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REPORT ON VACCINATION

THE MADRAS PRESIDENCY

1888-89



REPORT ON VACCINATION

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THE MADRAS PRESIDENCY

FOR THE YEAR

1888-89.

MADRAS:

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MADRAS, 2nd August 1889.

No. 617.

From

SURGEON-MAJOR C. J. McNALLY, M.D.,
Acting Inspector of Vaccination and
Deputy Sanitary Commissioner for Madras,

To

THE SANITARY COMMISSIONER FOR MADRAS.

SIR,

I HAVE the honor to submit statistical returns and brief notes on Vaccination in the Madras Presidency for the official year 1888-89.

2. Surgeon D. F. Dymott, who was in charge of the office throughout the year, visited the districts of Tanjore, Madura, Tinnevely, Trichinopoly, Salem, Chingleput, South Arcot and North Arcot, and inspected the towns of Tanjore, Máyavaram, Kumbakónam, Mannárgudi, Madura, Periyakulam, Palni, Dindigul, Tuticorin, Tinnevely, Palamcottah, Trichinopoly, Srirangam, Salem, Conjeeveram, Cuddalore, Chidambaram, Vellore, Wálajápet, Gudiyátam and Tirupati.

3. The strength of the vaccine establishment consisted of 33 first and 23 second-class Deputy Inspectors of Vaccination, and 242 first and 427 second-class vaccinators and 128 probationers, showing an increase of 2 second-class Deputy Inspectors, 1 first and 8 second-class vaccinators and 8 probationers.

4. In the following table the work performed during 1888-89 is contrasted with that of the preceding year :—

						1887-88.	1888-89.
Primary vaccinations	..	..	..	..	..	724,225	796,362
Re-vaccinations	..	..	..	..	..	14,255	13,055
					Total	738,480	809,417

5. On the whole the outturn has been comparatively satisfactory both as regards quantity and quality. An increase is observable in the numbers returned by all classes of workers, except medical subordinates, other than those attached to civil dispensaries and Native States.

6. The following table shows the work done by the different establishments :—

Establishments.	Total number of persons vaccinated in 1887-88.	Total successful of primary vaccinations in 1887-88.	Ages successfully vaccinated in 1887-89.			Total successful of re-vaccinations in 1887-88.
			Under one year.	Over one and under six years.	Above six years.	
1	2	3	4	5	6	7
Government	9,816	9,479	686	4,078	4,715	74
Local Funds	625,795	599,858	129,492	349,271	115,090	4,259
Native States	4,912	3,885	178	1,920	1,787	..
Municipalities	75,335	57,405	17,358	29,220	20,827	2,914
Cantonment	8,937	3,233	2,182	849	262	204
Civil dispensaries	14,174	11,506	1,961	7,195	2,350	214
Medical subordinates	5,181	1,630	38	119	1,473	876
Total	738,180	688,651	148,825	392,652	146,504	8,541

VACCINATION REPORT.

Establishments.	Total number of persons vaccinated in 1888-89.	Total successful of primary vaccinations in 1888-89.	Ages successfully vaccinated in 1888-89.			Total successful of re-vaccinations in 1888-89.
			Under one year.	Over one and under six years.	Above six years.	
	8	9	10	11	12	13
Government ..	17,104	13,210	1,241	6,079	8,890	18
Local Funds ..	676,293	643,761	126,672	371,283	146,906	4,944
Native States ..	2,270	2,160	163	1,460	537	..
Municipalities ..	85,572	77,180	32,564	32,846	11,770	3,199
Cantonment ..	4,972	3,912	2,404	1,508	..	445
Civil dispensaries ..	18,827	15,603	2,688	9,634	3,283	275
Medical subordinates ..	4,379	1,417	45	247	1,226	518
Total ..	809,417	760,343	164,675	423,057	172,611	9,899

7. Of the total number vaccinated (primary and re-vaccinations) 809,417, or 95.0 per cent. proved successful, against 94.3 per cent. in 1887-88. The cost of each successful case was As. 3-11 against As. 4-1 in 1887-88. Primary vaccinations yielded a percentage of 95.4 success against 95.0 in the previous year and re-vaccinations 71.9 against 59.9.

8. Of the total primary successful vaccinations, 164,675 were among children under one year of age, 423,057 between one and under six years, and 172,611 above six years, against 148,895, 392,652 and 146,504, respectively, in 1887-88.

9. In the following table is shown the average number of operations performed by each man during the year contrasted with 1887-88 in the different establishments, and the statement subjoined shows the expenditure incurred by each and the average cost of each successful case:—

Establishments.	Number of vaccinators.		Average number of operations per man.		Increase or decrease per man.	
	1887-88.	1888-89.	1887-88.	1888-89.	Increase.	Decrease.
Local Fund vaccinators ..	642	649	974	1,042	68	..
Government do. ..	16	27	613	638	20	..
Native States do. ..	10	4	404	567	163	..
Municipal do. ..	82	87	676	713	37	..
Madras town do. ..	24	24	835	982	147	..
Cantonment do. ..	6	6	656	828	172	..
Total ..	780	797	922	986	64	..

Establishments.	Total expenditure.		Average cost of each successful case.	
	1887-88.	1888-89.	1887-88.	1888-89.
Government establishment ..	Rs. A. P. 5,246 12 4	Rs. A. P. 5,278 6 11	Rs. A. P. 0 5 9	Rs. A. P. 0 6 2
Local Fund do. ..	1,42,381 9 4	1,46,438 1 3	0 3 8	0 3 8
Municipal do. ..	26,185 11 0	26,970 8 11	0 5 11	0 5 5
Native States do. ..	1,035 0 0	384 0 2	0 4 3	0 2 11
Cantonments do. ..	937 5 0	940 2 0	0 4 8	0 3 6
Total ..	1,76,786 5 8	1,80,966 3 8	6. 4 1	0 3 11

10. On the whole the work of district vaccinators exhibits an improvement over that of the previous year; but in six districts the output was less than in 1887-88, viz., Malabar, Nellore, Nilgiris, North Arcot, South Canara and Tinnevely. A usual the absence of vaccinators generally appears to have been the chief cause; also prevalence of cholera and fevers in Malabar; absence of small-pox, opposition to vaccination and bad work on the part of some vaccinators in Nellore; prevalence of

cholera and absence of small-pox in North Arcot and South Canara and heavy rains and prevalence of cholera in Tinnevely are the reasons assigned by the Deputy Inspectors for short work. The work done by municipal vaccinators, though greater than that of the preceding year, yet in some of the towns was far from satisfactory, notably so in Tirupati, Cocanada, Mangalore, Calicut, Rajahmundry, Tellicherry, and Vizianagrum, where the decrease in the number of operations, as compared with 1887-88, ranged between 65 per cent. in the first and 27 per cent. in the last-mentioned town. In four others, Cuddalore, Ongole, Parlakimodi and Ellore, the decrease was over 12 per cent.

* The large number (4,162) vaccinated in 1887-88 in Mangalore was due to the prevalence of small-pox in the town.

11. The following table shows the comparative proportion of males and females vaccinated during 1888-89 by purely Local Fund agents contrasted with the previous year:—

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Districts.	Population.	1887-88.				1888-89.			
		Total number vaccinated.		Proportion per cent. to total number vaccinated.		Total number vaccinated.		Proportion per cent. to total number vaccinated.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Anantapur ..	303,926	291,966	11,960	7,135	62.7	8,253	7,077	53.8	46.1
Bellary ..	335,567	325,839	11,122	10,650	51.3	11,521	10,982	51.3	48.7
Chingleput ..	471,420	469,586	18,915	14,567	55.4	20,155	18,548	62.0	47.9
Coimbatore ..	779,006	820,648	27,452	25,922	61.4	28,266	27,478	60.7	49.3
Cuddapah ..	660,394	641,662	7,448	6,302	53.9	12,158	10,566	53.5	46.5
Ganjam ..	850,894	859,046	14,536	12,109	54.5	18,352	14,978	65.0	44.1
Godavari ..	849,908	863,101	13,970	11,684	54.4	18,407	15,488	54.3	45.6
Kistna ..	763,987	739,791	7,682	5,756	56.9	8,043	6,179	56.5	43.4
Karnool ..	349,717	339,259	8,439	6,681	65.2	12,612	9,229	57.7	42.2
Madras ..	988,445	1,092,248	24,794	22,091	62.8	26,123	23,494	53.6	47.3
Madhar ..	1,092,233	1,110,884	31,371	13,441	69.9	27,216	11,911	69.6	30.4
Nellore ..	697,353	686,178	14,164	13,321	51.5	12,554	11,790	51.6	48.4
Nilgris ..	41,950	31,971	1,353	757	62.8	1,194	617	66.9	34.0
North Arcot ..	884,882	885,054	18,912	16,872	52.9	18,648	14,398	53.4	46.5
Salem ..	753,899	795,029	24,570	23,968	50.6	27,327	26,404	50.9	49.1
South Arcot ..	875,064	896,302	14,076	11,236	55.6	18,711	13,413	55.4	44.5
South Canara ..	445,997	471,718	20,427	16,688	55.2	18,949	16,730	54.3	45.6
South Arcot ..	930,826	998,408	17,556	16,238	61.9	20,343	20,789	59.8	47.1
Tamil Nadu ..	844,460	844,460	27,810	23,639	56.2	27,800	21,942	55.1	44.8
Tamil Nadu ..	707,831	674,967	10,759	10,076	51.6	12,993	11,993	62.0	47.9
Tamil Nadu ..	643,864	674,967	10,759	10,076	51.6	12,993	11,993	62.0	47.9
Tamil Nadu ..	1,192,471	1,192,471	19,491	17,103	55.2	18,093	16,428	55.2	44.7
Vijayanagara ..	14,710,006	14,710,006	241,498	294,297	54.5	266,009	300,394	54.3	45.7
Total ..	14,710,006	14,710,006	241,498	294,297	54.5	266,009	300,394	54.3	45.7

12. The following statements show the work done by Government Native States and Cantonment vaccinators compared with 1887-88:—

Hill Tracts.		Number of vaccinators.	Number vaccinated.			Primary vaccination.						Re-vaccination.		Percentage of success.		Cost of each successful case.	Average number of operations per man.
			Males.	Females.	Total.	Total.	Successful.			Total.	Successful.	Primary vaccination.	Re-vaccination.				
							Under one year.	Over one and under six years.	Above six years.								
Ganjam ..	{ 1887-88 ..	6	3,159	2,907	6,066	5,992	466	2,242	3,114	74	73	97.1	94.6	Rs. A. P.	0 5 6	1,071	
	{ 1888-89 ..	7	4,832	4,442	9,274	9,282	740	2,623	5,489	12	9	96.3	75.0	0 3 10	1,328		
Gunupur ..	{ 1887-88 ..	6	1,397	1,001	2,398	2,398	128	1,134	1,091	..	..	98.1	..	0 12 5	399		
	{ 1888-89 ..	4	584	485	1,069	1,069	125	478	411	..	..	94.8	..	1 7 3	267		
Jeypore ..	{ 1887-88 ..	12	2,648	2,413	5,061	5,061	106	2,122	2,574	..	..	94.8	..	0 4 3	422		
	{ 1888-89 ..	12	341	379	720	720	17	308	387	..	..	98.8	..	1 0 10	360		
Gudem ..	{ 1887-88 ..	2	395	292	687	687	57	339	281	..	..	98.6	..	1 1 5	343		
	{ 1888-89 ..	2	333	299	632	631	75	394	123	1	1	93.8	100.0	1 1 1	316		
Bhadra-chalam.	{ 1887-88 ..	2	508	487	995	984	213	517	135	9	9	87.9	100.0	0 11 10	496		
	{ 1888-89 ..	2	508	487	995	984	213	517	135	9	9	87.9	100.0	0 11 10	496		
Total ..	{ 1887-88 ..	18	5,230	4,586	9,816	9,741	686	4,078	4,715	75	74	97.3	98.6	0 8 10	613		
	{ 1888-89 ..	27	8,985	8,119	17,104	17,092	1,241	6,079	8,890	21	18	94.8	85.7	0 6 2	633		

