

Report on Vaccination in the
Madras Presidency for the
Year 1901-02



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**REPORT ON VACCINATION IN THE MADRAS PRESIDENCY
 FOR THE YEAR 1901-1902.**

From Captain J. W. CORNWALL, I.M.S., Acting Inspector of Vaccination and Deputy Sanitary Commissioner for Madras, to the Sanitary Commissioner for Madras, dated 20th June 1902, No. 699-V.

I have the honour to submit the annual report on vaccination in the Madras Presidency for 1901-1902, which includes a review of the past triennium.

2. The post of Inspector of Vaccination and Deputy Sanitary Commissioner was held from 1st to 22nd April by Major A. E. Grant, I.M.S., in addition to his duties as Acting Sanitary Commissioner and from 23rd April to 30th June by myself. On 1st July the Madras Medical College reorganization scheme came into force, whereby the Professorship of Hygiene and Practical Bacteriology was superadded to the duties of the Inspector of Vaccination, making it impossible for him to tour during the College Sessions, i.e., 9 months of the year. From 1st July to 26th August this post was held by myself. From 26th August to 17th December the post was vacant, as regards the vaccination half of it. From 18th December to 15th January it was nominally held by Major A. E. Grant, I.M.S., who was, however, absent on deputation the greater part of the time. From 16th January to 31st March it was held by myself.

It is obvious from the above that the work of the department has not had full justice done to it during the past year, nor even in the year 1900-1901—vide paragraph 4 of covering letter of Acting Sanitary Commissioner No. 1454-S., dated 15th July 1901, included in the printed report on vaccination for 1900-1901.

3. The following statement shows the strength of establishment employed during the last three years with the pay of each post:—

Years.	First-class Deputy Inspectors.	Second-class Deputy Inspectors.	First-class Vaccinators.	Second-class Vaccinators.	Probationers.	Total number of vaccinators.
	Rs. 70—60.	Rs. 40.	Rs. 20—15.	Rs. 12—10.	Rs. 7—5.	
1899-1900	33	* 28	272	415	137	824
1900-1901	33	* 30	278	428	138	844
1901-1902	33	* 30	275	418	141	834

* Includes four Assistant Deputy Inspectors employed by the Madras Municipality.

4. The following table shows the total vaccination work done by all agencies throughout the Presidency:—

	1899-1900.	1900-1901.	1901-1902.
Primary vaccinations	1,098,821	1,181,375	1,235,196
Re-vaccinations	62,588	76,508	89,910
Total ..	1,159,409	1,257,883	1,325,106

The increase is satisfactory and is due partly to extension of vaccination in Local Fund areas and partly to recovery from the temporary fall caused by the plague scare.

The districts which show the largest increase are Vizagapatam (16,657), Madura (11,336), Coimbatore (10,214), South Canara (8,210), Malabar (7,378), and Ganjam (4,692), while in the following there has been a decrease—Salem (7,872), Tanjore (4,612), Kistna (4,467), Chingleput (3,146), Gódvári (1,175), Kurnool (909), Bellary (648), * Nilgiris (404) and Anantapur (170).

The attention of the respective Presidents of the District Boards has been drawn to the existence of decreases in the quarterly reviews of this office.

Note.—The asterisk denotes that there was a decrease last year also.

The explanations of the decreases offered by the Deputy Inspectors of Vaccination concerned are,—

Salem.—Absence of vaccinators without substitute, failure of supply of paste from the local depot and evacuation of villages in some taluks on account of plague.

Tanjore.—Absence of vaccinators without substitute and want of help from revenue authorities.

Kistna.—Absence of vaccinators without substitute and failure of supply of lymph from the local depot.

Chingleput.—Absence of vaccinators without substitute, paucity of cases, insufficiency and inertness of lymph supplied, and the non-performance of their minima by most of the vaccinators.

Gódvári.—Temporary vaccinators were dispensed with during the year and the permanent staff was otherwise incomplete.

Kurnool.—Incompleteness of staff and non-receipt of supply of paste from Bangalore.

Bellary.—Transfer of vaccinators without proper substitutes and no deduction from the pay of the vaccinators for short work after they had been put under the direct orders of the Tahsildar.

Nilgiris and Anantapur.—Incompleteness of staff.

The reason almost invariably put forward to account for decreases is incompleteness of staff. No doubt there are difficulties in the way of providing qualified substitutes for vaccinators who have retired or gone on leave since it is not work that many persons fancy, but Local Boards do not always appear to be as prompt as they might be in filling up vacancies, and delays of several months sometimes occur. Insufficiency of lymph and the occasional supply of inert lymph from local depots will, it is hoped, never be cited as reasons for a decrease in the number of vaccinations when the Vaccine Institute at Guindy is in working order.

5. The subjoined table shows the total successful vaccinations by all agencies and the percentage of successful cases including re-vaccinations :—

Establishment.	Number of successful vaccinations.					
	1899-1900.		1900-1901.		1901-1902.	
	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.
1	2	3	4	5	6	7
Local Fund vaccinators ...	833,403	19,866	902,690	22,989	948,948	23,966
Government do. ...	28,087	1,572	29,911	2,346	24,806	2,408
Zamindari do. ...	6,793	10	6,548	12	7,862	87
Municipal do. ...	96,586	13,489	99,284	17,204	105,298	22,879
Cantonment do. ...	4,824	524	5,427	731	6,018	1,549
Dispensaries ...	9,019	884	8,952	1,966	9,552	1,864
Medical subordinates ...	2,865	7,048	8,200	8,693	8,844	9,267
Total ...	980,587	43,893	1,053,203	53,340	1,104,434	68,040

Establishment—cont.	Ratio per cent. of successful cases.						Ratio per cent. of total successful cases.		
	1899-1900.		1900-1901.		1901-1902.		1899-1900.	1900-1901.	1901-1902.
	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.			
8	9	10	11	12	13	14	15	16	
Local Fund vaccinators ...	91.7	77.4	91.9	78.6	91.7	74.8	91.3	91.5	91.2
Government do. ...	88.1	78.9	87.8	87.0	88.2	89.8	85.7	87.5	86.5
Zamindari do. ...	77.4	100.0	69.7	100.0	85.5	100.0	77.5	69.8	85.6
Municipal do. ...	96.1	79.7	95.8	80.8	96.7	76.5	93.7	93.3	92.4
Cantonment do. ...	98.2	56.0	96.5	82.9	93.8	60.4	89.9	90.8	82.7
Dispensaries ...	91.0	71.5	90.5	80.2	90.0	75.5	88.8	89.0	87.2
Medical subordinates ...	79.7	68.6	81.3	69.4	84.8	79.0	71.5	72.2	80.5
Total ...	91.8	76.1	91.9	77.7	92.0	76.1	91.0	91.1	91.0

Note.—The statistics given in this statement include those exhibited in statements I and III appended to this report.

The number of re-vaccinations performed in Local Fund areas has decreased by over 20,000 since the previous triennium, but in municipalities it has increased by 10,000. It is a remarkable circumstance that every one of the 185 re-vaccinations performed by zamindari vaccinators during the last six years has proved successful, although the same men show a very low percentage in primary vaccination. One is justified in doubting the correctness of such a phenomenal rate of success. The total percentage of successes in re-vaccination has now settled at about 76 per cent., which is probably approximately correct.

6. The following table shows operations arranged according to ages :—

Establishment.	Ages of primary and secondary cases successfully vaccinated in 1899-1900.				Ages of primary and secondary cases successfully vaccinated in 1900-1901.				Ages of primary and secondary cases successfully vaccinated in 1901-1902.			
	Under one year.			Total number of persons vaccinated in 1899-1900.	Under one year.			Total number of persons vaccinated in 1900-1901.	Under one year.			Total number of persons vaccinated in 1901-1902.
	Under one year.	Over one and under six years.	Above six years.		Under one year.	Over one and under six years.	Above six years.		Under one year.	Over one and under six years.	Above six years.	
Local Funds ...	251,946	456,527	125,130	833,603	273,628	490,831	126,791	891,250	1,046,117	278,948	527,667	1,352,732
Government ...	3,137	14,547	10,368	28,052	18,148	35,530	4,077	57,755	35,772	3,921	18,844	28,173
Zamindari ...	861	5,475	4,324	6,660	5,947	1,113	2,238	9,298	6,643	906	4,391	11,940
Municipalities ...	68,880	25,647	6,689	101,216	120,442	25,633	7,377	153,452	131,195	68,961	23,397	224,553
Cantonments ...	2,798	1,433	595	4,826	3,176	1,504	746	5,426	6,844	3,373	1,646	11,863
Civil dispensaries ...	1,960	5,036	2,024	9,020	11,589	5,046	1,617	18,252	12,164	1,940	5,452	20,556
Medical subordinates ...	21	78	2,766	2,865	7	81	3,162	3,250	17,148	84	680	17,912
Total ...	324,841	506,545	146,501	1,159,400	350,763	630,188	168,251	1,159,202	1,237,883	356,467	581,275	1,325,625

Note.—The statistics given in this statement include those exhibited in statements I and III appended to this report.
* Includes re-vaccination.

Compared with the results obtained last year, the districts which show an increase in infantile vaccination, i.e., the proportion of successful vaccinations under one year to the number of births during the year, are Coimbatore (16.6), Madura (10.1), South Canara (9.8), North Arcot (8.1), Vizagapatam (4.3), Nellore (3.5), Tinnevely (2.6), Malabar (1.7), Trichinopoly (1.7), Kurnool (1.5), Cuddapah (0.9) and Tanjore (0.2). The following districts show a decrease :—Kistna (8.8), Anantapur (7.5), Nilgiris (6.8), Bellary (4.3), Salem (4.1), South Arcot (1.2), Ganjam (1.1) and Chingleput (1.0). All of these latter, with the exception of South Arcot and Chingleput, showed a substantial increase last year, which they have not been able to maintain. The reasons alleged are absence of vaccinators without substitute, inert lymph, and unwillingness of people to get their children vaccinated.

As regards municipalities a ratio of 75 per cent. and upwards has been attained by 47 towns against 42 last year. Those which show the largest increase are Kodakānal (57.9), Dindigul (50.6), Calicut (47.2), Palamcottah (37.4), Cannanore (33.3), Vellore (32.2), Gochin (27.4), Mangalore (25.5), Tinnevely (24.4), Tirupati (23.9), Kurnool (23.4) and Cuddapah (21.8).

7. The following table shows the cost of various establishments and the average cost of each successful case during the three years under review :—

Establishment.	Total expenditure.			Average cost of each successful case.		
	1899-1900.	1900-1901.	1901-1902.	1899-1900.	1900-1901.	1901-1902.
Government establishment.	Rs. A. P. 11,468 1 5	Rs. A. P. 11,745 15 6	Rs. A. P. 11,843 0 4	Rs. A. P. 0 6 2	Rs. A. P. 0 6 5	Rs. A. P. 0 6 1
Local Fund do.	1,90,604 8 8	1,97,407 7 4	1,98,820 11 8	0 3 7	0 3 5	0 3 3
Municipal do.	81,066 12 10	32,058 5 2	32,806 15 9	0 4 6	0 4 5	0 4 1
Zamindari do.	1,527 9 8	1,721 3 3	1,709 2 4	0 3 7	0 4 2	0 3 5
Cantonment do.	2,282 11 8	2,302 14 11	2,326 14 9	0 6 10	0 6 0	0 6 8
Total ...	* 2,36,949 12 3	* 2,45,235 14 1	* 2,47,506 12 10	0 3 9	0 3 7	0 3 6

* Exclusive of the pay and allowance of the Inspector of Vaccination and Deputy Sanitary Commissioner.

In the vaccination circles the lowest cost per successful case is shown by Vizagapatam (As. 1-10) and the highest, excluding the Nilgiris (As. 10-8), by Rajahmundry Government vaccinators (As. 9-10). In municipalities Calicut has paid As. 1-7 per successful vaccination and Cuddapah As. 10-7.

Though the total expenditure on vaccination has increased the larger number of successful operations has reduced the average cost of each case.

8. During the past three years the average annual number of successful operations in municipalities was 121,246, with an increase of 7,434 when compared with the previous triennial period. This is largely due to the diminution of plague scare, and as this is now passing away the last year shows a considerable increase.

The largest decreases last year in the total number of operations are shown by the following :—Salem (355), Gudiyattam (169), Trichinopoly (163), Masulipatam (116), and large increases are shown by Madras (5,694), Calicut (4,586), Coimbatore (924), Mangalore (534), Cochin (525) and Dindigul (425).

A considerable amount of trouble is given to this office by the carelessness with which the monthly return under G.O., No. 1502 M., dated 19th October 1894, is made out and the number of references that are entailed thereby. This is chiefly because Chairmen are in the habit of relieving themselves of all responsibility by delegating its preparation to the Municipal Vaccinators, and seldom trouble to check its accuracy in any way as it passes through their offices. Correspondence on this subject with a Chairman not unfrequently resolves itself into an exchange of opinions between this office and the local vaccinator, the Chairman intervening merely as a forwarding agency. In a few cases the returns are checked by the local medical officer or District Sanitary officer. This practice is greatly to be commended as it is far easier for errors and discrepancies to be corrected and accounted for on the spot, than by letter from this office.

Much variation is found in the proportion of arrears to current work in the different municipalities. Local conditions may have some influence, but I am inclined to think that it is good work on the part of the vaccinators, combined with strict local supervision, which prevent the accumulation of arrears to a greater extent than the obstinacy and apathy of the populace, their constant movements in and out of town and the prevalence of disease, favour postponements. Ellore and Madura are particularly good in this respect, their arrears being often only one-fourth of their current cases, while Nellore, Rajahmundry and Tirupati are particularly bad, their arrears being sometimes one and-a-half to three times more numerous than their current cases. If a large town like Madura can prevent the accumulation of arrears, it is only fair to argue that all other towns in the Presidency can do so too, but intelligent local supervision is a necessity. It does not always follow however that towns which have a low proportion of arrears also show good vaccination results. In Ellore and Madura about 70 per cent. and 60 per cent., respectively, of the number of births registered get vaccinated; while in Tanjore and Srirangam where the proportion of arrears is about half only about 20 per cent. and 30 per cent., respectively, get vaccinated. Sometimes it is cases pending before the Magistrate, or inadequate fines, which lead to arrears, but more often it is postponement on medical certificate, i.e., the vaccinator's, for prolonged periods running into years. Berhampur, Cocanada, Nellore, Tirupati, Cuddalore and

Cuddapah are the municipalities which caused the most frequent references to be made on the subject of their monthly returns and are the ones in which vaccination seems to be the most carelessly carried on.

9. In the Local fund areas the progress of vaccination rests principally with the Revenue officials. If the Collector manifests an interest in vaccination and directs, in indubitable terms, his Tahsildars to forward it, village headmen quickly respond and assist the vaccinators, but if vaccinators are left more or less to their own devices difficulties arise and the work suffers. In some districts vaccinators are wholly under the orders of the Tahsildars; in others their movements are controlled by the Deputy Inspectors of Vaccination. In some districts again the weekly diaries of the Deputy Inspectors of Vaccination and the work of the vaccinators are periodically reviewed by the President, District Board, and action is taken thereon, in others little notice is taken of the diaries until this office makes a reference concerning them.

The more local interest is taken in vaccination the better is work performed and the less necessary is it for this office to be constantly drawing attention to the non-maintenance of unprotected lists in certain villages and such like trivialities.

During the past year the non-maintenance of the village unprotected lists, without which it is impossible for the vaccinators to do good work, was the cause of numerous references, South Coimbatore, Cuddapah, Paramagudi, Gudur, Ongole, Trichinopoly and Ariyalur being the worst ranges in this respect.

10. The percentage of success with different kinds of lymph in primary and secondary vaccination (re-vaccination excluded) is compared below :—

Number of cases excluding unknown.	Area.	Method.	Whence obtained.	Percentage of success.
216,506 *	Local Funds	Calf-to-arm	Locally	98.4
68,460	Do.	Animal lymph in tubes and plates.	Transferred from calves for transport or economical reasons.	96.1
414,478 *	Do.	Glycerinated lymph	Locally prepared in different centres.	86.9
306,141 *	Do.	Lanoline lymph	Supplied by the Bangalore Institute.	93.8
186,808	Do.	Do.	Locally prepared	90.4
46,685 *	Municipalities	Do.	Different sources	96.3
20,704 *	Do.	Glycerinated lymph	Locally	93.2

* Includes cases in Madras City.

