

SUPPLEMENT
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VITAL STATISTICS OF TOWNS IN CEYLON IN THE
MONTH OF OCTOBER, 1916.

REPORT OF THE REGISTRAR-GENERAL.

THIS report deals with the Vital Statistics of the 33 principal towns in the Island proclaimed under sections 31-36 of the Ordinance No. 1 of 1895.

Births.

2. The births numbered 1,431 (735 males and 696 females), and were equal to an annual rate of 28·02 per 1,000 against 26·12 in the preceding month, 24·57 in the corresponding month of last year, and 27·82 the average of the corresponding months since 1908. The rate ranged from 10·22 in Nuwara Eliya to 120·40 in Kalmunai—an abnormally high rate for this town, against an average of 46·30.

3. In the city of Colombo the births numbered 489 (238 males and 251 females), and were equal to an annual rate* of 22·25 per 1,000, against 19·42 in the preceding month, 20·05 in the corresponding month of last year, and 23·77 the average of the corresponding months since 1908. The rate ranged from 14·28 in Kollupitiya to 35·28 in Wellawatta.

Deaths.

4. The total deaths registered during the month numbered 1,608 (871 males and 737 females). There were 1,282 deaths of residents, equivalent to an annual rate of 27·36 per 1,000, against 28·34 in the preceding month, 24·04 in the corresponding month of last year, and 27·73 the average for the month of October in each year since 1908. The rate ranged from 51·76 in Matale to 6·28 in Nuwara Eliya.

5. In the city of Colombo the deaths numbered 593 (329 males and 264 females). There were 530 deaths of residents, equivalent to an annual rate* of 27·98 per 1,000, against 26·84 in the preceding month, 25·71 in the corresponding month of last year, and 28·28 the average for the month of October in each year since 1908. The rate ranged from 34·70 in San Sebastian to 7·66 in Kollupitiya.

6. Stillbirths numbered 118 (74 males and 44 females), against 89 in the preceding month.

Infantile Mortality.

7. The infantile mortality was equal to a rate of 224 per 1,000 births registered during the year ended October 31, 1916. Reckoned on the births registered during the month only the rate was 212, against 250 in the preceding month, 221 in the corresponding month of last year, and 244 the average of the corresponding months since 1908.

8. In the city of Colombo the infantile mortality was 231 per 1,000 births registered during the year ended October 31, 1916. Taking only the births registered during the month the rate was 215, against 245 in the preceding month, 278 in the corresponding month of last year, and 286 the average of the corresponding months since 1908.

Causes of Death.

9. The highest mortality was from *Pneumonia*, to which 11 per cent. of the total deaths was due, 9 per cent. each were due to *Debility* and *Phthisis*, 8 per cent. to *Convulsions*, 7 per cent. to *Diarrhœa*, 4 per cent. each to *Anchylostomiasis* and *Dysentery*, 3 per cent. each to *Enteritis* and *Bronchitis*, 2 per cent. each to *Malaria*, *Bright's Disease* and *Nephritis*, *Malarial Cachexia*, *Puerperal Septicæmia*, and *Enteric Fever*, and 1 per cent. to *Tetanus*.

10. In the city of Colombo the highest mortality was from *Phthisis*, which caused 12 per cent. of the total number of deaths, 11 per cent. were due to *Pneumonia*, 9 per cent. to *Convulsions*, 6 per cent. to *Debility*, 5 per cent. to *Enteritis*, 4 per cent. to *Diarrhœa*, 3 per cent. to *Dysentery*, 2 per cent. each to *Bronchitis* and *Enteric Fever*, and 1 per cent. each to *Bright's Disease* and *Puerperal Septicæmia*. Twenty-one deaths from *Plague* were registered in the city, the same as in the preceding month, against 23 in the corresponding month of last year.

11. *Infectious Diseases reported*.—The most prevalent infectious disease during the month was *Measles*, of which 239 cases were reported (150 in Colombo, 48 in Trincomalee, 21 in Anuradhapura, 9 in Kandy), followed by *Phthisis* 95 (74 in Colombo, 8 in Galle), *Enteric Fever* 53 (32 in Colombo, 6 each in Moratuwa and Galle), *Chickenpox* 50 (17 in Colombo, 9 in Kandy, 6 in Nuwara Eliya, 6 in Jaffna), *Plague* 25 (in Colombo), *Continued Fever* 17 (7 in Colombo, 5 in Moratuwa), *Dysentery* 10 (9 in Moratuwa), *Mumps* 5 (3 in Colombo and 2 in Kandy), *Whooping Cough* 2 (1 in Kandy and 1 in Batticaloa), and *Smallpox* 2 (in Jaffna).