Native States (Zemindaries).		Number of vaccinators.	Number vaccinated.			Primary vaccination.						Re-vaccination.		Percentage of success.		Cost of each successful case.	Average number of operations per man.
			Males.	Females.	Total.	Total.	Successful.			Total.	Successful.	Primary vaccination.	Re-vaccination.				
							Under one year.	Over one and under six years.	Above six years.								
Arni ..	{ 1887-88 ..	478	344	822	822	91	569	132	..	..	96.3	..	Rs. A. P.	0 2 1	822		
	{ 1888-89 ..	418	410	828	828	43	569	173	..	..	94.8	..	0 2 2	828			
Gunupur ..	{ 1887-88 ..	1,866	1,354	3,220	3,220	87	1,351	1,556	..	..	96.0	..	0 8 4	357			
	{ 1888-89 ..	756	686	1,442	1,442	120	891	364	..	..	95.4	..	0 3 5	481			
Total ..	{ 1887-88 ..	2,344	1,698	4,042	4,042	178	1,920	1,787	..	..	96.1	..	0 4 3	404			
	{ 1888-89 ..	1,174	1,096	2,270	2,270	163	1,460	537	..	..	95.1	..	0 2 11	667			

Cantonments.		Number of vaccinators.	Total number vaccinated.			Primary vaccination.						Re-vaccination.		Percentage of success.		Cost of each successful case.	Average number of operations per man.
			Males.	Females.	Total.	Total.	Successful.			Total.	Successful.	Primary vaccination.	Re-vaccination.				
							Under one year.	Over one and under six years.	Above six years.								
Bangalore.	{ 1887-88 ..	2	644	521	1,165	1,119	815	228	14	46	42	94.4	91.3	Rs. A. P.	0 5 3	582	
	{ 1888-89 ..	2	885	854	1,739	1,771	876	318	..	448	305	93.9	68.0	0 3 11	859		
Secunderabad.	{ 1887-88 ..	4	1,063	1,219	2,282	2,256	1,367	621	248	516	162	99.1	91.3	0 3 10	693		
	{ 1888-89 ..	4	1,613	1,540	3,153	3,045	1,528	1,190	..	208	139	89.2	66.8	0 3 2	812		
Total ..	{ 1887-88 ..	6	2,197	1,740	3,937	3,375	2,182	849	262	562	204	97.6	86.3	0 4 3	656		
	{ 1888-89 ..	6	2,478	2,494	4,972	4,316	2,404	1,508	..	656	444	90.6	67.7	0 3 6	828		

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13. The work done in dispensaries is given in the following table compared with 1887-88:—

Districts.	Number of dispensaries.	Number vaccinated.			Number vaccinated successfully.			Percentage of success.			Average number vaccinated by each dispensary.	Success of primary vaccination.		
		Primary vaccination.	Re-vaccination.	Total.	Primary vaccination.	Re-vaccination.	Total.	Primary vaccination.	Re-vaccination.	Total.		Under one year.	Above one and under six years.	Above six years.
Anantapur { 1887-88 ..	8	292	1	293	278	1	279	95.2	100	95.2	37	80	154	44
{ 1888-89 ..	8	460	2	462	439	2	441	95.4	100	95.4	58	117	263	54
Bellary { 1887-88 ..	15	679	..	679	644	..	644	94.9	..	94.9	45	378	244	24
{ 1888-89 ..	16	723	..	723	676	..	676	93.4	..	93.4	45	387	273	16
Chingleput { 1887-88 ..	14	1,130	96	1,226	869	24	893	76.9	25.0	78.5	87	114	624	131
{ 1888-89 ..	13	2,512	167	2,679	2,096	53	2,149	83.4	31.7	80.2	206	314	1,534	248
Coimbatore { 1887-88 ..	14	698	15	713	510	8	518	85.2	43.3	84.5	44	108	350	54
{ 1888-89 ..	15	733	13	746	598	6	604	81.5	45.1	80.9	49	118	375	10
Cuddapah { 1887-88 ..	11	279	22	301	174	17	191	62.3	77.2	63.4	27	58	83	33
{ 1888-89 ..	12	328	6	334	186	6	191	56.7	100	57.8	28	90	103	63
Ganjam { 1887-88 ..	10	380	7	387	286	2	287	75.0	28.5	74.1	39	33	183	90
{ 1888-89 ..	12	1,340	19	1,359	1,166	15	1,171	86.2	78.9	86.1	113	189	589	278
Godavari { 1887-88 ..	18	450	5	455	304	3	307	67.5	60.0	67.4	25	22	197	85
{ 1888-89 ..	19	659	24	683	551	16	567	83.6	66.7	83.0	36	26	304	221
Kistna { 1887-88 ..	18	321	5	326	240	3	243	74.7	60.0	74.5	13	11	177	62
{ 1888-89 ..	19	615	15	630	499	10	509	80.8	66.6	80.0	27	27	335	137
Kurnool { 1887-88 ..	12	447	9	456	322	3	325	72.0	33.3	71.2	38	59	203	60
{ 1888-89 ..	16	1,007	26	1,033	804	12	816	70.8	40.1	78.9	65	145	464	195
Madras Town. { 1887-88 ..	4	..	..	..	..	..	..	..	..	..	..	..	..	..
{ 1888-89 ..	4	..	..	..	..	..	..	..	..	..	..	..	..	..
Madura { 1887-88 ..	31	995	26	1,021	845	14	859	85.9	51.5	84.1	33	224	540	81
{ 1888-89 ..	34	1,619	37	1,656	1,345	14	1,359	83.0	37.8	82.1	47	361	848	196
Malabar { 1887-88 ..	15	377	..	377	303	..	303	80.4	..	80.4	25	21	187	115
{ 1888-89 ..	17	358	11	369	272	4	278	75.9	64.5	75.3	21	17	145	110
Nellore { 1887-88 ..	18	1,440	23	1,463	1,304	20	1,324	90.5	86.8	90.4	81	133	555	316
{ 1888-89 ..	21	962	7	969	826	3	829	85.8	42.8	86.5	46	111	565	160
Nilgiris { 1887-88 ..	5	52	5	57	36	1	36	67.3	20.0	63.1	11	15	18	2
{ 1888-89 ..	5	123	36	159	93	25	118	75.6	69.4	74.2	32	10	23	55
North Arcot. { 1887-88 ..	15	377	2	379	329	1	330	87.7	50.0	88.4	25	61	220	48
{ 1888-89 ..	17	417	..	417	381	..	381	91.3	..	91.3	24	78	239	64
Salem { 1887-88 ..	16	935	31	966	781	8	789	83.5	25.8	81.6	63	161	500	190
{ 1888-89 ..	17	983	8	991	828	3	831	80.1	37.5	83.8	68	146	561	131
South Arcot. { 1887-88 ..	13	689	15	704	565	4	569	82.0	26.6	80.8	53	69	397	99
{ 1888-89 ..	15	690	16	706	578	2	580	83.7	12.5	82.1	47	65	371	142
South Canara. { 1887-88 ..	13	596	40	636	446	22	468	74.8	55.0	73.5	49	44	189	110
{ 1888-89 ..	15	820	35	855	660	20	680	82.8	57.1	78.6	25	19	115	127
Tanjore { 1887-88 ..	37	1,742	35	1,777	1,482	18	1,500	85.1	61.4	84.4	46	151	1,030	321
{ 1888-89 ..	37	2,281	63	2,344	1,996	37	2,033	87.5	69.8	95.2	58	214	1,433	450
Tinnevely { 1887-88 ..	22	880	12	892	780	9	789	88.6	75.0	88.4	41	75	434	271
{ 1888-89 ..	28	962	17	979	833	11	844	86.6	64.7	86.2	42	93	484	256
Trichinopoly. { 1887-88 ..	11	341	8	349	322	..	322	94.4	..	94.4	32	38	220	74
{ 1888-89 ..	11	677	5	682	614	6	619	90.6	100	90.7	62	45	374	195
Vizagapatam. { 1887-88 ..	15	742	81	823	688	56	744	92.7	69.1	90.4	55	120	461	117
{ 1888-89 ..	17	614	48	662	572	30	602	94.7	62.5	90.9	39	90	337	145
Total { 1887-88 ..	334	13,736	438	14,174	11,506	214	11,720	83.7	48.9	82.6	42	1,961	7,195	2,350
{ 1888-89 ..	363	18,283	544	18,827	15,603	275	15,878	86.8	50.6	84.3	62	2,686	9,684	3,283

14. The following table shows the inspection work of Deputy Inspectors of Vaccination during the years 1888-89. On the whole 57.9 per cent. of the cases done

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were inspected by both first and second class Deputy Inspectors collectively. Separately they did 55.8 and 63.0 per cent. respectively. In some circles the work was not up to mark and notice will be taken of such deputies whose work fell below 50 per cent. The poor result in Chingleput is attributed to the Deputy Inspector having been engaged solely in conducting animal vaccination for eight months in the year without any inspection work:—

Circles.	Number of inspecting officers.		Number of villages visited.		Total number of persons vaccinated.	Number of days spent on inspection duty.	Number of cases verified.		Proportion per cent. of inspection to total number vaccinated.		Remarks.
	First-class Inspectors.	Deputy Inspectors.	First-class Inspectors.	Deputy Inspectors.			First-class Inspectors.	Deputy Inspectors.	First-class Inspectors.	Deputy Inspectors.	
Gooty ..	..	1	..	378	6,598	243	..	3,922	..	59.4	From April to Oct. 1888. From 1st Nov. to 31st Mar. 1889. Do. do.
Penukondah ..	1	..	549	..	8,732	271	5,974	..	68.4	..	
Bellary ..	1	..	373	..	15,519	242	8,624	..	55.4	..	
Harpanahalli ..	..	1	..	256	6,934	198	..	3,520	..	50.7	
Chingleput ..	1	..	371	..	24,356	173	4,826	..	19.8	..	
Saidapet ..	..	1	522	..	14,347	264	9,989	..	69.6	..	
North Coimbatore ..	1	..	300	..	13,164	110	5,819	..	44.2	..	
South do. ..	1	..	514	..	15,109	135	8,608	..	56.9	..	
North do. ..	1	..	237	..	9,013	114	6,401	..	71.0	..	
South do. ..	..	1	..	332	6,558	107	..	7,417	..	113.1	
East do. ..	1	..	633	..	14,101	143	9,394	..	66.6	..	
Cuddapah ..	1	..	426	..	7,816	254	5,272	..	67.4	..	
Madanapalle ..	1	..	495	..	8,483	232	4,297	..	50.9	..	
Sidhout ..	..	1	..	371	7,239	265	..	5,548	..	76.6	
Chattrapur ..	1	..	647	..	19,730	276	14,836	..	75.2	..	
Chicacole ..	1	..	502	..	13,600	238	8,651	..	63.8	..	
Ganjam Hill tracts. ..	1	..	226	..	9,294	81	2,716	..	29.2	..	
Ellora ..	1	..	406	..	9,620	237	5,641	..	58.6	..	
Pithapuram ..	..	1	..	436	11,038	329	..	8,011	..	72.6	
Rajahmundry ..	1	..	409	..	14,158	187	10,594	..	74.8	..	
Guntur ..	1	..	404	..	4,506	237	4,110	..	91.2	..	
Masulipatam ..	1	..	185	..	6,952	139	2,622	..	37.7	..	
Vinukonda ..	..	1	..	189	2,764	183	..	2,142	..	77.5	
Cumbum ..	1	..	409	..	9,642	309	7,905	..	81.0	..	
Kurnool ..	1	..	337	..	14,785	241	6,730	..	45.5	..	
Dindigul ..	1	..	415	..	19,605	214	11,058	..	56.4	..	
Madura ..	..	1	..	319	14,751	235	..	5,936	..	40.2	
Paramakudi ..	1	..	334	..	20,526	202	9,857	..	48.0	..	
North Malabar ..	..	1	..	237	14,314	241	..	8,754	..	61.1	
South do. ..	1	..	248	..	24,815	260	12,405	..	49.9	..	
Kavali ..	..	1	..	349	6,982	220	..	5,486	..	78.5	
Nellore ..	1	..	553	..	10,853	258	3,441	..	77.7	..	
Ongole ..	..	1	..	366	6,509	236	..	5,764	..	88.5	
Chittoor ..	1	..	673	..	13,769	225	8,258	..	59.9	..	
Karvetnagar ..	..	1	..	340	7,827	189	..	5,106	..	65.2	
Vellore ..	1	..	271	..	10,896	145	5,536	..	50.8	..	
Krishnagiri ..	..	1	..	580	10,246	233	..	8,747	..	53.8	
Namakal ..	..	1	..	271	19,451	134	..	9,427	..	48.3	
Salem ..	1	..	334	..	18,039	224	9,475	..	52.5	..	
Cuddalore ..	..	1	..	462	19,444	217	9,505	..	48.4	..	
Vridhachalam ..	..	1	..	354	10,680	189	..	6,612	..	61.9	
No. 1 South ..	1	..	340	..	21,375	153	8,140	..	38.1	..	
Canara. No. 11 South ..	..	1	..	251	15,304	233	..	10,875	..	71.1	
Nagapatam ..	1	..	582	..	17,807	244	10,292	..	57.8	..	
Tanjore ..	1	..	549	..	27,208	246	12,737	..	46.8	..	
Satir ..	..	1	..	404	17,218	243	..	8,842	..	51.3	
Shermadevi ..	..	1	..	827	15,033	293	..	11,536	..	76.7	
Tinnevely ..	1	..	634	..	16,711	203	9,771	..	58.4	..	
Trichinopoly ..	1	..	559	..	24,966	185	16,657	..	66.6	..	
Gunupur ..	..	1	..	471	2,511	138	1,643	..	65.4	..	
Nagapatam ..	1	..	498	..	17,597	264	11,596	..	66.2	..	
Vizianagaram ..	..	1	..	251	19,024	253	..	11,765	..	61.7	From 1st Sept. to 31st Mar. 1889.
Jeypore. ..	..	1	..	120	4,623	82	..	2,411	..	52.2	
Total ..	32	19	14,868	6,631	708,042	11,168	278,410	131,811	65.8	63.0	

