

ANNUAL REPORT

OF THE WORK OF THE VACCINE SECTION OF THE

KING INSTITUTE OF PREVENTIVE MEDICINE,
MADRAS,

AND

REPORT ON VACCINATION

IN

THE MADRAS PRESIDENCY

FOR THE YEAR

1908-1909.

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OFFICE OF SANITARY COMMISSIONER,
MADRAS, 9th July 1909.

No. 1749.
V

From

MAJOR W. W. CLEMESHA, M.D., D.P.H., I.M.S.,
Acting Sanitary Commissioner for Madras,

To

THE SECRETARY TO GOVERNMENT,
LOCAL AND MUNICIPAL DEPARTMENT.

SIR,

I have the honour to forward herewith the Vaccination Report for the past year—Part I dealing with the work done in the Vaccine Section of the King Institute, Guindy, and Part II with the progress of vaccination in the Presidency. Both the reports show improvement over the previous year.

2. As regards the working of the trial scheme in the districts of Chingleput, North and South Arcot, and Madura, it is observed that, taken in the aggregate, there was an increase both under primary operations and revaccinations. Descending however into details, there were marked variations under the former head and a uniform increase under the latter. Setting aside the work fulfilled in the Polur Range of the North Arcot district and the Villupuram Range of South Arcot which were newly formed in the year under report, it is found that the three ranges comprised in the Chingleput district and those of Dindigul and Periyakulam in Madura have alone produced an increase in comparison with the previous year, while the remaining ranges—Madura, Vellore, Ranipet and Cuddalore—recorded a large decline in numbers which the Deputy Inspectors of Vaccination concerned ascribe to paucity of cases for primary operations. The same complaint has, however, not been made elsewhere in the selected areas in which the trial scheme has now been working for nearly three years. The question of reducing the minimum of 500 cases required of vaccinators in the Madura, North and South Arcot districts may well be considered after the receipt of the opinion of the Presidents of District Boards invited in paragraph 2 of G.O., No. 577-L., dated 5th May 1909.

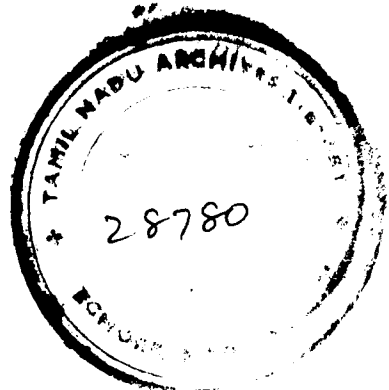
3. I would invite the special attention of Government to paragraph 12 of the report of the Inspector of Vaccination and Deputy Sanitary Commissioner and would request that the importance of the subject therein dealt with be specially impressed on the Presidents of District Boards.

I have the honour to be,

Sir,

Your most obedient servant,

W. WESLEY CLEMESHA, Major, I.M.S.,
Ag. Sanitary Commissioner for Madras.



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PART I.

**WORK DONE IN THE VACCINE SECTION,
KING INSTITUTE, GULINDY.**

**ANNUAL REPORT OF THE WORKING OF THE VACCINE SECTION
OF THE KING INSTITUTE OF PREVENTIVE MEDICINE, GUINDY,
FOR THE YEAR ENDING 31ST MARCH 1909.**

THE total amount of vaccine prepared at the Institute during the year under report shows a marked advance over that for the previous year. In all, vaccine for 1,969,054 cases was supplied in 1908-1909 which number compared to the 1,883,853 cases issued in 1907-1908 corresponds to an increase of 4.5 per cent. The following table compares the amounts of vaccine supplied to various bodies during the five years ending 1908-1909. From this it will be seen that the amount of vaccine supplied to the Agency Tracts is a steadily diminishing quantity. Under all the other headings, the year under report shows an increase, and, with the exception of the amount supplied to Municipalities in 1906-1907, the figures constitute maxima for the quinquennial period :—

	1904-1905.	1905-1906.	1906-1907.	1907-1908.	1908-1909.
Government officers including jails ...	8,800	16,818	17,867	21,000	28,698
Agency Tracts ...	62,352	59,083	38,293	27,095	25,986
Military ...	1,063	6,336	12,910	9,769	17,954
District Boards ...	1,308,035	1,401,409	1,624,752	1,648,220	* 1,681,336
Municipalities ...	91,990	126,856	140,228	129,657	136,867
Private persons ...	6,208	22,748	27,735	48,112	79,863
Total ...	1,478,448	1,633,250	1,861,775	1,883,853	1,969,054

2. The regular supply stipulated for by the District Boards totalled 1,490,354 cases, a decrease of 26,791 as compared with last year. A rise of 59,277 cases however, in the amount of vaccine obtained on extra indents, much more than neutralised this decrease. It would appear that probable requirements have not been so closely estimated for this year, as last, but the 45 per cent. increase in extra indents may of course be due to a greater prevalence of small-pox. A considerable part of the increase under Municipalities is due to the fact that since January 1st, 1909, the Madras Corporation has derived its entire supply from the King Institute.

3. As in previous years lanoline vaccine was supplied unless glycerinated lymph was specially asked for. The chief demand for the latter came from the Madras Corporation and the Chief Inspector of Vaccination, Colombo. It is important to remark that glycerinated lymph is much more sensitive to high temperatures than is lanolinated lymph. Therefore when glycerinated lymph is indented for, arrangements should be made to use it, as soon after receipt, as possible.

4. The system of fortnightly despatches inaugurated in June 1907 has been continued. As far as the Institute is concerned the arrangement has proved satisfactory. The possibility of systematising the filling and despatch of tubes and foreseeing the approximate requirements for a given period is a great advantage. It cannot be said, however, that the system has had a fair trial. The essence of the system is that vaccine issued one fortnight should be used, the results inspected and reported on before the next fortnightly supply is issued. How far that is from

being what actually occurs may be inferred from the statement that it is quite an exceptional occurrence for a given batch of vaccine to be reported on within the fortnight.

This can only be ascribed to want of methodical working on the part of vaccinators, and such want of method is also indicated by the careless way in which many of the reports are filled in. In consequence of this a great amount of quite unnecessary work is thrown on the clerical staff of this Institute, and on the District Medical and Sanitary Officers and Deputy Inspectors of Vaccination through whom rectification of mistakes has to be obtained.

Attention was drawn to this state of affairs in letter No. 1090-V., dated 16th April 1908, from the Superintendent of this Institute to the Presidents, District Boards, District Medical and Sanitary Officers and Chairmen, Municipal Councils; but it cannot be said that much improvement is evident.

It would, I think, be much better if vaccinators submitted their returns through the Deputy Inspectors of Vaccination who would be responsible that the returns tallied with the registers kept by the vaccinators. These registers have to be inspected and controlled by the Deputy Inspectors of Vaccination in any case, and very little extra-work would be involved in checking the fortnightly return cards with them. Such extra work would be amply compensated for by the reduction in the number of incorrect or incomplete returns requiring investigation.

5. The net cost of production of the total amount of vaccine supplied to Government Officers and public bodies, including establishment charges was Rs. 43,064-11-11 as against Rs. 39,988-13-3 in the previous year—*vide* Statements A and B. The cost per case amounts to 4-338295 pies as compared with 4-182429 pies in 1907-1908—*vide* Statement C.

6. Statement D shows the percentage rate of success obtained by vaccinators arranged according to months. The figures are in the main similar to those of last year, but there is a slight drop of 0.29 per cent. in the average for the whole year. This seems to be mainly due to the persistently low rate of success during June and July 1908. That climatic conditions affect vaccination in India is well known, and it is possible that high temperature produces its effect through its action on (a) the vaccine, (b) the vaccinator and (c) the vaccinated.

(a) It has now been abundantly proved that vaccine kept approximately at the freezing point will retain its efficiency for at least six months.*

It is proposed to take increasing advantage of this fact to prepare vaccine only under the most favourable climatic conditions. It may therefore be held to be within the limits of possibility to issue stored vaccine from the Institute in an efficient condition. Now as regards the deleterious action of moderately high temperatures (95° F., say) on vaccine, the time factor is one of great importance. Green has shown † that such moderate temperatures do not produce deterioration in eight days. Taking three days as the maximum time that a packet of vaccine might be *en route*, it follows that it is quite possible at all seasons of the year to place perfectly efficient vaccine in the hands of the vaccinator.

(b) From the fact that the punctual performance, and the quality of a vaccinator's work are liable to be prejudicially affected by high atmospheric temperature, this second source of poor results in the hot season must be held to be the most important of the three. It is probably also the one that is likely to prove most difficult to eliminate. At present vaccinators are given a fortnight during which any given consignment of vaccine must be used. Any vaccine left unused after that period has elapsed must be rejected. Having regard to what was said under section (a) of this subject, vaccinators should be informed that the fortnight must be reckoned from the date when the vaccine was despatched from the Institute. They have no concern whatever with the date of preparation of the vaccine. It would also be well to impress on vaccinators that the fortnight represents the maximum delay that should be incurred under the most unfavourable circumstances, and that in the great majority of cases all of a given consignment should be used up in two or three days. Their results will certainly not be

unfavorably affected by the failure to avail themselves of the full period during which it is permissible to use the vaccine.

(c) The third source of poor results in the hot season might be curtailed by exhorting vaccinators to be even more particularly careful to ensure adequate penetration of the vaccine into the scarifications.

7. Statement E shows the percentage of success obtained arranged according to districts. As in the previous year the Nilgiris head the list with the good percentage of 99.01. Favourable climatic conditions are probably accountable for this, and makes the closely approximating results obtained at Bellary and Vizagapatam all the more creditable. In both years the Coimbatore, Gódvári and Kistna districts occupy a very humble position in the list and it would be interesting to know if there be any climatic or other local condition to account for this.

8. While, on the whole, the results under report can be regarded with a certain amount of satisfaction, it must be admitted that the vaccine section is far from being up to date in its methods. Perhaps as much as is possible has been attained by strict attention to cleanliness, but the procedure falls far short of modern aseptic practice.

A pressing need is a large Steam Steriliser in which the overalls and gloves used by the operators, the bandages and towels used on the calves, and all vessels and instruments used in the preparation of the vaccine could be sterilised.

Unfortunately the climate of India prohibits the use of glycerine for suppressing contaminating organisms, and lanoline, while being a very suitable diluent, has no antiseptic power. The most thorough application of aseptic methods therefore would not get rid of the foreign micro-organisms derived from the calves' skin. Captain Christophers, I.M.S., has shown* however that these foreign micro-organisms are practically represented by a few non-pathogenic species. Something might be done in this direction by chloroforming and dessicating the pulp previous to incorporating it with anhydrous lanoline. This must be the subject of future experiment, however, and meanwhile the aim should be to eliminate all the contaminating micro-organisms derived from the apparatus and instruments used.

9. In the year under report no contractors were found willing to supply calves on the contract system. Calves were brought from up-country and purchased at the Institute as required. At no time has there been any shortage in the supply. The removal of done calves has been a source of much worry and annoyance. Notwithstanding the fact that the contract rate for removal of done calves was fixed so low as Rs. 2-5-6, less than one-third of the purchase rate on admission, the removal contractor has been exceedingly remiss in the prompt removal of finished calves. From time to time considerable numbers of finished calves have been present at the Institute and the overcrowding so caused has aggravated the effect of the prevalent sickness. It would appear that there is no sufficiently large market for calves in the neighbourhood of Madras. The position is even more aggravated in the current year and some scheme to meet this difficulty is badly wanted.

10. During the months November 1908—February 1909 inclusive, there was a great deal of sickness among the calves. This was at first supposed to be rinderpest and anti-rinderpest inoculations were given to every calf in and entering the Institute. At first the effect of these seemed satisfactory, but after a while even enhanced doses produced but little effect. The reason for this is almost certainly that hæmorrhagic septicæmia was coincidentally very prevalent among the calves. The anti-rinderpest inoculations had of course no effect on the incidence of this disease. Everything that could be done in the way of disinfection and isolation was also tried. In this connection it may be pointed out that a much-felt want was sufficiency of shed accommodation. It was impossible to keep a sufficient space between the individual calves and infection from one to another was doubly difficult to control. An urgent want is three more large sheds of the type in the reserve compound. There is a plenty of room for three more in

* *Vide* Green Journal of Hygiene, Volume 8, No. 4, September 1908, page 525.

† *Ibid.*, page 526.

* Report of the Bacteriological section for the year 1906-07, page 25.

this compound, and, in my opinion, such sheds are better adapted for all requirements than the more elaborate stock and paste sheds. Indeed I seemed to note a recrudescence of disease whenever calves were returned to the pukka sheds after these latter had been emptied for disinfection or isolation purposes. If there be any foundation for this observation it will probably be found in overcrowding and diminished ventilation. In considering these questions it has to be borne in mind that as many as 20 calves a day have been vaccinated as compared with the 4-6 originally contemplated.

11. The quarantine sheds and enclosures close to the Adayar have proved very useful for keeping dealers' calves which had been inoculated with anti-rinderpest serum and were under observation previous to purchase.

12. The immediate control of the technical work of the section during the year has been in the hands of Military Assistant Surgeon H. C. Jackson. The prevalent sickness among the calves has thrown a great deal of extra work on Mr. Jackson's hands, which he has performed ungrudgingly, and I have much pleasure in recording my entire satisfaction with the manner in which this officer has carried out the duties entrusted to him. I think that the services rendered by Sergeant Cooper are also worthy of special mention. The necessity for frequent isolation and disinfection has involved him in much extra work which has been carried out with commendable energy and thoroughness. It is only due to the rest of the staff to state that in spite of difficulties they have worked well and willingly.

F. MAITLAND GIBSON, M.B., B.Sc.,
Ag. Superintendent.

OFFICE OF THE KING INSTITUTE
OF PREVENTIVE MEDICINE,
GUINDY, 15th June 1909.

STATEMENT A.

Statement showing the Expenditure incurred during the year 1908-1909 under all heads of Expenditure of the Vaccine Section of the King Institute of Preventive Medicine.

Detailed heads of account.	Amount spent.		
	Rs.	A.	P.
Deputy Superintendent	3,230	0	0
Assistant Superintendent, clerks and servants	7,754	10	9
Famine batta	611	5	2
Bonus in commemoration of the 50th anniversary of the assumption of government of India by the Crown	96	14	8
Travelling allowance	19	12	6
Purchase of apparatus, stores, etc.	1,834	14	1
Cost of boxes and receptacles for vaccine	500	11	9
Cost of calves including transport	33,289	13	6
Feeding charges of calves	5,214	13	5
Water-works	575	11	9
Gas works	214	8	9
Cost of land	—16	18	1
Petty repairs to buildings	8	0	0
Purchase of furniture	163	11	6
Repairs to furniture	25	12	0
Hot and cold weather charges	100	0	0
Tour charges	112	9	3
Service postage and telegram charges	2,014	12	6
Telephone charges	85	0	0
Purchase of books	...	...	...
Cleaning charges	...	...	...
Office expenses	381	9	9
Miscellaneous	73	6	0
Total	56,271	4	3

STATEMENT B.

Statement showing the net Expenditure incurred during the year 1908-1909 in the King Institute of Preventive Medicine, Guindy, Vaccine Section.

Particulars.	Amount.			Total.		
	Rs.	A.	P.	Rs.	A.	P.
Gross expenditure as per statement A				56,271	4	3
Deduct—						
(1) Credit under "sale of calves" and "miscellaneous receipts," remitted to the treasury...	9,061	15	0			
(2) Cost of vaccine supplied to private bodies during the year	4,144	9	4	13,206	8	4
Net expenditure				43,064	11	11

STATEMENT C.

Statement showing the Number of Cases for which vaccine was despatched to different bodies, private bodies being excluded, during the year 1908-1909.

Officers and others for whom Vaccine was despatched.	Number of cases for which Vaccine was despatched.	Rate per case.	Total cost debitable.
			Rs. A. P.
Government officers including jails	28,698	4-333295 pias.	648 7 0
Agency Tracts	25,936		586 0 6
Military Department	17,964		405 10 10
District Boards	1,681,336		38,326 13 4
Municipalities	135,867		3,097 13 3
Total ...	1,889,791	...	43,064 11 11 [†]

* Includes Rs. 336-8-0 being registration charges.

† Includes Rs. 27-14-0 being registration charges.

‡ In calculating the cost per case of Vaccine Rs. 364-6-0 has been deducted from Rs. 43,064-11-11 as the former amount represents registration charges which will be recovered separately from the local bodies concerned.

STATEMENT D.

Returns recorded in the King Institute from the whole of the Madras Presidency according to the month of the year

1908-1909.