Meteorology.

12. *Rainfall*.—Ratnapura recorded the highest rainfall (14·35 inches), followed by Galle (12·64 inches). In the other towns the rainfall ranged from 12·56 inches in Hatton and Dikoya to 1·51 inches in Hambantota. Colombo recorded 3·25 inches.

13. *Temperature*.—The mean temperature varied from 60·2° in Nuwara Eliya to 83·3° in Trincomalee, and was 80·3° in Colombo.

14. For detailed statistics, see Tables I. and II. for all towns, and Tables III. and IV. for the city of Colombo, in the Appendix.

Registrar-General's Office,
Colombo, November 22, 1916.

W. L. KINDERSLEY,
Registrar-General.

* The city-rate is worked differently from the ward-rates, and takes into account hospital events, &c., not assignable to wards.

Table I.—Number of Births and Deaths registered during October, 1916, their Proportion per 1,000 of the Population per Annum, and the Stillbirths and the Deaths of Children under One Year and their Proportion per 1,000 Registered Births, together with the Average Birth- and Death-rates in the corresponding months since 1908, and the Mean Temperature and Rainfall in the Month in each Town of the Island proclaimed under Sections 31-36 of the Ordinance No. 1 of 1895.

Provinces and Towns.	Population of the Census at the Census of March 10, 1911.	Population of the Military Districts in the Middle of 1916 by Inter-censal Increase.		Total Births.		Total Deaths.		Total Stillbirths.			Deaths of Town and Resid. Dents.	Deaths of Non-Residents of Towns and Islands.	Birth-rate.		Death-rate excluding non-residents.		Number registered during Oct. 1916.	Its proportion per 1,000 registered during year ended last Oct., 1916.	Its proportion per annum to total registered during the year ended last Oct., 1916.	Mean Temperature.	Rainfall in Inches.
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Average rate for Oct., 1916.			Standardized.*	Average rate for Oct., 1916.	Standardized.*						
All 33 Towns ..	517,877	608,088	735,996	1,431	871,737	1,808	74	44	118	321	1,232	28-02	27-82	25-10	27-36	27-73	303	212	224	80-3	3-25
<i>Western.</i>																					
Colombo ..	219,557	259,451	238,251	489	329,264	523	27	17	44	63	530	22-25	23-77	24-12	27-98	28-28	105	215	231	80-3	3-25
Negombo ..	13,045	25,998	42,400	82	31,267	57	3	—	3	6	51	37-24	35-30	23-16	24-23	23-32	11	134	144	80-3	3-20
Moratuwa ..	27,256	29,530	55,399	94	60,444	94	5	1	6	2	92	37-58	39-35	36-78	40-57	29-93	21	223	211	—	—
Kalutara ..	13,005	13,870	31,211	52	19,123	31	—	1	1	6	25	44-27	32-32	21-28	21-15	21-58	6	115	153	—	—
Panadura ..	5,709	7,049	4,404	8	6,404	10	—	—	—	1	9	13-40	23-58	15-07	17-94	19-79	1	125	89	—	—
<i>Central.</i>																					
Kandy ..	30,149	31,973	35,300	65	54,411	95	2	3	5	36	59	24-00	25-24	21-79	23-75	29-69	14	215	185	75-6	5-57
Gampola ..	5,521	6,745	4,500	9	21,777	28	4	1	5	8	20	15-75	33-57	35-01	36-33	32-40	6	667	346	—	—
Nawalapitiya ..	3,767	3,955	7,900	16	11,133	23	2	—	2	16	7	47-76	25-01	20-90	22-72	27-00	4	250	366	—	—
Hatton and Dikoya ..	3,025	3,131	2,700	7	9,900	10	13	24	2	17	7	33-94	20-12	26-40	30-83	32-64	1	111	153	—	—
Matale ..	5,792	6,291†	9,120	21	24,244	48	1	3	4	24	24	39-41	19-82	45-04	51-76	35-55	4	190	178	—	—
Nuwara Eliya ..	14,910	15,016‡	6,700	13	6,600	12	—	1	1	5	7	10-22	17-25	5-50	6-28	9-87	3	231	171	—	—