15. In the statements appended detailed particulars of the work done during the year are given.

16. Animal vaccination was conducted in ten districts (sixteen circles) and the results are shown in the following table. The total number thus vaccinated amounted to 42,445, of which 39,816 or 94 per cent. proved successful.

Circle.	Number of months animal vaccination was carried on.	Number of calves inoculated.	Total vaccinated.	Successful.	Unsuccessful.	Unknown.	Percentage of success.	Total cost.	Average cost of each successful case.
Bellary ..	7 months ..	239	4,530	4,532	85	13	97.8	Rs. A. P. 546 15 1	0 1 9
Harpanahalli ..	4 do. ..	57	993	983	6	9	98.5	107 10 6	0 1 9
Chingleput ..	8 do. ..	85	7,121	6,489	424	208	91.1	293 10 1	0 0 9
Saidapet ..	4 do. ..	56	3,520	3,203	158	159	90.9	147 7 5	0 1 4
Cumbum ..	Whole year ..	70	4,447	4,259	149	39	95.8	362 7 0	0 1 4
Kurnool ..	9 months and 10 days ..	61	6,159	6,193	266	..	95.8	284 14 11	0 0 9
Madura ..	4 do. ..	20	1,053	1,059	18	11	97.8	80 3 0	0 0 2
South. Malabar ..	4 do. ..	25	96	92	4	..	95.8	154 13 10	1 10 11
Nellore ..	3 do. and 11 days ..	22	846	836	10	1	98.6	100 0 0	0 1 11
Krishnagiri ..	2 do. and 23 do. ..	12	400	405	1	..	99.7	42 3 4	0 1 8
Salon ..	Whole year ..	62	2,147	1,812	177	158	84.8	193 6 7	0 1 8
Cuddalore ..	5 months ..	56	1,647	1,568	61	28	95.2	201 5 3	0 2 1
Viduthichalam ..	2 do. ..	11	175	175	..	..	100.0	73 12 7	0 6 9
Negapatam ..	6 do. ..	33	854	829	17	8	97.1	81 15 4	0 1 7
Tanjore ..	Whole year ..	74	3,685	3,381	179	225	89.0	229 8 1	0 1 1
Vizagapatam ..	Do. ..	66	4,331	4,101	182	48	94.6	417 9 11	0 1 9
Total ..		939	42,445	39,816	1,722	907	94.0	3,347 9 11	0 1 4

17. During the year vaccination was made compulsory in the towns of Masulipatam, Srirangam, Dindigul, Guntur and Coimbatore, raising the number to which the compulsory provisions of the Act are in force to 21.

18. Two first-class Deputy Inspectors of Vaccination were reduced to second class for general misconduct and unsatisfactory work, and two second-class Deputies promoted instead to first-class grade. Two vaccinators were promoted to second-class Deputy Inspectors (new appointments). Fines to the extent of Rs. 58 were inflicted on Deputy Inspectors for remissness in their duties.

I have the honor to be,
Sir,
Your most obedient servant,
C. J. McNALLY, Surgeon-Major, M.D.,
Acting Inspector of Vaccination and
Dy. Sanitary Commissioner,
Madras.

No. 1200.

Forwarded to Government.

2. The progress of vaccination during the year under report may certainly be said to be satisfactory seeing that both the quantity and quality of the work turned out show an improvement.

(Signed) J. A. LAING, Surgeon-Major, M.D.,
Sanitary Commissioner for Madras.

OOTACAMUND,
5th August 1889.

APPENDIX.

A—VACCINE DEPARTMENT.

STATEMENT No. 1 showing Particulars of Vaccination in the Madras Presidency during the official year 1898-99—continued.

Number.	Districts.	Circles.	Population of district or circle according to the census of 1881.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Re-vaccination.	Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.	Average annual number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
						Males. Females. Total.		Total.	Under 1 year.	Over 1 and under 6 years.	Total of all ages.	Total.	Successful.	Primary vaccination.	Re-vaccination.		Number.	Ratio per 1,000.	Number.	Ratio per 1,000.		
13	Ganjam.	Chhatrapur circle ... Odisha do. ... Ganjam hill tracts ...	906,219 339,816 246,308	456 469 47	18 13 7	11,079 7,278 4,852	8,651 6,827 4,412	19,730 13,460 9,204	1,096 1,046 1,317	10,697 13,524 9,282	1,022 1,428 740	12,612 8,515 3,623	19,450 13,317 8,852	33 76 12	93 73 9	98.2 98.4 95.4	100.0 96.0 75.0	21.5 24.9 35.9	...	...		
14	Ganjam.	Total of district ...	1,482,338	202	38	23,204	19,420	42,621	1,121	42,608	8,190	23,783	41,619	121	115	97.9	95.0	23.6	80,772	12.2	676	0.4
15	Godavari.	Ellore circle ... Puttur do. ... Rajahmundry circle ... Government (Bhadrachalam) ...	580,485 329,658 790,367	230 264 290	17 18 16	5,189 6,112 7,106	4,431 4,988 6,030	9,620 11,110 18,165	567 865 822	9,610 11,110 16,187	631 897 931	6,087 8,806 7,561	9,408 10,865 12,649	10 28 26	9 26 9	97.8 97.7 89.2	90.0 92.4 100.0	16.2 32.0 17.3	...	...	...	...
16	Godavari.	Total of district ...	1,682,338	202	38	23,204	19,420	42,621	1,121	42,608	8,190	23,783	41,619	121	115	97.9	95.0	23.6	80,772	12.2	676	0.4
17	Godavari.	Ellore circle ... Puttur do. ... Rajahmundry circle ... Government (Bhadrachalam) ...	580,485 329,658 790,367	230 264 290	17 18 16	5,189 6,112 7,106	4,431 4,988 6,030	9,620 11,110 18,165	567 865 822	9,610 11,110 16,187	631 897 931	6,087 8,806 7,561	9,408 10,865 12,649	10 28 26	9 26 9	97.8 97.7 89.2	90.0 92.4 100.0	16.2 32.0 17.3	...	...	...	...
18	Godavari.	Total of district ...	1,682,338	202	38	23,204	19,420	42,621	1,121	42,608	8,190	23,783	41,619	121	115	97.9	95.0	23.6	80,772	12.2	676	0.4
19	Kistna.	Guntur circle ... Mandlapet circle ... Vijayanagara do. ...	662,808 609,408 321,697	223 174 132	12 15 9	2,494 4,021 1,538	2,012 2,981 1,386	4,506 6,962 2,764	375 386 307	4,505 6,740 2,760	297 380 236	2,874 3,726 1,834	4,089 6,260 2,499	1 15 14	1 14 14	90.3 92.8 100.0	100.0 92.4 100.0	7.2 10.5 7.9	...	...	...	...
20	Kistna.	Total of district ...	1,408,778	176	39	8,036	6,179	14,222	366	13,996	928	8,427	12,988	227	211	91.7	92.9	8.7	18,638	12.6	3,485	2.3
21	Kistna.	Guntur circle ... Mandlapet circle ... Vijayanagara do. ...	662,808 609,408 321,697	223 174 132	12 15 9	2,494 4,021 1,538	2,012 2,981 1,386	4,506 6,962 2,764	375 386 307	4,505 6,740 2,760	297 380 236	2,874 3,726 1,834	4,089 6,260 2,499	1 15 14	1 14 14	90.3 92.8 100.0	100.0 92.4 100.0	7.2 10.5 7.9	...	...	...	...
22	Kistna.	Total of district ...	1,408,778	176	39	8,036	6,179	14,222	366	13,996	928	8,427	12,988	227	211	91.7	92.9	8.7	18,638	12.6	3,485	2.3
23	Karnool.	Guntur circle ... Karnool do. ...	662,808 321,697	79 97	8 13	5,119 7,488	4,538 4,706	9,632 12,108	1,305 388	9,640 10,708	1,496 2,323	5,385 6,833	6,943 8,281	3 2	3 2	96.8 86.7	100.0 92.1	27.9 82.2	...	...	...	...
24	Karnool.	Total of district ...	662,808	90	21	12,612	9,239	21,841	1,040	20,340	4,019	11,188	18,838	1,432	1,473	90.1	98.8	30.1	14,066	21.9	776	1.2

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A—VACCINE DEPARTMENT.

STATEMENT No. I showing Particulars of Vaccination in the Madras Presidency during the official year 1888-89—continued.

Number.	Districts.	Circles.	Population of district or circle according to the census of 1881.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Re-vaccination.		Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.	Average annual number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.		
								Total.	Under 1 year.	Over 1 and under 6 years.	Total of all ages.	Successful.	Total.	Successful.	Primary vaccination.		Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
46	Tinnevely.	Sattur circle	495,558	271	12	9,387	7,821	17,218	1,435	2,893	10,826	16,776	6	97.4	100.0	38.9	...	...	...	...	
47		Shermādevi circle	478,904	301	14	8,386	6,585	15,083	1,073	2,208	9,519	14,743	3	96.1	66.6	30.7	...	...	...	...	
48		Tinnevely do.	966,319	342	16	9,225	7,486	16,711	1,044	16,657	2,653	10,496	16,139	44	96.7	68.1	24.2	...	...	...	...
49	Tiruchinopoly.	Total of district	1,642,281	305	42	27,020	21,942	48,962	1,166	7,664	30,841	47,658	53	97.4	71.7	29.0	40,578	24.7	1,382	0.8	
50		Trichinopoly circle	1,110,811	312	21	12,963	11,968	24,966	1,190	24,937	3,971	15,308	24,332	48	97.2	79.5	21.8	...	...	...	...
51		Total of district	1,110,811	313	21	12,963	11,968	24,966	1,190	24,937	3,971	15,308	24,332	49	97.3	79.5	21.9	20,045	18.2	408	0.3
52	Vizagapatam.	Guapar circle	684,073	50	4	584	485	1,069	267	1,069	125	478	1,014	...	94.8	...	10.3	...	...	...	...
53		Zamindary vaccinators	684,073	50	3	766	686	1,452	481	1,443	120	891	1,375	...	95.4	...	...	...	...	...	...
54		Jeypore circle	684,073	50	12	2,643	2,413	5,081	432	5,061	106	3,122	4,802	...	94.8	...	...	...	...	...	...
55	Vizagapatam.	Total of hill tracts	684,073	50	19	3,988	3,584	7,572	399	7,572	351	3,491	7,191	...	94.9	...	...	...	...	...	...
56		Vizagapatam circle	802,221	456	16	7,988	6,460	14,448	902	18,740	1,312	8,870	13,480	708	97.7	83.9	18.3	...	...	...	...
57		Government vaccinators (Gudem hill)	912,886	529	2	395	292	687	343	687	57	339	677	...	96.5	...	...	...	...	...	...
58	Vizagapatam.	Vizagapatam circle	2,410,840	186	17	10,058	8,969	19,024	1,119	18,739	3,164	10,989	18,411	...	98.2	91.9	20.4	...	...	...	...
59		Total of district	2,410,840	186	54	22,421	19,206	41,726	773	40,738	4,884	23,689	39,709	...	97.4	86.2	16.7	42,843	17.7	1,073	0.4
60		Total of circles and districts	2,410,840	245	680	877,068	718,689	1,595,757	1,023	869,680	13,976	378,821	663,187	...	96.1	82.8	23.2	600,801	20.7	31,022	1.0
61	Bengal.	Bengal circle	7,480	...	2	883	854	1,719	869	1,871	876	318	1,194	448	93.9	68.0	16.8	1,283	16.1	79	0.9
62		Secunderabad	7,480	...	4	1,613	1,440	3,253	813	3,045	1,528	1,166	2,713	306	89.2	66.8	84.9	2,069	20.8	19	0.3
63		Total of enclaves	7,480	...	6	2,478	2,494	4,972	838	4,316	2,404	1,506	1,913	666	90.6	67.7	33.1	3,312	25.5	36	0.7
64	Medical Subordinates	Total of enclaves	7,480	...	...	3,992	867	4,379	...	2,517	45	247	1,317	1,362	60.3	28.2	...	...	...	...	...
65		Medical Subordinates	7,480	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
66		Medical Subordinates	7,480	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Admi	Municipalities.	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand 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municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total	Total of municipalities	Grand Total
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† In finding the average, the total work of medical subordinates is excluded.