Serial number.	Months.	Number successful.	Number unsuccessful.	Percentage of success.
1908.				
1	April	92,994	3,159	96.71
2	May	95,705	6,655	93.49
3	June	94,346	7,483	92.65
4	July	99,150	7,640	92.84
5	August	94,576	5,737	94.28
6	September	94,497	6,386	93.66
7	October	89,585	5,851	93.86
8	November	98,402	3,504	96.56
9	December	104,288	2,799	97.38
1909.				
10	January	101,637	1,771	98.27
11	February	96,696	2,261	97.71
12	March	82,747	2,844	96.67
	Total ...	1,144,623	58,090	95.33

STATEMENT E.

Returns recorded in the King Institute from the whole of the Madras Presidency classified according to districts.

1908-1909.

Serial number.	Districts.	Total number successful.	Total unsuccessful.	Percentage of success.
1	Anantapur	25,011	629	97.54
2	Bellary	28,402	427	98.51
3	Chingleput	39,007	2,353	94.31
4	Coimbatore	48,864	5,691	89.57
5	Cuddapah	47,275	1,377	97.53
6	Ganjām	65,567	2,458	96.38
7	Gōdāvari	52,723	5,976	89.81
8	Guntūr	47,373	2,146	95.66
9	Kistna	47,220	4,338	91.58
10	Kurnool	26,201	821	96.96
11	Madura	70,592	3,892	94.77
12	Malabar	120,184	2,648	97.84
13	Nellore	39,468	2,644	93.72
14	Nilgiris	5,317	53	99.01
15	North Arcot	58,507	2,555	95.81
16	Salem	68,406	4,647	93.64
17	South Arcot	48,124	1,540	96.89
18	South Canara	39,459	874	97.83
19	Tanjore	69,432	1,880	97.16
20	Tinnevely	68,320	3,291	95.40
21	Trichinopoly	46,407	1,952	95.96
22	Vizagapatam	82,764	3,899	98.50
	Total ...	1,144,623	58,090	95.33

PART II.

**PROGRESS OF VACCINATION IN THE MADRAS
PRESIDENCY.**

REPORT ON VACCINATION IN THE MADRAS PRESIDENCY FOR THE YEAR 1908-1909.

From Captain H. A. DOUGAN, I.M.S., Inspector of Vaccination and Deputy Sanitary Commissioner for Madras, to the Sanitary Commissioner for Madras, No. 1714 V., dated 3rd July 1909.

I have the honour to submit the annual report on vaccination in the Madras Presidency for 1908-1909.

2. The office of Inspector of Vaccination and Deputy Sanitary Commissioner was held by Captain Wm. A. Justice, I.M.S., up to 28th February 1909. He availed himself of combined leave for nineteen months from 1st March last after handing over charge of the office to Major Wm. W. Clemesha, I.M.S., Acting Sanitary Commissioner. Since the 9th idem, the appointment has been held by me.

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

Years.	Deputy Inspectors.			First-class Vaccinators, Rs. 20-15.	Second-class Vaccinators, Rs. 12-10.	Probationers, Rs. 7-5.	Total number of Vaccinators.
	First grade, Rs. 70.	Second grade, Rs. 60.	Third grade, Rs. 40.				
1907-1908 ...	24	20	35	298	452	119	869
1908-1909 ...	23	23	34	261	450	124	835

4. During the year under review the Villupuram range has been newly formed in the South Arcot district. This and Polur in the North Arcot District have been added to the trial scheme areas.

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

	1907-1908.	1908-1909.
Primary and secondary vaccination	1,508,368	1,478,771
Re-vaccination	124,480	170,834
Total	1,627,848	1,649,405

From this it will be observed that there has been an increase of 21,557 cases as compared with last year. This large increase has chiefly occurred in the Local Fund areas and is accounted for mainly by prevalence of small-pox.

6. The districts which show the largest increase are Vizagapatam (30,604), Chingleput (9,632), Gódvári (8,047), Salem (5,283), Malabar (4,762), and South Canara (2,883). The largest decrease is shown in the following districts: Madura (5,806), Kistna (5,328), Trichinopoly (4,675), Kurnool (3,890), and Ganjám (3,653).

The explanations of decrease offered by the Deputy Inspectors concerned are given below:—

Madura.—Abolition of granting rewards to vaccinators and absence of vaccinators without substitute.

Kistna.—Reduction in the staff of vaccinators; reduction of the vaccinators minima; absence of vaccinators without substitute.

Trichinopoly.—Reduction of the vaccinators minima; diminished prevalence of small-pox compared with the previous year.

Kurnool.—Prevalence of cholera; absence of vaccinator without substitute.

Ganjám.—Absence of vaccinators without substitute.

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

Establishment.	Number of successful vaccinations.				Total of successful vaccinations.	
	1907-1908.		1908-1909.		1907-1908.	1908-1909.
	Primary and secondary vaccination.	Re-vaccination.	Primary and secondary vaccination.	Re-vaccination.		
1	2	3	4	5	6	7
Local Fund vaccinators	1,265,809	52,824	1,249,793	95,025	1,318,633	1,344,818
Government do.	11,319	956	11,503	843	12,275	12,346
Municipal do.	106,433	26,424	103,762	24,374	132,857	128,136
Cantonment do.	5,072	1,213	4,669	2,392	6,285	7,061
Dispensaries do.	120	10	43	7	130	50
Medical subordinates	758	5,131	388	5,460	5,889	5,843
Total ...	1,389,511	86,558	1,370,153	128,101	1,476,069	1,488,254

Establishment—cont.	Ratio per cent. of successful cases.				Ratio per cent. of total successful cases.	
	1907-1908.		1908-1909.		1907-1908.	1908-1909.
	Primary and secondary vaccination.	Re-vaccination.	Primary and secondary vaccination.	Re-vaccination.		
8	9	10	11	12	13	
Local Fund vaccinators	95.4	79.7	95.3	88.4	94.7	94.4
Government do.	93.4	93.7	96.5	94.4	93.4	96.4
Municipal do.	97.6	73.8	97.3	77.0	91.7	92.7
Cantonment do.	98.5	51.0	97.5	61.8	83.4	81.5
Dispensaries do.	95.2	35.7	97.7	70.0	84.4	82.6
Medical subordinates	79.8	68.7	82.7	77.1	69.9	77.5
Total ...	95.6	76.6	95.5	81.4	94.2	94.1

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

8. The following districts show the largest increase in infantile vaccination when compared with the previous year: Guntur (39.3), Cuddapah (13.1), Chingleput (11.0). The Nilgiris district shows the largest decrease (23.8).

9. As regards municipalities, 36 towns against 46 in the preceding year succeeded in vaccinating 75 per cent. and over of children under one year of age which is usually taken as indicating fair work. The following Municipalities show the largest increase: Bellary (53.9), and Calicut (20.7).

10. The following table shows the cost of the various establishments and the cost of each successful case :—

Establishment.	Total expenditure.				Average cost of each successful case.			
	1907-1908.		1908-1909.		1907-1908.		1908-1909.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Government establishment ...	3,697	12 1	4,209	11 11	0 4 10		0 5 5	
Local Fund do. ...	2,47,698	10 2	2,69,876	13 3	0 3 0		0 3 2	
Municipal do. ...	32,467	1 2	31,608	12 8	0 3 11		0 3 11	
Cantonment do. ...	2,680	9 11	2,329	11 8	0 6 9		0 6 5	
Total ...	*2,86,544	1 4	*3,08,525	1 6	0 3 1		0 3 4	

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

11. A total of 143,267 cases was performed in the Municipalities during the year against 150,906 in the preceding year. The following towns exhibit the largest decrease :— Madras (4,194), Calicut (2,453), Cannanore (1,563), Madura (1,086), Coimbatore (710), Guntur (603) and Negapatam (591). The decrease in Madras is attributed to the fall in the number of cases vaccinated in the Natal and Mauritius depots and the Penitentiary and in the remaining six towns to either one or more of the following causes :—Prevalence of plague, cholera, decrease in the birth-rate, non-entertainment of temporary vaccinators.

The Municipalities showing the largest increase are Vizianagram (1,524) and Cocanada (775).

12. The introduction of compulsory system of vaccination in unions has facilitated the work of the vaccinators and increased the number of cases vaccinated. Of 78 ranges in the Presidency compulsory vaccination is not in force in any of the unions in the marginally-noted ranges.

Ganjām Hill Tracts.

Aska.
Parlakimedi.
Polavaram.
The Nilgiris.
Gunupur.
Jeypur.
Koraput.

Of the remaining 70 ranges, almost all the Deputy Inspectors of vaccination have generally, and 15 of them specifically, brought to the notice of this office certain drawbacks which are noted below :—

(1) Unprotected lists are not maintained correctly and up to date—children permanently removed to or brought over from other villages do not find place in the list. Deaths are not noted. Means of identification not having been added to the names of the parents, several are found untraceable. In short, unprotected lists are frequently simply copies of birth registers.

(2) Parents are not prosecuted for failure to produce their children for vaccination and verification at a selected place on the appointed date, but vaccinators are directed to go from house to house in search of cases and to verify them.

(3) There are unions where vaccination alone is compulsory, while registration of births and deaths is not compulsory.

(4) Incorrect registration of births and deaths.

(5) Certain technical objections to prosecution of defaulters are raised by magistrates.

(6) Want of co-operation of village munsiffs and union chairmen.

It may be noted that the compulsory system has been working creditably well in the Tellicherry and Palghat ranges, so much so that not a single parent had to be prosecuted for failure to have his children vaccinated.

An instance of the leniency of the magistracy in the matter, which has been pointed out by the Deputy Inspector of Vaccination, Parvatipur, is quoted below :—

“During the year under report 224 persons in all these four unions (Parvatipur, Palakonda, Bobbili, and Salūr) were reported to the respective union chairman for disobeying the compulsory act of vaccination and out of these 224 individuals, not even a single person was fined by the magistracy for disobeying the Act.”

13. The percentage of success obtained by the use of different kinds of vaccine in primary and secondary vaccinations (re-vaccination omitted) is compared in the following table :—

Number of cases excluding unknown.	Area.	Method.	Whence obtained.	Percentage of success.
1,323,084	Local Fund ...	Lanoline lymph ...	Supplied by King Institute of Preventive Medicine.	95.3
83,249 *	Municipalities ...	Do. ...	Do.	96.6
7,118 †	Do. ...	Calf-to-arm ...	Locally ...	99.9
16,239 †	Do. ...	Glycerinated lymph ...	Supplied by King Institute of Preventive Medicine.	99.7

* Includes cases in the Madras Municipality.

† Cases performed in the Madras Municipality.

The lanoline paste from the King Institute of Preventive Medicine was used in all the Local Fund districts. The percentage of success in this area fell from 95 to 95.3 and in the municipal area from 97.0 to 96.6. Some cases were also done with animal and glycerinated lymph in the Madras municipality which yielded a percentage of 99.9 and 99.7, respectively.

14. 20,215 deaths occurred from small-pox against 22,780 last year. Deputy Inspectors were directed to visit the infected villages and to vaccinate the unprotected cases therein.

15. The diagrams attached hereto show the proportion of population protected in the districts and municipalities.

16. The Deputy Inspectors of Vaccination of the following ranges have failed to verify 50 per cent. of the cases vaccinated in their ranges:—Polavaram (49.8), Calicut (47.5), Parvatipur (44.7), Vizagapatam (42.3), Kurnool (41.2), Ganjam Hill Tracts (35.6), Palghat (31.2) and Malapuram (30.2). The reasons given by them for short work with the exception of Malapuram and Parvatipur are held to be satisfactory. These two Deputy Inspectors have been warned.

17. The total number of Deputy Inspectors of Vaccination on the list is 79 against 78 last year, one additional Deputy Inspector having been appointed for the South Arcot district. Of these 67 are certificated Sanitary Inspectors. Four Deputies have retired from service; one was reduced from the 2nd grade to 3rd grade; one was suspended and five were fined for carelessness. Two deputies resigned.

18. The service books of all Deputy Inspectors of Vaccination have been brought up to date.

19. The delay in the submission of the report is due to the collection and compilation of vaccination statistics under G.O., No. 162-L., dated 15th February 1909, and Memo. No. 988/996, dated 18th May 1909, from the Sanitary Commissioner with the Government of India.

I have the honour to be,

Sir,

Your most obedient servant,

H. A. DOUGAN, Captain, I.M.S.,
*Inspector of Vaccination and Deputy Sanitary
Commissioner for Madras.*

APPENDIX.

VACCINATION RETURNS.

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	
								Primary and	Under 1 year.
1	2	3	4	5	6	7	8	9	10
						Males. Females. Total.			
1	Anantapur.	Anantapur circle ...	454,372	141	10	9,256	8,715	17,971	1,797
2		Penukonda do. ...	325,944			6,388	5,625	12,013	1,502
		Total of district ...	780,316			15,644	14,340	29,984	1,666
3	Bellary.	Bellary circle ...	858,551	151	13	9,186	8,602	17,788	1,368
4		Hospet do. ...	858,551			8,268	6,520	14,788	1,332
		Total of district ...	858,551			17,454	15,122	32,576	1,303
5	Chingleput.	Chingleput circle ...	1,255,407	408	4	9,106	9,610	18,716	4,679
6		Saidapet do. ...	1,255,407			8,346	8,142	16,488	4,122
7		Ponneri do. ...	1,255,407			8,558	7,774	16,332	4,083
		Total of district ...	1,255,407	408	12	26,010	25,526	51,536	4,295
8	Coimbatore.	North Coimbatore circle.	2,120,374	270	9	8,019	7,507	15,526	1,725
9		South do. do.	2,120,374			8,290	7,814	16,104	1,789
10		East do. do.	2,120,374			9,991	9,809	19,800	1,650
11		Central do. do.	2,120,374		9	8,911	8,677	17,588	1,954
		Total of district ...	2,120,374	270	39	35,211	33,807	69,018	1,770
12	Cuddapah.	Cuddapah circle ...	1,274,835	146	13	9,655	7,586	17,241	1,326
13		Madanapalle do. ...	1,274,835			12,013	11,224	23,237	1,452
14		Siddhavattam do. ...	1,274,835			6,235	5,339	11,574	1,447
		Total of district ...	1,274,835	146	37	27,903	24,149	52,052	1,407
15	Ganjām.	Berhampur circle ...	1,948,995	233	8	6,112	5,907	12,019	1,502
16		Chicacole do. ...	1,948,995			7,635	7,196	14,831	1,648
17		Ganjām hill tracts ...	1,948,995			6,522	6,197	12,719	848
18		Aśaka circle ...	1,948,995		7	4,535	4,233	8,768	1,253
19		Parlakimedi circle ...	1,948,995		8	6,478	5,763	12,241	1,530
20		Purnashothapur circle ...	1,948,995		7	6,134	5,842	11,976	1,711
		Total of district ...	1,948,995	233	54	37,416	35,138	72,554	1,344
21	Gōlāvari.	Cocanada circle ...	1,361,457	274	7	5,881	5,639	11,520	1,646
22		Rajahmundry circle ...	1,361,457			15,412	14,670	30,082	3,342
23		Polavaram do. ...	1,361,457			4,511	4,502	9,013	1,127
24		Peddapur do. ...	1,361,457		10	9,180	8,512	17,692	1,769
		Total of district ...	1,361,457	274	34	34,984	33,328	68,307	2,009
25	Kistna.	Ellore circle ...	1,646,886	243	14	11,632	11,319	22,951	1,639
26		Masulipatam circle ...	1,646,886			11,917	10,826	22,743	1,516
27		Narasapur do. ...	1,646,886			9,698	9,456	19,154	1,596
		Total of district ...	1,646,886	243	41	33,247	31,601	64,848	1,582

DEPARTMENT.

