6	50.4	2.1	13.3
1892	1,297,785	3,139	29.2	570	37	2,011	98	443	18.0	1.2	63.7	3.1	14.0
1893	1,314,292	2,502	22.8	55	31	1,968	44	406	2.2	1.4	78.5	1.7	16.2
1894	1,331,009	2,243	20.2	102	21	1,797	43	280	4.6	0.9	80.1	1.9	12.6
1895	1,347,939	2,316	20.6	39	31	1,709	46	491	1.7	1.3	73.8	2.0	21.2
1896	1,365,083	1,968	17.3	145	24	1,298	38	459	7.4	1.4	65.9	2.0	23.3
1897	1,382,447	3,819	33.1	1,405	32	1,679	101	602	36.8	0.8	41.0	2.6	15.8

CAUSATION statement of Bellary district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888	864,749	1,613	22.4	50	75	421	79	988	3.1	4.7	26.1	4.9	61.2
1889	883,799	1,917	26.0	141	59	522	92	1,103	7.4	3.1	27.2	4.8	57.6
1890	903,268	1,378	18.3	..	24	358	68	924	..	2.0	26.0	5.0	67.0
1891	923,166	2,467	31.9	534	24	649	86	1,164	21.7	1.0	26.4	3.5	47.4
1892	943,512	2,311	29.4	251	17	780	172	1,091	10.9	0.7	33.8	7.4	47.2
1893	964,297	1,651	20.5	..	45	746	81	779	..	2.7	45.2	4.9	47.2
1894	985,541	1,629	18.6	1	40	676	63	749	0.1	2.0	44.4	4.1	49.0
1895	1,007,252	1,824	21.7	351	31	683	72	787	19.2	1.7	32.0	4.0	43.1
1896	1,029,442	1,599	18.6	170	7	641	51	830	10.6	0.5	33.8	3.2	51.9
1897	1,052,121	3,612	41.2	982	33	1,087	297	1,213	27.4	0.9	30.1	8.1	53.1

CAUSATION statement of Anantapur district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888	681,689	1,176	20.7	73	23	142	34	904	6.2	1.9	12.1	2.9	76.9
1889	692,691	1,198	20.7	50	47	163	39	899	4.2	3.9	13.6	3.3	75.0
1890	703,879	1,115	19.0	..	56	217	17	825	..	5.0	19.5	1.5	74.0
1891	715,248	1,401	23.5	341	6	177	25	852	24.3	0.4	12.7	1.8	60.8
1892	726,752	1,425	23.5	163	13	228	31	990	11.4	0.9	16.0	2.2	69.5
1893	738,490	977	15.9	..	8	183	28	758	..	0.8	14.7	2.9	77.6
1894	750,416	1,038	16.6	70	5	157	15	791	6.7	0.5	15.2	1.4	76.2
1895	762,536	1,046	16.4	33	38	169	29	777	3.1	3.6	16.2	2.8	74.3
1896	774,851	1,363	21.1	468	29	150	30	686	34.4	2.1	11.0	2.2	50.3
1897	787,366	2,961	45.1	1,669	8	292	70	922	56.4	0.3	9.8	2.4	31.1

READ—also the following letter from Surgeon-Lieutenant-Colonel W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary, Board of Revenue, dated Fort St. George, 13th December 1897, No. 2575-S. :—

With reference to B.P., Mis. No. 7625, dated 15th September 1897, I have the honour to state that in dealing with statistics relating to a population, especially when that population is subject to fluctuation, comparison by rates would be more accurate than by actuals. It may be that the method followed is not all that can be desired, but in the absence of complete information for a district as a whole it is considered the best obtainable in the circumstances.

RESOLUTION—No. 747, dated 18th December 1897.

The papers read above, which contain statistics showing the rate of mortality in each of the affected districts of the Presidency for the four months ending with September last, will be submitted for the information of Government. The delay in their submission is mainly due to the non-receipt, until the 14th instant, of the Sanitary Commissioner's reply to a reference made to him in B.P., Mis. No. 7625, dated 15th September 1897.