The figures in this table exhibit some remarkable deviations from last year's. The success rate of glycerinated lymph locally prepared has fallen from 91.5 per cent. to 86.9 per cent., while the rate of locally prepared lanoline lymph has risen from 79.1 per cent. to 90.4 per cent. in Local fund areas. It is impossible to account for these variations, and, considering the magnitude of the numbers dealt with, it seems reasonable to exclude mere chance.

11. The deaths from small-pox amounted to 26,024 or 1,137 less than last year.

12. The diagrams have this year been prepared with the new census figures, which accounts to some extent for the decrease in the proportion of the population protected.

13. The Deputy Inspectors of the following ranges failed to verify the 50 per cent. of cases vaccinated which is required of them :—Saidapet (46.5), * East Coimbatore (41.1), Guntur (49.4), Masulipatam (43.0), Madras (41.1), * Paramagudi (43.4), * Tellicherry (32.5), * Calicut (30.8), * Palghat (48.2), * Nilgiris (44.1), Tiruvannamalai (45.2), South Canara, North (43.6), Vizagapatam (45.7).

Note.—An asterisk denotes that 50 per cent. was not attained in this range in the previous year.

Excluding Sundays and holidays the number of working days is about 280. The average number of days spent on inspection work by each of the 57 Deputy Inspectors of Vaccination (excluding Madras) was 243.

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1901.	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 and	
						Males.	Females.	Total.		Total.	Under 1 year.
1	2	3	4	5	6	7	8	9	10	11	12
1	Anantapur.	Anantapur circle	454,372	141	10	6,033	5,628	11,661	1,166	11,497	4,517
		Penakonda do.	325,944			4,638	4,045	8,683	1,326	9,225	3,001
		Total of district	780,316			10,671	10,273	20,944	1,232	20,722	7,518
3	Bellary.	Bellary circle	566,793	151	15	10,520	10,098	20,618	1,374	20,589	12,786
		Harpanahalli circle	291,758			4,805	4,601	9,406	1,055	9,450	6,098
		Total of district	858,551			15,325	14,799	30,114	1,254	30,036	18,884
5	Chingleput.	Chingleput circle	1,255,407	408	13	9,719	9,598	19,317	1,485	18,559	8,919
		Saidpet do.	1,255,407			10,031	9,821	19,852	1,759	18,581	6,820
		Total of district	1,255,407			19,753	18,919	38,672	1,611	37,140	15,539
7	Coimbatore.	North Coimbatore circle	588,268	192	11	8,955	8,653	17,608	1,601	17,349	8,638
		South do.	616,892			9,634	9,241	18,875	1,887	18,427	6,979
		East do.	885,115			15,189	15,930	30,219	1,888	29,831	10,258
		Total of district	2,120,374			33,778	32,824	66,702	1,802	65,091	25,875
10	Cuddapah.	Cuddapah circle	1,274,835	146	10	4,806	4,614	9,420	885	8,707	1,828
		Madanapalle do.	1,274,835			6,943	6,536	13,479	968	13,297	3,856
		Sidhout do.	1,274,835			3,665	3,656	7,321	960	6,525	1,883
		Total of district	1,274,835			15,414	14,806	30,220	937	29,139	7,567
13	Ganjapur.	Chitradurga circle	1,948,995	233	12	10,119	9,906	20,025	1,669	19,591	2,979
		Chitradurga do.	1,948,995			8,950	8,869	17,819	1,485	17,729	4,693
		Ganjapur hill tracts	1,948,995			9,416	8,168	17,584	1,352	15,568	1,887
		Rasulnagar circle	1,948,995			6,214	5,782	11,996	1,713	11,959	845
		Total of district	1,948,995			34,699	32,725	67,424	1,532	65,147	10,404
17	Golconda.	Ellore circle	2,183,734	274	15	19,194	17,592	36,786	2,452	34,691	3,869
		Pittapur circle	2,183,734			15,722	15,484	31,206	1,885	30,911	3,075
		Rajahmundry circle	2,183,734			10,541	9,987	20,528	2,281	18,562	1,747
		Government vaccinators.	2,183,734			4,669	4,162	8,831	1,904	8,920	1,130
		Total of district	2,183,734			50,126	47,225	97,351	2,034	95,084	9,821
20	Kistna.	Guntur circle	970,910	243	18	16,105	15,718	31,823	1,768	31,349	6,015
		Masulipatnam circle	970,910			12,778	12,493	25,271	1,360	24,342	4,114
		Narasaraopet do.	970,910			6,034	5,758	11,792	1,179	11,098	2,789
		Total of district	2,960,249			34,917	33,969	68,886	1,465	67,389	12,918
23	Kurnool.	Cumbum circle	863,806	114	12	7,310	5,957	12,977	1,081	12,290	3,167
		Kurnool do.	863,806			9,003	7,293	16,296	1,358	15,576	3,578
		Total of district	863,806			16,313	13,250	29,563	1,219	27,866	6,745
25	Madura.	Dindigul circle	923,039	307	15	14,696	14,212	28,908	1,927	26,659	11,846
		Madura do.	923,039			10,212	9,911	20,123	1,829	18,869	7,694
		Paramagudi do.	1,118,922			15,896	14,777	30,673	1,764	29,838	8,170
		Total of district	2,663,074			40,804	38,900	79,704	1,811	75,366	27,710

DEPARTMENT.

Madras Presidency during the official year 1901-1902.

secondary vaccinations.		Re-vaccination.		Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.		Average number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.											
Over 1 and under 6 years.	Total of all ages.	Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.
11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33	34
6,031	11,121	365	11	164	157	6	1	96.6	96.3	24.5	0.3
5,629	8,973	211	41	58	41	16	1	97.7	97.9	27.5	0.1
11,660	20,994	576	52	222	198	22	2	97.2	96.6	25.8	0.2
6,590	19,766	642	218	32	24	5	3	97.0	82.7	31.9	0.04
2,617	5,180	229	41	49	36	6	1	97.5	89.0	31.5	0.1
9,207	28,046	831	259	78	69	14	4	97.2	81.1	33.7	0.1
4,814	14,975	3,041	543	758	561	147	50	83.1	79.2	23.5	0.8
7,031	14,515	3,761	365	771	432	308	34	79.4	58.3	23.5	0.8
11,875	29,490	6,892	818	1,532	993	455	84	81.2	68.5	23.5	0.8
6,033	15,073	1,333	877	265	191	50	24	91.5	79.2	25.3	0.3
8,872	16,368	1,485	544	448	293	121	34	91.9	79.7	25.3	0.4
15,082	26,495	1,973	1,363	388	267	80	31	83.1	74.7	29.9	0.3
30,017	57,966	4,851	2,784	1,101	751	291	89	92.2	71.2	27.3	0.3
4,921	8,272	361	71	143	102	21	20	95.8	82.9	21.7	0.4
7,617	13,014	182	11	272	211	57	1	98.5	78.9	21.7	0.4
3,588	6,382	95	48	196	162	29	5	98.5	84.8	21.7	0.4
16,126	27,668	638	133	611	478	107	26	97.7	81.7	21.7	0.4
12,642	17,049	2,087	764	134	73	39	22	89.1	63.1	25.3	0.9
9,586	15,322	1,718	689	90	37	44	5	89.9	45.6	25.3	0.9
5,668	14,618	726	224	2,016	1,782	240	23	95.2	89.4	25.3	0.9
8,311	10,016	1,358	585	37	20	13	3	88.1	60.6	25.3	0.9
30,249	55,996	5,899	2,532	2,277	1,912	366	59	90.6	85.1	29.3	0.9
15,872	26,217	3,009	2,465	2,995	2,556	1,122	317	81.3	66.9	30.9	0.7
13,927	24,048	7,787	4,076	235	87	127	81	72.9	49.6	30.9	0.7
9,757	15,131	2,259	1,182	1,909	764	901	361	87.1	45.8	30.9	0.7
3,437	5,637	1,629	1,354	211	104	43	28	78.1	67.9	30.9	0.7
43,013	67,323	17,688	8,677	1,567	1,011	2,369	757	75.1	42.2	30.9	0.7
13,816	22,201	8,602	544	474	222	244	8	72.1	47.6	22.9	0.2
12,725	20,965	3,329	48	959	769	161	2	86.4	82.0	30.6	1.1
5,083	8,565	2,052	84	34	59	34	1	73.7	63.1	21.2	0.1
31,624	51,732	14,983	671	1,497	1,947	433	11	77.5	70.4	25.1	0.5
5,919	11,301	861	125	687	534	52	11	92.9	87.8	30.1	1.4
7,902	14,927	332	317	720	603	55	69	97.8	91.6	31.8	1.4
13,821	26,231	1,163	442	1,437	1,199	137	79	85.6	89.7	30.4	1.4
12,696	25,937	412	289	2,249	2,097	98	52	98.3	95.5	28.1	2.3
8,531	18,539	179	151	1,251	1,175	28	41	96.5	96.8	29.8	1.9
17,397	28,780	893	165	855	637	156	48	96.9	89.9	25.7	0.6
38,311	76,253	1,514	593	4,338	3,989	286	133	99.7	93.1	27.5	1.4

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1901.	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 and	
						Males.	Females.	Total.		Total.	Under 1 year.
1	2	3	4	5	6	7			8	9	10
1	Anantapur.	Anantapur circle	454,372	141	10	6,033	5,628	11,661	1,166	11,497	4,517
2		Pennakonda do.	325,944		7	4,639	4,645	9,284	1,326	9,225	3,001
		Total of district	780,316	141	17	10,671	10,273	20,944	1,232	20,722	7,518
3	Bellary.	Bellary circle	566,793	151	15	10,520	10,098	20,618	1,374	20,580	12,736
4		Harpanahalli circle	291,758		9	4,805	4,691	9,496	1,055	9,450	6,098
		Total of district	858,551	151	24	15,325	14,789	30,114	1,254	30,036	18,834
5	Chingleput.	Chingleput circle	1,255,407	408	13	9,719	9,598	19,317	1,485	18,559	8,919
6		Saidapet do.			11	10,034	9,321	19,355	1,759	18,581	6,820
		Total of district	1,255,407	408	24	19,753	18,919	38,672	1,611	37,140	15,539
7	Coimbatore.	North Coimbatore circle	588,268	192	11	8,055	8,653	17,008	1,601	17,343	8,638
8		South do.	646,992	320	10	9,634	9,241	18,875	1,887	18,427	6,979
9		East do.	883,114	319	16	15,183	15,030	30,219	1,888	29,831	10,258
		Total of district	2,120,374	270	37	33,778	32,924	66,702	1,862	65,601	25,875
10	Cuddapah.	Cuddapah circle	1,274,835	146	10	4,806	4,044	8,850	885	8,707	1,828
11		Madanapalle do.			14	6,943	6,530	13,479	968	13,207	3,856
12		Sidhout do.			7	3,655	3,050	6,721	940	6,525	1,833
		Total of district	1,274,835	146	31	15,414	13,624	29,050	937	28,430	7,567
13	Ganjam.	Chatrapur circle	1,948,995	233	12	10,119	9,906	20,025	1,689	19,891	2,979
14		Chicacole do.			12	8,950	8,889	17,819	1,485	17,729	4,693
15		Ganjam hill tracts			13	9,416	8,168	17,584	1,352	15,568	1,897
16		Russellkonda circle			7	6,214	5,782	11,996	1,713	11,969	845
		Total of district	1,948,995	233	44	34,699	32,725	67,424	1,532	65,147	10,404
17	Golconda.	Ellore circle	2,183,734	274	15	19,104	17,592	36,786	2,452	34,691	3,969
18		Pittapore circle			17	15,722	13,484	29,206	1,885	30,911	8,075
19		Rajahmundry circle			9	10,541	9,887	20,528	2,281	18,562	1,747
		Government vaccinators.			7	4,609	4,402	9,131	1,304	8,920	1,130
		Total of district	2,183,734	274	48	50,126	47,525	97,651	2,034	93,084	9,821
20	Kistna.	Guntur circle	970,910	243	18	16,105	15,718	31,823	1,794	31,349	6,015
21		Masulipatam circle	684,651		19	12,773	12,493	25,271	1,390	24,342	4,114
22		Narasaraopet do.	404,678		10	6,034	5,758	11,792	1,179	11,698	2,789
		Total of district	2,060,239	243	47	34,917	33,969	68,886	1,463	67,389	12,918
23	Kurnool.	Canham circle	863,806	114	12	7,310	5,637	12,977	1,081	12,290	3,167
24		Kurnool do.			12	9,003	7,293	16,296	1,358	15,576	5,578
		Total of district	863,806	114	24	16,313	12,930	29,273	1,319	27,866	8,745
25	Madura.	Dindigul circle	923,039	307	15	14,606	14,212	28,808	1,927	26,659	11,846
26		Madura do.	821,943		11	10,212	9,911	20,123	1,829	18,869	7,904
27		Paramagudi do.	1,118,092		18	15,896	14,777	30,673	1,704	28,838	8,170
		Total of district	2,863,074	307	44	40,804	38,900	79,704	1,811	75,366	27,920

DEPARTMENT.

Madras Presidency during the official year 1901-1902.

secondary vaccinations.		Re-vaccination.		Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.		Average number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.											
Over 1 and under 6 years.	Total of all ages.	Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.
11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	32	33	34
6,031	11,121	365	11	164	157	6	1	96.8	86.3	24.5	0.3
5,629	8,973	211	41	58	41	16	1	97.7	71.9	27.5	0.1
11,630	20,091	576	52	222	198	22	2	97.2	90.0	25.8	0.2
6,590	19,766	602	218	32	21	5	3	97.0	82.7	34.9	0.04
2,617	8,180	229	41	40	36	9	1	97.5	80.0	31.5	0.1
9,207	28,946	831	259	78	60	14	4	97.2	81.1	33.7	0.1
4,844	14,975	3,041	543	758	561	147	50	83.1	79.2	23.5	0.8
7,031	14,515	3,761	305	774	432	308	34	79.4	58.8	23.5	0.8
11,875	29,490	6,802	818	1,532	993	455	84	81.2	68.5	23.5	0.8
6,033	15,073	1,333	877	265	191	50	24	91.5	79.2	25.6	0.3
8,872	16,898	1,435	544	448	298	121	34	91.6	70.7	25.8	0.4
15,082	26,495	1,973	1,363	388	267	90	31	93.1	74.7	29.9	0.3
30,017	57,966	4,851	2,784	1,101	751	261	89	92.2	74.2	27.3	0.3
4,931	8,272	361	74	143	102	21	20	95.8	82.9	21.7	0.4
7,617	13,014	182	11	272	214	57	1	98.6	78.9	21.7	0.4
3,588	6,382	95	48	196	162	29	5	98.5	84.8	22.1	0.4
16,126	27,638	638	133	611	478	107	26	97.7	81.7	21.7	0.4
12,642	17,040	2,087	784	131	73	39	22	89.1	65.1	25.3	0.9
9,586	15,322	1,718	689	90	37	44	9	89.9	45.6	25.3	0.9
5,068	14,618	726	224	2,016	1,782	210	24	95.2	89.4	25.3	0.9
8,344	10,016	1,358	585	37	20	13	4	88.1	60.6	25.3	0.9
36,310	56,966	5,880	2,262	2,277	1,912	306	59	90.6	85.1	29.3	0.9
15,872	26,217	6,000	2,465	2,095	656	1,122	317	81.8	36.9	30.9	0.7
13,927	20,048	7,787	3,076	295	87	127	61	72.9	40.6	30.9	0.7
9,757	16,131	2,259	1,182	1,966	764	901	301	87.9	45.8	30.9	0.7
3,457	5,937	1,629	1,354	211	104	40	58	78.1	67.9	30.9	0.7
43,013	67,323	17,084	8,077	4,587	1,611	2,199	757	70.1	42.2	30.9	0.7
13,816	22,201	8,302	543	474	222	244	8	72.1	47.6	22.9	0.2
12,725	20,905	3,329	48	929	768	161	2	86.2	82.6	30.6	1.1
5,083	8,563	3,052	83	94	59	84	1	73.7	63.4	21.2	0.1
81,624	51,732	14,983	671	1,497	1,047	439	11	77.5	70.4	25.1	0.5
5,919	11,304	861	125	687	594	82	11	92.9	87.8	30.4	1.4
7,902	14,927	332	317	720	605	55	60	97.8	91.6	30.4	1.4
13,821	20,281	1,198	442	1,437	1,199	137	71	95.6	89.7	30.4	1.4
12,680	25,937	442	280	2,249	2,097	98	54	98.3	95.5	28.1	2.3
8,531	18,530	179	151	1,254	1,175	38	41	95.5	96.8	29.8	1.9
17,397	28,780	893	165	835	637	150	48	96.9	80.9	25.7	0.6
38,614	73,250	1,514	596	4,338	3,909	286	143	90.7	93.1	27.5	1.4