Madras Presidency during the official year 1908-1909.

vaccination.		Re-vaccination.		Percentage of success to total operations excluding unknown.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total operations.		Average number of annual operations successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
secondary vaccination.	Successful.	Unknown.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.		Primary and secondary vaccinations.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
1 and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.							
11	12	13	14	15	16	17	18	19	20	21	22	23
6,569	17,507	95	739	714	1	97.6	96.7	40.1	0.5	0.1	...	...
4,863	10,519	90	1,172	1,106	17	97.0	95.7	35.9	0.8	1.4	...	...
11,432	28,126	185	1,911	1,820	18	97.4	96.1	38.3	0.6	0.9	27,606	35.5
4,548	17,544	52	174	127	23	98.7	84.1	37.6	0.3	13.2	...	...
2,770	13,143	19	1,536	1,514	8	99.3	99.0	37.6	0.1	0.5	...	...
7,318	30,687	71	1,710	1,641	31	98.9	97.7	37.6	0.2	1.8	30,351	35.3
3,994	14,517	818	2,516	1,741	317	94.2	79.1	35.8	5.0	12.5	...	...
3,251	14,036	577	1,200	862	114	93.5	78.7	35.8	3.7	9.4	...	...
3,084	12,581	631	2,270	1,238	250	95.1	61.2	35.8	6.5	11.0	...	...
10,334	41,134	2,326	5,995	3,841	681	94.2	72.3	35.8	5.0	11.3	38,078	30.3
3,515	11,451	1,034	1,281	489	354	85.0	52.7	27.8	7.1	27.6	...	...
4,839	14,288	743	571	327	141	94.0	78.0	27.8	4.7	24.6	...	...
5,575	16,379	1,176	1,226	794	226	90.2	79.4	27.8	6.0	18.4	...	...
5,022	14,910	920	530	301	100	90.7	93.2	27.8	5.3	18.8	...	...
18,951	57,028	3,373	3,608	1,911	821	90.1	68.5	27.8	5.8	22.7	56,392	26.5
6,277	16,136	126	730	585	33	96.1	83.9	39.8	0.7	4.5	...	...
6,953	22,217	12	821	741	5	98.5	90.8	39.8	0.05	0.6	...	...
4,699	10,883	191	359	281	12	95.1	80.9	39.8	1.6	3.3	...	...
17,929	49,236	329	1,910	1,607	50	96.9	86.4	39.8	0.6	2.6	40,320	31.6
6,915	11,399	352	70	58	3	97.9	86.5	35.2	2.9	4.2	...	...
6,699	13,788	314	439	364	40	95.9	91.2	35.2	2.1	9.1	...	...
5,779	11,193	231	894	843	1	96.5	94.4	35.2	1.9	0.1	...	...
5,398	7,962	367	177	147	12	96.5	89.2	35.2	4.3	6.7	...	...
4,199	10,748	287	866	778	36	95.5	93.7	35.2	2.5	4.2	...	...
6,430	11,160	419	200	165	18	98.0	90.6	35.2	3.5	9.0	...	...
35,415	66,250	1,970	2,646	2,355	110	96.7	92.8	35.2	2.8	4.1	66,246	33.9
5,666	9,980	787	179	81	48	89.8	61.8	43.5	6.4	26.8	...	...
16,512	25,422	1,562	261	89	78	89.1	48.6	43.5	5.1	29.8	...	...
3,818	7,745	495	227	135	36	91.2	70.7	43.5	5.4	15.8	...	...
6,133	15,429	871	648	334	148	89.0	66.8	43.5	4.7	22.8	...	...
32,129	58,576	3,695	1,315	639	310	89.4	63.6	43.5	5.3	23.5	51,599	37.8
9,974	20,719	677	520	326	68	91.0	72.1	35.9	2.8	13.0	...	...
10,077	20,456	456	829	684	21	92.5	84.6	35.9	2.0	2.5	...	...
9,220	16,743	716	307	162	31	90.7	58.7	35.9	3.7	10.0	...	...
29,171	57,918	1,849	1,656	1,172	120	91.4	76.3	35.9	2.8	7.2	60,794	36.9

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	
						Males.	Females.	Total.		Primary and	Under 1 year.
1	2	3	4	5	6	7	8	9	10	11	12
28	Guntūr.	Guntūr circle ...	1,446,938	...	10	11,116	9,944	21,060	2,108	19,594	9,688
29		Narasaraopet circle ...			10	9,018	8,650	17,668	1,767	17,635	9,531
30		Bāpatla do. ...			11	10,065	9,711	19,766	1,797	19,833	7,706
		Total of district ...	1,446,938	...	31	30,189	28,305	58,494	1,887	57,062	26,925
31	Kurnool.	Cumbum circle ...	863,806	114	12	7,997	6,406	14,403	1,200	12,902	6,686
32		Kurnool do. ...			13	9,159	8,021	17,180	1,322	16,701	8,592
		Total of district ...			863,806	114	25	17,156	14,427	31,583	1,263
33	Madura.	Dindigul circle ...	2,663,074	307	4	12,111	11,061	23,172	5,793	22,217	11,580
34		Madura do. ...			4	11,299	10,003	21,302	5,325	20,547	9,086
35		Paramagudi do. ...			10	9,605	9,041	18,646	1,865	18,391	6,298
36		Tiruppathur do. ...			15	12,267	11,378	23,545	1,570	23,116	7,285
37		Periyakulam do. ...			5	11,592	10,627	22,219	4,444	21,979	11,524
		Total of district ...	2,663,074	307	38	56,874	52,010	108,884	2,865	106,250	45,773
38	Malabar.	Tellicherry circle ...	2,594,155	451	11	14,383	12,933	27,316	2,483	26,624	1,633
39		Calicut do. ...			10	11,602	10,827	22,429	2,243	21,795	1,387
40		Palghat do. ...			12	21,006	19,629	40,635	3,386	38,485	4,675
41		Malapnram do. ...			12	19,315	17,382	36,897	3,058	35,668	1,944
		Total of district ...	2,594,155	451	45	66,306	60,771	127,077	2,823	122,572	9,639
42	Nellore.	Central circle (Kāvali). ...	1,240,775	166	8	7,970	7,561	15,531	1,941	15,262	5,595
43		Southern do. (Gudur) ...			8	7,713	6,938	14,651	1,831	14,392	5,971
44		Northern do. (Kanigiri). ...			8	7,518	7,159	14,677	1,834	14,717	4,978
		Total of district ...	1,240,775	166	24	23,201	21,658	44,859	1,869	44,371	16,544
45	Nilgiris.	Nilgiri circle ...	84,316	90	4	2,447	2,034	4,461	1,120	4,243	1,132
		Total of district ...	84,316	90	4	2,447	2,034	4,461	1,120	4,243	1,162
46	North Arcot.	Chittoor circle ...	2,117,288	288	9	7,894	6,718	14,412	1,601	13,317	6,441
47		Vellore do. ...			3	7,552	7,071	14,623	4,874	12,972	7,511
48		Karvetnagar do. ...			9	7,548	6,935	14,483	1,609	13,670	5,662
49		Ranipet do. ...			3	9,431	8,568	17,999	6,000	16,945	8,687
50		Polar do. ...			3	7,925	7,853	15,778	5,256	15,532	5,884
		Total of district ...	2,117,288	288	27	40,150	37,145	77,295	2,863	72,436	34,135
51	Salem.	Tirupattūr circle ...	2,103,659	280	7	7,373	7,271	14,644	2,092	12,280	7,185
52		Salem do. ...			9	11,002	10,273	21,275	2,384	20,668	9,463
53		Nāmakkal do. ...			13	16,857	15,765	32,622	2,509	32,134	13,803
54		Hosūr do. ...			7	7,769	7,540	15,309	2,187	15,010	8,692
		Total of district ...	2,103,659	280	36	48,001	40,849	88,850	2,329	80,092	39,143
55	South Arcot.	Cuddalore circle ...	2,260,700	435	4	9,864	10,333	20,197	5,049	19,714	8,288
56		Vriddhachalam circle ...			6	7,524	7,177	14,701	2,450	14,618	6,419
57		Tirukoyilūr circle ...			8	9,037	8,798	17,835	2,229	17,908	7,121
58		Tindivanam do. ...			8	8,462	7,958	16,420	2,052	16,378	6,223
59		Villupuram do. ...			4	8,269	7,828	16,097	4,024	15,947	7,179
		Total of district ...	2,260,700	435	30	43,156	42,094	85,250	2,842	84,565	35,225

DEPARTMENT.

Madras Presidency during the official year 1908-1909—continued.

vaccination.			Re-vaccination.			Percentage of successful to total operations* excluding unknown.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total operations.		Average annual number of operations successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.														
1 and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.		Primary and secondary vaccinations.	Re-vaccination.	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
7,786	18,333	325	1,953	1,795	63	97.7	94.9	39.2	1.7	3.2	...	...	...	...
5,517	16,450	88	957	721	56	93.7	80.0		0.5	5.8				
9,255	18,514	321	522	448	25	94.8	90.1		1.6	4.7				
22,558	53,797	734	3,432	2,964	144	95.5	90.1	39.2	1.3	4.2	51,575	35.6	278	0.2
4,976	12,415	61	1,597	1,510	22	96.6	95.8	35.5	0.4	1.3	...	...	...	...
6,887	16,060	194	694	645	19	97.2	95.5		1.2	2.7				
11,663	28,475	255	2,291	2,155	41	97.0	95.7		0.9	1.7	29,973	34.6	305	0.3
5,631	18,717	1,584	1,511	657	158	90.7	48.5	36.6	7.1	10.4	...	...	...	...
5,911	16,268	2,869	780	341	156	92.0	54.6		13.9	20.0				
10,172	18,014	159	258	211	27	98.8	91.3		0.8	10.4				
12,728	22,720	199	473	406	36	99.1	92.9		0.8	7.6				
7,362	19,829	778	415	294	55	93.5	81.6		3.5	13.2				
41,804	95,548	5,589	3,437	1,909	432	94.9	63.5	36.6	5.2	12.5	91,366	34.3	1,850	0.7
16,348	26,034	208	693	467	18	98.5	69.1	46.8	0.7	2.5	...	...	...	...
12,713	21,168	205	637	408	35	98.0	67.7		0.9	5.4				
9,209	37,361	531	2,185	1,376	121	98.4	66.6		1.3	5.5				
17,558	34,201	496	1,085	555	76	97.2	55.0		1.3	7.0				
65,825	118,764	1,440	4,600	2,806	250	98.0	64.5	46.8	1.2	5.4	97,403	37.5	852	0.3
6,783	13,585	607	570	348	54	92.7	67.0	32.8	3.9	9.5	...	...	...	...
5,750	13,214	535	613	388	129	95.3	80.1		3.7	21.0				
6,908	13,105	382	336	165	84	91.4	65.4		2.6	25.0				
19,441	39,904	1,524	1,519	899	267	93.1	71.8		3.4	17.5	37,567	30.2	790	0.6
1,927	4,215	2	238	162	...	99.4	68.0	51.9	0.05	...	...	...	...	...
1,927	4,215	2	238	162	...	99.4	68.0		0.05	...	3,661	48.4	51	0.6
5,606	12,638	207	1,256	765	226	96.8	74.2	33.5	1.5	17.9	...	...	...	...
3,741	11,836	398	1,810	1,182	182	94.1	72.6		3.0	10.0				
6,814	13,397	43	984	858	21	98.3	89.1		0.3	2.1				
5,893	15,465	576	1,286	769	150	94.5	67.6		3.3	11.6				
7,393	13,880	840	323	164	49	94.5	59.8		5.4	15.1				
29,447	67,266	2,064	5,659	3,738	628	95.6	74.3	33.5	2.8	11.0	55,015	25.9	3,149	1.5
3,587	11,847	146	2,610	2,179	152	97.6	88.6	37.1	1.1	5.8	...	...	...	...
7,807	18,333	869	1,322	912	204	92.5	81.5		4.2	15.4				
12,763	29,048	713	1,307	1,059	153	92.4	91.7		2.2	11.7				
5,195	14,307	156	490	375	71	96.3	89.4		1.0	14.5				
29,342	73,535	1,884	5,729	4,525	580	94.0	87.8	37.1	2.3	10.1	63,713	30.2	798	0.4
3,312	11,929	6,597	872	375	377	90.9	75.7	32.5	33.4	43.2	...	...	...	...
7,180	14,189	184	150	110	15	98.4	81.4		1.2	10.0				
8,288	16,878	318	109	76	23	95.9	88.3		1.7	21.1				
8,647	15,558	312	162	125	18	96.8	86.8		...	...				
6,391	14,119	1,356	169	57	83	96.8	66.2		...	...				
33,796	72,683	8,767	1,462	743	516	95.9	78.5	...	10.3	35.2	63,260	27.9	2,674	1.2

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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	
						Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Total number of operations
1	2	3	4	5	6	7			8	9
						Males.	Females.	Total.		Under 1 year.
60	South Canara.	Northern circle	1,086,997	271	8	7,648	7,409	15,057	1,882	14,970
61		Central do.			8	7,715	7,448	15,163	1,895	15,168
62		Southern do.			8	7,149	6,852	14,001	1,750	13,769
		Total of district			24	22,512	21,709	44,221	1,843	43,897
63	Tanjore.	Tanjore circle	2,025,571	550	7	8,435	7,969	16,404	2,343	15,448
64		Negapatam do.			8	10,135	10,080	20,225	2,528	18,985
65		Pattukkottai do.			8	9,342	8,445	17,787	2,223	17,195
66		Kumbakonam do.			9	10,574	9,943	20,517	2,280	18,722
		Total of district			32	38,486	36,447	74,933	2,342	70,750
67	Tinnevely.	Srivilliputtur circle	1,925,163	358	8	9,390	8,877	18,267	2,283	18,219
68		Tenkasi do.			8	10,039	9,449	19,488	2,436	19,742
69		Srivaikuntam do.			8	10,324	9,547	19,871	2,484	18,878
70		Ottapidaram do.			7	8,246	7,971	16,217	2,317	16,318
		Total of district			31	37,999	35,844	73,843	2,382	72,957
71	Trichinopoly.	Trichinopoly circle	812,045	371	12	13,650	13,082	26,732	2,228	26,890
72		Ariyalur do.	504,965	354	10	9,522	9,178	18,683	1,870	18,489
		Total of district	1,317,010	364	22	23,172	22,258	45,430	2,065	45,379
73	Vizagapatam.	Gunupur circle	2,374,340	165	9	4,449	3,558	8,007	890	7,309
74		Vizagapatam circle			12	17,836	18,616	36,452	3,038	17,743
75		Government vaccinators (Gudem hills)			1	157	167	324	324	23
76		Vizianagaram circle			16	26,007	28,250	54,257	3,391	24,347
		Párvatipuram do.			12	20,408	19,350	39,758	3,313	25,328
		Total of district	2,374,340	165	50	68,857	69,941	138,798	2,776	75,051
77	Koraput.	Jeypore circle	455,078	...	9	8,504	7,820	16,324	1,814	15,342
78		Koraput do.	...	...	7	6,372	5,714	12,086	1,727	11,564
		Total of district	455,078	...	16	14,876	13,534	28,410	1,776	26,906
		Total of circles and districts	35,805,691	253	696	756,251	712,032	1,468,283	2,113	1,365,276
1	Military Cantonments.	Bangalore	89,599	6,929	2	1,883	838	2,671	1,335	807
2		Secunderabad	91,114	4,795	4	3,999	2,251	6,250	1,562	3,992
		Total of cantonments	180,713	5,660	6	5,832	3,089	8,921	1,487	4,799
		* Medical Subordinates.	...	...	...	7,702	123	7,825	...	508

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

DEPARTMENT.

Madras Presidency during the official year 1908-1909--continued.

vaccination.			Re-vaccination.			Percentage of success to total operations excluding unknown.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total operations.		Average annual number of operations successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
secondary vaccinations.														
Successful.														
1 and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.		Primary and secondary vaccinations.	Re-vaccination.	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
8,735	14,590	166	142	91	21	98.5	75.2	39.2	1.1	14.7	...	...	...	...
8,906	14,586	210	98	84	1	97.4	86.5		1.4	1.0	...	...	...	...
6,769	13,108	234	353	206	42	96.8	66.2		1.6	11.8	...	...	...	...
24,410	42,264	610	593	381	64	97.6	72.0	39.2	1.4	10.7	33,918	31.2	320	0.3
7,617	15,230	183	685	590	53	97.2	93.3	35.7	1.1	7.7	...	...	...	...
8,903	18,197	223	1,313	1,074	99	96.9	88.4		1.1	7.5	...	...	...	...
9,148	16,883	109	639	554	51	98.8	94.2		0.6	7.9	...	...	...	...
10,196	18,145	229	1,008	1,769	88	98.1	97.2	35.7	1.2	4.6	...	...	...	...
35,864	68,455	744	4,545	3,987	291	97.7	93.7	35.7	1.0	6.4	68,599	33.8	1,061	0.5
4,680	17,380	141	474	436	11	96.1	94.1	37.3	0.7	2.3	...	...	...	...
5,744	18,413	509	246	196	21	95.7	87.1		2.5	8.5	...	...	...	...
5,535	17,983	142	1,443	1,424	4	97.0	98.9		0.7	0.2	...	...	...	...
6,758	15,764	82	274	269	1	97.0	98.5	37.3	0.5	0.3	...	...	...	...
22,717	69,540	874	2,437	2,325	37	96.4	96.8	37.3	1.2	1.5	68,105	35.3	427	0.2
9,068	25,186	639	506	336	78	95.9	78.5	31.4	2.3	15.4	...	...	...	...
9,164	16,594	1,117	722	519	108	95.5	84.5		6.0	14.9	...	...	...	...
18,282	41,780	1,756	1,228	855	186	95.7	82.0		3.9	15.1	43,520	33.0	195	0.1
4,570	6,944	160	712	600	99	97.1	97.8	51.4	2.1	13.9	...	...	...	...
7,781	15,786	702	18,910	11,126	2,227	92.6	66.6		4.0	11.8	...	...	...	...
228	310	5	...	...	...	97.1	92.7		1.5	...	...	...	...	...
10,120	22,881	511	30,179	27,070	986	95.9	92.7	51.4	2.0	3.2	...	...	...	...
10,895	24,127	232	14,661	13,233	281	96.1	92.0		0.9	1.9	...	...	...	...
83,594	70,048	1,610	64,462	52,029	3,593	95.3	85.4	51.4	2.1	5.5	80,694	33.9	148	0.05
9,123	15,019	21	1,006	891	41	98.0	92.3	60.4	0.1	4.0	...	...	...	...
5,606	11,048	20	628	513	5	95.7	82.3		0.1	0.7	...	...	...	...
14,729	26,067	41	1,634	1,404	46	97.0	88.4		0.1	2.8	23,865	52.4	...	...
568,031	1,261,296	42,192	1,24,017	95,868	9,216	95.3	83.5	37.9	3.1	7.4	1,159,005	32.3	17,636	0.5
205	752	...	1,864	1,560	...	93.1	83.6	25.8	...	...	966	10.8	57	0.6
743	3,917	13	2,264	832	248	98.6	41.3	52.1	0.3	10.9	4,923	54.0	2	0.02
948	4,669	13	4,128	2,392	248	97.5	61.6	39.0	0.2	6.0	5,889	32.6	59	0.3
1	383	45	7,355	5,460	278	82.7	77.1	...	8.8	3.7	...	...	...	...