2. The death-rates for all districts except Ganjam and Vizagapatam have been calculated by the Sanitary Commissioner on their population according to the last Census, as well as on their annual population estimated with reference to the normal rate of increase. In the case of Ganjam and Vizagapatam, however, it has not been possible to estimate the population in the latter manner, as the tracts for which returns were received were never identical, but varied from month to month; and for these districts, the Census population of the area concerned has alone been adopted. This constant fluctuation in the reporting area, and consequently in the population, is likely to vitiate all comparison between the death-rate for any particular month of the likely to vitiate all comparison between the death-rate for any particular month of the current year, and the rate for the corresponding month based on the average of preceding years. Regarding the utility of this method of comparison, the Sanitary Commissioner observes, in his last letter read at the head of these Proceedings, that it is not all that could be desired, but in the absence of complete information for a district as a whole, it is the best that can be obtained.

10 BOARD OF REVENUE (REV. SETT., L. RDS. AND AGRI.), No. 747, 18TH DEC. 1897.

3. The statistics show that the death-rate was at its highest, in the Deccan districts, in August and September. This was chiefly due to the prevalence of cholera in a virulent form, the mortality from this cause in September being two-fifths of the total mortality in Kurnool and over one-half in Anantapur.

(True Copies and Extracts.)

Famine Secretary.

To the Secretary to Government, Revenue Department. ✓
„ Sanitary Commissioner.
„ Collectors of affected districts.

Government {1898} of Madras. REVENUE.

Recd.

Regd.

} 1898.

Enclosures

Spare copies

G.O.; No. 36, 17th January 1898.

JANUARY.

Special Death-rate Returns.

Recording Board's Proceedings submitting, with remarks, — for the affected districts received from the Sanitary Commissioner for the four months ending with September 1897.

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

Read—the following Proceedings of the Board of Revenue (Revenue Settlement, Land Records and Agriculture), No. 747, dated 18th December 1897:—

W. J. H. LEFANU, Esq.
(Famine Commissioner).

Read—again the following Memorandum of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 6961, dated 27th August 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 16th August 1897, No. 1671-S.:—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the special death-rate return called for by the Government of India for the month of June 1897. The return from Ganjam for the month under reference has not yet been received in this office. On receipt thereof a supplemental statement will be rendered.

2. The rates have already been communicated to the Government of India by wire.

ENCLOSURE.

SPECIAL death-rate return for the famine-affected districts for June 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Vizagapatam	23.9	• 33.6	• 20.7	• 19.7	..
Bhadrachalam	63.1	61.1	80.8	30.0	..
Kurnool	22.0	19.5	22.0	21.0	..
Cuddapah	18.7	17.8	16.2	15.8	..
Bellary	27.3	23.3	25.5	24.4	..
Anantapur	19.9	18.5	20.0	18.5	..

* Vizagapatam.—The rates have not been calculated on the estimated population, as it has been found not possible to estimate population correctly owing to the fluctuations in the population for which returns were received from this district. Again the average death-rates are given for five years instead of ten years, as the populations for which returns were received are not available from 1892 to 1895.

Memorandum—Mis. No. 6961, dated 27th August 1897.

The Sanitary Commissioner is requested to state whether the figure 33.6 given in the statement forwarded with his letter, No. 1671-S., dated the 16th instant, as the death-rate of the month per mille per annum for the Vizagapatam district calculated on the estimated population is correct.

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Sanitary Commissioner.

Read—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 7625, dated 15th September 1897:—

Read—Memorandum of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 6961, dated 27th August 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 1st September 1897, No. 1784-S.:—

With reference to your Memorandum, Mis. No. 6961, dated 27th instant, I have the honour to state that the figure 33.6 under reference is correct. This figure was arrived at by calculating the death-rate of Vizagapatam district on the Census population for which return was received for June 1897.

Resolution—Mis. No. 7625, dated 15th September 1897.

Recorded.

2. It is understood that, in the case of the figures for the Vizagapatam district, column 3 of the mortality statement read in the first paper read above gives the actual death-rate of the month calculated on the Census population of the villages from which returns were received during the month, and that columns 4 and 5 give the average death-rates calculated on the Census population of the villages for which returns were received for the month in question in the year for which the averages are struck. If this be the case, the averages must be misleading, as the villages for which returns are received for any given month will, if incomplete, vary from year to year. The Sanitary Commissioner will be requested to state whether, under the circumstances, the comparison of the actual death-rates with the averages is of any value.