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1901.	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 and				
						Males.	Females.	Total.		Total.	Under 1 year.			
1	2	3	4	5	6	7			8	9	10			
28	Malabar.	Tellicherry circle	664,757	451	{ 12 19 12	Males.	Females.	Total.	1,763	21,248	231			
29		Calicut do.	1,054,536			11,357	10,089	21,396				1,672	30,842	
30		Palghat do.	874,662			17,696	14,078	31,772				2,564	29,166	1,133
		Total of district	2,594,155			45	45,970	37,965				83,935	1,962	81,246
31	Nellore.	Central circle	487,437	182	{ 9 9 18	6,337	6,418	12,755	1,417	12,772	2,887			
32		Southern do.	349,712			5,817	5,229	10,546				1,172	10,421	2,725
33		Northern do.	614,934			8,963	8,389	16,732				1,287	16,601	2,486
		Total of district	1,452,083			166	31	20,017				20,016	40,033	1,291
34	Nilgiri.	Nilgiri circle	84,316	90	4	2,053	1,885	3,438	859	3,143	385			
		Total of district	84,316	90	4	2,053	1,885	3,438	859	3,143	385			
35	North Arcot.	Chittoor circle	695,138	288	{ 13 12 11	8,802	8,174	16,976	1,306	16,612	5,899			
36		Vellore do.	775,035			9,240	6,389	15,669				1,305	13,167	4,059
37		Karvetnagar do.	647,117			7,079	6,710	13,789				1,253	13,665	3,643
		Total of district	2,117,289			36	25,161	21,273				46,434	1,290	43,444
38	Salem.	Northern circle		280	{ 11 17 17	7,867	7,968	15,865	1,442	15,072	8,086			
39		Salem do.	2,103,659			11,734	11,253	23,987				1,351	22,065	6,819
40		Namakkal do.				12,565	12,176	24,741				1,455	23,999	6,925
		Total of district	2,103,659			45	32,166	31,407				63,573	1,413	61,136
41	South Arcot.	Cuddalore circle		435	{ 14 6 8	13,274	12,405	25,679	1,834	25,301	9,573			
42		Vridhdachalam circle	2,280,700			6,900	7,072	13,972				2,328	13,877	4,888
43		Tiruvannamalai do.				9,479	8,879	18,358				2,294	18,169	5,489
		Total of district	2,280,700			38	29,653	28,356				58,009	2,072	57,367
44	South Canara.	Northern circle	673,875	271	{ 14 11	15,836	14,034	29,870	2,133	27,037	8,391			
45		Kasaragod do.	418,122			9,432	9,385	19,607				1,709	17,604	2,640
		Total of district	1,091,997			25	25,268	23,419				48,677	1,947	44,641
46	Tanjore.	Tanjore circle		550	{ 13 13 10	12,705	12,288	24,973	1,921	24,448	4,890			
47		Negapatam do.	2,025,471			11,747	11,780	23,527				1,809	22,186	4,977
48		Pattukkottai do.				9,334	9,084	18,418				1,842	18,191	3,277
		Total of district	2,025,471			36	33,786	33,152				66,918	1,869	64,825
49	Tinnevely.	Srivilliputhur circle	599,037	330	{ 11 10 15	12,127	11,745	23,872	2,170	23,960	6,850			
50		Sermadévi do.	539,439			11,120	10,688	21,808				2,181	20,843	6,517
51		Tinnevely do.	766,687			15,423	15,216	30,639				2,042	30,317	11,063
		Total of district	1,925,163			36	38,670	37,647				76,317	2,119	74,120
52	Trichinopoly.	Trichinopoly circle	812,045	371	{ 13 9	13,761	13,478	27,239	2,055	27,012	4,489			
53		Ariyalur do.	504,965			7,239	7,218	14,452				1,606	14,321	3,467
		Total of district	1,317,010			22	21,000	20,691				41,691	1,895	41,333

DEPARTMENT.

Madras Presidency during the official year 1901-1902—continued.

Secondary vaccinations.		Re-vaccination.		Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.		Average number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.											
Over 1 and under 6 years.	Total of all ages.	Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.
11	12	13	14	15	16	17	18	19	20	21	22
8,719	16,893	3,700	1,155	148	58	84	6	81.5	40.8	24.6	0.1
11,207	24,798	4,020	2,015	980	340	498	92	95.0	40.5	23.5	0.3
10,645	24,490	3,365	1,301	1,611	705	800	106	87.9	46.8	28.0	0.8
30,571	65,681	11,004	4,371	2,689	1,103	1,382	204	85.5	44.2	25.3	0.4
6,754	11,124	1,049	539	43	20	11	12	91.3	64.5	22.8	0.04
5,519	9,324	661	436	125	77	88	15	93.3	70.0	26.7	0.2
9,876	14,424	1,573	804	131	80	85	16	90.1	69.5	23.4	0.1
22,140	34,972	3,333	1,579	200	177	79	43	91.3	60.1	24.0	0.1
1,600	3,048	71	24	205	274	21	...	97.7	92.8	36.2	3.2
1,600	3,048	71	24	205	274	21	...	97.7	92.8	36.2	3.2
3,220	15,331	194	37	254	313	43	8	98.8	87.9	23.6	0.4
7,587	12,514	449	104	2,502	2,277	221	3	96.5	91.1	16.3	2.9
8,315	18,063	520	62	124	100	21	3	96.1	82.6	20.2	0.1
26,122	42,078	1,163	203	2,390	2,690	235	15	97.3	90.4	19.9	1.2
6,072	13,788	1,189	95	793	587	172	34	92.1	77.3	25.9	0.9
11,539	18,871	2,334	390	902	668	150	84	95.9	81.6	26.8	...
12,065	21,836	1,872	201	742	630	94	18	92.1	87.0	...	...
80,576	54,495	5,895	746	2,437	1,885	416	136	90.2	81.9	25.9	0.9
12,578	24,151	607	543	378	301	37	40	97.5	89.0	24.4	0.2
6,848	13,434	220	223	95	55	21	19	95.3	73.3	...	...
10,855	17,673	863	154	169	136	28	5	97.9	83.9	...	...
30,381	55,258	1,180	930	642	492	86	64	97.3	85.1	24.4	0.2
12,937	25,617	692	728	2,332	1,968	683	182	97.2	74.2	28.0	2.9
7,931	15,769	855	990	1,203	769	244	190	94.3	75.2	38.1	1.9
21,318	41,376	1,547	1,718	4,036	2,737	927	372	97.7	74.7	36.1	2.5
14,733	22,960	1,017	481	525	351	124	50	96.7	73.9	30.3	0.8
13,180	21,402	607	177	1,341	1,162	147	32	97.2	88.7	31.1	...
9,773	16,989	641	561	327	183	23	21	99.3	89.8	...	...
37,841	61,341	2,235	1,219	2,063	1,696	394	106	96.4	85.2	30.3	0.8
10,312	21,310	1,233	387	912	688	156	64	94.3	81.5	25.6	1.1
9,379	19,739	682	422	963	768	108	92	96.6	88.1	35.2	1.3
14,996	23,683	1,076	587	323	231	43	40	96.3	84.6	37.4	0.3
34,837	69,791	3,043	1,976	2,197	1,687	301	209	96.3	84.8	36.2	0.0
16,390	35,718	808	906	227	154	15	58	95.8	81.1	31.6	0.2
8,653	13,503	164	652	181	80	10	41	98.8	88.3	26.7	0.2
24,943	39,318	467	1,643	358	234	25	99	98.8	90.8	29.8	0.1

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1901.	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 and	
						Males.	Females.	Total.		Total.	Under 1 year.
1	2	3	4	5	6	7			8	9	10
54	Vizagapatam.	Gannur circle ...	...	...	8	1,950	1,614	3,564	1,188	3,023	411
55		Zamindari vaccinators.	...	...	4	1,638	1,349	2,987	747	2,000	464
56		Jeypore circle ...	...	...	6	4,154	3,380	7,534	1,255	7,534	440
57		Zamindari vaccinators.	...	...	7	3,805	3,171	6,976	925	6,476	501
		Total of hill tracts ...	...	...	20	11,047	9,514	20,561	1,028	19,883	1,815
	Vizagapatam.	Vizagapatam circle ...	...	...	14	13,576	13,536	27,112	1,936	26,249	5,725
		Government vaccinators (Gudem hills) ...	...	...	1	173	187	360	360	360	44
		Vizianagram circle ...	...	...	18	17,490	17,227	34,717	1,928	34,502	10,565
		Total of district ...	2,829,418	165	53	42,286	40,464	82,750	1,561	81,044	18,149
	Military Cantonnments.	Total of circles and districts ...	35,805,691	253	699	587,820	552,375	1,140,195	1,631	1,102,823	283,239
1		Bangalore ...	89,599	6,929	2	1,415	680	2,095	1,047	752	...
2		Secunderabad ...	91,114	4,796	4	3,212	2,693	5,905	1,476	4,656	2,373
		Total of cantonnments ...	180,718	5,660	6	4,627	3,873	8,000	1,333	5,408	2,373
	Municipalities.	* Medical Subordinates.	...	...	...	16,142	808	17,050	...	4,985	84
1		Adoni ...	30,416	15,208	1	777	703	1,480	1,480	1,422	1,086
2		Anantapur ...	7,938	7,938	1	258	76	334	334	155	185
3		Anakapalle ...	18,530	1,546	1	453	378	831	831	806	586
4	Municipalities.	Bellary ...	58,247	2,340	3	1,833	937	2,770	1,780	1,191	1,191
5		Berhampur ...	25,729	4,432	2	612	484	1,096	548	1,038	491
6		Bezawada ...	24,224	4,609	1	806	494	1,300	993	580	580
7		Bhimipatam ...	10,212	2,446	1	270	215	485	414	297	297
8	Municipalities.	Calicut ...	78,981	5,921	4	6,679	4,081	10,760	2,690	8,140	2,568
9		Cannanore ...	27,811	4,705	1	1,221	778	1,999	1,434	963	412
10		Chicalcoile ...	18,196	6,065	1	489	497	986	639	491	327
11		Chidambaram ...	19,908	9,054	1	363	327	690	657	440	440
12	Municipalities.	Chingleput ...	10,551	8,443	1	507	287	794	794	491	327
13		Cochin ...	19,274	22,027	1	1,112	859	1,971	1,525	588	588
14		Cocanada ...	48,096	6,012	3	4,412	854	5,266	2,633	1,633	1,097
15		Coimbatore ...	53,080	17,698	2	1,663	1,088	2,751	1,375	1,714	1,302
16	Municipalities.	Conjeevaram ...	46,164	11,535	2	977	866	1,843	921	1,696	1,229
17		Coochoor ...	8,525	947	1	502	265	767	767	592	260
18		Cuddalore ...	52,216	3,926	2	1,761	1,443	3,204	1,602	2,990	1,697
19		Cuddapah ...	16,432	842	1	561	145	706	746	428	253
20	Municipalities.	Dindigul ...	25,182	8,394	1	955	725	1,680	1,680	1,582	1,191
21		Ellore ...	38,521	11,174	2	1,800	1,269	3,069	1,536	2,878	1,324
22		Erode ...	15,620	15,529	1	349	202	551	551	504	378
23		Gudiyattam ...	21,335	2,665	1	354	378	732	732	697	626
24	Municipalities.	Guntur ...	80,833	1,719	1	710	611	1,321	1,321	1,218	914
25		Karur ...	12,769	12,769	1	266	226	492	492	447	361
26		Kodakinal ...	1,912	161	1	107	64	201	...	173	101
27		Kumbakonam ...	59,673	9,045	2	996	860	1,856	923	1,746	1,218
28	Municipalities.	Kurnool ...	25,376	5,147	1	786	498	1,284	1,284	981	653
29		Madras ...	509,346	18,864	24	23,813	14,462	38,265	1,594	21,823	14,921
30		Madurai ...	105,994	17,664	3	2,852	2,731	5,583	1,861	5,488	4,067
31		Mannargudi ...	20,449	3,408	1	420	806	735	735	674	479
32	Municipalities.	Mangalore ...	44,108	9,341	8	1,574	1,551	3,125	1,042	2,387	1,213
33		Masulipatam ...	39,507	1,796	1	666	607	1,273	1,273	1,179	979
34		Majavaram ...	24,276	8,092	1	553	377	930	546	895	632
35		Nandiyal ...	15,137	3,027	1	575	412	987	987	928	490
36	Municipalities.	Negapattam ...	57,190	8,798	3	2,634	1,204	3,838	1,279	2,896	1,629
37		Nellore ...	82,040	1,996	1	678	457	1,135	1,135	947	754
38		Ongole ...	12,864	3,216	1	339	224	563	563	619	388
39		Ootacamund ...	18,696	1,690	1	566	555	1,121	1,121	826	685

* Work performed in police hospitals, jails, revenue and other departments.
† Vaccination was performed by the medical officer in charge.

DEPARTMENT.

Madras Presidency during the official year 1901-1902—continued.

Secondary vaccinations.				Re-vaccination.				Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.				Average number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.		Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.	Total.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
Over 1 and under 6 years.	Total of all ages.																
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1,576	2,762	193	68	541	522	15	4	93.4	97.2	...	...	...	...	...	...	...	
1,427	2,563	260	77	87	...	...	...	90.8	100.0	...	...	...	...	...	...	...	
2,990	5,294	2,034	216	...	...	...	...	72.2	...	...	...	...	...	...	...	...	
2,774	5,329	1,078	69	...	...	...	...	83.2	...	...	...	...	...	...	...	...	
8,427	15,938	3,565	430	623	609	15	4	81.7	97.5	...	...	...	...	...	...	...	
16,023	24,942	984	323	863	590	202	71	96.2	74.5	...	...	...	...	...	...	...	
163	285	23	52	...	...	...	...	92.5	...	...	...	...	...	...	...	...	
19,000	32,791	1,199	513	215	129	71	15	96.5	64.5	...	...	...	...	...	...	...	
44,687	78,956	5,771	1,817	1,706	1,323	288	90	92.7	82.1	26.1	0.5	26.6	74,453	26.3	673	0.2	
545,712	980,726	90,749	31,348	37,373	26,461	8,380	2,581	91.5	76.0	27.4	0.7	28.1	929,643	25.9	18,689	0.5	
402	682	70	...	1,343	998	345	...	90.7	74.3	7.6	11.1	18.7	733	8.2	18	0.2	
1,243	4,834	292	30	1,249	551	670	23	93.7	45.1	47.6	6.0	59.6	4,432	49.2	7	0.08	
1,645	5,016	862	30	2,592	1,549	1,015	28	93.3	60.4	27.7	8.6	86.3	5,215	28.8	25	0.1	
669	8,844	717	424	12,065	9,267	2,461	334	84.3	79.0	...	...	...	...	...	...	...	
195	1,298	72	53	53	53	1	4	94.7	98.1	42.3	1.7	44.0	1,297	42.6	1	0.03	
16	152	1	2	179	168	1	10	99.3	99.3	19.1	21.2	40.3	386	45.6	4	0.5	
206	733	23	...	25	16	8	1	97.1	96.6	42.2	0.8	43.0	864	46.1	1	0.05	
460	1,684	79	...	1,040	847	191	2	95.5	81.6	29.1	14.5	43.6	2,413	41.4	2	0.3	
374	887	133	13	63	19	36	8	86.9	34.5	34.5	0.7	35.2	783	30.4	48	1.9	
259	942	37	14	307	246	24	87	96.2	61.1	33.9	10.1	49.0	1,267	62.3	3	0.1	
69	391	23	...	71	38	33	...	94.4	69.5	38.3	3.7	42.0	444	43.5	1	0.1	
2,469	7,581	286	273	2,620	2,036	340	238	96.3	85.4	98.6	26.4	124.9	4,807	62.4	6	0.08	
330	1,331	51	52	565	311	150	104	96.3	67.4	47.8	11.2	59.0	1,264	45.4	1	0.03	
98	526	113	...	347	184	163	...	82.8	53.0	28.9	10.1	39.0	836	48.9	8	0.4	
132	625	18	14	33	18	5	10	97.2	78.2	31.3	0.9	32.2	631	31.7	9	0.4	
71	418	71	2	303	184	70	49	85.5	72.4	38.6	17.4	56.0	548	51.9	2	0.2	
385	1,297	207	21	446	169	253	24	86.1	40.0	67.2	8.8	76.0	1,106	57.4	1	0.05	
341	1,497	110	56	3,603	2,885	534	684	93.1	81.7	31.1	49.6	80.7	3,593	74.7	4	0.08	
283	1,604	38	72	1,037	669	254	114	97.6	72.4	30.2	12.6	42.8	1,780	33.5	14	0.2	
295	1,599	75	22	147	107	27	13	95.5	79.8	84.6	2.3	36.9	1,776	38.5	8	0.2	
228	576	8	8	175	141	5	29	98.6	96.5	67.6	16.5	84.1	596	69.9	1	0.1	
648	2,575	48	367	214	128	12	74	98.1	91.4	49.8	2.4	51.7	2,470	47.3	28	0.5	
106	364	50	12	320	129	99	92	87.9	56.5	22.2	7.8	30.0	420	25.6	10	0.6	
345	1,549	23	10	98	85	6	7	98.5	93.4	61.5	3.3	64.8	930	36.9	16	0.6	
701	2,878	5	...	391	345	46	...	99.8	88.2	79.7	10.8	90.0	2,469	73.6	6	0.2	
95	487	17	...	47	37	10	...	96.6	78.7	31.3	2.4	33.7	543	35.0	1	0.06	
57	683	13	1	35	34	1	...	98.1	97.1	32.0	1.6	33.6	815	38.2	14	0.6	
219	1,201	9	8	103	52	38	13	99.2	57.7	38.9	1.7	40.6	1,134	36.8	4	0.1	
59	480	17	...	45	38	4	3	96.2	90.4	33.7	2.9	36.6	467	36.6	1	0.08	
50	161	12	...	28	19	9	...	98.0	67.8	84.2	9.5	94.1	143	74.8	...	...	
376	1,649	95	2	110	103	7	...	94.5	93.6	27.6	1.7	39.3	1,637	27.4	...	...	
162	897	86	24	303	142	89	72	90.9	61.4	34.1	5.6	89.7	1,026	40.4	11	0.4	
5,638	20,799	217	807	16,442	9,265	3,860	3,317	98.9	70.5	40.8	18.2	69.0	25,886	50.8	70	0.1	
764	5,487	1	...	95	95	...	...	99.9	100.0	51.7	0.9	62.6	5,442	51.3	23	0.3	
123	635	32	7	61	39	15	7	95.2	72.2	31.0	1.9	32.9	554	27.1	5	0.2	
915	2,381	16	...	728	665	59	4	99.3	91.8	53.9	15.1	69.0	2,242	60.8	4	0.09	
181	1,179	...	...	94	71	28	...	100.0	75.5	29.8	1.8	31.6	1,437	36.4	8	0.2	
118	889	11	15	35	35	...	...	98.6	100.0	36.8	1.4	37.2	772	31.8	7	0.3	
351	867	54	7	59	30	19	1	94.1	67.2	57.3	2.5	59.8	136	9.0	12	0.8	
1,269	3,874	91	81	812	756	68	18	96.9	91.7	50.2	13.2	63.4	3,440	60.1	7	0.1	
133	919	3	25	188	72	44	72	99.6	62.0	28.6	2.2	30.8	1,028	32.1	10	0.3	
104	465	47	7	44	36	8	...	99.8	81.8	36.1	2.8	38.9	428	33.3	1	0.08	
84	824	1	1	295	226	58	11	99.8	79.6	44.3	12.1	56.4	1,037	55.8	1	0.05	