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	
								Primary and	
								Total number of operation.	Under 1 year.
1	2	3	4	5	6	7	8	9	10
						Males. Females. Total.			
1		Ádóni ...	3,041	15,208	1	792	735	1,527	1,420
2		Anantapur ...	7,938	7,938	1	317	120	437	250
3		Anakápalie ...	18,539	1,546	1	564	685	1,249	881
4		Bellary ...	58,247	2,240	3	1,569	1,405	2,974	2,560
5		Berhampur ...	25,729	6,432	1	849	599	1,448	918
6		Bezwada ...	24,224	4,609	1	741	580	1,321	1,136
7		Bimlipatam ...	10,212	2,446	1	280	229	519	323
8		Calicut ...	76,981	5,921	4	3,780	2,108	5,888	4,724
9		Cannanore ...	27,811	4,795	1	1,131	595	1,726	1,413
10		Chicacole ...	18,196	6,065	1	543	512	1,055	541
11		Chidambaram ...	19,909	9,954	1	469	278	747	660
12		Chingleput ...	10,551	8,443	1	517	234	751	503
13		Cochin ...	19,274	22,027	1	1,193	534	1,727	1,020
14		Cocanada ...	48,096	6,012	2	3,936	1,092	5,028	2,514
15		Coimbatore ...	53,080	17,693	2	944	574	1,518	1,141
16		Conjeeveram ...	46,164	11,535	2	918	863	1,781	890
17		Coonoor ...	8,525	947	1	242	160	402	315
18		Cuddalore ...	52,216	3,926	2	1,858	1,280	3,138	1,569
19		Cuddapah ...	16,432	842	1	719	370	1,089	506
20		Dindigul ...	25,182	8,394	1	763	461	1,224	938
21		Ellore ...	33,521	11,174	2	1,319	1,025	2,344	1,172
22		Erode ...	15,529	15,529	1	513	312	825	673
23		Gudiyáttam ...	21,335	2,665	1	490	361	851	732
24		Guntúr ...	30,833	1,719	1	743	585	1,328	1,030
25		Karúr ...	12,769	12,769	1	416	295	711	608
26		Kodaikánal ...	1,912	161	...	61	51	112	104
27		Kumbakónam ...	59,673	9,945	3	1,148	893	2,041	1,848
28		Kurnool ...	25,376	5,147	1	867	500	1,367	966
29		Madras ...	509,346	18,864	23	19,347	13,427	32,774	23,807
30		Madura ...	105,984	17,664	4	4,439	3,894	8,333	2,083
31		Mannárgudi ...	20,449	3,408	1	472	386	858	801
32		Mangalore ...	44,108	9,341	2	1,408	1,163	2,571	1,285
33		Masulipatam ...	39,507	1,796	1	812	580	1,392	1,158
34		Máyavaram ...	24,276	8,092	1	938	334	1,272	775
35		Nandyal ...	15,137	3,027	2	481	197	678	339
36		Negapatam ...	57,190	8,798	3	2,675	1,345	4,020	1,340
37		Nellore ...	32,040	1,996	1	873	389	1,262	908
38		Ongole ...	12,864	3,216	1	396	219	615	473
39		Ootacamund ...	18,596	1,690	2	791	519	1,310	655
40		Palamcottah ...	39,545	9,886	2	1,078	719	1,797	898
41		Palghat ...	44,177	3,681	2	1,094	1,086	2,180	1,090
42		Parlákimedi ...	17,336	52,008	1	670	359	1,029	954
43		Periyakulam ...	17,960	23,927	1	486	415	901	768
44		Palni ...	17,168	9,810	1	720	307	1,027	595
45		Rajahmundry ...	36,408	3,034	2	2,436	893	3,329	1,664
46		Salem ...	70,621	6,900	2	1,723	1,363	3,086	1,543
47		Srirangam ...	23,039	3,291	1	681	626	1,307	1,224
48		Srivilliputtúr ...	26,382	21,105	1	641	507	1,148	1,091
49		Tanjore ...	57,870	7,716	2	1,164	885	2,049	1,024
50		Tellicherry ...	27,883	11,153	2	830	572	1,402	701

* Vaccination was performed by the medical officer in charge.

DEPARTMENT.

Madras Presidency during the official year 1908-1909—continued.

vaccination.		Re-vaccination.				Percentage of success to total operations excluding unknown.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total operations.		Average annual number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
secondary vaccinations.		Unknown.	Total number of operations.	Successful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.		Primary and secondary vaccinations.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
Successful.	Unknown.													
1 and under 6 years.	Total of all ages.	13	14	15	16	17	18	19	20	21	22	23	24	25
98	1,248	107	177	154	6	95.0	90.0	46.1	7.5	3.3	1,328	43.6	36	1.1
23	218	16	187	62	54	91.8	46.6	35.3	6.4	28.9	307	38.6	5	0.6
90	845	...	387	199	27	95.9	55.3	56.3	...	6.9	776	41.8	...	...
353	2,451	...	489	350	...	95.7	71.5	48.1	...	...	1,904	32.6	81	1.4
128	899	...	540	538	...	97.9	99.6	55.8	...	...	1,159	45.0	1	0.04
148	1,123	4	189	122	26	99.2	74.8	51.4	0.3	13.7	1,203	49.6	1	0.04
44	319	...	197	157	3	98.7	80.9	46.6	...	1.5	429	42.0	1	0.1
882	4,560	4	1,147	1,072	1	96.6	93.5	73.2	0.08	0.08	8,096	105.1	5	0.06
394	1,272	63	561	320	154	94.2	78.6	57.2	4.4	27.4	3,179	114.3	7	0.2
73	526	...	531	498	...	97.2	93.7	56.3	...	...	953	52.3	2	0.1
63	602	29	105	72	25	95.4	90.0	33.9	4.3	23.8	684	34.3	1	0.05
32	495	3	251	119	13	99.0	50.0	58.2	0.5	5.1	701	66.4	4	0.4
282	996	7	714	344	104	98.3	56.4	69.5	0.6	14.5	1,154	59.8	30	1.5
373	1,773	134	3,579	2,183	671	87.8	75.0	82.8	6.2	18.2	3,247	67.5	4	0.08
100	820	135	417	74	82	81.5	22.1	16.8	11.8	19.6	1,658	31.2	137	2.6
284	1,573	5	191	161	26	98.6	97.6	37.5	0.3	13.6	1,610	34.8	35	0.8
55	303	2	90	69	10	98.8	86.2	43.7	0.6	11.1	578	67.8	17	1.9
575	2,222	423	491	367	52	99.9	83.5	49.6	15.9	10.5	2,477	47.4	1	0.02
108	485	1	593	484	18	96.0	84.2	58.9	0.1	3.0	694	42.2	1	0.06
70	909	...	300	248	18	96.9	87.9	45.1	...	6.0	1,057	41.9	46	1.8
718	2,170	...	336	232	24	97.1	74.3	71.7	...	7.1	3,105	92.6	21	0.6
103	632	...	177	106	27	93.9	70.6	47.5	...	15.2	567	26.5	10	0.6
63	696	12	124	115	1	96.6	93.4	38.0	1.6	0.8	788	36.9	30	1.4
82	991	19	815	181	48	98.0	67.8	38.0	1.8	15.2	1,349	43.7	1	0.03
46	588	1	122	75	21	96.8	74.2	51.9	0.1	17.2	538	41.7	9	0.7
12	102	...	9	8	1	98.0	100.0	57.5	...	11.1	121	63.2	1	0.5
378	1,762	...	226	167	3	95.3	74.9	32.3	...	1.3	2,014	33.7	43	0.7
189	957	1	401	224	97	99.1	73.6	46.5	0.1	24.1	1,083	42.2	10	0.4
4,653	23,416	332	8,967	5,359	945	99.7	66.8	56.5	1.4	10.5	32,179	63.1	194	0.8
1,473	7,808	70	280	258	2	97.8	92.8	76.1	0.8	0.7	6,762	63.9	227	2.1
134	752	...	64	56	3	93.8	91.8	39.5	...	4.6	825	40.3	20	0.9
1,131	2,333	...	228	226	...	99.5	99.1	58.0	...	...	2,333	52.8	10	0.2
129	1,121	...	252	212	4	96.8	85.5	33.7	...	1.5	1,263	31.9	...	...
99	762	3	509	508	1	98.7	100.0	52.3	0.3	0.1	986	40.6	16	0.6
42	591	...	85	85	...	99.6	100.0	44.6	...	...	772	51.0	1	0.06
1,433	3,336	18	509	294	117	95.4	75.0	63.5	0.5	22.9	4,221	73.8	52	0.9
58	842	14	405	155	149	94.3	60.5	31.1	1.5	36.7	1,058	33.0	28	0.9
25	418	10	177	150	3	90.3	86.2	44.2	2.1	1.7	535	41.5	1	0.08
103	844	2	455	412	6	98.5	91.7	67.5	0.2	1.3	1,265	68.0	1	0.05
228	1,351	10	386	272	80	95.0	88.8	41.8	0.7	20.7	1,673	42.3	27	0.7
404	1,743	...	400	359	...	96.0	89.7	47.5	...	...	2,121	48.0	12	0.3
217	937	...	126	121	...	98.2	96.0	61.0	...	...	969	55.8	...	...
95	755	2	134	95	34	98.5	95.0	47.3	0.2	25.4	818	45.5	1	0.05
57	581	...	451	396	18	97.6	91.4	56.9	...	3.9	795	44.8	1	0.05
374	1,627	...	1,699	1,411	41	98.6	85.5	83.4	...	2.4	2,457	67.4	8	0.2
71	2,542	...	409	151	...	92.2	36.9	38.1	...	...	2,622	37.1	67	0.3
335	1,181	30	85	69	7	98.9	88.4	64.2	2.4	8.2	1,287	53.6	8	0.3
65	1,081	...	61	52	1	99.0	86.6	42.9	...	1.6	1,122	42.5	2	0.07
225	1,800	...	222	184	...	98.2	82.9	34.2	...	...	1,974	34.1	73	1.2
90	886	12	501	199	96	99.1	49.1	38.9	1.3	19.1	1,245	44.6	5	0.2

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	
								Primary and	
1	2	3	4	5	6	7	8	9	10
						Males. Females. Total.		Total number of operations.	Under 1 year.
51	Municipalities—cont.	Tinnevely ...	40,469	5,058	2	941 745 1,686	843	1,545	1,224
52		Trichinopoly ...	104,721	8,727	4	3,782 2,783 6,565	1,641	5,760	2,884
53		Tirupattūr ...	18,689	7,475	1	495 275 770	770	604	522
54		Tirupati ...	15,485	4,266	1	367 213 580	580	448	368
55		Tiruvannāmalai ...	17,069	1,552	1	525 314 839	839	696	550
56		Tuticorin ...	28,048	9,349	1	1,002 516 1,518	1,518	1,401	911
57		Vāniyambādi ...	12,005	4,802	1	547 405 952	952	873	678
58		Vellore ...	43,537	6,966	2	1,113 803 1,916	958	1,567	1,191
59		Vizagapatam ...	40,892	7,789	3	1,337 1,025 2,362	787	1,355	981
60		Vizianagram ...	34,583	8,646	1	1,765 2,245 4,010	4,010	1,279	959
61		Walajapet ...	10,067	10,067	1	337 188 525	525	442	337
		Total of Municipalities.	2,422,127	5,335	115	84,038 57,133 141,171	1,227	108,143	78,215
		Grand Total ...	38,227,818	271	816	853,823 772,377 1,626,200	1,983	1,478,776	626,668

Notes.—(1) Difference between number of operations and number of persons vaccinated, equals 23,150 which represents secondary operations.
 (2) 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 1908–1909—continued.

vaccination.			Re-vaccination.			Percentage of success to total operations excluding unknown.		Persons successfully vaccinated per 1,000 of population.		Percentage of unknown cases to total operations.		Average annual number of operations successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
secondary vaccinations.															
Successful.			Total number of operations.	Successful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	Primary and secondary vaccinations.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.		
1 and under 6 years.	Total of all ages.	Unknown.													
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
238	1,486	17	176	143	19	97.2	91.0	40.3	1.1	10.7	1,502	37.1	13	0.3	
2,606	5,584	35	805	644	102	97.5	91.6	59.4	0.6	12.6	7,608	72.6	120	1.1	
13	600	...	167	165	...	99.3	98.8	46.4	...	...	593	31.7	10	0.5	
60	438	3	142	82	45	99.5	84.5	83.6	0.6	31.6	529	34.1	1	0.06	
67	339	1	180	136	36	91.9	94.4	45.4	0.1	20.0	698	40.8	10	0.6	
411	1,379	...	122	108	...	98.4	88.5	53.0	...	...	1,302	46.4	7	0.2	
127	835	...	86	35	14	95.6	48.6	72.4	...	18.2	793	66.0	4	0.3	
306	1,533	1	354	228	91	97.7	86.6	40.4	0.06	25.7	1,424	32.7	108	2.4	
324	1,327	3	1,025	568	108	98.1	61.9	46.3	0.2	10.5	1,402	34.2	1	0.02	
201	1,236	...	2,742	2,463	34	96.6	90.9	106.9	...	1.2	1,759	50.8	1	0.02	
27	431	8	83	77	3	99.3	96.2	50.4	1.8	3.6	462	45.8	1	0.09	
21,585	103,762	1,537	35,124	24,374	3,471	97.3	77.0	52.9	1.4	9.8	130,058	53.6	1,570	0.6	
590,565	1,370,110	43,787	170,624	128,094	13,213	95.5	81.4	39.0	2.3	7.7	1,294,952	33.7	19,265	0.5	

vaccinated, equals 23,150 which represents secondary operations.
 which are exhibited separately in statement No. III.
 statement No. III, unknown cases have not been taken into account.

subordinates is excluded.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1908-1909.

Expenditure.

Expenditure.																	
Number.	Districts.	Circles.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy Inspectors.				Vaccinators.				Clerks.		Peons, etc.		Total pay of establishment.	
				Pay.	First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.	Pay.	Number.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Anantapur.	Anantapur circle	...	...	1	...	...	RS. A. P.	2	8	1	1,464 14 11	...	...	1	100 0 0	2,404 2 11
		Penukonda do.	...	...	...	727 3 4	1	6	1	1,142 14 3	...	...	1	87 0 2	1,957 1 9		
2	Bellary.	Total of district	...	...	1	1	...	1,566 7 4	3	14	2	2,607 13 2	...	...	2	187 0 2	4,361 4 8
3		Bellary circle	...	...	...	1	...	720 0 0	5	6	2	2,647 3 2	...	...	1	89 10 2	3,456 13 4
4	Bellary.	Hospet do.	...	...	...	...	837 0 0	4	4	6	3	2,472 13 4	...	...	1	97 11 10	3,407 9 2
5		Total of district	...	...	...	1	1	...	1,557 0 0	9	12	5	5,120 0 6	...	...	2	187 6 0
6	Chingleput.	Chingleput circle	...	...	...	1	...	720 0 0	...	4	...	937 8 0	...	...	1	92 10 2	1,750 2 2
7		Saidapet do.	...	...	...	...	...	480 0 0	...	4	...	...	926 6 5	...	...	1	84 10 6
8	Chingleput.	Ponnéri do.	...	...	...	...	...	489 5 4	...	4	...	860 10 10	...	...	1	91 0 10	1,441 1 0
9		Total of district	...	...	...	...	1	2	1,089 5 4	...	12	...	2,724 9 3	...	...	3	238 5 6
10	Coimbatore.	North Coimbatore circle	...	...	1	...	...	871 9 10	3	5	1	1,432 5 7	...	...	1	85 15 0	2,389 14 5
11		South do.	...	...	...	...	...	480 0 0	3	4	2	1,452 14 10	...	...	1	84 0 0	2,016 14 10
12	Coimbatore.	East do.	...	...	1	...	...	840 0 0	2	8	2	1,738 12 10	...	...	1	94 0 0	2,732 12 10
13		Central do.	...	...	...	...	...	480 0 0	2	6	1	1,390 6 3	...	...	1	98 0 0	1,968 6 3
14	Cuddapah.	Total of district	...	...	2	...	...	2,071 9 10	10	23	6	6,074 7 6	...	...	4	359 15 0	9,106 0 4
15		Cuddapah circle	...	...	...	1	...	...	489 5 4	4	8	1	2,121 7 0	...	...	1	101 10 2
16	Cuddapah.	Madanapalle do.	...	...	...	...	...	840 0 0	6	9	1	2,840 5 10	...	...	1	103 11 11	3,783 13 11
17		Siddhavattam circle	...	...	...	...	...	436 13 8	...	4	...	...	1,268 5 10	...	...	1	77 0 0
18	Cuddapah.	Total of district	...	...	1	...	...	1,766 3 0	14	21	2	6,229 14 10	...	...	3	282 6 1	8,278 7 11

APPENDIX.