(True Copy and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Sanitary Commissioner.

Read—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 8427, dated 15th October 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 8th September 1897, No. 1828-S.:—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the special death-rate return

called for by the Government of India for the month of July 1897. The return from Ganjam for the month under reference has not yet been received in this office. On receipt thereof a supplemental statement will be rendered.

2. The rates have been communicated to the Government of India by wire.

ENCLOSURE.

SPECIAL death-rate return for the famine-affected districts for July 1897.

Districts for July 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Vizagapatam	34.9	48.0	23.2	22.6	..
Bhadrachalam	40.4	36.2	28.0	27.4	..
Kurnool	31.6	30.7	27.3	23.3	..
Cuddapah	20.6	19.0	20.1	17.8	..
Bellary	41.7	35.5	28.5	25.6	..
Anantapur	24.7	22.9	24.1	20.6	..

* The rates have been calculated on the census population for which returns were received, as it has not been found possible to estimate the population correctly owing to the fluctuations in the populations for which returns were received from this district. Again the average rate of five years instead of ten is given, as the populations for which returns were received are not available from 1892 to 1895.

Resolution—Mis. No. 8427, dated 15th October 1897.

Recorded, pending receipt of reply to Board's Proceedings, Mis. No. 7625, dated 15th September 1897.

(True Copy and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

Read—again the following Proceedings of the Board of Revenue (R.S., L.R. and Agri.), Mis. No. 8861, dated 3rd November 1897:—

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary to the Board of Revenue, dated Fort St. George, 21st October 1897, No. 2144-S:—

With reference to the Proceedings of the Board of Revenue, Mis. No. 2402, dated 30th March 1897, I have the honour to forward herewith the special death-rate statements showing in detail the causation of mortality in such of the districts as have exhibited a large increase over the average.

2. The rates have been communicated to the Government of India.

ENCLOSURES.

SPECIAL death-rate return for the famine-affected districts for August 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Ganjám *	54.8	..	23.6	20.9	..
Vizagapatam *	40.8	..	20.2	20.5	..
Bhadráchalám	35.7	31.9	27.1	27.1	..
Kurnool	50.4	44.7	30.3	24.3	..
Cuddapah	24.6	22.6	22.9	19.8	..
Bellary	54.6	46.4	27.3	23.6	..
Anantapur	24.7	22.8	24.4	20.5	..

* The rates have been calculated on the census population for which returns were received, as it has not been found possible to estimate the population correctly owing to the fluctuations in the populations for which returns were received from these districts. Again the average rate of five years instead of ten is given, as the populations for which returns were received are not available from 1892 to 1895.

GANJAM District—August 1897.

Years.	Average population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.
1888	9,73,453	1,572	19.4	174	164	949	39	246	11.1	10.4	60.4	2.5	15.6
1889	9,77,692	3,882	47.6	701	170	2,037	70	904	18.0	4.4	52.5	1.8	23.3
1890	1,346,896	1,558	13.9	7	25	1,169	33	324	0.6	1.6	75.0	2.1	20.8
1891	1,376,420	1,532	13.3	1	8	1,158	48	317	0.1	0.5	75.6	3.1	20.7
1892	1,896,400	2,954	18.7	145	34	2,077	110	588	4.9	1.2	70.3	3.7	19.9
1893	1,896,400	1,786	11.3	4	19	1,291	68	404	0.2	1.1	72.3	3.8	22.6
1894	1,896,400	2,411	15.2	..	30	1,841	112	428	..	1.2	76.4	4.6	17.8
1895	1,896,400	2,590	16.4	15	22	1,966	133	454	0.6	0.8	75.9	5.1	17.6
1896	1,351,897	2,897	25.7	367	73	1,879	131	447	12.7	2.5	64.9	4.5	15.4
1897	1,104,759	5,051	54.8	1,151	732	2,327	340	501	22.8	14.5	46.1	6.7	9.9

VIZAGAPATAM District—August 1897.