<i>Southern.</i>																					
Galle ..	39,936	41,510	44,455	89	36,655	101	7	1	8	9	92	25-31	26-00	26-17	25-62	22-73	15	169	158	79-1	12-64
Ambalangoda ..	4,277†	4,277†	1,300	4	1,200	3	—	—	—	—	3	11-04	—	8-28	—	—	—	—	—	—	—
Makara ..	13,851	15,040	28,200	48	11,122	23	3	3	6	4	19	37-68	30-47	14-92	14-61	20-18	4	83	86	—	—
Waigama ..	3,304	3,304	13,900	9	22,700	7	4	1	3	—	11	27-92	32-79	13-96	12-58	10-34	5	227	171	—	—
Hambantota ..	3,072	3,235	8,800	16	5,600	10	—	—	—	—	9	58-39	44-95	32-84	36-73	32-45	4	250	390	80-5	1-51
Tangalla ..	3,505	5,421**	8,100	16	3,800	11	2	—	2	1	10	34-85	29-68	21-78	22-26	22-47	2	125	132	—	—
<i>Northern.</i>																					
Yafna ..	40,441	44,436	75,588	133	74,488	122	4	4	8	6	112	35-34	35-46	29-76	30-40	31-46	42	316	375	81-9	6-95
Mannar ..	3,777	4,038	5,700	7	7,800	15	—	—	—	4	10	35-09	44-19	29-24	32-20	27-72	3	250	266	82-9	5-14
Mullaitivu ..	1,392	1,439	2,200	4	3,300	3	—	—	—	1	2	32-82	21-82	16-41	21-75	33-89	2	—	369	82-9	5-12
Vavuniya ..	808	977	1,100	2	3,100	4	—	—	—	2	2	24-17	21-22	24-17	32-82	34-15	1	—	695	—	—
<i>Eastern.</i>																					
Batticaloa ..	10,671	11,062	23,200	43	27,133	40	2	—	2	9	31	45-89	36-79	33-09	32-63	28-61	7	163	193	82-3	3-88
Kalmunai ..	2,060	2,060	15,600	15	3,300	6	—	—	—	2	4	120-40	46-30	22-93	—	—	3	143	300	—	—
Trincomalee ..	8,840	10,248	18,160	34	10,122	22	1	—	1	1	21	39-17	31-94	24-19	26-56	28-41	4	118	151	83-3	2-91
<i>North-Western.</i>																					
Kurunegala ..	8,167	9,263	9,140	23	26,266	52	1	1	2	27	25	29-31	27-78	31-86	32-73	38-48	6	261	256	79-8	9-59
Puttalam ..	5,990	6,515	10,150	25	13,122	25	1	1	2	5	20	45-31	29-22	36-25	38-77	30-10	9	360	539	80-4	5-91
Kalpitiya ..	1,591	1,656	2,300	5	4,400	8	—	—	—	—	8	35-65	17-94	57-05	—	—	2	400	513	—	—
Chilaw ..	5,033	5,562	2,600	8	9,800	17	1	2	3	6	11	16-98	30-62	23-35	22-38	32-42	3	375	241	—	—
<i>North-Central.</i>																					
Anuradhapura ..	5,361	6,567	6,700	7	9,700	16	—	—	—	—	16	23-37	24-65	28-76	35-24	47-10	5	385	419	81-1	6-32
<i>Uva.</i>																					
Badulla ..	6,487	7,159**	20,900	29	23,144	37	3	2	5	12	25	47-83	41-33	41-23	45-49	50-55	4	138	176	73-6	3-11
Lunugala ..	515	587	2,000	2	12,600	18	—	—	—	18	—	40-20	43-49	—	—	—	2	—	—	—	—
<i>Sabaragamuwa.</i>																					
Ranapura ..	5,476	7,056	9,100	19	14,193	33	—	—	—	20	13	31-79	21-82	21-75	24-66	37-52	3	158	217	79-4	14-35
Kerala ..	2,536	2,647	4,100	6	10,600	16	1	1	2	9	7	22-30	21-08	31-22	28-63	19-15	1	200	164	—	—

* The standardized death-rates represent the crude death-rates multiplied by the respective standardizing factor in order to make correction for differences of sex- and age-constitution of the several populations in 1911 as compared with that of the standard population in 1911. The standardizing factor is the ratio of the population of the town in 1911 to the population of the standard population in 1911. The standardized death-rates for Kalpitiya and Lunugala towns not available, as the population of these towns has not been enumerated at the Census of 1911 by age and sex, while the town of Kalmunai was created a registration division only in January, 1914, and Ambalangoda in January, 1915. The death-rate given for "All Towns" is therefore independent of these towns, but is scarcely affected by their rates.