VACCINATION RETURNS.

15	Berhampur circle	...	...	...	1	...	...	780 0 0	3	5	1	1,286 13 5	...	...	1	107 13 7	2,064 11 0
16	Chicacole do.	...	...	...	1	...	...	881 10 0	2	6	1	1,450 7 5	...	...	1	107 2 2	2,439 3 7
17	Ganjām Hill tracts	...	...	...	1	...	...	840 0 0	3	6	6	1,334 11 10	...	...	1	57 12 6	2,632 8 4
18	Aska circle	...	...	...	...	...	...	470 15 6	2	4	2	1,059 2 2	...	...	1	107 2 2	1,637 3 10
19	Parlakimedi circle	...	...	...	...	...	...	720 0 0	1	6	1	1,362 5 0	...	...	1	99 14 0	2,182 3 0
20	Parushotapur do.	...	...	...	...	...	...	480 0 0	3	5	...	1,038 7 7	...	...	1	103 2 2	1,621 8 9
21	Total of district	...	...	...	2	1	3	4,112 9 6	14	32	11	7,811 15 5	...	...	6	582 14 7	12,507 7 6
22	Coanada circle	...	...	...	...	...	...	541 15 0	4	3	...	1,169 11 2	...	...	1	100 10 2	1,812 4 4
23	Rejahundry do.	...	...	...	1	...	...	840 0 0	6	3	...	1,829 7 0	...	...	1	107 10 2	2,577 1 2
24	Polavaram do.	...	...	...	...	...	...	715 6 7	3	5	...	1,488 10 5	...	...	1	116 13 9	2,318 14 9
25	Peddapur do.	...	...	...	...	...	...	489 5 4	2	7	1	1,400 10 3	...	...	1	99 0 0	1,988 15 7
26	Total of district	...	...	...	1	...	...	2,686 10 11	15	18	1	5,686 6 10	...	...	4	424 2 1	8,697 3 10
27	Ellore circle	...	...	...	...	...	...	489 5 4	3	2	10	1,951 15 3	...	...	1	100 2 2	2,541 6 9
28	Masulipatam circle	...	...	...	...	...	...	489 5 4	5	10	...	1,938 11 8	...	...	1	85 14 11	2,513 15 11
29	Narasapur do.	...	...	...	...	...	...	489 5 4	1	6	6	2,268 2 3	...	...	1	101 10 2	2,859 1 9
30	Total of district	...	...	...	...	...	...	1,468 0 0	9	18	16	6,158 13 2	...	...	3	287 11 3	7,914 8 5
31	Guntūr circle	...	...	...	1	...	...	818 11 1	3	4	3	1,216 4 8	...	...	1	84 0 0	2,146 15 9
32	Narasaraopet circle	...	...	...	...	...	...	490 0 9	3	3	4	1,044 2 4	...	...	1	85 10 2	1,619 13 3
33	Bapatla circle	...	...	...	...	...	...	490 0 9	2	4	5	1,050 6 6	...	...	1	85 10 2	1,626 1 5
34	Total of district	...	...	...	1	2	...	1,796 12 7	8	11	12	3,340 13 6	...	...	3	255 4 4	5,392 14 5
35	Cumbum circle	...	...	...	...	...	...	489 5 4	4	4	4	1,968 9 8	...	...	1	102 10 1	2,580 9 1
36	Kurnool do.	...	...	...	...	...	...	606 12 8	4	4	5	2,087 3 6	...	...	1	88 10 1	2,792 10 3
37	Total of district	...	...	...	...	...	...	1,096 2 0	8	8	9	4,065 13 2	...	...	2	191 4 2	5,358 3 4
38	Dindigul circle	...	...	...	1	...	...	761 13 7	1	3	...	897 6 7	...	...	1	98 8 1	1,757 12 3
39	Madura do.	...	...	...	...	...	...	840 0 0	...	4	...	908 13 5	...	...	1	98 8 1	1,847 5 6
40	Paramagudi do.	...	...	...	...	...	...	645 0 10	4	7	2	1,550 7 3	...	...	1	97 8 1	2,293 0 2
41	Tirupattur do.	...	...	...	...	...	...	480 11 5	4	10	2	1,827 5 6	...	...	1	94 0 0	2,402 0 11
42	Periyakulam do.	...	...	...	1	...	...	916 9 3	1	4	...	1,131 14 10	...	...	1	98 8 1	2,147 0 2
43	Total of district	...	...	...	2	3	...	3,644 3 1	10	28	4	6,315 15 7	...	...	5	487 0 4	10,447 3 0
44	Tellicherry circle	...	...	...	1	...	...	868 7 8	3	8	...	1,919 2 8	...	...	1	103 10 2	2,891 4 6
45	Calicut do.	...	...	...	...	...	...	487 5 4	2	9	...	1,246 0 10	...	...	1	103 10 2	1,837 0 4
46	Palghat do.	...	...	...	...	...	...	720 0 0	6	4	2	2,172 0 4	...	...	1	102 0 0	2,894 0 4
47	Malaparam do.	...	...	...	...	...	...	494 10 6	1	10	...	1,505 10 0	...	...	1	100 0 3	2,100 4 9
48	Total of district	...	...	...	1	1	2	2,570 7 6	12	31	2	6,842 13 10	...	...	4	409 4 7	9,822 9 11

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1908-1909—continued.

Number—cont.	Districts—cont.	Circles—cont.	Expenditure—cont.			Paid from				Total.*	Number of all successful vaccinations and re-	Average cost of each successful case.
			Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Zamindaris.		
19			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	28	29
1	Anantapur.	Anantapur circle ...	347 8 11	902 11 6	3,654 7 4	...	1,288 11 3	2,365 12 1	...	...	18,221	0 3 2
		Penukonda do. ...	296 13 9	1,325 5 5	2,969 4 11	...	1,131 3 10	1,838 1 1	...	...	11,725	0 4 0
2	Bellary.	Total of district ...	634 6 8	1,628 0 11	6,623 12 3	...	2,419 15 1	4,203 13 2	...	...	29,946	0 3 6
		Bellary circle ...	429 6 0	662 6 5	4,548 9 9	...	1,372 1 11	3,276 7 10	...	...	17,671	0 4 1
3	Chingleput.	Hospet do. ...	376 8 3	576 7 8	4,360 9 1	...	1,413 7 2	2,947 1 11	...	...	14,657	0 4 9
		Total of district ...	805 14 3	1,238 14 1	8,909 3 10	...	2,685 9 1	6,223 9 9	...	...	32,328	0 4 4
4	Chingleput.	Chingleput circle ...	915 4 7	619 0 3	3,284 7 0	...	1,345 5 11	1,939 1 1	...	...	16,258	0 3 2
		Saidapet do. ...	786 13 5	542 0 11	2,829 15 3	...	911 2 9	1,918 12 6	...	...	14,898	0 3 0
5	Chingleput.	Ponnéri do. ...	887 11 2	655 2 2	2,983 14 4	...	1,068 12 7	1,915 1 9	...	...	13,819	0 3 5
		Total of district ...	2,599 13 2	1,816 3 4	9,098 4 7	...	3,325 5 3	5,772 15 4	...	...	44,975	0 3 2
6	Cuddapah.	North Coimbatore circle ...	385 13 11	716 15 6	3,492 11 10	...	1,482 12 10	2,009 15 0	...	...	11,940	0 4 8
		South do. ...	298 11 2	715 12 11	3,031 6 11	...	926 5 6	2,105 1 5	...	...	14,615	0 3 3
7	Cuddapah.	East do. ...	583 0 9	1,040 2 10	4,556 0 5	...	1,628 15 11	2,732 0 6	...	...	17,173	0 4 0
		Central do. ...	250 3 9	812 13 2	3,029 7 2	...	875 2 10	2,154 4 4	...	...	15,211	0 3 2
8	Cuddapah.	Total of district ...	1,517 13 7	3,285 12 5	13,909 10 4	...	4,908 5 1	9,001 5 3	...	...	58,989	0 3 9
		Cuddapah circle ...	922 9 11	557 12 6	4,192 12 11	...	951 13 3	3,240 15 8	...	...	16,721	0 4 0
9	Cuddapah.	Madanapalle do. ...	1,144 4 9	807 0 3	5,735 2 10	...	1,315 9 2	4,419 9 8	...	...	22,958	0 3 11
		Siddhavattam circle ...	670 9 4	547 6 11	3,000 3 9	...	760 0 2	2,240 3 7	...	...	3,000 3 9	0 4 3
10	Cuddapah.	Total of district ...	2,787 8 0	1,912 3 7	12,928 3 6	...	3,027 6 7	9,900 13 11	...	...	50,843	0 4 0

APPENDIX.

VACCINATION RETURNS.

35

Number—cont.	Districts—cont.	Circles—cont.	Expenditure—cont.			Paid from				Total.*	Number of all successful vaccinations and re-	Average cost of each successful case.
			Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Zamindaris.		
19			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	28	29
15	Ganjam.	Berhampur circle ...	555 3 3	689 6 7	3,309 4 10	...	1,386 12 11	1,923 7 11	...	...	11,457	0 4 7
		Chilcote do. ...	527 12 2	615 11 4	3,582 11 1	...	1,474 7 5	2,108 3 8	...	...	14,153	0 4 1
16	Ganjam.	Ganjam Hill tracks ...	937 15 0	549 11 10	4,010 3 5	...	4,010 3 5	...	...	...	12,036	0 3 11
		Aala circle ...	349 14 0	804 5 7	3,351 7 5	...	947 14 5	1,403 9 0	...	...	8,109	0 4 8
17	Ganjam.	Parlakinedi circle ...	308 13 0	477 2 5	3,056 2 5	...	1,242 6 5	1,813 12 0	...	...	11,538	0 4 3
		Purushottapur do. ...	516 12 6	711 13 5	2,860 3 8	...	1,050 1 10	1,800 1 10	...	...	11,325	0 4 0
18	Ganjam.	Total of district ...	3,274 6 2	3,978 3 2	19,160 0 10	...	10,111 14 5	9,048 2 5	...	...	68,605	0 4 6
19	Ganjam.	Cocanada circle ...	608 4 11	513 0 7	2,928 9 10	...	918 7 11	2,010 1 11	...	...	10,061	0 4 8
		Rajahmundry do. ...	903 6 4	997 7 3	4,377 14 9	...	1,405 3 5	3,071 11 4	...	...	25,511	0 2 10
20	Ganjam.	Polvaram do. ...	2,232 3 5	311 3 4	4,862 5 6	...	1,772 9 2	3,089 12 4	...	...	7,880	0 9 10
		Peddapur do. ...	686 11 7	558 15 4	3,234 10 6	...	945 6 4	2,289 4 2	...	...	15,763	0 3 3
21	Ganjam.	Total of district ...	4,425 10 3	2,380 10 6	15,503 8 7	...	5,042 10 10	10,460 13 9	...	...	59,215	0 4 2
22	Ganjam.	Ellore circle ...	1,081 9 6	753 12 1	4,376 12 4	...	973 7 7	3,403 4 9	...	...	21,045	0 3 4
		Manupatnam circle ...	1,038 7 4	829 2 10	4,381 10 1	...	938 10 6	3,442 15 7	...	...	21,140	0 3 4
23	Ganjam.	Narasapur do. ...	334 11 7	742 9 10	3,936 7 2	...	1,064 10 7	2,871 12 7	...	...	16,905	0 3 9
		Total of district ...	2,454 12 5	2,325 8 9	12,694 13 7	...	2,976 12 8	9,718 0 11	...	...	59,090	0 3 5
24	Ganjam.	Guntur circle ...	742 12 1	845 7 5	3,735 3 3	...	1,365 6 11	2,369 12 4	...	...	20,628	0 2 11
		Narasapur circle ...	507 4 4	730 9 1	2,567 10 8	...	870 10 5	1,697 0 3	...	...	17,171	0 2 8
25	Ganjam.	Bapatla circle ...	683 0 4	842 10 4	3,151 12 1	...	938 2 9	2,213 9 4	...	...	18,962	0 2 8
		Total of district ...	1,933 0 9	2,418 10 10	9,744 10 0	...	3,174 4 1	6,570 5 11	...	...	56,761	0 2 10
26	Ganjam.	Cumbum circle ...	265 10 9	506 15 10	3,333 3 8	...	848 13 5	2,484 6 3	...	...	13,925	0 3 10
		Kurnool do. ...	174 13 6	576 7 8	3,543 15 5	...	856 12 3	2,687 3 2	...	...	16,705	0 3 5
27	Ganjam.	Total of district ...	440 8 3	1,083 7 6	6,877 3 1	...	1,705 9 8	5,171 9 5	...	...	30,630	0 3 7
28	Ganjam.	Dindigul circle ...	829 4 9	732 3 6	3,319 4 6	...	1,139 11 5	2,179 9 1	...	...	19,374	0 2 9
		Madura do. ...	905 7 10	854 14 8	3,607 12 0	...	1,403 8 8	2,204 3 4	...	...	16,609	0 3 5
29	Ganjam.	Parimazudi do. ...	264 0 3	639 3 6	3,196 3 11	...	1,035 8 9	2,160 11 2	...	...	18,235	0 2 10
		Tirupattūr do. ...	246 11 6	785 13 11	3,434 10 4	...	878 12 5	2,555 13 11	...	...	23,136	0 2 4
30	Ganjam.	Perriyakulam do. ...	761 11 9	832 11 11	3,741 7 10	...	1,393 3 5	2,348 4 5	...	...	20,123	0 3 0
		Total of district ...	3,007 4 1	3,844 15 6	17,399 6 7	...	5,850 12 8	11,448 9 11	...	...	97,457	0 2 10
31	Ganjam.	Tellicherry circle ...	461 13 6	1,231 8 10	4,584 10 10	...	1,608 1 1	2,976 9 9	...	...	26,501	0 2 9
		Calicut do. ...	416 0 6	704 6 4	2,957 6 8	...	977 7 0	1,979 15 8	...	...	21,576	0 2 2
32	Ganjam.	Palghat do. ...	468 4 0	2,040 8 11	5,502 13 9	...	1,276 12 6	4,226 1 3	...	...	38,737	0 2 3
		Malapuram do. ...	471 2 0	1,672 11 11	4,244 2 8	...	1,143 0 6	3,101 2 2	...	...	34,766	0 1 11
33	Ganjam.	Total of district ...	1,817 4 0	5,649 4 0	17,289 1 11	...	5,005 5 1	12,283 12 10	...	...	121,570	0 2 3

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1908-1909.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1908-1909—continued.