Years.	Average population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.
1888	1,232,631	1,127	10.9	11	1	929	32	154	1.0	0.1	82.4	2.8	13.7
1889	1,390,887	4,101	35.4	734	36	2,895	110	326	17.9	0.9	70.6	2.7	7.9
1890	1,493,909	2,162	17.4	..	33	1,836	45	248	..	1.5	84.9	2.1	11.5
1891	1,455,806	2,131	17.6	12	26	1,746	83	264	0.6	1.2	81.9	3.9	12.4
1892	1,942,195	4,080	25.2	366	134	2,953	199	428	8.9	3.3	72.4	4.9	10.5
1893	1,942,195	2,258	13.9	..	80	1,794	80	304	..	3.5	79.4	3.6	13.5
1894	1,942,195	3,098	19.1	..	20	2,659	102	317	..	0.7	85.8	3.3	10.2
1895	1,617,702	3,775	28.0	..	33	3,303	154	285	..	0.9	87.5	4.1	7.5
1896	1,737,035	2,611	18.0	70	34	2,132	104	271	2.7	1.3	81.6	4.0	10.4
1897	1,463,238	4,978	40.8	595	41	3,739	159	414	12.0	0.8	75.1	3.2	8.9

KURNOOL District—August 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.
1888 ..	780,524	1,765	27.1	60	142	1,102	39	342	2.8	8.0	67.6	2.2	19.4
1889 ..	795,232	1,818	27.4	27	70	1,310	71	340	1.5	8.8	72.1	8.9	18.7
1890 ..	810,210	1,639	24.3	17	23	1,168	28	403	1.0	1.4	71.3	1.7	24.6
1891 ..	825,483	3,359	48.8	1,450	25	1,358	137	383	43.8	0.8	40.1	4.1	11.4
1892 ..	841,033	4,097	58.4	1,724	21	1,789	80	433	42.1	0.5	43.7	1.9	11.8
1893 ..	856,881	1,579	22.1	..	13	1,200	19	317	..	0.8	70.0	1.2	22.0
1894 ..	873,026	1,569	21.5	51	23	1,158	31	308	3.2	1.5	73.7	2.0	19.6
1895 ..	889,476	1,769	23.8	150	52	1,139	18	403	9.0	2.9	64.4	0.9	22.8
1896 ..	906,236	1,825	24.2	379	38	1,032	37	340	20.8	2.1	56.5	2.0	18.6
1897 ..	923,312	3,437	41.7	1,119	80	1,620	201	467	32.0	0.9	47.1	5.8	13.6

BELLARY District—August 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of population.	Number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	All other causes.
1888 ..	863,181	1,810	25.2	76	87	449	99	1,100	4.2	4.8	24.8	5.4	60.8
1889 ..	882,198	2,302	32.1	240	124	577	111	1,310	10.2	5.2	24.4	4.7	55.5
1890 ..	901,630	1,556	20.4	..	21	413	61	1,061	..	1.4	26.5	3.9	68.2
1891 ..	921,491	3,029	39.4	958	22	633	95	1,321	31.8	0.7	20.9	3.2	43.6
1892 ..	941,800	3,086	39.3	690	35	921	182	1,258	22.4	1.1	29.8	5.0	46.8
1893 ..	962,548	1,613	20.1	..	53	697	91	772	..	3.3	43.2	5.6	47.9
1894 ..	983,753	1,743	21.3	1	63	762	71	816	0.1	3.6	43.7	4.1	48.5
1895 ..	1,005,425	2,129	25.4	460	36	659	87	887	21.6	1.7	30.9	4.1	41.7
1896 ..	1,027,688	2,041	23.8	474	12	619	79	858	23.2	0.6	30.3	3.9	42.0
1897 ..	1,050,221	4,060	46.4	1,038	37	1,203	375	1,405	25.6	0.9	29.7	9.2	34.6

Resolution—Mis. No. 8861, dated 3rd November 1897.
Recorded.

2. The Sanitary Commissioner is requested to send an early reply to Board's Proceedings, Mis. No. 7625, dated the 15th September 1897.

(True Copy and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Sanitary Commissioner.