* Work performed in jails, police hospitals, revenue and other departments.

A—VACCINE

STATEMENT No. II showing the Cost of the Department

Number.	Districts.	Circles.	Establishment.							Expenditure.		
			Inspector of Vaccination and Deputy Secretary	Deputy Commissioners	Deputy Inspectors	Deputy Inspectors	Vaccinators.	Probationers.	Peons.	Pay of establishment.	Travelling allowance.	Contingencies.
1	2	3	4	5	6	7	8	9	10	11	12	13
										Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Anantapur.	Gooty circle		1	3	3	8	1		1,532 13 1	182 5 8	127 7 6
2		Penukonda circle		1	2	5	1	1		1,723 8 0	215 5 0	88 14 11
3		Total of district		1	5	8	4	2		3,255 5 1	397 10 3	211 6 5
4	Bellary.	Bellary circle		1	5	6	5	1		2,810 9 2	1,081 8 11	97 15 11
5		Harpanahalli circle		1	3	4	2	1		1,407 9 10	740 6 3	44 8 6
6		Total of district		1	8	10	7	2		4,208 3 3	2,082 15 1	142 9 5
7	Chingleput.	Chingleput circle		1	3	7	1	1		2,395 5 2	438 6 0	1,071 5 3
8		Saidapet do.		1	3	5	1	1		2,096 13 9	304 18 6	401 2 3
9		Total of district		2	6	12	2	2		4,491 2 11	738 3 6	1,562 9 5
10	Coimbatore.	North Coimbatore circle		1	3	7	2	1		2,866 2 4	502 8 7	138 5 9
11		South do.		1	3	6	1	1		2,590 1 9	265 8 6	257 1 0
12		East do.		1	4	11	8	1		1,922 1 1	105 3 6	203 15 3
13		Total of district		2	10	24	5	3		7,378 5 2	872 15 7	599 6 0
14	Cuddapah.	Cuddapah circle		1	4	7	1	1		2,312 11 7	1,068 8 8	304 14 11
15		Madanapalle do.		1	4	9	2	1		2,448 9 11	848 12 4	114 4 4
16		Sidhout do.		1	3	5	1	1		1,700 15 2	683 0 3	178 18 1
17		Total of district		2	11	21	4	3		6,357 4 8	2,594 5 3	403 2 4
18	Ganjapur.	Chatrapur circle		1	5	11	2	1		3,366 11 6	286 9 0	255 12 0
19		Chioseole do.		1	4	8	1	1		2,484 12 0	231 7 0	102 11 0
20		Ganjam Hill tracts		1	7	7	1	1		1,776 7 9	338 5 0	19 11 6
21		Total of district		3	9	26	3	3		7,577 15 3	854 5 0	378 2 3
22	Godavari.	Ellora circle		1	4	10	3	1		2,398 2 10	774 5 0	50 2 4
23		Pittapur do.		1	4	7	2	1		2,244 5 4	707 10 0	70 10 0
24		Rajshumundry circle		1	4	9	8	1		2,430 1 9	949 5 2	301 2 11
25		Government vaccinators (Bhadrachalam.)		2	2	2	2	2		392 10 9	248 8 0	5 5 9
26		Total of district		2	14	26	8	3		7,465 4 8	2,678 12 2	256 11 0
27	Kistna.	Guntur circle		1	4	6	2	1		2,262 8 10	574 13 0	85 9 0
28		Masulipatam circle		1	6	8	4	1		3,056 14 6	726 15 0	97 1 1
29		Vinukonda do.		1	3	3	3	1		1,460 1 9	325 14 0	27 11 7
30		Total of district		2	13	17	9	3		6,778 9 1	1,625 10 0	110 5 8
31	Kuruel.	Gumhura circle		1	3	4	1	1		1,068 12 5	509 13 0	114 8 0
32		Karuvol do.		1	5	5	8	1		2,496 9 11	496 0 9	535 0 7
33		Total of district		2	8	9	4	2		4,163 6 4	1,004 13 9	749 8 7
34	Madras Pres.	Madras Presidency		1						11,100 0 0	1,016 15 0	
35		Total		1						11,100 0 0	1,016 15 0	
36	Madura.	Dindigul circle		1	5	6	3	1		2,678 4 10	278 2 0	251 6 6
37		Madura do.		1	3	5	2	1		1,884 10 5	158 13 6	237 2 10
38		Permagudi do.		1	6	10	2	1		3,307 0 8	232 9 0	163 15 8
39		Total of district		2	14	21	6	3		7,869 15 11	669 8 6	651 9 6
40	Malabar.	North Malabar circle		1	3	6	3	1		2,196 3 8	332 14 0	78 10 6
41		South do.		1	6	10	5	1		3,593 7 6	318 8 6	168 8 4
42		Total of district		1	9	16	8	2		5,789 10 9	651 6 6	246 8 10

DEPARTMENT.

in the Madras Presidency during the official year 1888-89.

Total cost.	Paid from					Total.	Number of all successful vaccinations and revaccinations.	Average cost of each successful case.
	Imperial funds.	Provincial funds.	Local funds.	Municipalities.	Native states, seminaries, or private funds.			
14	15	16	17	18	19	20	21	22
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1,842 9 10	...	...	1,842 9 10	...	...	1,842 9 10	5,793	0 5 1
2,032 11 11	...	...	2,032 11 11	...	...	2,032 11 11	8,692	0 3 9
3,875 5 9	...	...	3,875 5 9	...	...	3,875 5 9	14,385	0 4 4
4,200 2 3	...	...	4,200 2 3	...	...	4,200 2 3	15,187	0 4 5
2,284 3 6	...	...	2,284 3 6	...	...	2,284 3 6	6,800	0 5 4
6,484 5 9	...	...	6,484 5 9	...	...	6,484 5 9	21,937	0 4 9
3,899 11 5	...	...	3,899 11 5	...	...	3,899 11 5	23,264	0 2 8
2,892 4 5	...	...	2,892 4 5	...	...	2,892 4 5	13,031	0 3 6
6,791 15 10	...	...	6,791 15 10	...	...	6,791 15 10	36,295	0 3 0
3,507 0 8	...	...	3,507 0 8	...	...	3,507 0 8	20,365	0 2 10
3,112 6 3	...	...	3,112 6 3	...	...	3,112 6 3	21,087	0 2 4
2,231 8 10	...	...	2,231 8 10	...	...	2,231 3 10	18,379	0 2 8
8,850 10 9	...	...	8,850 10 9	...	...	8,850 10 9	54,881	0 2 7
3,471 3 2	...	...	3,471 3 2	...	...	3,471 3 2	6,566	0 8 5
3,406 10 7	...	...	3,406 10 7	...	...	3,406 10 7	8,114	0 6 9
2,556 14 6	...	...	2,556 14 6	...	...	2,556 14 6	6,936	0 5 11
9,434 12 3	...	...	9,434 12 3	...	...	9,434 12 3	15,050	0 10 0
3,909 0 6	...	...	3,909 0 6	...	...	3,909 0 6	19,483	0 3 2
2,768 14 0	...	...	2,768 14 0	...	...	2,768 14 0	13,390	0 3 4
2,132 8 3	...	2,132 8 3	...	...	...	2,132 8 3	8,861	0 3 10
8,810 6 9	...	2,132 8 3	6,677 14 6	...	...	8,810 6 9	41,734	0 3 5
3,221 10 2	...	...	3,221 10 2	...	...	3,221 10 2	9,408	0 5 7
2,951 15 4	...	338 8 0	2,613 7 4	...	...	2,951 15 4	10,365	0 4 4
3,580 9 10	...	...	3,580 9 10	...	...	3,580 9 10	12,841	0 4 5
646 8 6	...	646 8 6	...	...	...	646 8 6	874	0 11 10
10,400 11 10	...	985 0 6	9,415 11 4	...	...	10,400 11 10	33,988	0 4 11
2,877 14 10	...	...	2,877 14 10	...	...	2,877 14 10	4,070	0 11 4
3,880 14 7	...	50 2 0	3,830 12 7	...	...	3,880 14 7	6,456	0 9 7
1,813 11 4	...	33 1 0	1,780 10 4	...	...	1,813 11 4	2,513	0 11 6
8,572 8 9	...	83 3 0	8,489 5 9	...	...	8,572 8 9	18,089	0 10 6
2,590 12 5	...	...	2,590 12 5	...	...	2,590 12 5	9,044	0 4 8
3,328 11 3	...	...	3,328 11 3	...	...	3,328 11 3	10,764	0 5 0
5,917 7 8	...	...	5,917 7 8	...	...	5,917 7 8	19,808	0 4 9
12,116 15 0	...	12,116 15 0	...	...	...	12,116 15 0	...	...
12,116 15 0	...	12,116 15 0	...	...	...	12,116 15 0	...	...
3,207 18 3	...	...	3,207 13 3	...	...	3,207 13 3	16,703	0 3 1
2,270 11 9	...	...	2,270 11 9	...	...	2,270 11 9	11,479	0 3 2
3,762 8 11	...	...	3,762 8 11	...	...	3,762 8 11	19,612	0 8 1
9,241 1 11	...	...	9,241 1 11	...	...	9,241 1 11	47,794	0 3 1
2,607 11 9	...	...	2,607 11 9	...	...	2,607 11 9	13,512	0 3 1
4,065 6 4	...	...	4,065 6 4	...	...	4,065 6 4	22,595	0 2 10
6,673 2 1	...	...	6,673 2 1	...	...	6,673 2 1	86,107	0 2 11