Expenditure.																	
Number—cont.	Districts—cont.	Circles—cont.	Deputy Inspectors.				Vaccinators.				Clerks.		Peons, etc.		Total pay of establishment.		
			Inspector of Vaccination and Deputy Sanitary Commissioner.	Pay.	First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.	Pay.		Number.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
42	Nellore.	Central circle (Kavali)	...	...	...	1	...	489 5 4	3	2	3	1,564 7 11	...	...	1	102 10 2	2,156 7 5
43		Southern do. (Gudur)	...	...	...	1	...	720 0 0	3	5	1	1,849 2 0	...	...	1	102 10 2	2,671 12 2
44		Northern do. (Kanigiri)	...	...	...	...	...	489 5 4	3	1	6	1,439 0 8	...	...	1	102 10 2	2,031 0 2
45	Nilgiris.	Total of district	...	...	...	2	1	1,698 10 8	8	8	10	4,852 10 7	...	...	3	307 14 6	6,859 3 9
		Nilgiris ..	...	...	...	...	...	609 5 4	3	...	1	1,279 0 1	...	...	1	109 10 1	1,997 15 6
		Total of district	...	...	...	...	...	609 5 4	3	...	1	1,279 0 1	...	...	1	109 10 1	1,997 15 6
46	North Arcot.	Chittoor circle	...	...	1	...	...	893 2 0	4	4	1	1,400 13 7	...	...	1	101 0 0	2,394 15 7
47		Vellore do.	...	...	1	...	...	800 0 0	3	...	...	652 12 4	...	...	1	88 0 0	1,540 12 4
48		Karvetnagar circle	...	...	1	...	...	508 0 0	3	...	1	1,106 8 5	...	...	1	70 0 0	1,684 8 5
49	Salem.	Ranipet do.	...	...	1	...	...	720 0 0	3	...	...	532 2 7	...	...	1	95 0 0	1,347 2 7
50		Polur do.	...	...	1	...	...	498 10 5	2	1	...	1,098 10 1	...	...	1	95 0 0	1,683 4 6
		Total of district	...	...	2	1	2	3,410 12 5	15	10	2	4,790 15 0	...	...	5	449 0 0	8,650 11 5
51	Madras.	Madras Presidency town	1	11,158 4 5	...	...	...	...	...	...	...	...	...	...	...	...	11,158 4 5
		Total of district	1	11,158 4 5	...	...	...	...	...	...	...	...	...	...	...	...	...
52	Salem.	Tirupattūr circle	...	...	1	...	...	720 0 0	2	5	...	1,126 0 7	...	...	1	91 11 10	1,937 12 5
53		Salem do. (Central)	...	...	...	1	...	480 0 0	3	7	...	1,501 10 4	...	...	1	93 0 0	2,074 10 4
54		Namakkal do.	...	...	1	...	...	720 0 0	3	10	...	1,877 9 6	...	...	1	91 13 10	2,789 7 4
55		Hosur do.	...	...	...	1	...	489 5 4	2	5	...	1,012 4 0	...	...	1	98 3 10	1,599 13 2
		Total of district	...	...	2	2	2	2,409 5 4	10	27	...	5,617 8 5	...	...	4	374 13 6	8,401 11 3

56	South Arcot.	Cuddalore circle	...	...	1	...	...	720 0 0	...	4	...	1,018 0 4	...	...	1	94 10 4	1,832 10 8
57		Vridhachalam do.	...	...	...	...	...	489 5 2	3	3	...	976 9 8	...	...	1	97 9 4	1,563 8 2
58		Tirukkoyilur do.	...	...	1	...	...	500 11 5	2	5	...	1,035 15 6	...	...	1	96 0 0	1,632 10 11
59	South Canara.	Tiuvananam do.	...	...	1	...	...	840 0 0	4	1	...	1,251 0 10	...	...	1	102 10 2	2,193 11 0
60		Villupuram do.	...	...	1	...	...	430 0 0	...	4	...	687 1 6	...	...	1	58 9 4	1,225 10 10
		Total of district	...	...	4	1	1	3,080 0 7	9	17	4	4,968 11 10	...	...	5	449 7 2	8,448 3 7
61	South Canara.	Northern circle	...	...	1	...	...	840 0 0	2	4	...	1,905 14 6	...	...	1	106 10 2	2,852 8 8
62		Central do.	...	...	1	...	...	532 4 4	2	2	...	1,419 3 4	...	...	1	103 10 2	2,016 1 10
63		Southern do.	...	...	1	...	...	489 5 4	2	3	...	2,070 3 5	...	...	1	102 10 2	2,662 2 11
		Total of district	...	...	1	1	1	1,861 9 8	6	9	10	5,386 5 3	...	...	3	312 14 6	7,560 13 5
64	Tanjore.	Tanjore circle	...	...	1	...	...	849 3 4	2	6	...	1,091 4 6	...	...	1	106 14 6	2,047 6 4
65		Negapatam do.	...	...	1	...	...	750 0 0	3	4	...	1,252 13 3	...	...	1	102 10 2	2,105 7 5
66		Pattukkottai do.	...	...	1	...	...	490 3 4	2	6	...	1,457 10 1	...	...	1	93 0 0	2,040 18 5
67		Kumbakonam do.	...	...	...	1	...	529 0 6	2	7	...	1,268 10 10	...	...	1	85 8 5	1,883 3 9
		Total of district	...	...	1	1	2	2,618 7 2	9	23	4	5,070 6 8	...	...	4	388 1 1	8,076 14 11
68	Tinnevely.	Srivilliputur circle	...	...	1	...	...	705 6 6	2	4	...	1,129 13 5	...	...	1	99 12 9	1,935 0 8
69		Tenkasi do.	...	...	1	...	...	788 10 1	3	4	...	1,270 5 1	...	...	1	100 12 9	2,159 11 11
70		Sivakuntan do.	...	...	...	1	...	489 5 4	3	3	...	1,160 8 0	...	...	1	100 4 9	1,750 2 1
71		Ottappidaram do.	...	...	...	1	...	489 5 4	2	3	...	884 6 9	...	...	1	97 8 8	1,471 4 9
		Total of district	...	...	2	...	2	2,472 11 3	10	14	7	4,445 1 3	...	...	4	398 6 11	7,316 3 5
72	Trichinopoly.	Trichinopoly circle	...	...	1	...	...	840 0 0	5	7	...	2,610 1 1	...	...	1	97 10 2	3,547 11 3
73		Ariyalur do.	...	...	1	...	...	367 10 8	3	5	...	1,599 5 10	...	...	1	91 5 5	2,058 5 11
		Total of district	...	...	1	1	1	1,207 10 8	8	12	4	4,209 6 11	...	...	2	188 15 7	5,606 1 2
74	Vizagapatam.	Gannur circle	...	...	...	1	...	533 12 1	1	6	...	1,078 3 10	...	...	1	85 13 11	1,657 13 10
75		Vizagapatam circle	...	...	1	...	...	781 9 4	5	7	...	1,479 8 11	...	...	1	84 0 0	2,345 2 3
		Government vaccinators (Gudem Hills).	...	...	...	...	...	...	...	1	...	118 8 0	...	...	...	...	118 8 0
76	Vizagapatam.	Vizianagaram circle	...	...	1	...	...	888 0 0	4	9	...	2,130 11 5	...	...	1	84 0 0	3,100 11 5
77		Pargatipur do.	...	...	...	1	...	480 0 0	4	8	...	1,568 3 4	...	...	1	84 0 0	2,132 3 4
		Total of district	...	...	1	1	2	2,681 5 5	14	31	5	6,375 3 6	...	...	4	337 13 11	9,394 6 10
78	Koraput.	Jeypore circle	...	...	1	...	...	1,070 0 0	1	7	...	1,514 13 3	...	...	1	96 0 0	2,680 13 3
79		Koraput do.	...	...	...	1	...	597 15 11	1	6	...	874 4 0	...	...	1	50 1 4	1,522 5 3
		Total of district	...	...	1	...	1	1,667 15 11	2	13	1	2,389 1 3	...	...	2	146 1 4	4,203 2 6
		Grand Total of districts	1	11,158 4 5	21	23	34	50,193 5 6	206	392	118	1,12,363 15 6	...	...	78	7,395 12 8	1,81,101 6 1

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1908-1909—continued.

Number—cont.	Districts—cont.	Expenditure—cont.				Paid from					Total.*	Number of all successful primary and secondary vaccinations and re-	Average cost of each successful case.
		Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Zamindaries.				
		19	20	21	22	23	24	25	26	27	28	29	
		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.	
42	Nellore.	Central circle (Kavali) ...	625 12 4	476 12 4	3,259 0 1	900 10 9	2,358 5 4	...	...	3,259 0 1	13,931	0 3 9	
43		Southern do. (Gudur) ...	673 9 0	506 14 0	3,852 3 2	...	1,161 9 5	2,690 9 9	...	...	3,852 3 2	13,602	0 4 6
44		Northern do. (Kangiri) ...	543 7 6	456 6 8	3,080 14 4	...	870 8 1	2,160 6 3	...	...	3,030 14 4	13,270	0 3 8
		Total of district ...	1,842 12 10	1,440 1 0	10,142 1 7	2,932 12 3	7,209 5 4	...	...	10,142 1 7	40,803	0 3 11	
45	Nilgiris.	Nilgiris ...	475 5 0	200 0 2	2,673 4 8	1,203 2 11	1,470 1 9	...	...	2,673 4 8	4,377	0 9 9	
		Total of district ...	475 5 0	200 0 2	2,673 4 8	1,203 2 11	1,470 1 9	...	...	2,673 4 8	4,377	0 9 9	
46	North Arcot.	Chittoor circle ...	871 15 10	633 2 8	3,900 2 1	1,510 13 6	2,389 4 7	...	...	3,900 2 1	13,453	0 4 8	
47		Vellore do. ...	839 1 2	554 12 4	2,934 9 10	1,470 7 10	1,464 2 0	...	...	2,934 9 10	13,018	0 3 7	
48		Karvetnagar circle ...	941 4 0	419 0 11	3,044 13 4	983 14 10	2,080 14 6	...	...	3,044 13 4	14,255	0 2 5	
49		Kanipet do. ...	765 6 11	558 5 7	2,670 15 1	1,336 13 8	1,334 1 5	...	...	2,670 15 1	16,234	0 2 10	
50		Polar do. ...	393 9 8	637 6 4	2,714 4 6	1,131 6 10	1,582 13 8	...	...	2,714 4 6	14,044	0 3 1	
		Total of district ...	3,811 5 7	2,802 11 10	15,264 12 10	6,413 8 8	8,851 4 2	...	...	15,264 11 10	71,004	0 8 5	
51	Madras.	Madras Presidency town ...	2,073 3 0	...	13,231 7 5	13,231 7 5	...	...	...	13,231 7 5	...	...	
		Total of district ...	2,073 3 0	...	13,231 7 5	13,231 7 5	...	...	...	13,231 7 5	...	...	
52	Salem.	Tiruppur circle ...	241 6 0	552 13 2	2,731 15 7	1,068 7 10	1,063 7 9	...	...	2,731 15 7	14,026	0 3 1	
53		Salem do. (Central) ...	274 3 9	812 11 7	3,161 9 8	804 7 0	2,357 2 8	...	...	3,161 9 8	13,245	0 2 7	
54		Namakkal do. ...	233 11 6	1,058 15 6	4,082 2 4	1,006 15 10	3,075 2 6	...	...	4,082 2 4	30,107	0 2 2	
55		Hosur do. ...	275 10 6	564 1 2	2,439 8 10	925 12 10	1,513 12 0	...	...	2,439 8 10	14,682	0 2 8	
		Total of district ...	1,024 15 9	2,988 9 5	12,415 4 5	3,805 11 6	8,609 8 11	...	...	12,415 4 5	78,080	0 2 7	

APPENDIX.

VACCINATION RETURNS.

56	Cuddalore circle	830	3	9	646	11	1	3,309	9	6	1,167	5	9	2,142	2	9	3,309	9	6	12,304	0	4	4
57	Vridhachalam do.	506	3	11	534	4	9	2,618	0	10	918	12	1	1,798	4	9	2,618	0	10	14,309	0	2	11
58	Tirakkayilur do.	666	1	5	606	2	8	3,004	15	0	1,078	12	2	1,926	2	10	3,004	15	0	16,964	0	2	10
59	Tindivanam do.	768	4	8	422	1	4	3,284	1	0	1,341	5	11	1,942	1	1	3,284	1	0	15,983	0	3	4
60	Villupuram do.	659	10	1	573	15	7	2,459	4	6	880	0	1	1,579	4	5	2,459	4	6	14,178	0	2	9
	Total of district	3,424	7	10	2,803	3	5	14,675	14	10	5,286	4	0	9,368	10	10	14,675	14	10	73,426	0	3	2
61	Northern circle	721	15	4	453	1	7	4,027	9	7	1,427	14	8	2,599	10	11	4,027	9	7	14,681	0	4	5
62	Central do.	575	7	8	503	12	0	3,125	5	6	979	0	2	2,146	5	4	3,125	5	6	14,650	0	3	5
63	Southern do.	724	9	10	494	4	7	3,881	1	4	992	15	3	2,888	2	1	3,881	1	4	13,314	0	4	8
	Total of district	2,022	0	10	1,451	2	2	11,034	0	5	3,399	14	1	7,634	2	4	11,034	0	5	42,645	0	4	2
64	Tanjore circle	298	11	9	746	15	9	3,093	1	10	1,237	6	7	1,855	11	3	3,093	1	10	15,820	0	3	2
65	Nagapattam do.	246	13	0	998	11	8	3,351	0	1	1,095	15	5	2,255	0	8	3,351	0	1	19,271	0	2	9
66	Pattakottai do.	205	12	3	733	11	5	2,980	5	1	777	13	4	2,202	7	9	2,980	5	1	17,437	0	2	9
67	Kumbakonam do.	216	8	3	1,011	6	4	3,111	2	4	824	9	8	2,286	8	8	3,111	2	4	19,914	0	2	6
	Total of district	967	13	3	3,490	13	2	12,535	9	4	3,935	13	0	8,599	12	4	12,535	9	4	72,442	0	2	9
68	Srivilliputtur circle	442	13	6	679	1	5	3,056	15	7	884	14	6	2,172	1	1	3,056	15	7	17,816	0	2	9
69	Tentasi do.	468	1	7	607	15	1	3,235	12	7	1,199	1	3	2,036	11	4	3,235	12	7	18,609	0	2	9
70	Srivaitantam do.	379	9	6	672	7	11	2,802	3	6	866	11	1	1,935	8	5	2,802	3	6	19,407	0	2	4
71	Ottapidaram do.	431	6	2	659	3	3	2,561	14	3	984	13	7	1,577	0	8	2,561	14	3	16,033	0	2	7
	Total of district	1,721	14	10	2,618	11	8	11,656	13	11	3,935	8	5	7,721	5	6	11,656	13	11	71,865	0	2	7
72	Trichinopoly circle	302	13	6	1,048	1	8	4,898	10	5	1,276	12	2	3,621	14	3	4,898	10	5	25,522	0	3	1
73	Ariyalur do.	306	1	0	710	9	0	3,074	15	11	734	0	1	2,340	15	10	3,074	15	11	17,113	0	2	11
	Total of district	608	14	6	1,758	10	8	7,973	10	4	2,010	12	3	5,962	14	1	7,973	10	4	42,635	0	3	0
74	Gunnur circle	1,116	7	0	482	8	5	3,396	13	3	1,096	12	9	2,200	0	6	3,296	13	3	7,544	0	7	0
75	Visagapatam circle	712	3	11	1,583	4	4	4,640	10	6	1,282	8	7	3,358	1	11	4,640	10	6	26,912	0	2	9
	Government vaccinators (Gudem bills).	28	4	0	52	12	6	199	8	6	199	8	6	...	...	...	199	8	6	310	0	10	3
76	Vizianagram circle	1,204	4	10	2,062	4	1	6,367	4	4	1,477	0	6	4,890	3	10	6,367	4	4	49,951	0	2	0
77	Párvaiapuram do.	961	4	0	1,433	2	5	4,526	9	9	1,093	2	9	3,433	7	0	4,526	9	9	37,360	0	1	11
	Total of district	4,022	7	9	5,613	15	9	19,080	14	4	5,149	1	1	13,881	13	3	19,080	14	4	122,077	0	2	6
78	Jeypure circle	440	0	0	686	7	1	3,807	4	4	1,629	3	0	2,178	1	4	3,807	4	4	15,910	0	3	10
79	Koraput do.	710	15	2	605	11	8	2,839	0	1	1,122	3	6	1,716	12	7	2,839	0	1	11,561	0	3	11
	Total of district	1,150	15	2	1,292	2	9	6,646	4	5	2,751	6	6	3,894	13	11	6,646	4	5	27,471	0	3	10
	Grand Total of districts	48,794	9	11	57,422	0	7	2,87,318	0	7	1,04,289	4	7	1,83,028	12	0	2,87,318	0	7	13,57,184	0	3	5

APPENDIX.