Read—the following letter from Surgeon-Lieut.-Col. W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Secretary to the Board of Revenue (Revenue Settlement, Land Records and Agriculture), dated Fort St. George, 26th November 1897, No. 2417-S.:

With reference to the Proceedings of the Board of Revenue, Mis. No. 2102, dated 30th March 1897, I have the honour to forward herewith the death-rates for the famine-affected districts for the month of September 1897 as compared with the average of the ten previous non-famine years. To enable an estimate to be formed as to the causation of mortality, I attach statements giving the necessary details in the case of those districts which have shown a large increase over the average.

2. The rates have been communicated to the Government of India.

ENCLOSURES.

SPECIAL death-rate return for the famine-affected districts for September 1897.

Districts.	Calculated on the Census population.	Calculated on the estimated population.			Deaths from starvation.
	Death-rate of the month per mille per annum.	Death-rate of the month per mille per annum.	Average death-rate of the month per mille per annum during ten previous years.	Average death-rate of the month per mille per annum during ten previous non-famine years.	
Ganjām	• 42.1	..	• 21.6	• 20.6	..
Vizagapatam	• 40.0	..	• 22.6	• 22.3	..
Bhadrachalam	26.5	23.7	36.4	35.4	..
Kurnool	59.2	52.4	25.1	23.0	..
Cuddapah	36.0	33.1	22.8	20.9	..
Hollary	48.6	41.2	23.2	20.8	..
Anantapur	48.8	45.1	19.9	18.4	..

* The rates have been calculated on the Census population for which returns were received as it has not been found possible to estimate the populations correctly owing to the fluctuations in the populations for which returns were received from this district. Again the average death-rate of five years instead of ten is given, as the populations for which returns were received are not available from 1892-95.

CAUSATION statement of Ganjām district for September 1897.

Years.	Population for which returns were received.	Total deaths.	Death-rate per mille of population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888 ..	973,453	1,725	21.3	117	161	1,090	63	294	6.8	9.3	63.2	3.7	17.0
1889 ..	977,692	2,468	30.3	54	76	1,743	63	532	2.2	3.1	70.6	2.5	21.6
1890 ..	1,346,896	1,558	18.9	..	34	1,148	43	333	..	2.2	73.7	2.8	21.3
1891 ..	1,376,420	1,808	15.8	..	10	1,361	42	394	0.1	0.5	75.3	2.3	21.8
1892 ..	1,731	1,731	14.6	16	20	1,791	105	444	0.7	0.9	74.7	4.6	19.2
1893 ..	1,896,400	1,840	11.6	..	27	1,346	60	407	..	1.5	73.1	3.3	22.1
1894 ..	1,896,400	2,306	14.6	..	23	1,791	94	398	..	1.0	77.6	4.1	17.3
1895 ..	1,896,400	2,674	16.9	22	36	2,057	135	424	0.8	1.4	76.9	5.0	15.9
1896 ..	1,328,813	2,904	26.2	481	98	1,797	111	417	16.6	3.4	61.9	8.8	14.3
1897 ..	1,072,462	3,764	42.1	402	470	2,112	298	482	10.7	12.5	56.1	7.9	12.8

CAUSATION statement of Vizagapatam district for September 1897.

Years.	Population for which returns were received.	Total deaths.	Death-rate per mille of population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fever.	Dysentery and diarrhoea.	Other causes.
1888 ..	1,232,631	1,589	15.5	19	24	1,298	44	204	1.2	1.5	81.7	2.8	12.6
1889 ..	1,390,887	3,634	31.3	84	50	3,175	73	252	2.3	1.4	87.4	2.0	6.9
1890 ..	1,493,909	2,614	21.0	..	39	2,285	54	236	..	1.5	87.4	2.1	9.0
1891 ..	1,455,856	2,549	21.0	4	33	2,156	57	299	0.2	1.3	84.6	2.2	11.7
1892 ..	1,942,195	3,609	22.3	74	133	2,812	189	401	2.1	3.7	77.9	5.2	11.1
1893 ..	1,942,195	2,341	14.5	..	58	1,865	92	326	..	2.5	79.7	3.9	13.9
1894 ..	1,942,195	3,104	19.2	..	27	2,619	113	345	..	0.9	84.4	3.6	11.1
1895 ..	1,680,077	3,979	28.4	..	12	3,508	114	345	..	0.3	88.1	2.9	8.7
1896 ..	1,712,232	3,277	23.0	369	23	2,397	198	290	11.3	0.7	73.2	6.0	8.8
1897 ..	1,555,530	5,190	40.0	479	31	4,022	290	368	9.2	0.6	77.5	5.6	7.1