A—VACCINE

STATEMENT No. II showing the Cost of the Department in the

Number.	Districts.	Circles.	Establishment.								Expenditure.		
			Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy First-class Inspectors.	Deputy Second-class Inspectors.	Vaccinators.		Probationers.	Peons.		Pay of establishment.	Travelling allowance.	Contingencies.
						First class.	Second class.						
1	2	3	4	5	6	7	8	9	10		11	12	13
30	Nellore.	Kāvali circle	...	...	1	3	5	1	1		Rs. A. P.	Rs. A. P.	Rs. A. P.
31		Nellore do.	...	1	...	3	5	1	1		1,728 0 3	604 9 0	86 2 0
32		Ongole do.	...	...	1	3	5	1	1		2,897 5 2	800 7 0	230 15 9
		Total of district	...	1	2	9	16	5	3		1,679 0 4	577 9 0	44 2 6
33	Nūgiris.	Nūgiris	...	...	...	3	...	...	...		685 9 6	270 10 0	26 0 0
		Total of district	...	...	...	3	...	...	...		685 9 6	270 10 0	26 0 0
34	North Arcot.	Chittoor circle	...	1	...	6	6	8	1		2,727 3 4	929 9 4	133 14 0
35		Karvetnaggar circle	...	...	1	3	5	1	1		1,731 2 2	577 1 10	73 15 9
36		Vellore circle	...	1	...	5	4	2	1		2,364 7 11	636 10 0	59 8 1
		Zemindary vaccinators	...	...	...	1	...	...	...		66 10 8	10 4 0	...
	Salem.	Total of district	...	2	1	14	16	6	3		6,919 8 1	2,213 9 2	287 3 10
37		Krishnagiri circle	...	...	1	3	9	3	1		2,155 9 10	188 10 0	201 8 3
38		Salem do.	...	1	...	3	10	3	1		2,308 2 11	240 14 10	397 4 7
39		Nāmakkal do.	...	...	1	3	10	3	1		2,885 11 11	128 16 0	121 6 0
	South Arcot.	Total of district	...	1	2	9	29	9	3		7,149 8 8	558 7 10	720 2 10
40		Cuddalore circle	...	1	...	5	12	...	1		3,276 9 0	216 6 0	277 8 3
41		Vidduhachalam circle	...	...	1	3	9	...	1		2,137 14 6	184 8 0	87 12 10
		Total of district	...	1	1	8	21	...	2		5,414 7 6	400 14 0	365 5 1
42	South Canara.	No. I, South Canara circle	...	1	...	3	6	5	1		2,669 10 0	228 5 0	45 8 7
43		No. II, do. do.	...	...	1	2	4	4	1		1,763 10 4	231 16 0	76 2 1
		Total of district	...	1	1	5	10	9	2		4,433 4 4	460 4 0	121 10 8
44	Tanjore.	Negapatam circle	...	1	...	5	6	2	1		2,604 15 4	257 6 0	332 15 5
45		Tanjore do.	...	1	...	4	18	2	1		3,868 15 2	287 8 6	374 9 8
		Total of district	...	2	...	9	24	4	2		6,473 14 6	544 14 6	597 6 1
46	Tinnevely.	Satūr circle	...	...	1	3	8	1	1		2,150 13 11	181 9 0	233 12 9
47		Shermadevi circle	...	...	1	4	7	3	1		2,226 10 2	169 11 0	314 7 4
48		Tinnevely do.	...	1	...	4	10	2	1		3,039 14 1	261 6 0	265 13 2
		Total of district	...	1	2	11	25	6	3		7,417 6 2	612 9 0	830 1 3
49	Vizagapatam.	Trichinopoly circle	...	1	...	5	13	3	1		3,483 5 1	207 8 0	39 7 9
		Total of district	...	1	...	5	13	3	1		3,483 5 1	207 8 0	39 7 9
50		Gunapur circle	...	1	...	2	2	1	1		1,011 0 11	439 8 0	36 4 10
51		Zemindary vaccinators	...	...	...	3	...	...	...		394 0 2	...	...
	Vizagapatam.	Jeypore circle	...	1	...	12	...	1	1		1,034 8 2	223 2 0	27 8 8
		Total of Hill tracts	...	1	1	17	2	2	2		3,389 9 3	662 10 0	63 13 1
52		Vizagapatam circle	...	1	...	7	6	3	1		2,888 2 4	196 1 0	1 8 0
53		Government vaccinators (Gudem hills)	...	...	2	...	...	...	...		360 0 0	374 6 0	3 0 0
	Vizagapatam.	Vizianagrum circle	...	1	7	7	3	1	1		2,791 8 0	168 1 0	482 8 6
		Total of district	...	2	2	16	30	8	4		8,178 14 7	1,891 2 0	550 13 7
		Grand Total of district	1	32	19	196	374	110	51		1,32,563 7 3	23,797 11 1	9,266 4 0

DEPARTMENT.

Madras Presidency during the official year 1888-89—continued.

Paid from										Number of all successful vaccinations and revaccinations.	Average cost of each successful case.
Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipalities.	Native states, zemindars, or private funds.	Total.					
14	15	16	17	18	19	20	21	22			
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
2,363 11 3	...	...	2,363 11 3	...	...	2,363 11 3	6,627	0 5 8			
3,428 11 11	...	...	3,428 11 11	...	...	3,428 11 11	10,459	0 5 3			
2,300 11 10	...	...	2,300 11 10	...	...	2,300 11 10	6,055	0 6 0			
8,093 3 0	...	...	8,093 3 0	...	...	8,093 3 0	23,141	0 5 10			
982 3 6	...	...	982 3 6	...	...	982 3 6	1,569	0 10 0			
982 3 6	...	...	982 3 6	...	...	982 3 6	1,569	0 10 0			
3,780 10 8	...	...	3,780 10 8	...	...	3,780 10 8	12,960	0 4 8			
2,382 1 9	...	...	2,382 1 9	...	...	2,382 1 9	7,658	0 4 11			
3,150 10 0	...	...	3,150 10 0	...	...	3,150 10 0	9,475	0 5 4			
106 14 8	...	...	66 14 8	...	40 0 0	106 14 8	785	0 2 2			
9,420 5 1	...	...	9,380 5 1	...	40 0 0	9,420 5 1	30,878	0 4 10			
2,545 12 1	...	...	2,545 12 1	...	...	2,545 12 1	15,924	0 2 6			
3,246 6 4	...	...	3,246 6 4	...	...	3,246 6 4	17,350	0 2 11			
2,636 0 11	...	...	2,636 0 11	...	...	2,636 0 11	18,902	0 2 3			
8,428 3 4	...	...	8,428 3 4	...	...	8,428 3 4	52,176	0 2 7			
3,770 7 3	...	...	3,770 7 3	...	...	3,770 7 3	18,409	0 3 3			
2,410 8 4	...	...	2,410 8 4	...	...	2,410 8 4	10,128	0 3 9			
6,180 20 7	...	...	6,180 10 7	...	...	6,180 10 7	28,537	0 3 5			
2,943 7 7	...	...	2,943 7 7	...	...	2,943 7 7	20,221	0 2 4			
2,091 11 5	...	...	2,091 11 5	...	...	2,091 11 5	14,659	0 2 3			
5,035 3 0	...	...	5,035 3 0	...	...	5,035 3 0	34,880	0 2 4			
3,085 2 9	...	...	3,085 2 9	...	...	3,085 2 9	16,152	0 3 1			
4,531 0 4	...	...	4,531 0 4	...	...	4,531 0 4	25,373	0 2 10			
7,616 3 1	...	...	7,616 3 1	...	...	7,616 3 1	41,525	0 2 11			
2,571 8 8	...	...	2,571 3 8	...	...	2,571 3 8	16,782	0 3 5			
2,710 12 6	...	...	2,710 12 6	...	...	2,710 12 6	14,745	0 2 11			
3,568 0 3	...	42 4 0	3,525 12 3	...	...	3,568 0 3	16,169	0 3 6			
8,850 0 5	...	42 4 0	8,807 12 5	...	...	8,850 0 5	47,696	0 2 11			
3,729 15 10	...	...	3,729 15 10	...	...	3,729 15 10	24,301	0 2 5			
3,729 15 10	...	...	3,729 15 10	...	...	3,729 15 10	24,301	0 2 5			
1,476 13 9	...	1,476 13 9	...	...	...	1,476 13 9	1,014	1 7 3			
294 0 2	...	...	...	...	294 0 2	294 0 2	1,375	0 3 5			
1,285 2 5	...	1,285 2 5	...	...	...	1,285 2 5	4,802	0 4 3			
3,056 0 4	...	2,762 0 2	...	...	294 0 2	3,056 0 4	7,191	0 6 10			
2,885 11 4	...	...	2,885 11 4	...	...	2,885 11 4	14,020	0 3 3			
737 6 0	...	737 6 0	...	...	...	737 6 0	677	1 1 5			
3,441 12 6	...	...	3,441 12 6	...	...	3,441 12 6	18,673	0 2 11			
10,120 14 2	...	3,499 6 2	6,327 7 10	...	294 0 2	10,120 14 2	40,561	0 4 0			
1,65,626 6 4	...	18,859 4 11	1,46,433 1 3	...	334 0 2	1,65,626 6 4	6,60,232	0 4 0			

A—VACCINE

STATEMENT No. II showing the Cost of the Department in the

Number.	Municipalities.		Establishment.							Expenditure.		
			Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy Inspectors.	Deputy Inspectors.	Vaccinators.	Probationers.	Peons.		Pay of establishment.	Travelling allowance.	Contingencies.
1	2	3	4	5	6	7	8	9	10	11	12	13
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.
1	Adoni		180 0 0			25 11 9						
2	Anantapur		156 8 0			18 1 7						
3	Anakápallo		120 0 0			32 0 9						
4	Bellary		299 0 0			88 7 2						
5	Berhanpore		161 1 3			23 11 9						
6	Bezvada		105 0 0			1 13 3						
7	Bimlipatam		177 0 0			34 4 0						
8	Calicut		255 0 0			86 0 0						
9	Cannanore		295 0 0			12 6 11						
10	Chicacole		180 0 0			7 9 4						
11	Chidambaram		180 0 0			62 9 6						
12	Cochin		180 0 0			12 8 11						
13	Cocanada		146 8 0			18 8 6						
14	Coimbatore		240 0 0			18 8 0						
15	Conjoeveram		162 5 9			201 10 7						
16	Coochoor		180 0 0			10 8 0						
17	Cuddalore		180 0 0			169 3 4						
18	Cuddapah		225 0 0			85 11 0						
19	Dindigul		185 5 2			51 2 6						
20	Eilore		170 10 3			23 4 7						
21	Erode		180 0 0									
22	Gudiyattam		98 12 9			2 10 0						
23	Guntur		215 0 0			104 10 5						
24	Karur		108 0 0			15 4 0						
25	Kumbakonam		298 12 0			325 2 10						
26	Kurnool		142 3 7			181 1 11						
27	Madras		6,441 11 0			5,234 10 0						
28	Madura		419 8 0			240 0 0						
29	Mannargudi		120 0 0			57 5 10						
30	Mangalore		322 7 10			24 11 10						
31	Masulipatam		216 0 0			41 6 0						
32	Mayavaram		180 0 0			120 13 1						
33	Nagapattam		322 7 5			260 8 0						
34	Neilore		267 2 0			57 14 0						
35	Ongole		118 10 0			14 10 5						
36	Ootacamund		216 0 0			101 0 5						
37	Palamcottah		180 0 0			36 3 0						
38	Pálghat		299 0 0			18 9 3						
39	Parlakimodi		123 4 0			21 2 3						
40	Periyakulam		119 0 6			1 15 7						
41	Palmi		119 8 0			39 5 10						
42	Rajahmundry		240 0 0			308 5 0						
43	Salem		432 1 10			68 13 1						
44	Srirangam		120 0 0			12 14 10						
45	Tanjore		408 14 5			81 14 0						
46	Tellicherry		352 5 11			265 7 7						
47	Tinnevely		180 0 0			58 15 10						
48	Trichinopoly		660 0 0			94 8 8						
49	Tirupatúr		120 0 0			6 13 9						
50	Tirupati		56 6 8			6 14 0						
51	Tuticorin		180 0 0			23 14 5						
52	Vaniyambádi		120 0 0			9 14 0						
53	Vellore		360 0 0			50 7 8						
54	Vizagapatam		180 0 0			156 1 10						
55	Vizianagrum		111 11 4			9 11 0						
56	Wárajápet		121 0 0			13 7 8						
Total of Municipalities			1	23	242	427	128	53		18,029 5 7	311 1 2	8,830 2 2
1	Bangalore					1	1			396 0 0		28 2 0
2	Secunderabad					1	3			575 0 0		
Total						2	4			912 0 0		28 2 0
Grand Total			1	23	242	427	128	53		1,51,503 12 10	24,108 12 3	17,924 8 2

* Assistant Deputy Inspectors.

DEPARTMENT.

Madras Presidency during the official year 1888-89—continued.