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1901.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.			Primary and	
						Males.	Females.	Total.	Average number of persons vaccinated by each vaccinator.	Under 1 year.
1	2	3	4	5	6	7	8	9	10	11
40	Municipalities—cont.	Palamcottah	39,543	9,886	1	1,042	846	1,887	948	1,187
41		Palghat	44,177	3,681	1	1,081	1,047	2,128	1,064	1,092
42		Parakkimedi	17,336	52,008	1	515	480	1,005	902	597
43		Periyakulam	17,960	28,927	1	443	417	860	781	591
44		Palni	17,168	9,810	1	491	329	820	480	330
45		Rajahmundry	36,408	3,034	2	1,463	320	2,283	1,141	1,566
46		Saleu	70,021	6,800	2	1,413	1,333	2,645	1,322	2,034
47		Srirangam	23,089	3,291	1	598	550	1,148	1,141	489
48		Srivillipattur	26,382	21,105	1	736	677	1,413	1,273	739
49		Tanjore	57,870	7,716	2	1,013	848	1,861	930	1,171
50		Tellicherry	27,883	11,153	1	642	507	1,149	1,029	709
51		Tinnevely	40,409	5,058	2	933	861	1,794	897	1,085
52		Trichinopoly	104,721	8,727	5	4,364	3,508	7,872	1,574	2,809
53		Tirappattur	18,689	7,475	1	339	328	667	607	581
54		Tirupati	15,445	4,266	1	349	215	564	504	367
55		Tiruvannamalai	17,060	1,552	1	341	244	585	537	612
56		Tuticorin	28,046	9,343	1	754	546	1,300	1,170	601
57		Vaniyambadi	12,005	4,802	1	306	448	754	685	596
58		Vellore	43,587	6,983	2	1,287	832	2,119	1,059	1,213
59		Vizagapatana	40,892	7,799	1	925	661	1,586	1,307	1,112
60		Vizianagaram	34,530	8,643	1	1,108	874	1,980	1,796	1,285
61		Walajapet	19,067	19,067	1	285	188	473	354	228
		Total of municipalities	2,429,127	5,835	112	86,896	59,136	146,032	1,304	110,940
		Grand Total	2,429,127	5,835	112	86,896	59,136	146,032	1,304	110,940

Note.—This statement does not include the statistics of dispensary vaccination.
N.B.—In calculating the percentage of success shown in this statement and

* Excludes the population of the cantonments of Bangalore and Secunderabad.
† In finding the average number of persons vaccinated, the total work of medical

DEPARTMENT.

Madras Presidency during the official year 1901-1902—continued.

secondary vaccinations.				Re-vaccination.				Percentage of successful cases.		Persons successfully vaccinated per 1,000 of population.			Average number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.																
Over 1 and under 6 years.	Total of all ages.	Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.	Total.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
297	1,664	35	...	188	181	5	2	97.9	97.3	42.0	4.6	46.6	886	22.4	4	0.1
675	2,071	40	...	17	8	9	...	98.1	47.0	46.8	0.2	47.0	2,176	49.2	12	0.3
244	868	34	...	103	70	33	...	96.2	67.9	50.1	4.0	54.1	818	47.2	19	1.1
184	778	11	2	72	64	5	3	98.6	92.7	43.3	3.5	46.8	846	47.1	...	...
69	461	90	39	230	214	8	8	83.6	96.4	26.8	12.5	39.8	698	40.1	...	...
596	1,553	11	2	717	642	31	44	99.2	95.4	42.6	17.6	60.2	1,868	51.3	17	0.5
116	2,217	416	1	11	9	2	...	84.2	81.8	31.4	1.2	32.6	2,975	42.1	1	0.01
561	1,105	18	18	7	6	1	...	98.3	85.7	47.9	0.3	48.2	1,069	46.4	2	0.06
158	1,143	138	1	141	78	63	...	89.9	85.3	43.3	2.9	46.2	1,126	42.7	13	0.4
404	1,749	15	...	97	94	3	...	99.1	96.9	30.2	1.6	31.8	1,767	30.5	24	0.4
135	918	95	16	120	42	49	20	90.8	45.1	32.9	1.5	34.4	927	33.2	1	0.03
501	1,684	54	38	18	10	8	5	98.8	78.9	41.6	0.2	41.8	1,213	29.9	3	0.07
3,050	6,894	113	39	826	787	61	38	98.2	92.3	68.8	7.0	72.8	7,101	67.6	24	0.2
95	630	80	...	7	7	...	...	95.4	100.0	33.7	0.3	34.0	804	43.0	1	0.05
136	519	18	...	27	11	12	4	96.6	47.8	33.5	0.7	34.2	441	28.5	1	0.06
140	658	23	...	2	1	1	...	96.6	50.0	38.5	0.1	38.6	527	30.9	5	0.3
408	1,132	16	...	130	115	11	4	98.5	91.2	41.0	4.1	45.1	1,285	45.8	2	0.07
109	844	90	1	19	18	1	...	90.3	94.7	70.3	1.6	71.8	964	80.3	1	0.08
674	1,909	...	...	210	186	74	...	100.0	64.7	43.8	3.1	46.9	1,889	48.4	69	1.5
135	1,253	54	...	279	234	30	15	95.8	88.6	30.6	5.7	36.8	1,292	31.6	1	0.02
203	1,747	49	...	184	152	32	...	97.2	82.6	50.5	4.4	54.9	1,635	47.3	11	0.3
98	840	14	...	69	48	18	3	96.0	72.7	33.8	4.7	38.5	341	33.6	1	0.1
28,397	105,296	3,547	2,067	35,070	22,879	7,028	5,163	96.7	76.5	43.5	9.4	52.9	112,028	46.2	570	0.2
576,423	1,094,882	95,375	33,839	87,099	60,156	18,837	8,106	92.0	76.1	28.6	1.6	30.1	1,046,886	27.2	19,284	0.5

which are exhibited separately in statement No. III.
statement No. III, unknown cases have not been taken into account.

subordinates is excluded.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1901-1902.

[illegible]

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1901-1902—continued.

Number—cont.	Districts—cont.	Circles—cont.	Expenditure—cont.			Paid from					Total.	Number of all successful vaccinations and re-vaccinations.	Average cost of each successful case.
			Travelling allowance.	Contingencies.	Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Zamindars.			
1	Annamalai	Chingleput circle.	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.	Rs. A. P.	Rs. A. P.
2			205 5 3	795 5 5	3,270 13 3	...	...	3,879 15 3	...	...	3,879 15 3	11,978	0 5 1
3	Madurai	Total of districts.	213 5 3	531 7 3	3,453 9 4	...	...	2,433 5 4	...	...	2,433 5 4	5,012	0 4 4
4			477 10 3	1,857 13 3	6,015 6 7	...	...	6,015 6 7	...	...	6,015 6 7	30,232	0 4 9
5	Chingleput	Total of districts.	1,418 13 9	1,893 4 11	2,713 5 0	...	...	5,713 5 0	...	...	5,713 5 0	19,790	0 4 7
6			593 14 0	753 0 1	3,864 0 7	...	...	2,354 0 7	...	...	2,354 0 7	9,216	0 5 2
7	Cuddalore	Total of districts.	2,011 13 9	2,014 8 0	9,976 5 7	...	...	9,976 5 7	...	...	9,976 5 7	39,006	0 4 9
8			779 1 8	...	...	...	...	...	...	...	...	...	...
9	Cuddalore	Total of districts.	1,566 6 6	213 0 3	5,997 3 8	...	...	5,997 3 8	...	...	5,997 3 8	30,483	0 3 8
10			286 13 6	531 2 8	3,997 13 6	...	...	3,997 13 6	...	...	3,997 13 6	15,954	0 3 6
11	Cuddalore	Total of districts.	231 10 0	503 2 1	3,008 9 10	...	...	3,008 9 10	...	...	3,008 9 10	10,031	0 3 11
12			278 11 3	34 0 0	3,053 0 9	...	...	3,053 0 9	...	...	3,053 0 9	25,762	0 3 3
13	Cuddalore	Total of districts.	913 3 3	9,121 5 3	10,033 7 4	...	...	10,033 7 4	...	...	10,033 7 4	36,777	0 2 10
14			776 1 4	398 6 10	2,794 10 11	...	...	2,794 10 11	...	...	2,794 10 11	9,374	0 7 3
15	Cuddalore	Total of districts.	885 11 6	1,043 0 8	4,053 1 3	...	...	4,053 1 3	...	...	4,053 1 3	13,938	0 5 8
16			630 0 5	433 4 10	3,885 6 10	...	...	3,885 6 10	...	...	3,885 6 10	6,544	0 8 0
17	Cuddalore	Total of districts.	2,261 13 3	1,731 11 11	11,735 2 6	...	...	11,735 2 6	...	...	11,735 2 6	36,146	0 5 9
18			...	...	...	...	...	...	...	...	...	...	...

APPENDIX.

VACCINATION RETURNS.

23

13	Chatturpur circle.	...	277 13 0	1,197 5 1	4,208 5 0	...	...	4,208 5 0	...	...	4,208 5 0	17,113	0 4 0
14	Chittoor circle.	...	334 1 0	1,430 6 6	4,352 13 10	...	...	4,352 13 10	...	...	4,352 13 10	15,353	0 4 6
15	Chittoor circle.	...	533 12 6	124 3 0	3,468 4 6	...	...	3,468 4 6	...	...	3,468 4 6	10,460	0 3 5
16	Chittoor circle.	...	342 12 0	684 3 0	2,500 0 0	...	...	2,500 0 0	...	...	2,500 0 0	10,083	0 4 0
17	Total of district.	...	1,498 6 6	3,456 6 7	14,607 7 4	...	...	14,607 7 4	...	...	14,607 7 4	58,908	0 4 0
18	Chittoor circle.	...	1,333 11 10	273 0 6	5,313 4 7	...	...	5,313 4 7	...	...	5,313 4 7	20,673	0 3 1
19	Chittoor circle.	...	978 0 4	280 11 6	4,237 5 5	...	...	4,237 5 5	...	...	4,237 5 5	20,195	0 3 5
20	Chittoor circle.	...	744 5 7	582 10 0	3,261 5 10	...	...	3,261 5 10	...	...	3,261 5 10	15,885	0 3 3
21	Chittoor circle.	...	1,119 5 0	1,020 2 0	8,722 11 4	...	...	8,722 11 4	...	...	8,722 11 4	6,041	0 9 10
22	Total of district.	...	4,175 6 9	2,105 8 0	16,384 11 2	...	...	16,384 11 2	...	...	16,384 11 2	65,934	0 3 10
23	Chittoor circle.	...	909 11 9	1,210 15 5	5,072 1 1	...	...	5,072 1 1	...	...	5,072 1 1	22,438	0 3 7
24	Chittoor circle.	...	887 12 5	164 4 5	3,891 3 9	...	...	3,891 3 9	...	...	3,891 3 9	21,731	0 2 10
25	Chittoor circle.	...	464 5 5	480 3 2	2,584 12 2	...	...	2,584 12 2	...	...	2,584 12 2	8,622	0 4 9
26	Total of district.	...	2,241 13 7	1,865 7 0	11,548 1 0	...	...	11,548 1 0	...	...	11,548 1 0	62,779	0 3 6
27	Chittoor circle.	...	313 14 7	559 6 9	3,685 4 0	...	...	3,685 4 0	...	...	3,685 4 0	11,808	0 4 11
28	Chittoor circle.	...	699 3 6	547 11 0	3,973 9 8	...	...	3,973 9 8	...	...	3,973 9 8	16,532	0 4 1
29	Total of district.	...	1,012 5 1	1,107 0 9	7,688 13 8	...	...	7,688 13 8	...	...	7,688 13 8	27,430	0 4 6
30	Chittoor circle.	...	235 0 6	1,164 0 10	4,247 15 4	...	...	4,247 15 4	...	...	4,247 15 4	26,034	0 2 5
31	Chittoor circle.	...	500 4 0	970 13 2	3,282 10 9	...	...	3,282 10 9	...	...	3,282 10 9	19,714	0 2 8
32	Chittoor circle.	...	246 7 0	810 8 1	4,184 1 1	...	...	4,184 1 1	...	...	4,184 1 1	22,417	0 2 8
33	Total of district.	...	671 11 6	2,945 6 1	11,664 11 2	...	...	11,664 11 2	...	...	11,664 11 2	77,165	0 2 5
34	Chittoor circle.	...	275 5 0	549 6 8	3,801 4 10	...	...	3,801 4 10	...	...	3,801 4 10	16,441	0 3 2
35	Chittoor circle.	...	235 10 0	155 4 1	3,647 4 11	...	...	3,647 4 11	...	...	3,647 4 11	16,441	0 3 2
36	Chittoor circle.	...	525 11 6	1,175 4 0	4,468 1 2	...	...	4,468 1 2	...	...	4,468 1 2	25,135	0 2 10
37	Total of district.	...	1,096 10 6	1,879 14 3	11,416 10 11	...	...	11,416 10 11	...	...	11,416 10 11	66,784	0 2 9
38	Chittoor circle.	...	713 13 0	958 12 6	3,519 6 7	...	...	3,519 6 7	...	...	3,519 6 7	11,144	0 5 1
39	Chittoor circle.	...	737 8 6	827 1 3	3,615 14 4	...	...	3,615 14 4	...	...	3,615 14 4	14,401	0 6 2
40	Chittoor circle.	...	766 5 9	1,114 15 3	4,003 8 5	...	...	4,003 8 5	...	...	4,003 8 5	13,304	0 4 5
41	Total of district.	...	2,917 11 3	2,980 13 0	11,138 13 4	...	...	11,138 13 4	...	...	11,138 13 4	35,649	0 5 1
42	Chittoor circle.	...	502 3 6	339 15 3	2,221 8 6	...	...	2,221 8 6	...	...	2,221 8 6	9,322	0 10 8
43	Total of district.	...	502 3 6	339 15 3	2,221 8 6	...	...	2,221 8 6	...	...	2,221 8 6	9,322	0 10 8
44	Chittoor circle.	...	1,191 15 3	213 13 2	4,167 4 8	...	...	4,167 4 8	...	...	4,167 4 8	16,084	0 4 0
45	Chittoor circle.	...	1,015 5 9	886 2 9	4,321 5 2	...	...	4,321 5 2	...	...	4,321 5 2	14,891	0 4 8
46	Chittoor circle.	...	791 8 4	770 5 2	3,467 11 10	...	...	3,467 11 10	...	...	3,467 11 10	13,189	0 4 8
47	Total of district.	...	2,908 13 4	1,876 5 1	11,656 5 8	...	...	11,656 5 8	...	...	11,656 5 8	44,768	0 4 3