Table III.—Number of Births and Deaths registered during the Month of October, 1916, and the Deaths of Children under One Year and their Proportion per 1,000 of the Registered Births, together with the Average Birth- and Death-rates for October, 1908 to 1915, in each Ward of the City of Colombo.

Wards.	Population (inclusive of Military) at Census of 1911.	Population estimated to Middle of 1916 by Inter-censal Increase.	Total Births registered.						Stillbirths.			Total Deaths including Deaths in Hospitals and Jails.			Deaths of Non-residents.	Deaths of Residents.	Per Mille per Annum.			Mortality of Children under one Year.					
			Males.		Females.		Persons.		Males.		Females.		Persons.				Males.		Females.		Persons.		Number registered during Oct., 1916.	Its proportion to 1000 births registered during October, 1916.	Its proportion to annum to 1000 births registered during the Year ended last day of Oct., 1916.
			Males.		Females.		Persons.		Males.		Females.		Persons.				Males.		Females.		Persons.				
			Males.		Females.		Persons.		Males.		Females.		Persons.				Males.		Females.		Persons.		Persons.		
City of Colombo ..	219,557	259,451†	238	251	489	27	17	44	329	264	593	63	530	22-25	23-77	24-12	25-09	27-98	105	215	231				
Fort and Galle Face ..	3,512	3,512‡	—	1	1	—	—	—	5	—	5	—	5	3-36	2-97	16-81	8-64	—	—	—	—				
Pettah ..	7,974	7,974‡	3	2	5	—	—	—	7	1	8	—	8	7-40	5-90	11-84	9-83	—	2	400	694				
San Sebastian ..	11,546	12,930	9	10	19	1	—	1	17	21	38	—	38	17-35	19-65	34-70	21-08	—	3	158	183				
St. Paul's ..	24,735	27,513	16	18	34	4	3	7	32	23	55	—	55	14-59	18-06	23-60	19-12	—	12	353	352				
Kotahena ..	40,771	45,357	44	44	88	4	2	6	46	56	102	—	102	22-91	21-09	26-55	21-57	—	23	261	289				
New Bazaar ..	22,309	25,425	25	24	49	2	1	3	20	33	53	—	53	22-76	23-34	24-61	23-75	—	16	327	365				
Maradana Hospitals			40	41	81	6	7	13	89	56	145	49	96	—	—	—	—	—	6	—	—				
Maradana (exclusive of Hospitals) ..	49,093	61,482	41	43	84	6	2	8	49	35	84	3	81	16-13	19-57	15-55	21-29	—	19	226	241				
Slave Island ..	21,984	25,287	19	20	39	1	—	1	22	15	37	2	35	18-21	21-81	16-34	21-32	—	11	282	244				
Kollupitiya ..	25,410	33,908	18	23	41	2	—	2	20	11	31	9	22	14-28	14-78	7-66	14-45	—	5	122	168				
Wellawatta ..	13,223	16,063§	23	25	48	1	2	3	22	13	35	—	35	35-28	31-50	25-73	41-93	—	8	167	203				

* For explanation of "standardized death-rate" see note *, Table I. The population of the several wards of the city not being available by age- and sex-constitution, their standardized death-rates cannot be calculated.

† Estimated partly on the intercensal increase method and partly on the natural increase method, i.e., population exclusive of Wellawatta Ward on the former method and that of Wellawatta added to the town on January 1, 1912, on the latter method (as it was not a separate division at the Census of 1901).

‡ The population of these two wards being a fluctuating one, their population cannot be estimated to the middle of 1916. Hence the Census figures are retained.

§ This population is estimated partly on the natural increase method and partly on the intercensal increase method, i.e., population of Wellawatta on the former method (as it was not a separate division at the Census of 1901) and that of the part of Kollupitiya taken over to Wellawatta on the latter method.

|| For four months, October, 1912, 1913, 1914, and 1915.

Table IV.—Causes of Deaths registered during the Month of October, 1916, in each Ward and of each Race in the City of Colombo.