Expenditure.																	
Number.	Municipalities.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy Inspectors.				Vaccinators.				Clerks.		Peons, etc.	Total pay of establishment.			
			Pay.	First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Adóni	...	...	...	...	...	...	...	1	...	...	185 0 0	...	...	...	...	185 0 0
2	Anantapur	...	...	...	...	...	...	...	...	...	1	101 14 3	...	...	...	...	101 14 3
3	Anakapalle	...	...	...	...	...	...	...	2	...	...	152 0 0	...	...	...	...	152 0 0
4	Bellary	...	...	...	...	...	...	...	1	...	...	51 13 4	...	...	...	...	51 13 4
5	Berhanpur	...	...	...	...	...	...	...	...	...	...	204 0 0	...	...	...	...	204 0 0
6	Bezavada	...	...	...	...	...	...	...	1	...	...	204 0 0	...	...	1	84 1 3	288 1 3
7	Bimlipatam	...	...	...	...	...	...	...	...	...	...	210 0 0	...	...	...	...	210 0 0
8	Calicut	...	...	...	...	...	...	...	1	...	...	626 12 0	...	...	...	...	626 12 0
9	Cananore	...	...	...	...	...	...	...	1	...	...	262 10 8	...	...	...	...	262 10 8
10	Chicacole	...	...	...	...	...	...	...	...	...	...	204 0 0	...	...	...	...	204 0 0
11	Chidambaram	...	...	...	...	...	...	...	1	...	...	210 0 0	...	...	...	...	210 0 0
12	Chingleput	...	...	...	...	...	...	...	...	...	...	140 0 6	...	...	...	...	140 0 6
13	Cochin	...	...	...	...	...	...	...	1	...	...	206 12 0	...	...	...	...	206 12 0
14	Cornada	...	...	...	...	...	...	...	1	...	...	399 12 6	...	...	...	...	399 12 6
15	Coimbatore	...	...	...	...	...	...	...	...	2	...	324 8 11	...	...	...	...	324 8 11
16	Conjeevaram	...	...	...	...	...	...	...	...	1	...	294 10 8	...	...	...	...	294 10 8
17	Coonoor	...	...	...	...	...	...	...	1	...	...	219 2 6	...	...	...	...	219 2 6
18	Cuddalore	...	...	...	...	...	...	...	1	...	...	348 0 0	...	...	...	...	348 0 0
19	Cuddapah	...	...	...	...	...	...	...	...	1	...	179 7 4	...	...	...	...	179 7 4
20	Dindigul	...	...	...	...	...	...	...	1	...	...	181 13 11	...	...	...	...	181 13 11
21	Ellore	...	...	...	...	...	...	...	1	...	...	348 0 0	...	...	...	...	348 0 0
22	Erode	...	...	...	...	...	...	...	1	...	...	209 0 0	...	...	...	...	209 0 0
23	Gudiyattam	...	...	...	...	...	...	...	...	1	...	165 8 0	...	...	...	...	165 8 0
24	Guntur	...	...	...	...	...	...	...	1	...	...	238 0 0	...	...	1	88 6 6	326 6 6
25	Karúr	...	...	...	...	...	...	...	1	...	...	209 0 0	...	...	...	...	209 0 0

VACCINATION RETURNS.

Municipality	Population	No. of houses	Area in acres	Value of land in Rs.	Value of buildings in Rs.	Total value in Rs.
Kodakandam	...	...	...	...	...	...
Kumbakonam	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...
Madras	...	...	...	...	...	...
Madura	...	...	...	...	...	...
Mannargudi	...	...	...	...	...	...
Mangalore	...	...	...	...	...	...
Masulipatnam	...	...	...	...	...	...
Mayavaram	...	...	...	...	...	...
Nandyal	...	...	...	...	...	...
Nagapatnam	...	...	...	...	...	...
Nellore	...	...	...	...	...	...
Ongole	...	...	...	...	...	...
Ootacamund	...	...	...	...	...	...
Palamcottah	...	...	...	...	...	...
Palghat	...	...	...	...	...	...
Parakkimedi	...	...	...	...	...	...
Periyakulam	...	...	...	...	...	...
Palni	...	...	...	...	...	...
Rajahmundry	...	...	...	...	...	...
Salem	...	...	...	...	...	...
Srirangam	...	...	...	...	...	...
Srivillipattur	...	...	...	...	...	...
Tanjore	...	...	...	...	...	...
Tellicherry	...	...	...	...	...	...
Tinnevely	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...
Tiruppattur	...	...	...	...	...	...
Tirupati	...	...	...	...	...	...
Tiruvannamalai	...	...	...	...	...	...
Tuticorin	...	...	...	...	...	...
Vaniyambadi	...	...	...	...	...	...
Vellore	...	...	...	...	...	...
Vizagapatnam	...	...	...	...	...	...
Vizianagram	...	...	...	...	...	...
Walaipet	...	...	...	...	...	...
Total of Municipalities	...	...	...	...	...	...
Bangalore	...	...	...	...	...	...
Secunderabad	...	...	...	...	...	...
Total	...	...	...	...	...	...
Grand Total	...	...	...	...	...	...

* Vaccination is carried on by the Medical Officer.

† Includes four Assistant Deputy Inspectors employed in the Madras Municipality.

‡ Assistant Deputy Inspectors.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1908-1909—continued.

Number—cont.	Municipalities—cont.	Expenditure—cont.				Paid from					Total.*	Number of all successful vaccinations and re-	Average cost of each suc- cessful case.
		Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Zamindaris.				
		19	20	21	22	23	24	25	26	27	28	29	
		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.	
1	Adóni	...	47 14 8	232 14 8	...	...	...	232 14 8	...	232 14 8	1,402	0 2 8	
2	Anantapur	...	22 13 9	124 12 0	...	...	...	124 12 0	...	124 12 0	280	0 7 2	
3	Anakapalle	...	30 11 8	182 11 8	...	...	...	182 11 8	...	182 11 8	1,044	0 2 10	
4	Bellary	...	93 11 11	608 9 3	...	...	...	608 9 3	...	608 9 3	2,801	0 3 8	
5	Berhampur	...	68 2 5	272 2 5	...	...	...	272 2 5	...	272 2 5	1,437	0 3 0	
6	Bezwada	...	29 14 0	317 15 3	...	...	...	317 15 3	...	317 15 3	1,245	0 4 1	
7	Bimlipatam	...	12 12 3	222 12 3	...	...	...	222 12 3	...	222 12 3	476	0 7 6	
8	Calicut	...	381 3 8	1,007 15 8	...	...	...	1,007 15 8	...	1,007 15 8	5,632	0 2 10	
9	Cannanore	...	63 0 8	325 11 4	...	...	...	325 11 4	...	325 11 4	1,532	0 3 3	
10	Chicacole	...	30 5 7	234 5 7	...	...	...	234 5 7	...	234 5 7	1,024	0 3 8	
11	Chidambaram	...	22 13 2	232 13 2	...	...	...	232 13 2	...	232 13 2	674	0 5 6	
12	Chingleput	...	28 14 11	168 15 5	...	...	...	168 15 5	...	168 15 5	614	0 4 4	
13	Cochin	...	38 1 11	244 13 11	...	...	...	244 13 11	...	244 13 11	1,340	0 2 11	
14	Cocanada	...	211 4 6	611 1 0	...	...	...	611 1 0	...	611 1 0	3,956	0 2 8	
15	Coimbatore	...	163 8 9	488 1 8	...	...	...	488 1 8	...	488 1 8	894	0 8 9	
16	Conjeevaram	...	118 8 0	413 2 8	...	...	...	413 2 8	...	413 2 8	1,734	0 3 10	
17	Coonoor	...	9 5 8	228 8 2	...	...	...	228 8 2	...	228 8 2	372	0 9 10	
18	Cuddalore	...	95 13 6	443 13 6	...	...	...	443 13 6	...	443 13 6	2,589	0 2 9	
19	Cuddapah	...	52 8 1	231 15 5	...	...	...	231 15 5	...	231 15 5	969	0 3 10	
20	Dindigul	...	27 1 10	208 15 9	...	...	...	208 15 9	...	208 15 9	1,157	0 2 11	
21	Ellore	...	57 9 11	405 9 11	...	...	...	405 9 11	...	405 9 11	2,402	0 2 8	
22	Erode	...	20 9 0	229 9 0	...	...	...	229 9 0	...	229 9 0	738	0 5 0	
23	Gudiyattam	...	21 13 8	187 5 8	...	...	...	187 5 8	...	187 5 8	811	0 3 8	
24	Guntur	...	107 1 7	433 8 1	...	...	...	433 8 1	...	433 8 1	1,172	0 5 11	
25	Karur	...	26 11 0	235 11 0	...	...	...	235 11 0	...	235 11 0	663	...	

APPENDIX.

VACCINATION RETURNS.

No.	Municipality	Total	1911-12		1912-13		1913-14		1914-15		Total	Average	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.			
26	Kodakanal	...	7	8	0	37	8	0	...	37	8	0	110
27	Kumbakonam	...	112	9	0	591	8	10	...	591	8	10	1,939
28	Kurnool	...	31	1	7	313	0	7	...	313	0	7	1,181
29	Madras	240 0 0	1,985	2	3	10,711	11	2	...	10,711	11	2	28,775
30	Madura	...	384	10	8	1,027	14	8	...	1,027	14	8	8,066
31	Manargudi	2 3 0	47	14	7	182	5	9	...	182	5	9	808
32	Mangalore	...	54	8	8	512	15	3	...	512	15	3	2,559
33	Masulipatam	...	40	3	6	292	3	6	...	292	3	6	1,333
34	Mayavaram	...	31	1	1	233	1	1	...	233	1	1	1,270
35	Nandyal	...	44	13	11	271	6	10	...	271	6	10	676
36	Nagapatam	...	200	4	11	733	5	11	...	733	5	11	3,630
37	Nellore	...	84	10	3	247	1	3	...	247	1	3	997
38	Ongele	...	14	11	0	187	4	1	...	187	4	1	568
39	Ootacamund	...	195	11	5	483	11	5	...	483	11	5	1,556
40	Palacottah	...	62	9	4	482	10	1	...	482	10	1	1,653
41	Palghat	...	113	14	3	416	8	7	...	416	8	7	2,102
42	Parlakimedi	...	25	6	5	229	6	5	...	229	6	5	1,058
43	Periyakulam	8 4 0	23	15	3	164	5	9	...	164	5	9	850
44	Palni	...	43	11	5	200	9	4	...	200	9	4	977
45	Rajahmundry	...	64	6	4	453	6	4	...	453	6	4	3,038
46	Salem	...	108	15	7	465	10	1	...	465	10	1	2,693
47	Srirangam	...	58	9	3	266	5	8	...	266	5	8	1,250
48	Srivillipathur	...	27	0	10	211	0	10	...	211	0	10	1,133
49	Tanjore	...	135	8	2	385	0	2	...	385	0	2	1,984
50	Telicherry	...	42	1	6	434	15	9	...	434	15	9	1,085
51	Tinnevely	...	46	12	6	436	15	1	...	436	15	1	1,629
52	Tiruchinopoly	...	359	1	2	824	11	2	...	824	11	2	6,228
53	Tirupattur	...	38	9	3	212	9	3	...	212	9	3	755
54	Tirupati	...	14	11	11	212	9	11	...	212	9	11	520
55	Tiruvannamalai	...	51	1	1	210	1	1	...	210	1	1	775
56	Tuticorin	...	35	9	7	231	9	7	...	231	9	7	1,487
57	Vaniyambadi	...	66	9	0	243	9	0	...	243	9	0	870
58	Vellore	...	94	5	1	474	5	1	...	474	5	1	1,761
59	Vizagapatam	...	129	4	7	391	3	4	...	391	3	4	1,895
60	Vizianagaram	...	200	11	7	394	6	11	...	394	6	11	3,699
61	Walaipet	...	13	12	6	157	12	6	...	157	12	6	508
Total of Municipalities			250	7	0	31,608	12	8	...	31,608	12	8	128,136
1	Bangalore	120 0 0	...	...	...	456	0	0	...	456	0	0	2,312
2	Secunderabad	180 0 0	530	11	8	2,373	11	8	...	2,373	11	8	4,749
Total			300	0	0	2,829	11	8	...	2,829	11	8	7,061
Grand Total			49,345	0	11	3,21,756	8	11	1,83,028	12	0	31,608	138

* Includes cost of lymph supplied by K.I.P.M. during 1908, 1909.

† In finding out the average cost of each successful case, the number of successful vaccinations (2,654) performed in the Natal and Mauritius Emigration depots and the Penitentiary, have been excluded.

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1908-1909.

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 success to total operations excluding unknown.		Percentage of unknown to total operations.		
					Total number of operations.	Successful.			Total number of operations.	Successful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	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.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellary District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput District.																	
Sriperumbádúr	...	...	6	...	...	...	...	...	...	6	6	...	...	100.0	...	...	...
Coimbatore District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ganjém District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godávari District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Guntúr District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madras Town.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura District.																	
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar District.																	
Kollengode	...	...	33	...	31	1	11	30	1	3	...	...	100.0	...	3.2	...	...
Angádipnram	...	...	4	...	4	...	...	4	...	...	...	...	100.0	...	...	...	...
Total	...	...	37	...	35	1	11	34	1	3	...	...	100.0	...	2.8	...	...

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1908-1909—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.	Total number of operations.	Primary and secondary vaccinations.				Re-vaccination.			Percentage of success to total operations excluding unknown.		Percentage of unknown to total operations.	
						Successful.			Unknown.	Total number of operations.	Successful.	Unknown.	Primary and secondary vaccinations.	Re-vaccination.	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
Nellore District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nilgiris District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem District.																
Yercaud	...	...	11	...	10	8	1	9	...	1	1	...	90.0	100.0	...	...
Total	...	...	11	...	10	8	1	9	...	1	1	...	90.0	100.0	...	...
South Arcot District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Visagapatam District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Koraput District.																
Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Total	...	...	54	...	45	9	12	43	1	10	7	...	97.7	70.0	2.2	...

Difference between number of operations and number of persons vaccinated, equals one which represents secondary operation.

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

Primary and secondary vaccinations.

Establishment.	1899-1900.		1900-1901.		1901-1902.		1902-1903.		1903-1904.		1904-1905.		1905-1906.		1906-1907.		1907-1908.		1908-09.	
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
Government vaccinators ...	33,478	28,097	32,879	26,911	35,405	28,886	25,837	22,346	28,633	25,469	29,645	24,797	19,958	18,054	12,948	11,557	12,478	11,319	12,149	11,503
Local Fund do. ...	934,559	833,403	1,013,503	902,880	1,058,042	943,048	1,063,784	965,693	1,073,284	949,554	1,235,839	1,039,929	1,207,394	1,081,374	1,309,814	1,176,323	1,373,888	1,265,809	1,383,127	1,249,708
Cantonment do. ...	5,104	4,824	5,661	5,427	5,408	5,016	5,325	5,100	5,000	4,813	4,832	4,602	5,041	4,892	4,687	4,542	5,164	5,072	4,799	4,669
Zamindari do. ...	8,937	6,793	9,631	6,548	9,376	7,892	10,586	8,704	12,191	9,823	13,914	10,365	4,356	3,989	...	...	...	...	...	...
Municipal do. ...	100,777	95,586	105,239	99,284	114,940	105,296	106,096	101,593	109,918	105,258	111,455	103,242	116,654	110,989	108,261	102,615	110,869	106,433	108,143	103,762
Dispensaries do. ...	10,219	9,019	10,271	8,952	11,040	8,552	10,003	8,346	8,889	7,563	8,934	7,014	1,304	1,024	93	78	129	120	45	43
Medical subordinates ...	3,747	2,865	4,191	3,200	4,985	3,844	3,131	2,354	2,740	1,960	2,370	1,834	3,088	2,280	2,121	1,558	1,045	758	508	383
Total ...	1,006,821	980,587	1,181,375	1,033,202	1,235,196	1,104,434	1,250,762	1,114,136	1,240,655	1,104,440	1,406,989	1,191,803	1,357,745	1,222,602	1,437,924	1,296,673	1,503,368	1,389,511	1,478,771	1,370,153

* Gunpur Zamindari has been included in the Local Fund area.

STATEMENT No. V showing Particulars of Vaccination verified by Inspecting Officers during 1908-1909.