Number—cont.	District—cont.	Expenditure—cont.				Paid from:				Number of all successful vaccinations and re-vaccinations.	Average cost of such successful cases.	
		Travelling allowances.	Contingencies.	Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Zamindars.			Total.
		18	19	20	21	22	23	24	25	26	27	28
		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.		Rs. A. P.
38	Madras.											
	Madras Presidency town.	424 0 0	...	7,592 9 6	...	7,592 9 6	...	...	...	7,592 9 6	...	...
	Total of district.	424 0 0	...	7,592 9 6	...	7,592 9 6	...	...	...	7,592 9 6	...	...
39	Salem.											
		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.		Rs. A. P.
	Northern circle.	33 10 0	197 12 8	1,819 10 9	...	...	1,819 10 9	...	...	1,819 10 9	14,875	0 2 0
	Salem do.	307 11 9	423 5 2	3,430 11 10	...	...	3,430 11 10	...	...	3,430 11 10	15,539	0 2 0
41		156 15 0	411 7 3	3,148 3 4	...	...	3,148 3 4	...	...	3,148 3 4	22,495	0 2 3
	Total of district.	498 4 9	1,032 9 1	8,398 9 11	...	...	8,398 9 11	...	...	8,398 9 11	56,980	0 2 5
42	South Arcot.											
		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.		Rs. A. P.
	Cuddalore circle.	607 3 1	352 9 2	3,552 15 9	...	...	3,552 15 9	...	...	3,552 15 9	24,452	0 2 4
	Vellore circle.	431 6 9	72 2 0	1,916 2 6	...	...	1,916 2 6	...	...	1,916 2 6	13,486	0 2 3
44		498 14 3	1,075 9 0	3,340 10 4	...	...	3,340 10 4	...	...	3,340 10 4	17,509	0 3 0
	Total of district.	1,537 10 1	1,401 1 2	8,808 18 7	...	...	8,808 12 7	...	...	8,808 12 7	56,760	0 2 6
45	South Arcot.											
		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.		Rs. A. P.
	Northern circle.	610 0 0	230 0 0	5,220 0 0	...	...	5,220 0 0	...	...	5,220 0 0	27,585	0 3 0
46		657 10 3	368 12 4	8,797 12 5	...	...	8,797 12 5	...	...	8,797 12 5	16,628	0 3 8
	Total of district.	1,267 10 3	618 12 4	9,017 12 5	...	...	9,017 12 5	...	...	9,017 12 5	44,113	0 3 3

47	Tanjore	Tanjore circle ...	530 6 0	1,154 13 10	4,789 4 7	4,769 4 7	4,769 4 7	28,301 0 3	2 3 2
48		Nagapattinam do. ...	293 11 9	334 12 3	2,780 10 3	2,769 10 3	2,769 10 3	22,384 0 6	0 2 0
49		Pudukottai do. ...	246 7 3	82 6 4	2,982 3 10	2,982 3 10	2,982 3 10	17,172 0 3	0 2 9
		Total of district ...	854 8 0	2,424 0 4	10,541 2 8	10,541 2 8	10,541 2 8	63,037 0 8	0 2 8
50	Tinnevely	Srivilliputhur circle	498 3 11	1,412 14 9	3,908 14 2	3,908 14 2	3,908 14 2	21,508 0 2	0 2 10
51		Sembuderi do. ...	456 12 3	1,499 5 1	3,943 8 6	3,943 8 6	3,943 8 6	20,607 0 3	0 3 0
52		Tinnevely do. ...	614 13 2	1,363 3 1	4,988 0 10	4,988 0 10	4,988 0 10	29,983 0 4	0 2 8
		Total of district ...	1,552 13 3	4,268 6 11	12,640 7 6	12,640 7 6	12,640 7 6	71,393 0 9	0 9 10
53	Trichinopoly	Trichinopoly circle	392 0 6	950 2 11	4,353 2 2	4,353 2 2	4,353 2 2	24,967 0 3	0 3 3
54		Arinjady do. ...	260 3 0	740 12 6	3,718 2 1	3,718 2 1	3,718 2 1	22,320 0 3	0 3 2
		Total of district ...	642 6 3	1,690 15 6	7,071 4 3	7,071 4 3	7,071 4 3	38,453 0 2	0 2 10
55		Gumgudur circle	753 2 0	339 4 6	1,963 7 9	1,963 7 9	1,963 7 9	12,393 0 4	0 4 2
56		Zamindari revenue circles	280 15 3	106 9 0	730 5 8	730 5 8	730 5 8	4,300 0 4	0 4 3
		Jeppia circle	773 3 6	317 3 6	3,327 10 9	3,327 10 9	3,327 10 9	20,584 0 7	0 7 8
		Zamindari revenue circles	374 1 5	27 15 0	992 18 8	992 18 8	992 18 8	6,329 0 2	0 2 11
		Total of Hill tracts ...	2,063 2 7	870 3 6	6,205 4 10	6,205 4 10	6,205 4 10	40,547 0 6	0 6 9
57	Vinayakottam	Vinayakottam circle	214 3 3	436 8 2	3,051 6 0	3,051 6 0	3,051 6 0	23,543 0 1	0 1 10
		Government revenue circles	18 1 0	...	135 14 0	135 14 0	135 14 0	288 0 7	0 7 7
		(Gudum hills)	363 5 0	650 3 4	4,261 5 9	4,261 5 9	4,261 5 9	32,020 0 2	0 2 1
58		Vidyanagaram circle	2,666 7 10	2,033 9 0	19,868 14 7	19,868 14 7	19,868 14 7	76,364 0 2	0 2 12
		Total of district ...	33,103 12 0	28,596 8 9	219,965 7 10	219,965 7 10	219,965 7 10	1,007,187 0 3	0 3 6
		Grand Total of districts ...							

VACCINATION RETURNS.

[illegible]

* Vaccination was performed by the medical officer in charge.

† Four Assistant Deputy Inspectors.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1901-1902—continued.

Municipalities—cont.	Expenditure—cont.				Paid from				Total.	Number of all successful vaccinations.	Average cost of each successful case.
	18	19	20	21	22	23	24	25			
1	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...

APPENDIX.

VACCINATION RETURNS.

Municipalities—cont.	Expenditure—cont.				Paid from				Total.	Number of all successful vaccinations.	Average cost of each successful case.
	18	19	20	21	22	23	24	25			
32	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...
40	...	...	...	...	...	...	...	...	...	...	...
41	...	...	...	...	...	...	...	...	...	...	...
42	...	...	...	...	...	...	...	...	...	...	...
43	...	...	...	...	...	...	...	...	...	...	...
44	...	...	...	...	...	...	...	...	...	...	...
45	...	...	...	...	...	...	...	...	...	...	...
46	...	...	...	...	...	...	...	...	...	...	...
47	...	...	...	...	...	...	...	...	...	...	...
48	...	...	...	...	...	...	...	...	...	...	...
49	...	...	...	...	...	...	...	...	...	...	...
50	...	...	...	...	...	...	...	...	...	...	...
51	...	...	...	...	...	...	...	...	...	...	...
52	...	...	...	...	...	...	...	...	...	...	...
53	...	...	...	...	...	...	...	...	...	...	...
54	...	...	...	...	...	...	...	...	...	...	...
55	...	...	...	...	...	...	...	...	...	...	...
56	...	...	...	...	...	...	...	...	...	...	...
57	...	...	...	...	...	...	...	...	...	...	...
58	...	...	...	...	...	...	...	...	...	...	...
59	...	...	...	...	...	...	...	...	...	...	...
60	...	...	...	...	...	...	...	...	...	...	...
61	...	...	...	...	...	...	...	...	...	...	...
Total of Municipalities	...	...	...	...	...	...	...	...	...	...	...
Bangalore	...	...	...	...	...	...	...	...	...	...	...
Secunderabad	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	...	...	...	...	...	...	...
Grand Total	...	...	...	...	...	...	...	...	...	...	...

* In finding out the average cost of each successful case excluding the number of successful vaccinations (2,403) performed in the Natal Emigration Depot, the amount realized by sale of lymph, viz., Rs. 2,964-7-0, has been deducted from the total cost.

† Paid from Abkari Funds.

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1901-1902.

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 and secondary vaccinations.						Re-vaccination.				Percentage of successful cases.	
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Anantapur District.																
Anantapur	...	...	...	...	13	...	2	1	7	6	...	...	...	...	53.8	...
Bukkapatnam	...	...	...	...	8	...	...	...	...	...	8	8	...	...	100.0	100.0
Dharmavaram	...	...	...	...	8	2	1	2	...	...	6	6	...	...	100.0	100.0
Gooty	...	...	...	...	8	...	...	5	1	2	...	...	...	...	83.3	...
Hindapur	...	...	...	...	15	15	6	8	15	...	...	...	...	...	100.0	...
Kalyandurg	...	...	...	...	15	15	...	15	...	...	...	...	...	...	100.0	...
Madakshira	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pamidy	...	...	...	...	...	8	1	7	8	...	13	7	5	1	100.0	43.7
Ponakonda	...	...	...	...	11	11	4	3	9	1	1	...	...	...	90.0	...
Tadipatri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	...
Uravakonda	...	...	...	...	2	2	1	1	2	...	...	...	...	...	...	...
Yadiky	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	101	...	74	13	36	63	8	3	27	21	6	1	88.7	80.7
Bellary District.																
Adoni	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	...
Alur	...	...	64	...	66	9	57	66	...	...	...	...	...	...	...	...
Bellary	...	...	89	...	...	...	...	...	...	...	80	77	3	...	...	96.2
Bracepettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cowl Bazar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospet	...	...	25	...	25	18	6	24	1	...	...	...	...	...	96.0	...
Hudugally	...	...	20	...	24	6	3	10	4	4	5	3	2	...	80.0	60.0
Harpasahalli	...	...	46	...	89	18	...	36	8	...	7	7	...	...	92.8	100.0
Holalegundi	...	...	48	...	48	46	...	46	2	...	...	...	...	...	95.8	...
Kandakalla	...	...	6	...	6	5	1	6	...	...	...	...	...	...	100.0	...
Kudligi	...	...	44	...	35	6	12	32	1	2	9	3	6	...	97.0	88.3
Kosigi	...	...	48	...	48	20	18	48	...	...	...	...	...	...	100.0	...
Kotaru	...	...	26	...	25	19	5	24	1	...	1	1	...	...	96.0	100.0
Kumpli	...	...	60	...	60	34	24	40	2	5	...	...	...	...	96.0	...
Kurugodu	...	...	24	...	24	9	13	22	1	1	...	...	...	...	100.0	...
Nayandurg	...	...	51	...	51	18	24	49	...	2	...	...	...	...	96.8	...
Sundur	...	...	71	...	71	29	36	70	1	...	...	...	...	...	98.3	...
Siruguppa	...	...	68	...	67	28	13	41	19	7	1	...	1	...	93.7	...
Yennaganur	...	...	64	...	64	17	14	60	4	...	...	...	...	...	...	...
Total	...	...	756	...	653	281	226	589	39	25	103	81	12	...	93.8	88.8
Chingleput District.																
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Compoveram	...	...	39	...	6	4	1	6	...	...	23	22	3	8	100.0	88.0
Cheyar	...	...	17	...	12	1	1	3	9	...	5	5	...	...	25.0	...
Madavutakam	...	...	29	...	4	1	3	4	...	...	16	10	6	...	100.0	92.6
Nagalapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ponneri	...	...	38	...	1	...	...	1	...	...	37	27	10	...	100.0	73.0
Poonamallee	...	...	8	...	...	...	...	...	...	...	8	...	...	8	...	...
Pahat	...	...	8	...	8	3	5	8	...	...	...	...	...	...	100.0	...
Saidapet	...	...	55	...	...	...	...	...	...	...	55	40	15	...	...	72.7
Saidaveedu	...	...	4	...	...	...	...	...	...	...	4	4	...	...	...	100.0
Semoiyam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sripurumbidur	...	...	2	...	...	...	...	...	...	...	2	1	...	1	...	100.0
Tiruppur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tiruvallur	...	...	9	...	...	...	...	...	...	...	9	9	...	...	...	100.0
Tiruvettiyur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thiruvannamalai	...	...	17	...	13	5	6	13	...	...	4	4	...	...	100.0	100.0
Total	...	...	217	...	44	14	15	35	9	...	173	127	39	17	79.5	76.6
Coimbatore District.																
Aravakurachi	...	...	15	...	16	...	3	...	...	...	15	...	15	...	86.7	100.0
Bhavani	...	...	18	...	...	1	3	18	2	1	2	2	...	...	66.7	64.3
Dharmavaram	...	...	31	...	...	...	...	2	1	...	26	18	10	...	100.0	83.3
Gopichettipalayam	...	...	18	...	15	...	...	15	...	...	3	1	2	...	...	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1901-1902—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 and secondary vaccinations.					Re-vaccination.				Percentage of successful cases.		
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Coimbatore District.																
—cont.																
Kangrayam	...	...	18	...	...	...	...	...	...	...	18	9	1	8	...	90.0
Kolegal	...	...	24	...	24	1	19	24	...	...	...	...	...	...	100.0	...
Mettupalayam	...	...	43	...	10	2	8	7	2	1	33	22	10	1	77.8	68.7
Palladam	...	...	35	...	31	1	4	27	2	2	4	4	...	...	98.1	100.0
Pollachi	...	...	16	...	6	2	2	4	2	...	9	9	...	...	66.3	100.0
Pollachi, Women and Children.	...	...	16	...	16	8	3	11	5	...	...	...	...	...	68.7	...
Satyamangalam	...	...	14	...	7	3	2	5	2	...	7	7	...	...	71.4	100.0
Tiruppur	...	...	37	...	30	7	22	29	2	5	1	1	...	...	93.5	100.0
Udumalpet	...	...	24	...	...	...	...	...	...	...	24	18	1	10	...	92.8
Total	...	...	308	...	164	25	58	137	18	9	144	96	39	19	88.4	62.8
Cuddalore District.																
Badvel	...	...	25	...	7	...	...	5	2	...	18	15	3	...	71.4	83.3
Cuddalore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jammalamadugu	...	...	17	...	16	...	...	9	6	1	1	1	...	...	60.0	130.0
Kadiri	...	...	12	...	8	1	7	8	...	...	4	3	1	...	100.0	75.0
Madanapalle	...	...	26	...	1	1	...	1	...	...	25	25	...	...	100.0	100.0
Pilern	...	...	16	...	1	...	1	1	...	...	15	9	6	...	100.0	60.0
Proddatur	...	...	43	...	30	3	21	25	2	3	18	1	4	8	92.6	20.0
Pulivendla	...	...	22	...	22	4	16	20	2	...	...	...	...	...	90.9	...
Rasampet	...	...	4	...	4	1	2	4	...	...	...	...	...	...	100.0	...
Rivachoti	...	...	25	...	21	2	...	21	...	...	4	4	...	...	100.0	100.0
Siddhant	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Voyalpad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	150	...	110	12	47	94	12	4	80	58	14	8	88.7	80.5
Ganjana District.																
Aska	...	...	122	...	122	7	82	104	16	2	...	...	...	...	86.7	...
Berhanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chalingapattam	...	...	107	...	90	7	54	80	10	...	17	14	3	...	88.9	82.3
Chattrapur	...	...	87	...	87	...	42	71	13	3	...	...	...	...	84.3	...
Chitacole	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ganjam	...	...	235	...	217	21	133	170	42	5	18	9	8	1	90.2	50.0
Garabanda	...	...	61	...	68	6	35	64	9	5	13	6	6	1	85.7	60.0
Gopalpur	...	...	115	...	115	6	71	92	20	3	...	...	...	...	82.1	...
Ichhapur	...	...	306	...	306	38	159	237	56	13	...	...	...	...	80.9	...
Narasannapeta	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parlakimedi	...	...	1	...	96	56	38	96	...	...	19	17	2	...	100.0	89.5
Parushottapur	...	...	172	...	172	30	118	149	22	1	...	...	...	...	87.1	...
Russellkonda	...	...	58	...	17	...	12	14	3	...	41	26	3	12	82.3	89.6
Sompeta	...	...	166	...	166	98	56	166	...	...	...	...	...	...	100.0	...
Surada	...	...	130	...	128	5	58	114	5	9	2	...	2	...	95.8	...
Tekkali	...	...	260	...	200	21	135	176	24	...	...	...	...	...	88.0	...
Varanasi	...	...	98	...	35	13	65	95	3	...	...	...	...	...	97.0	...
Total	...	...	1,392	...	1,882	308	1,067	1,618	223	41	110	72	24	14	87.9	75.6
Ghāṣvari District.																
Amalapuram	...	...	70	...	22	...	...	19	3	...	54	18	36	...	86.4	33.3
Bondamurlanka	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bhimavaram	...	...	87	...	87	...	...	27	61	9	...	...	...	...	31.6	...
Chintalapudi	...	...	30	...	30	1	20	28	2	...	...	...	...	...	93.3	...
Cocanada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cocanada Branch Dispensary.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cocanada, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dowlaiswaram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

B-DISPENSARY VACCINATION.