CAUSATION statement of Kurnool district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.
1888	781,739	1,535	23.5	..	83	1,102	19	331	..	5.4	71.8	1.2	21.6
1889	798,470	1,758	26.5	87	49	1,199	44	379	..	2.7	68.2	2.5	21.6
1890	811,477	1,812	26.8	92	35	1,228	43	414	5.0	1.5	67.8	2.4	22.9
1891	826,768	1,977	28.7	221	8	1,247	100	401	11.2	0.4	63.0	5.1	20.3
1892	842,343	2,630	37.6	403	22	1,724	59	422	15.8	0.9	65.6	2.2	16.0
1893	858,215	1,505	21.0	..	6	1,171	26	302	..	0.4	77.8	1.7	20.1
1894	874,385	1,558	21.4	95	29	1,077	84	323	6.1	1.9	69.1	2.2	20.7
1895	890,861	1,504	20.2	49	47	1,047	24	337	3.8	3.1	69.6	1.6	22.4
1896	907,647	1,511	20.0	181	51	972	9	298	12.0	3.4	64.3	0.6	19.7
1897	924,749	4,035	52.4	1,615	6	1,771	196	448	40.0	0.1	43.9	4.9	11.1

CAUSATION statement of Cuddapah district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.
1888	1,233,513	2,271	22.1	332	73	1,374	77	415	14.6	3.2	60.5	3.4	18.3
1889	1,249,201	1,987	19.1	7	142	1,381	85	372	0.4	7.1	69.5	4.3	18.7
1890	1,265,090	2,769	26.3	719	84	1,549	120	297	25.9	3.0	56.0	4.3	10.8
1891	1,281,180	2,913	27.3	978	18	1,467	60	390	33.6	0.6	50.4	2.1	13.3
1892	1,297,785	3,159	29.2	570	37	2,011	98	443	18.0	1.2	63.7	3.1	14.0
1893	1,314,292	2,502	22.8	65	31	1,966	44	406	2.2	1.4	78.5	1.7	16.2
1894	1,331,009	2,243	20.2	102	21	1,797	43	280	4.6	0.9	80.1	1.9	12.5
1895	1,347,939	2,316	20.6	39	31	1,709	46	491	1.7	1.3	73.8	2.0	21.2
1896	1,365,083	1,968	17.3	145	28	1,298	38	459	7.4	1.4	65.9	2.0	23.3
1897	1,382,447	3,819	33.1	1,405	32	1,679	101	602	36.8	0.8	44.0	2.4	15.8

CAUSATION statement of Bellary district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.
1888	864,749	1,613	22.4	50	75	421	79	988	3.1	4.7	26.1	4.9	61.2
1889	883,799	1,917	26.0	141	59	522	93	1,103	7.4	3.1	27.2	4.8	57.5
1890	903,288	1,378	18.3	..	28	358	68	924	..	2.0	28.0	5.0	67.0
1891	923,168	2,457	31.9	534	24	649	86	1,164	21.7	1.0	26.4	3.5	47.4
1892	943,512	2,311	29.4	251	17	780	172	1,091	10.9	0.7	33.8	7.4	47.2
1893	964,297	1,651	20.5	..	45	746	81	779	..	2.7	45.2	4.9	47.2
1894	985,541	1,529	18.6	..	40	676	63	740	0.1	2.6	44.2	4.1	49.0
1895	1,007,252	1,824	21.7	351	81	583	72	787	19.2	1.7	32.0	4.0	43.1
1896	1,029,442	1,599	18.6	170	7	641	51	830	10.6	0.5	33.8	3.2	51.9
1897	1,052,121	3,612	41.2	982	33	1,087	207	1,213	27.4	0.9	30.1	8.1	53.1

CAUSATION statement of Anantapur district for September 1897.