Total cost.	Paid from					Total.	Number of all successful vaccinations and revaccinations.	Average cost of each successful case.
	Imperial funds.	Provincial funds.	Local funds.	Municipalities.	Native states, zemindars, or private funds.			
14	15	16	17	18	19	20	21	22
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
205 11 9				205 11 9		205 11 9	844	0 3 11
169 9 7				169 9 7		169 9 7	341	0 7 11
152 0 9				152 0 9		152 0 9	880	0 8 5
337 7 2				337 7 2		337 7 2	1,064	0 2 7
184 12 11				184 12 11		184 12 11	818	0 3 7
211 4 0				211 4 0		211 4 0	445	0 7 7
492 0 0				492 0 0		492 0 0	1,404	0 5 7
307 6 11				307 6 11		307 6 11	1,495	0 8 3
187 9 4				187 9 4		187 9 4	632	0 4 9
242 9 6				242 9 6		242 9 6	699	0 4 2
192 3 11				192 3 11		192 3 11	951	0 3 2
165 0 6				165 0 6		165 0 6	314	0 8 5
258 8 0				258 8 0		258 8 0	1,087	0 3 9
377 0 4				377 0 4		377 0 4	1,504	0 8 9
190 8 0				190 8 0		190 8 0	342	0 8 11
334 3 4				334 3 4		334 3 4	874	0 7 3
221 0 2				221 0 2		221 0 2	705	0 5 0
321 12 9				321 12 9		321 12 9	1,082	0 3 3
203 4 7				203 4 7		203 4 7	745	0 4 4
180 0 0				180 0 0		180 0 0	669	0 4 4
101 6 9				101 6 9		101 6 9	351	0 4 7
319 10 5				319 10 5		319 10 5	351	0 14 7
123 4 0				123 4 0		123 4 0	408	0 4 11
623 14 10				623 14 10		623 14 10	1,271	0 7 10
323 5 6				323 5 6		323 5 6	2,388	0 2 2
11,966 5 0				11,966 5 0		11,966 5 0	22,741	0 8 5
419 8 0				419 8 0		419 8 0	2,344	0 2 3
302 1 8				302 1 8		302 1 8	517	0 6 8
339 3 10				339 3 10		339 3 10	2,098	0 2 8
257 6 0				257 6 0		257 6 0	1,090	0 3 9
800 13 1				800 13 1		800 13 1	879	0 5 6
582 15 5				582 15 5		582 15 5	2,013	0 4 8
325 0 0				325 0 0		325 0 0	2,853	0 1 10
183 4 5				183 4 5		183 4 5	297	0 7 3
317 0 5				317 0 5		317 0 5	517	0 9 10
216 3 0				216 3 0		216 3 0	668	0 2 11
317 9 3				317 9 3		317 9 3	2,009	0 2 8
114 6 3				114 6 3		114 6 3	560	0 4 1
121 0 1				121 0 1		121 0 1	363	0 5 4
153 13 10				153 13 10		153 13 10	887	0 4 0
548 5 0				548 5 0		548 5 0	1,043	0 3 4
495 14 11				495 14 11		495 14 11	1,872	0 4 3
132 14 10				132 14 10		132 14 10	800	0 3 3
490 12 5				490 12 5		490 12 5	1,558	0 5 1
607 12 5				607 12 5		607 12 5	1,102	0 5 2
213 15 10				213 15 10		213 15 10	767	0 4 6
754 8 8				754 8 8		754 8 8	4,810	0 2 6
126 13 9				126 13 9		126 13 9	297	0 5 3
63 4 8				63 4 8		63 4 8	39	2 3 0
208 14 5				208 14 5		208 14 5	688	0 1 10
129 14 0				129 14 0		129 14 0	860	0 5 5
410 7 3				410 7 3		410 7 3	1,473	0 1 2
836 1 10				836 1 10		836 1 10	1,442	0 5 2
121 6 4				121 6 4		121 6 4	490	0 4 1
135 3 0				135 3 0		135 3 0	321	0 5 9
106 13 3				106 13 3		106 13 3	868	0 4 9
20,970 3 11				20,970 3 11		20,970 3 11	50,379	0 5 5
24 0 0				24 0 0		24 0 0	1,499	0 3 11
940 2 0				940 2 0		940 2 0	4,356	0 3 6
1,03,537 1 3	700 2 0	18,533 4 11	1,46,528 1 3	27,130 8 11	234 0 2	1,03,537 1 3	7,44,967	10 4 2

† Inclusive of the pay and allowances of the Inspector of Vaccination and Deputy Sanitary Commissioner.

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
Anantapur district.												
Anantapur	...	...	40	...	40	13	29	45	...	...	91.8	...
Dharmavaram	...	...	...	...	98	8	88	94	2	2	95.9	100.0
Gooty	...	...	100	...	57	27	28	52	...	...	91.2	...
Hindupur	...	...	57	...	24	8	9	23	...	...	88.9	...
Kalyandrug	...	...	24	...	108	23	59	101	...	...	93.5	...
Ooravacanda	...	...	108	...	73	19	84	73	...	...	100.0	...
Pennukonda	...	...	73	...	51	20	29	51	...	...	100.0	...
Tadpatri	...	...	51	...	...	...	...	...	...	...	...	...
Total	...	...	462	...	460	117	268	435	2	2	95.4	100.0
Bellary district.												
Adoni	...	...	40	...	40	17	25	44	...	...	89.7	...
Alor	...	...	14	...	14	6	6	14	...	...	100.0	...
Bellary	...	...	13	...	13	12	...	12	...	...	92.8	...
Do. branch	...	...	27	...	27	11	7	18	...	...	66.6	...
Erucapettah	...	...	...	...	26	11	7	18	...	...	69.2	...
Cowle Bazaar	...	...	64	...	64	43	20	64	...	...	100.0	...
Hospet	...	...	169	...	109	67	37	106	...	...	97.2	...
Harpanahalli	...	...	37	...	37	31	6	37	...	...	100.0	...
Hadagali	...	...	43	...	43	25	18	43	...	...	100.0	...
Kudligi	...	...	47	...	47	15	29	46	...	...	97.8	...
Kamphee	...	...	54	...	54	47	6	53	...	...	98.1	...
Kanacal	...	...	35	...	35	8	23	34	...	...	97.1	...
Kowtalam	...	...	45	...	45	7	38	45	...	...	100.0	...
Rayadrug	...	...	43	...	43	10	19	22	...	...	74.4	...
Sandur	...	...	89	...	89	67	15	82	...	...	92.1	...
Siraguppa	...	...	28	...	28	10	17	28	...	...	100.0	...
Yennanganur	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	723	...	723	387	273	676	...	...	98.4	...
Chingleput district.												
Chingleput	...	...	158	...	141	22	43	104	17	3	73.7	17.6
Conjeevaram	...	...	115	...	110	2	82	80	5	4	81.8	80.0
Madurantakam	...	...	277	...	102	27	73	116	85	21	59.8	24.7
Nagapattinam	...	...	244	...	244	43	175	229	...	...	93.8	...
Poonamallee	...	...	283	...	283	48	145	232	...	...	91.9	...
Ponnéri	...	...	210	...	194	47	122	183	16	11	94.3	...
Sripurambudur	...	...	201	...	193	9	131	168	8	2	86.0	35.0
Sathiyavadu	...	...	176	...	176	28	105	151	...	...	85.7	...
Suidipet	...	...	290	...	290	4	260	257	...	...	89.6	...
Sembion	...	...	195	...	194	35	122	167	1	1	86.0	100.0
Tirupordur	...	...	165	...	163	14	68	106	2	2	65.0	100.0
Tiruvallur	...	...	100	...	97	17	67	92	8	1	94.5	38.8
Utrammar	...	...	265	...	235	18	161	204	30	18	88.6	60.0
Total	...	...	2,679	...	2,612	314	1,534	2,096	167	53	83.4	81.7
Coimbatore district.												
Aravakurichi	...	...	57	...	55	6	42	49	2	1	89.0	50.0
Elavai	...	...	58	...	58	11	30	67	...	...	98.2	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...
Do. branch	...	...	86	...	86	36	18	61	...	...	94.1	...
Dharmapuram	...	...	87	...	83	16	56	79	4	3	93.1	75.0
Erode	...	...	54	...	54	16	12	43	...	...	79.6	...
Gopichettipalayam	...	...	32	...	32	17	7	32	...	...	100.0	...
Karur	...	...	60	...	57	3	34	53	3	1	92.9	83.3
Kollegal	...	...	78	...	78	34	39	...	...	...	86.3	...
Mettupalayam	...	...	22	...	22	9	10	19	...	...	86.3	...
Palladam	...	...	30	...	30	2	12	19	...	...	95.0	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
Coimbatore district—cont.												
Polkachi	...	...	44	...	41	9	15	34	3	1	82.9	83.3
Satyamangalam	...	...	71	...	70	26	34	65	1	...	92.6	...
Udamalpet	...	...	55	...	55	27	22	51	...	...	82.7	...
Vattagarampudur	...	...	22	...	22	2	14	16	...	...	72.7	...
Total	...	...	746	...	733	219	375	598	18	6	81.5	48.1
Cuddapah district.												
Badvel	...	...	58	...	58	1	5	11	...	...	18.9	...
Chitvel	...	...	12	...	12	1	4	5	...	...	41.6	...
Cuddapah	...	...	38	...	38	...	4	27	...	...	81.8	...
Jammalamadugu	...	...	43	...	43	7	10	20	...	...	46.6	...
Kadiri	...	...	43	...	42	2	24	29	1	1	98.0	100.0
Madanapalle	...	...	44	...	40	4	28	34	4	4	86.0	100.0
Piler	...	...	14	...	14	3	8	13	...	...	92.6	...
Porumamilla	...	...	...	...	...	...	...	...	...	...	...	...
Proddatur	...	...	39	...	39	2	15	19	...	...	49.7	...
Pulivendla	...	...	5	...	5	...	...	4	...	...	80.0	...
Pullampet	...	...	12	...	12	...	...	2	...	...	16.6	...
Rayachoti	...	...	30	...	30	...	5	22	...	...	73.3	...
Total	...	...	383	...	328	20	108	186	5	5	56.7	100.0
Ganjam district.												
Anka	...	...	43	...	43	6	16	25	...	...	58.1	...
Berhampore	...	...	52	...	52	7	28	52	...	...	100.0	...
Chilasingapattam	...	...	107	...	102	...	3	73	5	4	71.5	80.0
Chiescole	...	...	734	...	734	140	355	656	...	...	89.3	...
Ganjam	...	...	13	...	13	3	1	8	...	...	61.6	...
Gopalpur	...	...	15	...	12	2	5	8	3	1	66.6	33.3
Ichapur	...	...	46	...	42	2	...	25	4	3	59.5	75.0
Parlakimedi	...	...	58	...	56	3	40	81	3	3	84.3	100.0
Sompot	...	...	126	...	126	10	88	125	...	...	99.2	...
Surada	...	...	109	...	106	6	50	95	4	4	90.4	100.0
Tekkali	...	...	12	...	12	1	2	7	...	...	58.3	...
Udayagiri	...	...	8	...	3	...	1	1	...	...	39.3	...
Total	...	...	1,859	...	1,340	189	589	1,156	19	15	86.2	78.9
Godavari district.												
Amalapuram	...	...	12	...	11	2	4	7	1	1	68.6	100.0
Bhadrachallam	...	...	21	...	14	3	7	11	7	4	78.5	87.1
Cocanada	...	...	8	...	8	...	...	4	...	...	50.0	...
Cocanada & Cocanada (Seamen's Hospital).	...	...	5	...	5	1	2	3	...	...	60.0	...
Chintalapudi	...	...	24	...	24	1	14	17	...	...	70.8	...
Dowlaiswaram	...	...	1	...	1	1	...	1	...	...	100.0	...
Eluru	...	...	15	...	15	3	11	15	...	...	100.0	...
Gokaram	...	...	24	...	24	...	6	81	...	...	33.7	...
Narasapur	...	...	64	...	59	...	29	47	5	5	79.6	100.0
Pithapuram	...	...	39	...	39	...	20	21	...	...	53.8	...
Peddapuram	...	...	94	...	94	6	57	71	...	...	76.5	...
Rameswaram	...	...	58	...	58	5	36	51	...	...	87.9	...
Rajahmundry	...	...	40	...	40	2	29	39	...	...	97.5	...
Sivakoda	...	...	93	...	84	1	31	80	9	6	86.2	66.6
Tanuku	...	...	73	...	72	1	31	46	1	...	68.9	...
Tallapudi	...	...	54	...	54	...	20	30	...	...	65.6	...
Tuni	...	...	25	...	24	...	4	15	1	...	62.5	...
Veeravasarani	...	...	33	...	33	...	3	12	...	...	36.3	...
Yeleswaram	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	663	...	659	28	304	551	24	16	83.6	66.6