STATEMENT No. III showing *Dispensary Vaccination in the Madras Presidency during the official year 1901-1902—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 and secondary vaccinations.						Re-vaccination.				Percentage of successful cases.	
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 5 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Goddavari District—cont.																
Gothavaram ...	...	...	10	...	10	...	3	5	5	...	...	...	...	...	50.0	...
Kothapeta ...	...	...	44	...	39	3	8	38	11	...	5	4	1	...	71.8	80.0
Kovuru ...	...	...	64	...	64	3	48	46	5	3	...	...	...	...	91.8	...
Mandapeta ...	...	...	33	...	15	1	...	11	4	...	18	12	4	2	78.5	76.0
Mummidivaram ...	...	...	10	...	10	...	7	9	1	...	...	...	...	...	80.0	...
Narasapur ...	...	...	102	...	53	4	6	37	1	25	49	35	7	7	86.4	83.3
Peddapuram ...	...	...	30	...	14	...	3	11	...	3	16	4	12	...	100.0	25.0
Pentapadu ...	...	...	4	...	2	...	...	3	...	...	3	2	...	...	100.0	100.0
Pittapōre ...	...	...	80	...	66	2	21	43	2	31	14	...	...	14	95.6	...
Pothavaram ...	...	...	11	...	11	...	8	10	1	...	...	...	...	...	90.0	...
Rāmachendrapuram.	...	...	23	...	5	3	1	4	1	...	18	16	2	...	80.0	88.8
Rozole ...	...	...	30	...	29	4	17	27	2	...	1	1	...	...	93.1	100.0
Tanuku ...	...	...	43	...	34	...	5	29	1	4	9	...	9	...	96.7	...
Tuni ...	...	...	45	...	45	...	1	18	12	15	...	...	...	...	60.0	...
Yelavaram ...	...	...	15	...	6	...	6	6	...	...	10	1	9	...	100.0	10.0
Total ...	...	...	738	...	542	20	153	360	102	90	196	93	80	23	77.6	53.7
Kistna District.																
Avanigedda ...	...	...	44	...	46	5	17	27	19	...	...	...	...	...	58.7	...
Bāpāla ...	...	...	37	...	37	8	27	35	2	...	...	...	...	...	94.6	...
Bezavada ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chitrāla ...	...	...	151	...	151	26	91	125	9	17	...	...	...	...	88.3	...
Dāchāpalle ...	...	...	30	...	20	12	2	15	...	8	...	...	...	...	100.0	...
Guntūr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gundivāda ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gurazāla ...	...	...	47	...	86	18	4	34	2	...	11	16	1	...	54.3	33.3
Jaggayyapēt ...	...	...	4	...	4	2	2	4	...	...	...	...	...	...	100.0	...
Kykalur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Macherla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Masulipatam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Masulipatam, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mylavaram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nandigāma ...	...	...	38	...	29	5	18	21	8	...	9	6	1	2	72.4	85.7
Narasaraopet ...	...	...	7	...	4	1	3	4	...	...	3	3	...	...	100.0	100.0
Nuzvid ...	...	...	21	...	16	5	9	15	1	...	5	4	1	...	83.7	80.0
Rēpalle ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sattērapalle ...	...	...	25	...	19	...	...	...	11	8	7	...	3	4	...	...
Tenali ...	...	...	33	...	17	5	10	15	2	...	16	16	...	...	83.2	100.0
Tiruvur ...	...	...	10	...	10	2	7	10	...	...	...	...	...	...	100.0	...
Vinukonda ...	...	...	22	...	22	11	3	16	6	...	...	...	...	...	72.7	...
Total ...	...	...	462	...	411	100	188	321	60	30	51	39	6	0	84.2	86.7
Kurnool District.																
Allagadda ...	...	...	11	...	11	...	3	11	...	...	...	...	...	...	100.0	...
Atmakūr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cumbum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Elthor ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Giddalōre ...	...	...	11	...	11	...	...	7	3	1	...	...	...	...	70.0	...
Kānūr ...	...	...	20	...	12	1	5	10	2	...	8	5	3	...	83.8	62.5
Kodanur ...	...	...	20	...	20	10	6	17	3	...	...	...	...	...	85.0	...
Koilkuntla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Markapur ...	...	...	12	...	12	...	11	12	...	...	...	...	...	...	100.0	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing *Dispensary Vaccination in the Madras Presidency during the official year 1901-1902—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 and secondary vaccinations.							Re-vaccination.				Percentage of successful cases.	
					Total.	Under 1 year.	Over 1 and under 6 years.	Total of all ages.	Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Kurnool District—cont.																	
Madikera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Nandyal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Nandikotkur	+	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Owk	+	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Pattikonda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	74	...	68	11	25	57	8	1	8	5	8	...	87·7	62·5	
Madras Town.																	
Black Town, North Side.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hospital for Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Native Infirmary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Triplicane Dispensary.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Madura District.																	
Andipatti	...	...	10	...	10	3	7	10	...	...	...	...	...	...	100·0	...	
Bédāmayakkanur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Butlagunda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Chattrapatti	...	...	5	...	5	4	1	5	...	...	...	...	...	...	100·0	...	
Dévakottai	...	...	13	...	12	2	9	11	1	...	1	1	...	...	91·7	100·0	
Hindigul	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hindigul, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Kamudi	...	...	11	...	7	...	6	7	...	...	4	4	...	...	100·0	100·0	
Karaikkudi	...	...	60	...	60	11	38	59	1	...	...	...	...	...	98·3	...	
Kilakarai	...	...	32	...	30	12	12	30	...	...	2	...	2	...	100·0	...	
Kodaikanal	...	...	201	...	173	101	50	161	12	...	28	19	9	...	98·1	67·5	
Kannivadi	...	...	8	...	8	1	7	8	...	...	267	196	8	63	100·0	...	
Madura	...	...	270	...	3	1	2	3	...	...	...	...	...	...	100·0	96·1	
Madura Branch Dispensary.	...	...	8	...	4	...	2	2	1	1	4	8	1	...	66·7	75·0	
Madura, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mánāmādurai	...	...	16	...	16	3	10	16	...	...	13	18	...	...	100·0	...	
Málar	...	...	47	...	34	...	8	34	...	...	...	...	...	...	100·0	100·0	
Mudukulattūr	...	...	30	...	...	...	...	...	...	...	30	23	2	...	...	93·3	
Nīlakkóttai	...	...	26	...	...	...	...	...	...	...	26	14	10	2	...	58·3	
Nattam*	...	...	60	...	60	19	36	60	...	...	...	...	...	...	100·0	...	
Palni	...	...	91	...	...	...	...	...	...	...	91	91	...	...	...	100·0	
Pámban	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Paramagudi	...	...	72	...	72	30	38	71	1	...	...	...	...	...	98·6	...	
Poriyakulam	...	...	14	...	13	12	1	13	...	...	1	1	...	...	100·0	100·0	
Rámésavaram	...	...	11	...	7	...	4	4	3	...	4	2	2	...	57·1	50·0	
Ramnad	...	...	40	...	35	1	21	33	2	...	5	4	1	...	94·3	80·0	
Sáptér	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Shólavandán	...	...	41	...	37	16	20	37	...	...	4	4	...	...	100·0	100·0	
Sivaganga	...	...	10	...	10	...	9	10	...	...	...	...	...	...	100·0	...	
Thandikudi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Thrippattūr	...	...	18	...	18	...	8	15	8	...	...	...	...	...	83·3	...	
Tirumangalám	...	...	37	...	35	10	17	33	1	1	2	1	1	...	97·0	50·0	
Tiruppuvanam	...	...	18	...	17	5	7	12	2	3	1	...	1	...	85·7	...	
Tondi	...	...	65	...	48	4	18	39	5	4	17	16	1	...	88·6	94·1	
Uailampatti	...	...	71	...	32	9	16	26	6	...	39	24	13	2	81·2	64·9	
Uttamapaliyam	...	...	43	...	19	...	1	11	5	3	24	11	11	2	68·7	50·0	
Védaśándúr	...	...	8	...	8	...	7	7	1	...	...	...	...	...	87·5	...	
Total	...	...	1,336	...	773	244	355	717	44	12	563	432	62	69	94·2	87·4	

B—DISPENSARY VACCINATION.

STATEMENT No. III showing *Dispensary Vaccination in the Madras Presidency during the official year 1901-1902*—continued.

[illegible]

B—DISPENSARY VACCINATION.

STATEMENT No. III, showing *Dispersary Vaccination in the Madras Presidency during the official year 1901-1902*—continued.

Districts.	Number of dispensaries in which vaccination is carried out.	Average number of persons vaccinated in each year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary and secondary vaccinations.						Re-vaccination.				Percentage of successful cases.	
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
North Arcot District.																
Amirthi	...	...	16	...	16	...	16	16	...	7	...	...	...	...	100.0	...
Arani	...	...	40	...	40	9	13	33	...	...	...	...	...	...	100.0	...
Arani	...	...	52	...	52	7	8	18	34	...	...	...	...	...	34.6	...
Arkonam	...	...	21	...	...	...	...	...	...	...	21	18	...	3	...	100.0
Chittoor	...	...	11	5	3	...	...	4	1	...	6	5	1	...	80.0	88.3
Gadidattam	...	...	32	...	17	15	2	17	...	...	15	15	...	...	100.0	100.0
Kalahasti	...	...	23	...	23	4	13	23	...	...	...	...	...	...	100.0	...
Kuppam	...	...	32	...	32	3	26	32	...	...	...	...	...	...	100.0	...
Polur	...	...	141	...	...	...	...	...	...	...	141	64	38	39	...	62.7
Palamaner	...	...	25	...	25	10	16	25	...	...	...	...	...	...	100.0	...
Pungunur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pattur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ranipet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sholinghur	...	...	2	...	2	...	1	1	...	1	...	...	...	...	50.0	...
Tirupati	...	...	12	...	4	3	1	4	...	...	8	8	...	...	100.0	100.0
Tiruvettur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vellore	...	...	46	...	35	14	8	35	...	...	11	11	...	2	100.0	100.0
Venkatagirikotah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Walsajpet	...	...	...	...	11	2	3	10	1	...	8	4	2	2	100.0	66.7
Wandiwash	...	...	...	...	12	4	...	12	...	...	...	...	...	...	100.0	...
Total	...	...	484	...	274	74	116	230	36	8	210	125	41	44	86.5	75.8
South Arcot District.																
Atur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Alangayam	...	...	44	...	44	24	20	44	...	...	...	...	...	...	100.0	...
Ammapet	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Benkanikota	...	...	11	5	2	1	3	1	1	6	5	...	1	...	75.0	100.0
Dharmapuri	...	...	39	5	3	2	5	...	...	44	16	18	5	...	100.0	...
Harur	...	...	40	...	...	...	...	...	...	43	41	5	3	...	89.1	...
Hosur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Krishnagiri	...	...	48	...	31	6	19	28	1	2	18	14	2	2	96.5	87.5
Namakkal	...	...	50	...	6	...	6	6	...	4	44	37	5	...	100.0	88.1
Omair	...	...	6	...	6	...	...	...	...	...	...	...	...	...	...	...
Palakodu	...	...	4	...	4	...	...	3	1	...	...	...	...	...	75.0	...
Pennagaram	...	...	23	...	7	...	...	7	...	...	15	13	...	2	100.0	100.0
Rasipur	...	...	83	...	43	23	15	44	4	...	35	22	4	9	91.6	84.6
Ryanoota	...	...	12	...	12	...	7	12	...	...	...	...	...	...	100.0	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sankaridurg	...	...	58	...	12	...	...	9	3	...	44	35	9	...	75.0	79.5
Sandamangalam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thallu	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thamamputti	...	...	21	...	17	3	6	17	...	...	4	3	1	...	100.0	75.0
Tiruchengod	...	...	120	...	82	...	12	80	2	...	38	30	8	...	97.6	78.9
Tirupattur	...	...	45	...	6	4	2	6	...	...	39	38	1	...	100.0	97.3
Tirupattur, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tirunagarai	...	...	7	...	7	1	6	7	...	...	...	...	...	...	100.0	...
Vaniyambadi	...	...	72	...	...	...	...	...	...	...	72	58	14	...	...	80.5
Yerood	...	...	78	...	55	16	28	49	6	...	23	5	18	...	89.1	21.7
Total	...	...	768	...	247	85	124	320	23	5	421	317	80	24	83.6	79.8
South Arcot District.																
Chengann	...	...	39	...	39	...	...	9	...	30	...	...	...	...	100.0	...
Chidambaram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddalore, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

B-DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1901-1902—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 and secondary vaccinations.						Re-vaccination.				Percentage of successful cases.	
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
South Arcot District—cont.																
Gingee	...	...	25	...	3	1	1	3	...	...	22	3	4	15	100.0	42.8
Kallakurichi	...	...	18	...	12	...	...	11	...	1	6	5	...	1	91.7	100.0
Kurichippadi	...	...	12	...	12	6	6	12	...	...	...	...	...	...	100.0	...
Mannargudi	...	...	4	...	4	1	2	4	...	...	4	...	1	3	...	...
Markanam	...	...	9	...	6	...	...	...	...	...	...	...	...	...	...	...
Nellikuppam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
New Town, Cuddalore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Old Town, do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Panruti	...	...	6	...	1	...	...	...	...	1	5	1	...	4	42.8	...
Porto Novo	...	...	24	...	22	...	...	6	...	8	2	...	...	...	...	...
Sankaripuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	...
Srimushnam	...	...	12	...	12	5	6	12	...	...	...	...	...	...	...	...
Tindivanam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tirukkoyilur	...	...	20	...	6	...	...	...	...	6	30	...	20	...	...	...
Tirupappuliyur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tiruvannamalai	...	...	13	...	7	...	...	6	...	1	6	2	...	4	100.0	...
Tittagudi	...	...	3	...	3	...	...	3	...	...	2	...	...	...	100.0	100.0
Ulundipettai	...	...	4	...	2	...	...	2	...	...	7	2	5	...	...	28.6
Vanoor	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Villapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	100.0
Vridhachalam	...	...	6	...	2	3	...	2	...	...	4	4	...	...	...	...
Total	...	...	208	...	130	15	15	70	15	45	78	19	30	29	82.3	88.8
South Canara District.																
Amudavi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	100.0
Bantval	...	...	11	...	7	1	6	7	...	...	4	4	...	...	...	...
Baidur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	...
Beltangady	...	...	2	...	2	...	...	2	...	...	...	...	...	...	...	...
Hebri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	80.0
Hodrag	...	...	16	...	5	...	...	4	...	1	11	9	1	1	100.0	...
Karkal	...	...	14	...	14	3	9	14	...	...	36	33	3	...	98.2	91.7
Kannur	...	...	95	...	60	...	6	57	1	2	...	...	...	...	...	100.0
Kudapur	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...
Mangalore, Women and Children.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mangalore Woonlock Hospital.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	100.0	60.6
Manjeswar	...	...	9	...	6	...	6	6	...	...	3	2	1	...	...	...
Moolki	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mudabidri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	60.6	73.2
Puttur	...	...	33	...	7	...	...	2	1	4	26	11	4	11	88.8	...
Sheukarnaram	...	...	9	...	9	...	6	8	...	...	...	...	...	...	...	...
Sullia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Udipi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Uppalangady	...	...	3	...	...	...	...	...	...	...	3	...	3	...	...	...
Total	...	...	195	...	110	4	33	100	3	7	86	61	9	15	97.1	87.1
Tanjore District.																
Aranangi	...	...	185	...	105	33	134	180	15	...	...	...	...	...	92.3	...
Adirapattanam	...	...	186	...	106	...	163	190	6	...	...	...	...	...	96.9	...
Ammanichatram Dispensary.	...	...	76	...	66	4	55	88	7	...	10	9	1	...	80.4	90.0
Ayyampettai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gandarakotai	...	...	215	...	214	26	185	198	21	...	1	1	...	1	80.1	...
Karathattangudi	...	...	188	...	182	4	115	131	1	...	...	...	...	...	90.2	100.0
Kodavasal	...	...	58	...	45	1	32	39	3	3	13	9	4	...	92.9	69.2
Kuminkonam	...	...	108	...	104	29	54	95	9	...	4	3	1	...	81.3	75.0
Kumbakonam Branch.	...	...	35	...	23	2	14	23	...	...	2	2	...	...	100.0	100.0
Kuttanallar	...	...	113	...	103	15	75	100	3	...	10	10	...	...	97.1	100.0