Years.	Estimated population.	Total deaths.	Death-rate per mille of estimated population.	Actual number of deaths under each of the principal causes.					Percentage of total deaths.				
				Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.	Cholera.	Small-pox.	Fevers.	Dysentery and diarrhoea.	Other causes.
1888	681,680	1,176	20.7	78	23	142	34	904	6.2	1.9	12.1	2.9	76.9
1889	692,891	1,198	20.7	50	47	163	39	899	4.2	3.9	13.6	3.3	75.0
1890	703,879	1,115	19.0	..	56	217	17	825	..	5.0	19.6	1.5	74.0
1891	715,248	1,401	23.5	341	6	177	25	852	24.3	0.4	12.7	1.8	60.8
1892	726,752	1,425	23.5	163	13	228	31	990	11.4	0.9	16.0	2.2	69.5
1893	738,490	977	15.9	..	8	183	28	758	..	0.8	18.7	2.9	77.6
1894	750,416	1,038	16.8	70	5	157	15	791	6.7	0.5	15.2	1.4	76.2
1895	762,536	1,046	16.4	33	38	169	29	777	3.1	3.6	16.2	2.8	74.3
1896	774,851	1,363	21.1	468	29	150	30	686	34.4	2.1	11.0	2.2	50.3
1897	787,366	2,961	45.1	1,669	8	292	70	922	56.4	0.3	9.8	2.4	31.1

Read—also the following letter from Surgeon-Lieutenant-Colonel W. G. KING, M.B., C.M., D.P.H., Sanitary Commissioner for Madras, to the Famine Secretary, Board of Revenue, dated Fort St. George, 13th December 1897, No. 2575-S. :—

With reference to B.P., Mis. No. 7625, dated 15th September 1897, I have the honour to state that in dealing with statistics relating to a population, especially when that population is subject to fluctuation, comparison by rates would be more accurate than by actuals. It may be that the method followed is not all that can be desired, but in the absence of complete information for a district as a whole it is considered the best obtainable in the circumstances.

Resolution—No. 747, dated 18th December 1897.

The papers read above, which contain statistics showing the rate of mortality in each of the affected districts of the Presidency for the four months ending with September last, will be submitted for the information of Government. The delay in their submission is mainly due to the non receipt, until the 14th instant, of the Sanitary Commissioner's reply to a reference made to him in B.P., Mis. No. 7625, dated 15th September 1897.

2. The death-rates for all districts except Ganjam and Vizagapatam have been calculated by the Sanitary Commissioner on their population according to the last Census, as well as on their annual population estimated with reference to the normal rate of increase. In the case of Ganjam and Vizagapatam, however, it has not been possible to estimate the population in the latter manner, as the tracts for which returns were received were never identical, but varied from month to month; and for these districts, the Census population of the area concerned has alone been adopted. This constant fluctuation in the reporting area, and consequently in the population, is likely to vitiate all comparison between the death-rate for any particular month of the current year, and the rate for the corresponding month based on the average of preceding years. Regarding the utility of this method of comparison, the Sanitary Commissioner observes, in his last letter read at the head of these Proceedings, that it is not all that could be desired, but in the absence of complete information for a district as a whole, it is the best that can be obtained.

No. 36, REVENUE, 17TH JANUARY 1898.

3. The statistics show that the death-rate was at its highest, in the Deccan districts, in August and September. This was chiefly due to the prevalence of cholera in a virulent form, the mortality from this cause in September being two-fifths of the total mortality in Kurnool and over one-half in Anantapur.

(True Copies and Extract.)

(Signed) L. E. BUCKLEY,
Famine Secretary.

To the Secretary to Government, Revenue Department.
„ the Sanitary Commissioner.
„ the Collectors of affected districts.

ORDER—No. 36, Revenue, dated 17th January 1898.

Miscellaneous.

Recorded.

(True Extract.)

(Signed) G. S. FORBES,
Ag. Secretary to Government.

To the Board of Revenue (Revenue Settlement,
Land Records and Agriculture), (Famine).
„ the Local and Municipal Department.

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