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
Kistna district.												
Bapatla	...	...	52	...	52	8	37	47	...	...	90.4	...
Bezvada	...	...	...	...	...	...	...	...	...	...	...	...
Chiralla	...	...	110	...	110	...	70	86	...	...	80.0	...
Challapalle	...	...	24	...	24	1	9	18	...	...	54.1	...
Dachepalle	...	...	127	...	127	17	93	128	...	...	98.4	...
Duggirala	...	...	...	...	...	...	...	...	...	...	...	...
Gudivada	...	...	19	...	19	...	10	14	1	1	77.7	100.0
Guntur	...	...	...	...	...	...	...	...	...	...	...	...
Jaggayapet	...	...	8	...	8	...	6	6	...	...	75.0	...
Karimpoodu	...	...	47	...	47	3	30	37	...	...	78.7	...
Masulipatam	...	...	16	...	16	...	5	14	...	...	87.5	...
Nandigama	...	...	13	...	13	...	...	...	12	8	88.3	86.8
Narsaraopet	...	...	12	...	12	...	10	10	...	...	83.3	...
Nasavid	...	...	9	...	9	...	6	7	...	...	77.7	...
Répallo	...	...	...	...	...	...	...	...	...	...	...	...
Sattensapalle	...	...	14	...	14	1	11	12	2	1	100.0	60.0
Tiruvur	...	...	11	...	11	...	8	10	...	...	90.9	...
Tumacode	...	...	9	...	9	...	7	7	...	...	77.7	...
Vinnakonda	...	...	40	...	40	2	23	26	...	...	73.4	...
Total	...	...	530	...	515	27	335	499	15	10	96.8	66.7
Kurnool district.												
Atmakur	...	...	65	...	65	22	32	63	...	...	95.3	...
Chagaimurri	...	...	74	...	74	9	45	65	...	...	87.8	...
Cumbum	...	...	165	...	165	15	95	143	...	...	89.6	...
Dhone	...	...	63	...	63	17	34	54	...	...	85.7	...
Giddalore	...	...	23	...	23	...	14	19	...	...	82.6	...
Kalva	...	...	48	...	43	1	15	27	5	...	63.9	...
Kodamuru	...	...	48	...	45	7	17	28	3	1	57.7	39.3
Koilkuntla	...	...	26	...	24	3	8	11	2	1	45.8	50.0
Kurnool	...	...	104	...	104	24	53	102	...	...	98.0	...
Malkapur	...	...	65	...	66	12	33	49	...	...	75.4	...
Nandyal	...	...	132	...	132	7	22	82	...	...	82.1	...
Nandikotkur	...	...	28	...	28	...	10	23	...	...	82.1	...
Owk	...	...	22	...	22	...	7	10	...	...	72.7	...
Pattikonda	...	...	74	...	66	15	28	46	8	7	69.7	87.5
Sirvel	...	...	72	...	64	5	43	60	8	3	93.7	87.5
Yernagoodapoliem	...	...	24	...	24	5	8	13	...	...	54.1	...
Total	...	...	1,033	...	1,007	145	464	808	26	12	70.8	48.1
Madras town.												
Black Town, North Side	...	...	...	...	...	...	...	...	...	...	...	...
Native Infirmary	...	...	...	...	...	...	...	...	...	...	...	...
Tripliano	...	...	...	...	...	...	...	...	...	...	...	...
Hospital for Women & Children, Madras	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	...	...	...	...	...
Madura district.												
Arapacotta	...	...	137	...	135	22	57	101	2	...	74.8	...
Bodinalakanur	...	...	31	...	31	6	10	17	...	...	54.8	...
Bullagundoo	...	...	39	...	39	14	2	27	...	...	69.2	...
Devakota	...	...	47	...	47	6	81	47	...	...	100.0	...
Dindigul	...	...	...	...	...	...	...	...	...	...	...	...
Kamuthi	...	...	63	...	63	...	52	61	...	...	96.8	...
Kilakerai	...	...	63	...	64	6	37	43	9	5	51.1	85.5
Kodaikandal	...	...	26	...	15	...	9	12	11	...	80.0	...
Konnivadi	...	...	16	...	16	...	8	16	...	...	100.0	...
Idayangudi	...	...	39	...	39	4	19	24	...	...	61.5	...
Madura	...	...	52	...	48	19	18	42	4	4	87.5	100.0
Manu Madura	...	...	23	...	23	3	14	18	...	...	78.2	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary Vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
Madura district—cont.												
Melur ...	...	...	83	...	83	20	51	78	...	...	93.9	...
Nuthum ...	...	...	40	...	40	6	11	21	...	...	52.5	...
Palni ...	...	...	6	...	6	1	4	...	...	...	...	...
Pamban ...	...	...	194	...	194	54	132	190	...	...	97.9	...
Pariyakulam ...	...	...	...	...	...	...	...	...	...	...	...	...
Paramakudi ...	...	...	60	...	60	2	20	43	...	...	71.6	...
Rajasingamangalam ...	...	...	...	...	...	...	...	...	...	...	...	...
Ramesvaram ...	...	...	49	...	48	10	20	41	1	1	85.4	100.0
Ramnad ...	...	...	28	...	28	4	16	23	...	...	82.1	...
Saptur ...	...	...	9	...	8	...	...	...	1	...	...	...
Sholanandan ...	...	...	29	...	29	...	25	25	...	...	86.2	...
Sivaganga ...	...	...	100	...	100	6	82	100	...	...	100.0	...
Tirunagallam ...	...	...	64	...	64	25	25	54	...	...	84.3	...
Tiruvannamalai ...	...	...	31	...	31	7	12	19	...	...	61.2	...
Tirupattur ...	...	...	93	...	93	32	55	91	...	...	97.8	...
Tirupur ...	...	...	68	...	68	28	27	65	...	...	95.5	...
Tiruvadavai ...	...	...	27	...	21	...	10	14	6	8	66.6	50.0
Usilampatty ...	...	...	42	...	42	19	19	39	...	...	92.8	...
Uttamapoliem ...	...	...	76	...	76	24	49	75	...	...	98.7	...
Vallandi ...	...	...	27	...	26	4	12	16	1	1	61.5	100.0
Vedasundur ...	...	...	24	...	24	8	8	16	...	...	66.6	...
Virupakshi ...	...	...	40	...	38	12	13	27	2	...	71.0	...
Total ...	...	...	1,666	...	1,619	361	848	1,345	87	14	88.0	87.8
Malabar district.												
Alatur ...	...	...	7	...	7	...	3	7	...	...	100.0	...
Angadiparam ...	...	...	4	...	4	...	...	...	...	...	...	...
Badagara ...	...	...	77	...	77	...	39	70	...	...	90.9	...
Oallont ...	...	...	...	...	...	9	...	...	...	...	...	...
Cannanore ...	...	...	12	...	...	...	4	6	3	3	66.6	100.0
Obovghant ...	...	...	13	...	12	1	1	4	1	1	33.3	100.0
Cochin ...	...	...	100	...	100	7	37	74	...	...	74.0	...
Kothuparamba ...	...	...	18	...	14	...	3	11	4	1	78.5	25.0
Manantoddy ...	...	...	2	...	2	...	2	2	...	...	100.0	...
Manjeri ...	...	...	11	...	11	...	...	4	...	...	36.3	...
Nilambur ...	...	...	6	...	6	...	1	5	...	...	83.3	...
Palghat ...	...	...	...	...	...	...	...	...	...	...	...	...
Pallipattanam ...	...	...	33	...	30	...	24	25	3	1	88.3	83.3
Ponani ...	...	...	39	...	39	...	18	25	...	...	64.1	...
Tellicherry ...	...	...	...	...	...	...	...	...	...	...	...	...
Taliparamba ...	...	...	30	...	30	...	8	25	...	...	83.3	...
Vayitri ...	...	...	17	...	17	9	5	14	...	...	82.0	...
Total ...	...	...	369	...	358	17	145	272	11	6	75.9	54.5
Nellore district.												
Addanki ...	...	...	62	...	61	6	39	58	1	1	95.0	100.0
Allar ...	...	...	54	...	54	8	20	44	...	...	81.4	...
Atmakur ...	...	...	36	...	36	6	9	16	...	...	44.4	...
Durai ...	...	...	46	...	46	...	31	38	...	...	82.6	...
Giddur ...	...	...	36	...	36	...	34	36	...	...	100.0	...
Kandukur ...	...	...	198	...	193	48	118	174	5	1	90.1	20.0
Kandur ...	...	...	179	...	179	24	133	162	...	...	90.5	...
Kavali ...	...	...	24	...	24	6	11	17	...	...	70.8	...
Kistnampatam ...	...	...	7	...	7	...	1	7	...	...	100.0	...
Kottapattam ...	...	...	29	...	29	4	9	17	...	...	58.6	...
Naidupet ...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore ...	...	...	...	...	...	...	...	...	...	...	...	...
Do. Branch ...	...	...	...	...	...	...	...	...	...	...	...	...
Ongole ...	...	...	16	...	16	...	...	13	...	...	81.2	...
Pannoor ...	...	...	85	...	85	2	69	80	...	...	94.1	...
Podili ...	...	...	37	...	37	1	21	24	...	...	64.8	...
Rapur ...	...	...	44	...	43	2	29	42	1	1	97.6	100.0

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.

Districts.	Number of dispensaries in each district to which a vaccinifer is attached.	Average number of vaccinifers attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinifer.	Primary vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
Nellore district—cont.												
Sollurpet	...	...	23	...	23	...	16	22	...	...	95.6	...
Sriharikoba	...	...	...	...	...	...	...	...	...	...	...	...
Udayagiri	...	...	50	...	50	4	26	39	...	...	78.0	...
Venkatagiri	...	...	43	...	43	...	...	37	...	...	86.0	...
Total	...	...	960	...	962	111	565	826	7	3	86.8	43.8
Nalgiri district.												
Coonoor	...	...	24	...	24	1	8	16	...	...	68.8	...
Devála	...	...	...	...	...	...	...	...	...	...	...	...
Gudalor	...	...	22	...	22	...	1	16	...	...	72.7	...
Kotagiri	...	...	44	...	40	6	18	34	4	2	85.0	50.0
Ootacamund	...	...	69	...	87	3	1	27	32	23	72.9	71.9
Total	...	...	159	...	123	10	28	98	36	25	75.6	69.4
North Arcot district.												
Ambur	...	...	24	...	24	2	14	24	...	...	100.0	...
Arcot	...	...	40	...	40	9	18	38	...	...	95.0	...
Arni	...	...	37	...	37	11	19	32	...	...	86.6	...
Chittoor	...	...	4	...	4	...	1	3	...	...	75.0	...
Gndivatom	...	...	14	...	14	1	4	6	...	...	35.7	...
Knpam	...	...	13	...	13	6	4	10	...	...	76.9	...
Kalahasti	...	...	42	...	42	9	24	42	...	...	100.0	...
Palmaner	...	...	7	...	7	2	3	5	...	...	71.4	...
Pollar	...	...	27	...	27	...	23	24	...	...	88.9	...
Punganur	...	...	24	...	24	5	16	22	...	...	91.7	...
Ranipet	...	...	36	...	36	1	36	36	...	...	100.0	...
Sholinghur	...	...	15	...	15	...	8	16	...	...	100.0	...
Tirupati	...	...	20	...	20	...	12	20	...	...	100.0	...
Vellore	...	...	68	...	68	29	20	63	...	...	92.6	...
Venkatagircottah	...	...	1	...	1	...	...	...	...	...	...	...
Walajapet	...	...	20	...	20	3	16	20	...	...	100.0	...
Wandiwash	...	...	25	...	25	...	21	22	...	...	88.0	...
Total	...	...	417	...	417	78	239	381	...	...	91.3	...
Salem district.												
Atur	...	...	70	...	70	10	41	64	...	...	91.4	...
Dhaukankottah	...	...	22	...	22	...	20	21	...	...	95.5	...
Dharampuri	...	...	82	...	82	...	54	57	...	...	69.5	...
Harur	...	...	46	...	44	12	26	39	2	1	86.6	50.0
Hosur	...	...	48	...	48	...	30	35	...	...	72.9	...
Krishnagiri	...	...	31	...	31	9	11	31	...	...	100.0	...
Namakkal	...	...	139	...	139	1	121	132	...	...	94.9	...
Omaliur	...	...	41	...	41	...	41	41	...	...	100.0	...
Pennagaram	...	...	21	...	21	6	14	21	...	...	100.0	...
Razipur	...	...	116	...	116	25	60	86	...	...	74.1	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...
Sankaridrug	...	...	118	...	118	8	41	100	...	...	92.4	...
Tirupattur	...	...	42	...	42	30	6	38	...	...	90.5	...
Tiruchengód	...	...	29	...	28	4	19	24	1	1	85.7	100.0
Úttankarai	...	...	86	...	86	40	25	68	...	...	79.1	...
Vaniyambádi	...	...	28	...	28	...	23	26	...	...	92.9	...
Yercaud	...	...	72	...	67	7	20	36	5	1	58.8	20.0
Total	...	...	591	...	968	140	551	823	8	3	80.1	37.5
South Arcot district.												
Chidambaram	...	...	49	...	49	1	38	39	...	...	70.6	...
Chengam	...	...	37	...	31	1	9	30	6	1	96.7	100.0
Gingee	...	...	29	...	29	2	10	17	...	...	58.6	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing *Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.*