Causes of Deaths.	City of Colombo.	Ward.										Deaths among all Races.							
		Fort and Galle Race.	Pettah.	San Sebastian.	St. Paul's.	Kotahena.	New Bazaar.	Mardana Hospitals.	Mardana (exclusive of Hospitals).	Slave Island.	Kollipitiya.	Wellawatta.	Europeans.	Burghers.	Sinhalese.	Tamils.	Moors.	Malays.	Others.
All Causes	593	5	8	38	55	102	53	145	84	37	31	35	7	35	289	130	95	17	20
I.—Infantile Mortality	105	—	2	3	12	23	16	6	19	11	5	8	1	5	43	23	17	5	1
<i>A.—One Week and under.</i>																			
1. Prematurity	6							1	2			3			5	1			
2. Debility	12				3	4	2			1					5	3			
3. Convulsions	17				1	5	1		6	1	2				5	3	4		
4. Diarrhoea	—														7	9	1		
4a. Enteritis	—																		
5. Tetanus	1										1					1			
6. Bronchitis	1								1										
7. Pneumonia	1														1				
8. Other Causes	3*							1		2						2	1		
<i>B.—Over 1 Week and under 1 Year.</i>																			
1. Prematurity	—																		
2. Debility	13				2	2	5								8	4	1		
3. Convulsions	19				2	4	3	1	8	3					10	2	4	1	
4. Diarrhoea	4				1	1					1				1		2		
4a. Enteritis	2					2									1				
5. Tetanus	1																		
6. Bronchitis	5				2	2	1								2	1	2		
7. Pneumonia	8				1	2	2			2	1				2	1	1	3	
8. Other Causes	13†				1	2	2	3	2	2	1				6	3	1		
II.—General Mortality (1 Year and over)	488	5	6	35	43	79	37	139	65	26	26	27	6	30	241	102	78	12	13
1. Plague	—																		
2. Smallpox	20				7	2		1	2	1		3			5	5	8		
3. Chickenpox	—																		
4. Measles	7					2	4												
5. Influenza	—																		
6. Typhexia or Fever	2																		

* These were due to Atelectasis.

† This includes 3 from Rickets, 3 from Stomatitis, 1 from Plague, 1 from Parotitis, 1 from Improper Feeding, 1 from Worms, and 1 from Want of Breast Milk.

Table IV.—Causes of Deaths registered during the Month of October, 1916, in each Ward and of each Race in the City of Colombo—continued.

Causes of Deaths.	City of Colombo.	Ward.										Deaths among all Races.							
		Fort and Galle Face.	Pettah.	San Sebastian.	St. Paul's.	Kotahena.	New Bazaar.	Mardana Hospitals.	Mardana (exclusive of Hospitals).	Slave Island.	Kollupitiya.	Wellawatta.	Europeans.	Burghers.	Sinhalese.	Tamil.	Moors.	Malays.	Others.
II.—General Mortality (1 Year and over)— <i>contd.</i>																			
7. Enteric Fever ..	14	1		2		3		4	1	3		1		1	8	1	2		1
8. Malaria ..	3					2				1					2				
9. Malarial Cachexia ..	1					2				1					1				
10. Cholera ..	20																		
11. Diarrhoea ..	25			2	3	7	1	6	1		2			11	5	2			
11a. Enteritis ..	20			2	4	2	1	17			2			9	8	3			
12. Dysentery ..								8			4			6	9	1			
13. Anchylostomiasis or Doehmius Duo- denalis ..	2																		
14. Cancer ..	3						1	1						1	2	1			
15. Phthisis ..	73	1	1	5	8	12	8	18		6	9			36	17	10	4	2	
16. Other Tuberculous Diseases ..	9							7		1	1			5	2	1	1		
17. Anemia ..																			
18. Diabetes Mellitus ..	4																		
19. Convulsions ..	18			1	2	4	1	2		1	2			2	1	2			1
20. Tetanus ..	4				1		2	1			4			12	2	2			
21. Bronchitis ..	9			1	1	6	1	1						1	1	1			
22. Pneumonia ..	58			2	3	9	2	18		1	11			5	2	2	1	1	4
23. Other Diseases of the Respiratory System ..	9													28	13	10			
24. Bright's Disease and Nephritis ..	8			1	1	2		4		2	1			3	1	3			1
25. Puerperal Eclampsia ..	1							2		2				2	4	2			
26. Puerperal Septicæmia ..	7			1	2	1	1	2						4	1	1			
27. Miscarriage ..	1					1								1					
28. Other undefined Accidents of Childbirth ..	3							2						2	1				
29. Starvation ..																			
30. Accidents or Negligence ..	2							1			1			2					
31. Homicide ..																			
32. Suicide ..	1				1														
33. Execution ..																			
34. All other causes ..	164*	3	2	13	10	26	13	42	26	7	10	12	4	11	86	27	26	5	5

* Here are included 36 from Senility, 20 from Worms, 10 from Debility, and 10 from Paralysis.