B-DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1901-1902—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 and secondary vaccinations.						Re-vaccination.				Percentage of successful cases.	
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Tanjore District—cont.																
Ammanalkudi	...	...	53	...	53	1	39	53	...	...	...	...	...	...	100.0	...
Manamboochavady	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Manargudi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mavavaram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mimisal	...	...	116	...	113	8	76	106	2	3	3	1	2	...	98.2	83.3
Muttupet	...	...	232	...	232	69	141	210	22	...	...	...	...	...	90.5	...
Nagore	...	...	51	...	13	...	...	12	1	...	38	25	13	...	92.8	65.8
Kannilam	...	...	188	...	185	11	112	174	...	11	3	1	...	2	100.0	83.8
Nogapattam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nidamangalam	...	...	16	...	16	1	10	16	...	...	...	...	...	...	100.0	...
Orthanad	...	...	74	...	59	6	33	48	11	8	15	10	5	...	80.3	66.6
Papanasam	...	...	178	...	176	33	103	156	12	8	2	1	...	1	92.8	100.0
Pattukkottai	...	...	211	...	200	83	88	124	18	...	11	1	10	...	52.0	9.0
Pozhar	...	...	254	...	210	21	142	166	14	...	44	44	...	...	93.3	100.0
Rajah Mirasdar Hospital.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shiyali	...	...	181	...	161	13	83	112	37	2	14	8	4	2	75.2	66.7
Tirukkattupalli	...	...	...	...	43	...	15	26	15	2	48	5	49	...	69.4	10.4
Tiratturaipandi	...	...	...	...	182	30	69	121	45	16	84	33	88	...	72.9	46.5
Tiruvadamal	...	...	155	...	155	1	11	144	10	1	14	14	...	...	93.5	100.0
Tiruvadi	...	...	215	...	214	35	145	201	18	...	1	1	...	...	93.9	100.0
Tiruvallur	...	...	118	...	118	16	67	118	...	...	...	...	...	...	100.0	...
Tranquebar Branch	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vadugacherry	...	...	65	...	64	9	30	64	...	...	...	...	...	...	...	...
Vadarniam	...	...	74	...	74	...	50	70	8	1	1	1	...	...	100.0	100.0
Vehungymam	...	...	114	...	114	...	97	114	...	...	...	...	...	...	95.9	...
Vallom	...	...	165	...	158	21	116	143	13	2	7	7	...	...	100.0	91.7
Total	...	...	3,334	...	3,608	423	2,212	3,277	279	52	826	186	121	19	92.1	60.6
Tinnevely District.																
Amhasamudram	...	...	8	...	7	1	5	6	1	...	1	1	...	...	85.7	100.0
Christianagaram	...	...	50	...	50	...	10	33	15	2	...	...	...	...	68.7	...
Etayapuram	...	...	89	...	80	10	36	65	11	4	9	6	3	...	85.5	68.7
Mengnanapuram	...	...	65	...	65	23	26	51	11	...	...	...	...	...	83.1	...
Melooragavapuram.	...	...	50	...	50	25	10	40	6	4	...	...	...	...	86.9	...
Nagalapattam	...	...	41	...	40	19	15	36	1	3	1	1	...	...	97.3	100.0
Nagandri	...	...	27	...	20	1	9	16	2	3	7	7	...	...	85.9	100.0
Nagandri	...	...	10	...	9	...	5	6	1	2	1	...	...	...	85.7	...
Ottappidaram	...	...	33	...	20	...	8	19	1	...	13	4	8	1	95.0	33.3
Palamcottah	...	...	12	...	...	...	...	...	...	...	12	12	...	...	100.0	...
Panagudy	...	...	80	...	75	9	40	63	8	4	5	4	1	...	88.7	80.0
Rhadapuram	...	...	49	...	42	6	14	34	4	1	7	6	1	...	89.5	85.7
Sankaranayinarakodiyil.	...	...	102	...	97	18	49	76	13	8	5	4	1	...	85.4	80.0
Sattur	...	...	120	...	77	19	25	70	3	4	43	28	8	7	85.9	77.7
Sawyerapuram	...	...	49	...	43	8	28	46	3	...	...	...	...	...	83.8	...
Shermadavi	...	...	66	...	66	8	61	66	...	...	...	...	...	...	100.0	...
Sivagiri	...	...	84	...	84	17	44	72	12	...	...	...	...	...	85.7	...
Srivaikuntam	...	...	108	...	67	12	36	75	8	4	16	11	3	2	80.3	78.6
Srivilliputtur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tenkasi	...	...	111	...	107	24	57	99	6	3	4	1	3	...	94.2	25.0
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tirukarangudy	...	...	50	...	50	15	24	40	5	5	...	...	...	...	88.9	...
Triohendur	...	...	75	...	64	18	28	51	8	5	11	7	1	3	86.4	87.5
Tuticorin	...	...	38	...	15	0	4	15	...	...	23	23	...	...	100.0	100.0
Virakotalampudur	...	...	48	...	48	9	22	34	8	6	...	...	...	...	80.9	...
Virudunpatti	...	...	73	...	74	36	14	69	10	5	...	...	...	...	85.5	...
Total	...	...	1,451	...	1,296	266	570	1,094	137	65	158	115	29	14	88.9	79.9
Trichinopoly District.																
Ariyalur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brugalore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1901-1902—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 and secondary vaccinations.						Re-vaccination.				Percentage of successful cases.	
					Total.	Successful.			Unsuccessful.	Unknown.	Total.	Successful.	Unsuccessful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.
						Under 1 year.	Over 1 and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Trichinopoly District—cont.																
Huppúr	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jeyankondasolapuram.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kattuputtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kulittalai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lalgudi	...	...	10	...	10	8	7	10	...	...	...	...	...	...	100.0	...
Manappalai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Masiri	...	...	17	...	17	...	...	15	...	2	...	...	...	...	88.2	...
Perambalur	...	...	7	...	7	2	3	7	...	...	...	...	...	...	100.0	...
Srirangam	...	...	7	...	7	6	1	7	...	...	...	...	...	...	100.0	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tursiyúr	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuvarnakarichi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oriyar Jubilee Dispensary.	...	...	15	...	15	2	10	13	2	...	...	...	...	...	96.7	...
Total	...	...	55	...	56	13	21	52	4	...	...	...	...	...	92.3	...
Visagapatam District.																
Anakapalle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bimlipatam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bobbili	...	...	9	...	9	5	2	9	...	...	...	...	...	...	100.0	...
Do. Goshala Hospital.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chidurupalle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chódavaram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gajapatinagaram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jami	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurapam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nakkapilli	...	...	21	...	20	6	11	20	...	...	1	...	1	...	100.0	...
Narasapattanam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Paikonda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parvatipuram	...	...	11	...	11	2	4	11	...	...	...	...	...	...	100.0	...
Pondur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Razam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sáilúr	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Strungavarapukota	...	...	21	...	21	3	4	7	10	4	...	...	...	...	41.2	...
Voeraghattam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Visagapatam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Visagapatam Female Hospital.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Visianagaram Maharaja's Hospital.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Visianagaram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Waltair	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Yellamanchili	...	...	144	...	125	...	75	101	9	15	19	16	...	3	91.8	100.0
Total	...	...	200	...	186	15	96	148	19	10	20	16	1	3	88.6	94.1
Grand Total	...	...	13,851	...	11,040	1,940	5,452	9,552	1,060	428	2,811	1,944	610	317	90.0	75.8

STATEMENT No. IV showing the number of persons primarily vaccinated and the number of those persons who were successfully vaccinated in the Madras Presidency in each of the undermentioned years.

Establishment.	Persons primarily vaccinated.									
	1892-93.		1893-94.		1894-95.		1895-96.		1896-97.	
	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.
Government vaccinators	15,038	15,038	15,667	15,667	16,717	16,717	17,694	17,694	17,311	17,311
Local Fund do.	982,909	982,909	948,276	948,276	874,099	874,099	879,680	879,680	927,973	927,973
Customs do.	5,208	5,208	4,806	4,806	2,727	2,727	3,827	3,827	3,628	3,628
Zamindari do.	6,860	6,860	6,496	6,496	5,778	5,778	5,065	5,065	4,408	4,408
Municipal do.	106,364	106,364	102,267	102,267	101,200	101,200	98,718	98,718	96,380	96,380
Dispensaries	35,988	35,988	28,541	28,541	20,888	20,888	15,101	15,101	10,267	10,267
Medical subordinates	4,882	4,882	2,566	2,566	2,506	2,506	2,214	2,214	1,088	1,088
Total	1,106,317	1,106,317	1,048,181	1,048,181	1,116,820	1,116,820	1,023,267	1,023,267	962,460	962,460

N.B.—The information for the years commencing from 1897-98 includes secondary vaccination also.

* STATEMENT No. V showing particulars of Vaccination verified by Inspecting Officers during 1901-1902.

Districts.	Total number of persons vaccinated.		Total number inspected.		Percentage of inspection to total number vaccinated.		Percentage of cases found successful to total number inspected.		Percentage of success as reported by Vaccinators.	
	Primary and second.	Re-vaccination.	By Civil Surgeons.	By Native Superintendents or other Inspecting Officers.	Primary and second.	Re-vaccination.	By Civil Surgeons.	By Native Superintendents or other Inspecting Officers.	Primary and second.	Re-vaccination.
Anantapur ...	20,951	428	319	182	13,980	182	808	617	993	941
Bellary ...	24,640	2,191	300	167	21,084	167	1,000	609	870	828
Chingleput ...	23,871	2,166	286	156	19,009	156	985	484	870	819
Cuddalore ...	28,075	3,916	630	223	24,663	223	1,000	484	870	819
Gadag ...	69,877	3,437	1,986	864	47,444	864	985	609	870	819
Godavari ...	100,297	11,808	2,301	1,000	72,433	1,000	985	609	870	819
Kistna ...	71,190	2,062	325	151	32,460	151	985	609	870	819
Kurnool ...	23,850	1,779	241	124	20,811	124	985	609	870	819
Madura ...	24,686	6,433	2,413	1,000	30,571	1,000	985	609	870	819
Malabar ...	90,274	7,211	1,416	643	77,757	643	985	609	870	819
Nellore ...	41,399	755	389	174	27,757	174	985	609	870	819
Nilgiris ...	4,599	597	290	144	3,060	144	985	609	870	819
North Arcot ...	47,217	5,978	3,077	1,443	30,840	1,443	985	609	870	819
South Arcot ...	63,951	8,743	3,077	1,443	30,840	1,443	985	609	870	819
South Canara ...	47,154	5,980	1,905	99	22,378	99	985	609	870	819
Tanjore ...	77,198	3,600	2,723	1,000	40,921	1,000	985	609	870	819
Tinnevely ...	61,683	2,134	2,846	1,000	45,725	1,000	985	609	870	819
Trichinopoly ...	49,769	1,191	2,423	122	20,555	122	985	609	870	819
Vizagapatam ...	26,857	2,749	129	651	46,064	651	985	609	870	819
Total ...	1,207,905	70,876	26,551	10,717	659,758	10,717	800	546	806	777

N.B.—In the above table the statistics relating to the Madras Municipality have not been given, as complete information could not be obtained.

* Prepared in accordance with G.O. No. 1511 L., M., dated 17th December 1901.

† Excludes cases performed in Madras City and Cantonments.

STATEMENT No. VI showing Statistics relating to the number of children under one year of age in Municipalities available for vaccination and the number of successful operations performed on them. (G.O., No. 960 L., M., dated 31st May 1900.)

Municipalities.	Number of births available for vaccination during the year 1901-1902.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in col. 3.	Number of successful vaccinations on children under one year during the year ending March 1902.	Date of extension of Vaccination Act to Municipalities.
Adoni ...	1,151	149	1,002	750	1st Dec. 1888.
Anantapur ...	252	87	215	135	1st Jan. 1886.
Annapalle ...	561	74	507	391	1st Nov. 1891.
Bellary ...	1,893	279	1,614	644	1st Jan. 1891.
Berhampur ...	908	172	736	385	15th April 1891.
Barwade ...	864	198	666	499	1st May 1892.
Bimlipatam ...	347	45	302	234	1st Jan. 1894.
Calicut ...	2,068	411	1,657	1,121	1st Oct. 1891.
Cannanore ...	1,008	155	843	461	1st June 1891.
Chicacole ...	552	104	428	297	1st Dec. 1890.
Chidambaram ...	725	168	557	381	1st July 1897.
Chingleput ...	396	94	302	210	1st April 1897.
Cochin ...	716	154	562	423	1st Jan. 1894.
Cocanada ...	1,272	292	980	1,069	1st June 1890.
Coimbatore ...	1,987	308	1,679	921	1st Jan. 1889.
Conjeevaram ...	1,530	335	1,195	855	1st Jan. 1891.
Cuddalore ...	287	31	256	188	1st April 1887.
Dindigul ...	1,821	371	1,550	1,006	1st Aug. 1890.
Gadag ...	334	67	317	75	15th July 1886.
Gadag ...	313	58	265	637	16th July 1888.
Gadag ...	1,831	265	1,113	217	1st June 1886.
Gadag ...	490	84	406	200	1st April 1888.
Gadag ...	735	122	613	404	1st June 1891.
Gadag ...	1,134	245	889	690	1st Jan. 1889.
Gadag ...	476	93	383	234	1st Sept. 1893.
Gadag ...	84	10	74	60	1st April 1900.
Gadag ...	1,898	373	1,525	757	1st Aug. 1889.
Gadag ...	810	171	639	501	1st July 1889.
Gadag ...	3,418	713	2,705	2,143	1st Jan. 1891.
Gadag ...	698	142	456	268	1st Dec. 1890.
Gadag ...	1,341	302	1,039	788	1st Sept. 1891.
Gadag ...	1,221	192	1,029	690	1st May 1888.
Gadag ...	840	170	670	414	1st Oct. 1886.
Gadag ...	432	85	347	278	1st Jan. 1900.
Gadag ...	1,829	301	1,408	1,005	1st July 1886.
Gadag ...	902	150	752	559	1st Aug. 1886.
Gadag ...	395	87	308	233	1st Dec. 1885.
Gadag ...	596	77	519	420	1st July 1887.
Gadag ...	1,595	378	1,223	829	1st July 1886.
Gadag ...	1,528	323	1,205	900	1st Jan. 1893.
Gadag ...	659	107	552	443	1st Dec. 1890.
Gadag ...	716	144	572	448	1st Feb. 1891.
Gadag ...	443	109	334	330	1st Dec. 1891.
Gadag ...	967	208	761	533	1st Jan. 1886.
Gadag ...	2,394	365	2,009	1,353	1st Mar. 1891.
Gadag ...	716	105	611	329	1st July 1888.
Gadag ...	991	184	807	701	1st Jan. 1896.
Gadag ...	2,022	477	1,545	747	1st July 1893.
Gadag ...	967	171	796	678	15th Jan. 1892.
Gadag ...	1,637	419	1,218	742	1st July 1886.
Gadag ...	3,125	568	2,557	1,890	1st Aug. 1890.
Gadag ...	743	141	602	380	1st April 1891.
Gadag ...	386	64	322	212	1st Mar. 1890.
Gadag ...	754	135	619	492	15th Dec. 1897.
Gadag ...	880	289	591	451	1st May 1892.
Gadag ...	812	137	675	421	1st May 1889.
Gadag ...	1,244	163	1,081	783	1st Jan. 1897.
Gadag ...	1,394	194	1,140	787	1st Aug. 1890.
Gadag ...	1,066	185	881	654	1st Jan. 1891.
Gadag ...	304	41	263	144	20th June 1892.
Total ...	63,579	11,802	51,677	34,373	

* Revised figure not yet available.