[illegible]

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
<i>Tanjore district—cont.</i>												
Rajah Mirassidar Hospital	...	...	28	...	24	...	23	24	...	2	100.0	100.0
Shiyali	...	...	42	...	42	4	31	35	...	...	70.2	...
Tirukattapalli	...	...	53	...	53	4	34	57	...	...	52.8	...
Tiruturupundi	...	...	118	...	118	7	45	52	...	...	71.2	...
Tiruvadanarudūr	...	...	185	...	185	7	84	100	...	...	75.6	...
Tiruvadi	...	...	85	...	85	...	19	28	...	...	52.9	...
Tiruvallūr	...	...	113	...	109	7	38	96	4	4	85.1	...
Tranquebar	...	...	23	...	22	4	12	18	...	...	77.3	...
Do. branch	...	...	...	...	...	...	...	...	...	...	...	...
Valangymah	...	...	108	...	105	4	57	96	3	3	91.4	100.0
Vallam	...	...	108	...	108	...	69	94	...	...	87.0	...
Vadarniam	...	...	145	...	145	14	88	119	...	...	82.1	...
Velangulam Chuttram Dispensary	...	...	84	...	80	1	18	22	4	...	73.8	...
Total	...	...	2,234	...	2,281	214	1,322	1,295	58	37	87.5	89.3
<i>Tinnevely district.</i>												
Ambasamundram	...	...	53	...	53	1	27	49	...	...	92.6	...
Christianagaram	...	...	14	...	14	...	9	11	...	...	78.6	...
Edyengoody	...	...	20	...	15	...	4	11	5	3	73.3	60.0
Mengalapuram	...	...	99	...	99	...	61	80	...	...	80.8	...
Nagalapuram	...	...	86	...	86	7	43	65	2	2	75.6	100.0
Nanguneri	...	...	37	...	37	3	28	34	...	...	91.9	...
Nazareth	...	...	...	...	...	...	...	...	...	...	...	...
Otapidaram	...	...	15	...	15	...	...	8	...	...	58.3	...
Palamcottah	...	...	56	...	54	4	11	49	2	...	90.7	...
Radhapuram	...	...	43	...	43	4	10	43	...	...	100.0	...
Sater	...	...	61	...	61	10	36	60	...	...	86.3	...
Sivakasi	...	...	17	...	17	9	4	15	...	...	88.2	...
Sankaranainarkoll	...	...	71	...	71	3	57	71	...	...	100.0	...
Sawyerpuram	...	...	97	...	96	...	47	84	1	1	97.7	100.0
Srivilliputtur	...	...	62	...	62	3	37	47	...	...	75.8	...
Srivalkuntham	...	...	17	...	15	1	7	13	2	2	86.6	100.0
Tenkasi	...	...	39	...	39	1	15	35	...	...	89.7	...
Tinnevely	...	...	27	...	27	...	17	27	...	...	100.0	...
Timangudy	...	...	36	...	31	3	16	26	5	3	90.9	60.0
	...	...	10	...	10	2	2	10	...	...	100.0	...
	...	...	31	...	31	6	13	31	...	...	87.7	...
	...	...	12	...	12	...	7	8	...	...	88.0	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1888-89—continued.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.				Revaccination.		Percentage of successful cases.	
					Total.	Successful.			Total.	Successful.	Primary vaccination.	Revaccination.
						Under 1 year.	Above 1 and under 6 years.	Total of all ages.				
1	2	3	4	5	6	7	8	9	10	11	12	13
<i>Vizagapatam district.</i>												
Anakapalle	...	...	...	...	92	5	29	71	...	...	77.1	...
Bobbili	...	...	...	...	11	6	3	9	...	...	81.8	...
Bimlipatam	...	...	...	...	50	7	21	50	...	...	100.0	...
Chodavaram	...	...	...	...	75	8	28	50	21	6	92.5	28.5
Chipurupalle	...	...	...	...	41	...	35	38	...	...	92.6	...
Yellamanchilli	...	...	...	...	...	...	...	...	...	...	...	...
Gajapatinagaram	...	...	...	...	...	...	...	...	...	...	...	...
Hukavalsa	...	...	...	...	...	...	...	...	...	...	...	...
Jeypore	...	...	...	...	158	19	101	157	...	...	99.3	...
Narasapatnam	...	...	...	...	61	4	12	24	27	24	100.0	88.9
Palkonda	...	...	...	...	89	19	56	87	...	...	97.7	...
Pavampet	...	...	...	...	...	...	...	...	...	...	...	...
Pattinghi	...	...	...	...	10	1	6	9	...	...	90.0	...
Razagada	...	...	...	...	61	21	23	53	...	...	86.8	...
Sakir	...	...	...	...	24	...	24	24	...	...	100.0	...
Sankaranavarapukotta.	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	632	...	614	90	337	572	48	80	94.7	62.5
Grand Total	...	...	18,827	...	18,288	2,686	9,634	15,603	544	275	85.3	50.6

APPENDIX.

Persons primarily vaccinated.														
	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.
1882.	1883.	1884.	1885.	1886.	1887-88.	1888-89.								
68	9,136	8,741	16,887	16,319	12,386	12,033	9,970	9,701	8,511	8,204	9,741	9,479	17,092	16,210
385	523,329	498,415	591,352	553,890	617,475	580,624	608,729	570,261	594,711	557,732	618,668	590,853	670,318	643,761
341	3,446	3,207	9,784	3,461	3,434	3,159	2,492	2,295	2,850	2,677	3,375	3,233	4,316	3,912
286	3,838	3,652	4,751	4,438	4,505	4,291	4,082	3,915	4,429	4,216	4,042	3,885	2,270	2,160
1,860	93,333	75,950	91,655	84,452	97,735	88,231	92,945	87,988	70,065	65,614	71,710	67,405	81,566	71,180
117	45	...	...	...	...	...	...	...	...	...	...	...	...	...
1,938	10,164	8,371	12,579	10,185	21,561	17,201	22,834	18,798	16,760	13,354	13,736	11,406	13,293	15,808
1,742	10,049	7,015	9,633	6,271	8,936	5,690	7,540	4,154	5,740	3,377	4,263	1,630	2,517	1,317
1,382	1,987	1,357	1,940	1,158	2,840	1,737	691	597	875	685	...	...	...	...
3,093	4,414	3,374	4,121	3,212	4,415	3,655	2,784	2,368	2,897	1,987	...	...	...	...
3,093	652,931	605,125	736,662	683,384	773,116	718,261	735,047	706,413	697,346	658,755	724,255	668,051	794,362	760,343

Work done by vaccinators employed in the Hill Tracts of Ganjam, Jeypore, Gunaspur, Gudum and Bhadréchalam.

GOVERNMENT OF MADRAS.
•
PUBLIC DEPARTMENT.

Read—the following paper:—

From the Sanitary Commissioner for Madras, dated 5th August 1889, forwarding statistical returns and brief notes on vaccination for 1888-89.

ORDER—dated 19th October 1889, No. 827, Public.

The paper read above contains the report of the Inspector of Vaccination for 1888-89 submitted by the Sanitary Commissioner.

2. The following table shows the total number of operations performed by the various vaccine agencies during each of the last five years:—

	1883.	1884.	1885.	1886.	1887-88.	1888-89.
Operations performed—						
(a) By Government vaccinators in Agency Tracts.	16,891	12,401	9,985	8,514	9,816	17,101
(b) By Local Fund vaccinators	595,214	621,812	612,057	588,750	625,705	676,229
(c) „ Municipal vaccinators, including Madras.	96,274	112,812	96,922	74,012	75,535	85,571
(d) In Cantonments	4,561	4,158	2,933	3,164	3,987	4,971
(e) „ Dispensaries	13,280	22,589	23,616	17,243	14,174	18,821
(f) Other operations by medical subordinates	14,210	14,045	11,567	9,485	5,181	4,371
(g) In the Zomindaries of Jeypore and Arni	4,752	4,508	4,082	4,629	4,042	2,271
Total	745,123	792,303	761,162	705,587	738,480	809,411

The increased outturn in the year under review is noted with much satisfaction.

	Average cost per successful case.	Percentage of operations inspected by Dy. Inspectors.
* 1887-88	A. P. 4 1	50
1888-89	3 11	57.9

again shows a decrease, and that, while the general proportion of successful operations was 95 in 100, 16 per cent. of the operations performed in dispensaries were successful. The only district in which vaccinations by medical officers in dispensaries were throughout fairly satisfactory was Chingleput, in which 100 cases were vaccinated, less than 100 cases, while the district itself was 95 in 100. In respect of vaccination of this class. It is hoped that the results of paragraph 4 of G.O., dated 14th January 1889, will be better results in the current year.

3. Leaving out of account the work Secunderabad, the proportion of the year to the population of the

The average outturn per vaccinator employed was 986 operations or 82 *per mensem*, against 922 or 77 *per mensem* in 1887-88. The highest average (1,042 cases) is shown by the Local Fund vaccinators and the lowest (567) by those working in zemindaries.

4. It should be explained how the number of vaccinators employed in zemindaries comes to have fallen from 10 to 4, and whether these officers are employed and paid by the zemindars. If not, it is not understood why the work done in Jeypore should be shown partly under this head and partly under "Agency Tracts."

5. The work performed in individual Municipalities and Local Fund districts is being noticed in the Local and Municipal Department when reviewing the administration report of these bodies and will be further dealt with in the general Local Fund and Municipal reviews for 1888-89. It will be sufficient to observe here that vaccination was compulsory in the 21 Municipalities noted in the margin, in the last six of which it was introduced during the year under review. The Inspector of Vaccination should have entered Erode in paragraph 17 of his

Ongole.	Vellore.
Anantapur.	Coonoor.
Rajahmundry.	Ootacamund.
Palacotta.	Chidambaram.
Ellore.	Erode.
Negapatam.	Masulipatam.
Tinnevely.	Srirangam.
Cuddapah.	Dindigul.
Nellore.	Guntur.
Mayavaram.	Coimbatore.
Adoni.	

report, vaccination having been made compulsory there with effect from 1st April 1888 under G.O., dated 18th February 1888, No. 171 M. The total number of operations performed in these towns amounted to 45.1 per 1,000 of their aggregate population.

6. In 1887-88 animal vaccination was practised in the districts of Bellary, Kurnool, Vizagapatam, Salem, South Arcot, Tanjore, Cuddapah and Godavari. In the last two of these it was abandoned in the year under review, but it was introduced in Chingleput, Nellore, Madura and Malabar. In all 42,445 operations were performed with animal lymph, of which 39,816 were successful, against 13,587 (with 11,938 successful cases) in 1887-88. The large increase in the number of operations and in the percentage which proved successful (94 against 86) is a matter for congratulation. The desirability of superseding human by animal vaccine has recently been impressed in the Local and Municipal Departments on all Local Boards and Municipalities. The average cost of each successful operation performed by this method is reported to have been As. 1-4, against As. 3-11 for vaccine operations generally, but it seems likely that a proportionate share of the cost of establishments has not been debited to animal vaccination in making out the above average. This should be done in future, the pay of a vaccinator who operates with both kinds of lymph (human and animal) being distributed according to the number of operations performed with each.