STATEMENT No. VII showing Inspection Work done by Deputy Inspectors during the year 1901-1902.

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.		Total number of cases inspected by deputy inspectors of all sorts.	Total number of successful cases to total number inspected as reported by deputy inspectors.	Percentage of successful cases to total number inspected as reported by deputy inspectors.	Proportion per cent. of inspection to total number vaccinated.	
	First-class inspectors.	Second-class deputy inspectors.	First-class inspectors.	Second-class deputy inspectors.			First-class inspectors.	Second-class deputy inspectors.				First-class inspectors.	Second-class deputy inspectors.
Anantapur	1	...	342	...	11,601	253	7,313	...	7,313	6,932	94.7	62.7	...
Penakonda	1	...	414	...	9,288	240	...	6,739	5,739	5,631	98.1	...	61.8
Bellary	1	...	508	...	20,618	385	12,706	...	12,706	11,639	91.6	61.6	...
Harpanahalli	1	...	301	...	9,406	369	...	8,552	8,552	8,128	95.0	...	80.0
Chingleput	1	...	488	...	19,317	199	10,421	...	10,421	9,220	88.4	53.9	...
Saidapet	1	...	290	...	19,355	203	9,003	...	9,003	7,742	86.9	46.5	...
North Coimbatore	1	...	560	...	17,608	213	10,818	...	10,818	8,989	83.0	61.4	...
South Coimbatore	1	...	850	...	18,875	283	...	11,647	11,647	9,823	84.3	...	61.7
East Coimbatore	1	...	273	...	30,219	221	12,426	...	12,426	10,390	83.6	41.1	...
Cuddapah	1	...	721	...	8,860	242	6,243	...	6,243	5,588	89.5	70.4	...
Mudanapalle	1	...	1,330	...	13,479	208	8,819	...	8,819	8,669	98.0	82.7	...
Biddhant	1	...	898	...	6,721	290	5,559	...	5,559	5,338	95.3	62.2	...
Chattrapur	1	...	429	...	20,025	248	12,459	...	12,459	11,092	89.0	62.2	...
Chicacole	1	...	590	...	17,819	294	14,330	...	14,330	12,391	86.4	80.4	...
Ganjām Hill	1	...	511	...	17,584	231	14,830	...	14,830	13,711	92.1	84.3	...
Tracts	1	...	535	...	11,996	293	...	8,709	8,709	7,376	84.7	...	73.5
Rasakkondah	1	...	672	...	36,786	255	23,091	...	23,091	18,243	77.0	64.4	...
Ellore	1	...	429	...	31,206	275	...	26,734	26,724	21,589	80.8	...	55.8
Pitāpuram	1	...	852	...	29,649	291	24,571	...	24,571	19,212	78.2	82.8	...
Rajahmundry	1	...	264	...	31,823	236	15,713	...	15,713	12,967	82.5	49.4	...
Guntūr	1	...	279	...	25,271	189	10,872	...	10,872	8,393	77.2	43.0	...
Masulipatam	1	...	243	...	11,792	133	...	6,326	6,326	4,878	77.1	...	53.6
Narasarupet	1	...	535	...	16,298	225	11,831	...	11,831	10,707	90.5	72.6	...
Karnool	1	...	269	...	12,977	205	9,067	...	9,067	7,844	86.5	60.9	...
Gumbam	1	...	718	...	38,265	1,291	7,567	...	7,567	13,708	87.1	...	41.1
Madras	1	...	297	...	24,908	260	15,578	...	15,578	14,724	94.7	53.2	...
Dindigul	1	...	607	...	20,123	260	...	12,104	12,104	11,895	98.3	...	60.1
Madura	1	...	607	...	30,873	282	13,303	...	13,303	12,090	90.4	48.4	...
Paramagudi	1	...	117	...	21,398	157	6,948	...	6,948	6,114	87.9	32.5	...
Tellicherry	1	...	88	...	31,772	189	...	9,780	9,780	8,327	85.1	...	30.8
Calicut	1	...	182	...	30,767	255	...	14,837	14,837	13,409	90.3	...	45.2
Palghat	1	...	346	...	10,549	239	7,933	...	7,933	7,187	90.0	75.2	...
Southern (Nellore)	1	...	468	...	12,785	241	...	9,790	9,790	8,816	90.1	...	78.4
Central (Nellore)	1	...	373	...	16,732	280	...	10,208	10,208	9,266	90.8	...	81.0
Northern (Nellore)	1	...	192	...	8,438	153	...	1,517	1,517	1,487	98.0	...	44.1
Nilgiris	1	...	1,006	...	16,976	213	12,503	...	12,503	12,161	97.3	78.6	...
Chittoor	1	...	447	...	15,069	191	8,395	...	8,395	7,970	94.9	69.6	...
Vellore	1	...	650	...	13,789	231	...	9,647	9,647	9,098	94.3	...	69.9
Karvetanagar	1	...	642	...	22,997	261	14,347	...	14,347	12,739	88.8	62.5	...
Salom (Central)	1	...	343	...	15,866	271	...	7,935	7,935	7,323	92.3	...	60.0
Northern (Salom)	1	...	296	...	24,741	291	...	16,184	16,184	14,640	90.4	...	65.4
Namakkal	1	...	560	...	25,679	234	14,326	...	14,326	13,909	96.0	...	56.0
Cuddalore	1	...	424	...	13,973	276	...	7,807	7,807	7,353	92.9	...	56.2
Vridhachalam	1	...	301	...	18,358	199	...	8,296	8,296	7,984	96.2	...	45.2
Tiruvannamalai	1	...	248	...	29,870	317	13,080	...	13,080	12,137	92.1	43.6	...
Northern (South Canara)	1	...	181	...	14,807	228	...	10,856	10,856	9,690	89.3	...	57.7
Kasaragod (South Canara)	1	...	527	...	24,972	292	12,042	...	12,042	11,390	94.6	...	62.2
Tanjore	1	...	494	...	22,897	301	...	18,188	18,188	17,438	95.8	...	77.3
Nagapetam	1	...	419	...	18,418	277	...	11,983	11,983	11,278	94.1	...	65.0
Palnukottai	1	...	469	...	30,639	263	16,028	...	16,028	14,908	92.4	52.3	...
Tinnevely	1	...	353	...	23,872	308	...	14,985	14,985	13,874	92.3	...	63.1
Srivilliputhur	1	...	365	...	21,808	264	...	15,843	15,843	15,305	96.3	...	75.8
Sermidevi	1	...	436	...	27,239	233	12,249	...	12,249	11,642	94.6	...	70.9
Trichinopoly	1	...	291	...	14,452	235	...	10,223	10,223	10,084	98.6	...	45.7
Ariyalur	1	...	467	...	27,473	293	...	12,508	12,508	11,542	91.8	...	72.2
Vinayapattam	1	...	820	...	34,717	280	21,419	...	21,419	20,346	94.9	...	...
Vishanagram	1	...	307	...	6,351	188	...	4,781	4,781	4,488	94.1	...	...
Gumugur	1	...	700	...	14,010	332	7,597	...	7,597	6,241	82.1	54.3	...
Jeyपुरa	1	...	...	...	...	...	...	...	...	...	...	...	...
Total	33	29	10,972	8,798	1,178,400	15,226	408,902	243,327	692,129	623,270	89.9	58.1	61.2

* Assistant Deputy Inspectors.

† Represents the number of days spent on inspection duty by four Assistant Deputy Inspectors.

‡ In working out these columns, the figures relating to Madras have not been taken into account.

Government {1902} of Madras.

LOCAL AND MUNICIPAL.

Recd.

Enclosures.

Regd.

Spare copies.

G.O., &c., Nos. 715, 716 L, 25th July 1902.

JULY.

Vaccination.

Reviewing the report on— for 1901-1902.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

READ—the following paper :—

Letter from Lieutenant-Colonel W. G. KING, C.I.E., I.M.S., Sanitary Commissioner for Madras, No. 700-V., dated 21st June 1902.

ABSTRACT.—Forwarding the Annual Vaccination Report for 1901-1902.

ORDER—No. 715, L., dated 25th July 1902.

This report deals with the work done by the vaccination staff during the three years which ended on the 31st March 1902 and except that there was in the last year a decrease of ten in the number of vaccinators, the progress made in the term was satisfactory. Owing to exceptional circumstances caused by the prevalence of plague in 1898-99 there was a marked decline in that year in the number of cases vaccinated, and the position reached in 1897-98 was not retrieved until 1901-02. The Government propose therefore, to examine the statistics for a more lengthened period in order to ascertain whether the staff is adequate in numbers and efficiency and whether, having regard to all the circumstances, the progress made is all that could reasonably be expected.

2. Ten years ago the supervision of the Vaccination department was, as now, entrusted to the Deputy Sanitary Commissioner, but he had then more time for this work. A Provincial Health Officer will, however, be appointed shortly and the Deputy Sanitary Commissioner will then be relieved of the duties at the Medical College which now keep him in Madras for a great part of the year. The number of Deputy Inspectors has increased from 58 to 63 in the ten years, but the number of vaccinators (excluding probationers) in the Madras Presidency proper has advanced by ten only since 1892-93, and now stands at 688. Taking the birth-rate at only 40 per mille per annum and the infant mortality at 25 per cent., and assuming further that two-thirds of the infant deaths occur in the first six months of life, the number of children who survive that period and should, therefore, be vaccinated in one year is 1,275,000. This gives an average to each vaccinator of 1850 cases of infant vaccination alone. It also appears that in most districts there is no reserve from which men can be drawn to supply the places of those who are absent on leave, and this has, in many cases, been given as the explanation of a reduced output of work. It seems clear, therefore, that the staff is seriously inadequate and the Sanitary Commissioner should accordingly examine the circumstances of each district and municipal town and submit proposals for strengthening the establishments.

3. The population has increased during the ten years by 7½ per cent., but though the total number of primary and secondary vaccinations has increased by 11·6 per cent., the advance in the number of successful cases is only 5·2 per cent. In the case of towns the position is even more unsatisfactory, as the increase in the number of successful cases is only 4·7 per cent. while the population has grown by 15·8 per cent. It is clear, therefore, that in the presidency as a whole, and more particularly in towns, the staff has not even succeeded in keeping pace with the growth of population. In districts the ratio of all kinds of successful vaccination to population was 28·1 per mille in 1901-02. This ratio was noticeably low in North Arcot (21·1), Cuddapah (22·1), Nellore (24·1), Chingleput (24·3), and South Arcot (24·6). There was a satisfactory improvement in Malabar, but the average number

of persons successfully vaccinated in that district during the past five years is only 17·5 per mille of the population.

For municipal towns the ratio was 52·9 per mille, and the towns in which it was lowest are Kumbakonam (29·3), Cuddapah (30·0), Nellore (30·8), Masulipatam (31·6), Tanjore (31·8), Chidambaram (32·2), Salem (32·6), Mannargudi (32·9), Gudiyattam (33·6), and Erode (33·7). The figure given for Calicut is 124·9, which is much higher than that for any other town.

The quality of the work done is not so good as it was ten years ago, and the actual decline in this respect is measured by the fall in the percentage of success from 95 in 1892-93 to 92 in 1901-02. In towns, however, there was an improvement, the percentage having advanced from 94·6 to 96·7. The quality of the work was particularly bad in the districts of Godavari, Kistna, Chingleput and Malabar, parts of the hill tracts of Vizagapatam and the towns of Chicacole, Palni, Salem, Chingleput, Cochin and Berhampur.

4. Excluding the figures for the cantonments which are situated beyond the limits of this presidency, the number of children under one year of age who were successfully vaccinated in 1901-02 was 354,000 while the number available for vaccination was as explained above, about 1,275,000. In 1892-93 the number of infants successfully vaccinated was only 257,000, but though steady progress has been made in this respect, it is obvious that very much still remains to be done. The population of the 60 towns given in statement No. VI is 1,913,000 and with a birth-rate of even 40 per mille the number of births should be 76,500 as compared with the 63,500 actually registered. The number of deaths among these infants is approximately 19,000 as against 12,000 registered and the number of infants remaining for vaccination would thus be 57,500 instead of 51,677. The number actually vaccinated was only 34,373 and even assuming that this figure includes none of the infants who died during their first year the result is extremely unsatisfactory. The remedy rests with the municipal councils, who must insist on better registration and on more work being done by the vaccinators. The latter are for the most part under the control of the local medical officer and the Surgeon-General should direct all such officers to give more personal attention to the work of vaccination. The towns in which this branch of vaccination was particularly backward are Bellary, Cuddapah, Ellore, Kumbakonam, Nellore and Tanjore.

Bellary is the only district in which infant vaccination was at all satisfactory, the proportion of successful cases being 21·9 per mille of the total population. In Malabar the ratio was so low as 0·9 per mille and the President of the District Board should explain the grave neglect which this figure discloses. Other districts with very low ratios are Godavari (4·5), Nilgiris (4·6), Ganjam (5·3), Nellore (5·5), South Canara (5·5) and Cuddapah (5·9). Heads of villages are required to keep lists of unprotected children and the Revenue officers must see that the standing orders on this subject are obeyed. The districts in which there has been most neglect are Coimbatore, Cuddapah, Madura, Nellore and Trichinopoly and the matter should receive special attention there without delay.

5. The marked fall in the measure of success obtained with glycerinated lymph is a matter of serious importance which has not received adequate notice from either the Inspector of Vaccination or the Sanitary Commissioner, but the Government trust that the opening of the Vaccine Institute will result in the supply of a lymph of uniform and reliable quality.

6. There was a small but satisfactory decline throughout the three years 1899—1902 in the average cost of each successful case, but the figure is still slightly above that of 1892-93. With the supply of a more trustworthy quality of lymph and a consequent improvement in the degree of success, there should be a decrease in the average cost of a successful case.

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Nos. 715, 716 L., 25th July 1902.

7. The attention of all chairmen of municipal councils is drawn to the remarks of the Inspector in the third clause of paragraph 8 of his report. The return there referred to should as a rule be checked by the local medical officer, but that check does not relieve the chairman of his responsibility in the matter. The Governor in Council notices with dissatisfaction the neglect in Berhampur, Cocanada, Nellore, Tirupati, Cuddalore and Cuddapah. In rural areas the President of the District Board is responsible for the due performance of their duties by the Vaccination staff and the work of these establishments should be reviewed in detail periodically with the assistance of the District Medical and Sanitary Officer. It is of special importance that at least 50 per cent. of the work of the vaccinators is examined by the Deputy Inspectors and this must be insisted upon. Any officer who fails to reach that standard is *prima facie* unfit for his post and unless he has an adequate explanation of apparent neglect he should be reduced.

Summary.

8. The general conclusions at which the Governor in Council has arrived are—

- (1) that sufficient progress has not been made during the past decade;
- (2) that the staff of vaccinators must be increased without delay and that there must be a corresponding increase in the establishment of Deputy Inspectors in order to secure adequate supervision;
- (3) that much more attention must be paid to infant vaccination both in towns and in rural areas, and that to ensure success in the latter the co-operation of Revenue officers is essential; and
- (4) that a better quality of lymph must be supplied.

When these measures have been carried out it will be possible gradually to extend the area within which vaccination is compulsory and to give to the inhabitants of the presidency a much greater measure of protection from small-pox than has been afforded hitherto.

(True Extract).

H. A. STUART,

Acting Secretary to Government.

To

- The Sanitary Commissioner.
- „ Surgeon-General.
- „ Sanitary Engineer.
- „ Public Department.
- „ Judicial Department.
- „ Revenue Department.
- „ Deputy Adjutant-General, Madras Command.
- All Collectors.
- „ Presidents of District Boards.
- „ Chairmen of Municipal Councils.
- The President, Municipal Commission, Madras.
- „ Director of Public Instruction.
- „ Accountant-General.
- Editors' Table.



ENDORSEMENT—No. 716 L., dated 25th July 1902.

Copy to the Government of India, Home Department.

A. T. PRINGLE,

Assistant Secretary to Government.

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