Districts.	Total number of cases 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-ary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.	Primary and second-ary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.	Primary and second-ary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.
Anantapur ...	29,302	2,098	930	107	21,098	671	21,098	671	Primary and second-ary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.	Primary and second-ary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.
Bellary ...	35,064	3,531	82	...	22,687	562	22,687	562	97.2	100.0	...	...	...	97.4	98.6	...	...	...
Chingleput ...	48,064	6,443	2,452	118	43,463	5,182	43,463	5,182	10.4	10.4	...	...	...	97.8	97.8	...	...	...
Coinbatore ...	69,776	5,589	479	1,148	47,843	2,287	47,843	2,287	...	...	...	...	...	...	...	...	...	...
Cuddapah ...	51,604	2,503	261	106	32,528	634	32,528	634	...	...	...	...	...	...	...	...	...	...
Ganjam ...	72,917	4,805	63	...	61,199	1,265	61,199	1,265	...	...	...	...	...	...	...	...	...	...
Godavari ...	73,036	6,584	705	122	48,851	508	48,851	508	...	...	...	...	...	...	...	...	...	...
Kistna ...	69,632	2,433	1,209	87	60,962	823	60,962	823	...	...	...	...	...	...	...	...	...	...
Guntur ...	58,565	3,324	1,208	85	53,916	1,728	53,916	1,728	...	...	...	...	...	...	...	...	...	...
Kurnool ...	31,162	2,777	540	78	17,523	771	17,523	771	...	...	...	...	...	...	...	...	...	...
Madras ...	23,807	8,967	...	...	19,757	2,208	19,757	2,208	...	...	...	...	...	...	...	...	...	...
Madura ...	116,724	5,102	3,122	20	81,486	2,142	81,486	2,142	...	...	...	...	...	...	...	...	...	...
Malabar ...	132,485	7,926	2,190	337	49,870	1,190	49,870	1,190	...	...	...	...	...	...	...	...	...	...
Nellore ...	45,277	1,924	580	7	34,011	389	34,011	389	...	...	...	...	...	...	...	...	...	...
Nilgiris, The ...	5,416	783	146	5	3,632	234	3,632	234	...	...	...	...	...	...	...	...	...	...
North Arcot ...	75,620	6,362	618	2	69,148	3,834	69,148	3,834	...	...	...	...	...	...	...	...	...	...
Salem ...	84,401	7,182	1,987	239	49,787	2,617	49,787	2,617	...	...	...	...	...	...	...	...	...	...
South Arcot ...	88,674	2,522	3,502	488	68,756	928	68,756	928	...	...	...	...	...	...	...	...	...	...
South Canara ...	46,249	1,008	2,719	167	35,623	348	35,623	348	...	...	...	...	...	...	...	...	...	...
Tanjore ...	79,519	6,413	3,440	546	43,431	1,989	43,431	1,989	...	...	...	...	...	...	...	...	...	...
Tinnevely ...	78,460	3,663	1,751	463	63,505	645	63,505	645	...	...	...	...	...	...	...	...	...	...
Trichinopoly ...	52,363	2,389	3,795	555	35,085	842	35,085	842	...	...	...	...	...	...	...	...	...	...
Vinayapattam ...	78,889	69,946	194	58	44,365	4,720	44,365	4,720	...	...	...	...	...	...	...	...	...	...
Koraput ...	26,906	1,634	...	...	22,511	674	22,511	674	...	...	...	...	...	...	...	...	...	...
Total ...	11,473,972	1,634,506	31,973	4,808	10,101,037	57,091	10,101,037	57,091	...	...	...	...	...	...	...	...	...	...

* The verification work done by the Sanitary Assistants to the District Medical and Sanitary Officers is shown herein as required in G.O., No. 929 L., dated 8th August 1906.
† Excludes cases performed in the 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., Mis., dated 31st May 1900.)

Municipalities.	Number of births available for vaccination during the year 1908-1909.	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 column 3.	Number of successful vaccinations on children under one year during the year ending March 1909.	Date of extension of compulsory vaccination to Municipalities.
1	2	3	4	5	6
Ádóni ...	1,000	177	823	1,150	1st Dec. 1886.
Anantapur ...	247	33	214	146	1st Jan. 1886.
Anakápallo ...	695	103	592	488	1st Nov. 1891.
Bellary ...	1,797	311	1,486	725	1st Jan. 1891.
Berhampur ...	920	230	690	442	15th April 1891.
Bezwada ...	1,075	275	800	619	1st May 1892.
Bimlipatam ...	355	47	308	220	1st Jan. 1894.
Calicut ...	2,941	459	2,482	1,585	1st Oct. 1891.
Cannanore ...	1,034	185	849	578	1st June 1891.
Chicacole ...	543	87	456	320	1st Dec. 1890.
Chidambaram ...	642	128	514	376	1st July 1887.
Chingleput ...	523	130	393	252	1st April 1897.
Cochin ...	650	150	500	537	1st Jan. 1894.
Cocanada ...	2,012	330	1,682	1,126	1st June 1890.
Coimbatore ...	2,112	314	1,798	655	1st Jan. 1889.
Conjeeveram ...	1,593	373	1,210	786	1st Jan. 1891.
Coonoor ...	342	41	301	74	1st April 1887.
Cuddalore ...	1,756	342	1,414	775	1st Aug. 1890.
Cuddapah ...	496	90	406	184	15th July 1886.
Dindigul ...	1,355	338	1,017	743	16th July 1888.
Ellore ...	1,288	394	894	769	1st June 1886.
Erode ...	647	130	517	380	1st April 1888.
Gudiyáttam ...	770	99	671	434	1st June 1891.
Guntúr ...	1,445	364	1,081	732	1st Jan. 1889.
Karár ...	667	110	557	355	1st Sept. 1893.
Kodaikánal ...	100	17	83	44	1st April 1900.
Kumbakónam ...	1,817	418	1,399	866	1st Aug. 1889.
Kurnool ...	1,136	233	903	613	1st July 1889.
Madura ...	4,521	802	3,719	3,003	1st Jan. 1891.
Mannárgudi ...	738	131	607	377	1st Dec. 1890.
Mangalore ...	1,542	225	1,317	906	1st Sept. 1891.
Musulipatam ...	1,360	297	1,063	583	1st May 1888.
Máyavaram ...	874	182	692	394	1st Oct. 1886.
Nandyal ...	393	71	322	157	1st Jan. 1900.
Negapatam ...	1,772	381	1,391	1,029	1st July 1886.
Nellore ...	1,036	189	847	488	1st Aug. 1886.
Ongole ...	536	85	451	284	1st Dec. 1885.
Ootacamund ...	781	156	625	429	1st July 1887.
Palamcottah ...	1,660	369	1,291	837	1st May 1886.
Palghat ...	1,721	367	1,354	964	1st Jan. 1893.
Parlákimedi ...	604	121	483	369	1st Dec. 1890.
Periyakulam ...	883	178	705	537	1st Feb. 1891.
Palni ...	635	132	503	341	1st Dec. 1891.
Rajahmundry ...	1,528	340	1,188	904	1st Jan. 1886.
Salem ...	3,386	750	2,636	2,028	1st Mar. 1891.
Srirangam ...	713	111	602	365	1st July 1888.
Srivilliputtúr ...	1,226	213	1,013	895	1st Jan. 1896.
Tanjore ...	2,429	483	1,946	1,366	1st July 1893.
Tellicherry ...	984	187	797	559	15th Jan. 1892.
Tinnevely ...	1,106	256	850	637	1st July 1886.
Trichinopoly ...	3,869	771	3,098	1,918	1st Aug. 1890.
Tiruppattúr ...	733	146	587	354	1st April 1891.
Tirupati ...	435	109	326	236	1st Mar. 1890.
Tiruvannámalai ...	776	125	651	525	15th Dec. 1897.
Tuticorin ...	1,075	250	825	654	1st May 1892.
Vániyambádi ...	769	99	670	529	1st May 1889.
Vellore ...	1,664	264	1,400	824	1st Jan. 1887.
Vizagapatam ...	1,375	286	1,079	748	1st Aug. 1890.
Vizianagaram ...	1,152	188	964	691	1st Jan. 1891.
Walejapet ...	418	92	326	216	20th June 1892.
Total ...	72,642	14,294	58,348	40,121	

STATEMENT No. VII showing Inspection work done by Deputy Inspectors during the year 1908-1909

Districts.	Circles.	Number of inspecting officers.			Number of villages visited.			Total number of cases 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 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-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.			First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Anantapur.	Anantapur	1	..	..	464	..	..	18,762	261	12,520	..	..	12,520	10,970	87.6	66.7	..	..
	Penkonda	..	1	..	..	562	..	13,201	306	..	..	..	9,349	8,718	94.2	..	75.8	..
Bellary	Bellary	..	1	..	..	345	..	18,004	281	..	..	..	12,056	11,764	97.6	..	67.0	..
	Hospet	..	..	..	614	..	..	14,788	274	11,193	..	..	11,193	10,418	98.1	75.6	..	..
Chingleput	Chingleput	..	1	..	..	1,100	..	18,734	252	..	18,075	..	18,075	16,747	92.6	..	86.4	..
	Saidpet	..	..	1	..	..	853	16,798	309	..	..	15,714	15,714	14,543	92.5	..	..	93.5
	Ponnéri	..	..	1	..	..	862	16,424	296	..	..	13,846	13,846	13,461	90.7	..	..	80.4
Coimbatore.	North Coimbatore	1	..	..	331	..	..	15,773	257	12,526	..	..	12,526	10,042	80.1	79.4	..	..
	South do.	..	..	1	..	..	445	16,505	287	..	..	11,712	11,712	10,782	91.6	..	..	70.9
	East do.	1	..	..	368	..	..	20,547	245	12,107	..	..	12,107	10,704	88.4	58.9	..	..
	Central do.	..	..	1	..	..	437	17,367	308	..	..	13,785	13,785	12,419	90.0	..	..	77.0
Cuddapah	Cuddapah	..	..	1	..	..	228	17,642	264	..	..	12,181	12,181	10,928	89.7	..	..	69.0
	Madanapalle	1	..	..	2,189	..	..	23,883	271	12,923	..	..	12,923	12,542	97.0	55.3	..	..
	Siddhout	..	..	1	..	..	774	11,983	248	..	..	7,958	7,958	7,084	89.0	..	..	66.4
Ganjām	Berhampur	1	..	..	829	..	..	12,054	207	11,788	..	..	11,788	11,525	97.7	97.7	..	..
	Chiosole	..	1	1	..	..	830	15,131	274	..	..	15,660	15,660	14,828	94.6	..	..	* 103.5
	Ganjām Hill Tracts	1	..	..	313	..	..	12,719	158	4,525	..	..	4,525	4,317	95.4	35.6	..	..
	Aska	..	1	1	..	..	674	8,787	248	..	..	8,087	8,087	7,775	96.1	..	..	92
	Parlakimedi	..	1	..	..	766	..	12,400	240	..	12,159	..	12,159	11,205	92.1	98.0	..	..
	Purushottapur	..	..	1	..	..	605	12,002	319	..	..	10,245	10,245	10,016	97.7	..	..	85.8
Goddāvari	Cocanada	..	..	1	..	..	389	12,050	293	..	..	11,617	11,617	10,277	88.4	..	..	96.4
	Bejahmundry	1	..	..	247	..	..	30,332	239	16,580	..	..	16,580	14,642	88.5	54.5	..	..
	Polavaram	..	1	1	..	..	294	9,313	202	..	..	4,545	4,545	4,179	89.9	..	..	49.8
	Peddapur	..	..	1	..	..	366	18,854	261	..	..	16,567	16,567	13,831	83.4	..	..	87.8

Old cases also were inspected.

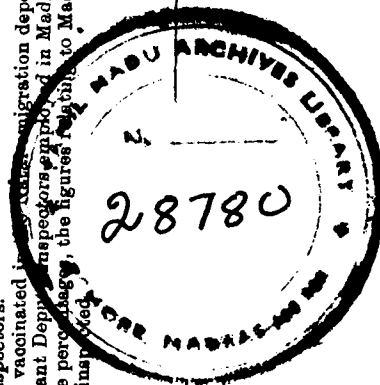
STATEMENT No. VII showing Inspection work done by Deputy Inspectors during the year 1908-1909 - continued.

Districts.	Circles.	Number of inspecting officers.					Number of villages visited.			Total number of cases 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 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-grade Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.			Third-grade Deputy Inspectors.	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.				Third-grade Deputy Inspectors.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
Kistna	Ellore	..	..	1	..	..	342	28,940	256	..	..	21,745	21,745	18,903	86.4	..	..	90.8	..	..	
	Masulipatam	..	..	1	..	..	427	23,387	253	..	..	23,186	23,186	20,215	87.1	..	..	99.1	..	..	
	Narasapur	..	..	1	..	..	254	19,487	256	..	..	16,854	16,854	14,716	87.3	..	..	86.4	..	..	
Guntur	Guntur	1	..	..	369	..	..	21,547	195	18,142	..	..	18,142	17,350	95.6	84.2	..	..	..	..	
	Narasaraopet	..	1	..	..	485	..	18,592	250	..	16,320	..	16,320	14,591	89.4	..	..	..	..	..	
	Bapatla	..	1	..	..	336	..	20,355	301	..	21,182	..	21,182	20,059	94.6	..	..	..	..	..	
Kurnool	Cumbum	..	..	..	..	..	595	14,499	290	..	..	11,125	11,125	9,488	85.2	..	..	70.7	..	..	
	Kurnool	..	..	1	..	..	293	17,995	205	..	..	7,169	7,169	6,231	86.9	..	..	41.2	..	..	
Madras	Madras	1	..	..	..	..	..	32,774	296	2,992	..	18,973	21,965	21,075	95.9	..	76.6	..	..	..	
	Dindigul	..	1	..	1,432	337	..	23,728	283	..	19,469	..	19,469	17,179	88.2	86.0	82.0	..	..	..	
Madura	Madura	..	..	..	..	..	..	21,327	327	18,148	..	..	18,148	16,624	91.6	..	..	..	..	..	
	Paramagudi	..	1	..	..	379	..	18,649	223	..	10,947	..	10,947	10,778	98.4	..	58.7	..	..	..	
	Tirupattur	..	1	..	..	653	..	23,589	288	..	13,655	..	13,655	13,535	99.1	..	57.8	..	..	..	
	Periyakulam	1	..	..	840	..	..	22,394	255	21,409	..	..	21,409	19,969	93.2	95.6	..	..	..	..	
Malabar	Tellicherry	1	..	..	190	..	..	27,317	225	16,594	..	..	16,594	16,145	97.2	60.7	..	..	..	..	
	Calicut	..	..	1	..	..	148	22,492	245	..	..	10,650	10,650	10,255	96.1	..	47.5	..	..	..	
	Palghat	..	1	..	..	167	..	40,670	208	..	12,709	..	12,709	12,132	95.4	..	31.2	..	..	..	
	Malappuram	..	..	1	..	..	118	36,753	231	..	..	11,107	11,107	10,363	93.3	..	..	30.2	..	..	
Nellore	Central (Kavali)	..	1	..	..	543	..	15,832	238	..	11,137	..	11,137	10,128	90.9	..	70.3	..	..	..	
	Southern (Gudur)	..	1	..	..	569	..	15,005	263	..	11,207	..	11,207	10,412	92.4	..	75.0	..	..	..	
	Northern (Kanigiri)	..	..	1	..	..	660	15,053	285	..	..	11,996	11,996	10,728	89.4	..	..	79.6	..	..	
Nilgiris	The Nilgiris	..	..	1	..	..	444	4,481	304	..	..	3,868	3,868	3,752	97.0	..	..	86.2	..	..	
	Chittoor	1	..	..	889	..	..	14,578	191	9,527	..	..	9,527	8,818	92.5	..	..	..	..	..	
North Arcot.	Vellore	..	1	..	..	927	..	14,782	268	..	14,579	..	14,579	13,223	91.9	..	97.8	..	..	..	
	Karainagar	..	..	1	..	..	880	14,654	271	..	..	13,680	13,680	13,191	96.4	..	..	..	..	..	
	Renipet	..	..	..	1,038	..	..	18,231	286	17,382	..	..	17,382	16,158	92.9	..	..	..	..	..	
	Polur	1	..	1	..	..	577	15,855	255	..	..	18,014	18,014	16,880	93.7	..	..	..	..	113.6	

VACCINATION RETURNS.

Salem	{	Tirupattūr	1	...	280	...	14,890	354	...	9,835	...	98.5	...	62.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</
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* Assistant Deputy Inspectors.
† Includes 4,067 cases vaccinated by Assistant Deputy Inspectors employed in Madras.
‡ Includes four Assistant Deputy Inspectors employed in Madras.
§ In working out these percentages, the figures relating to Madras have not been taken into account.
|| Old cases also were inspected.



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Government of Madras.

LOCAL AND MUNICIPAL DEPARTMENT.

Recd.

Regd.

} 1909.

Enclosures

Spare copies

G.O., No. 915 L., 23rd July 1909.

Vaccination.

Reviewing the reports on — in the Madras Presidency and the work of the King Institute of Preventive Medicine for the year 1908-1909.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

READ—the following paper :—

Letter—from Major W. W. CLEMESHA, I.M.S., Acting Sanitary Commissioner for Madras.

To—the Secretary to Government, Local and Municipal Department.

Dated—the 9th July 1909.

No.—1749.

ABSTRACT.—Forwarding the reports on vaccination in the Madras Presidency and the work of the King Institute for 1908-1909.

Order—No. 915 L., dated 23rd July 1909.

The report on vaccination was due with Government on the 1st July but was received only on the 14th idem.

2. The chief features of the year were—

(i) an increase occurring chiefly in Local Fund areas of nearly 1·4 per cent. in the total number of cases vaccinated;

(ii) an advance of about 37 per cent. in revaccinations, which again occurred mainly in areas under the local boards, noticeably in Vizagapatam district;

(iii) a drop from 95·6 to 95·5 in the percentage of success in primary and secondary cases and a rise from 76·6 to 81·4 in that in revaccinations;

(iv) a rise from 37·2 to 37·9 in Local Fund areas and a fall from 54·9 to 52·9 in municipalities in the number of successful operations per mille of the population;

(v) an advance of 10·9 per cent. in the number of successful operations on children under one year of age;

(vi) an increase from As. 3-1 to As. 3-4 in the average cost of each successful case, mainly caused by a corresponding rise from As. 3-0 to As. 3-2 in Local Fund areas;

(vii) a rise from 4·1 pies to 4·3 pies in the cost of vaccine per case;

(viii) a decline from 22,780 to 20,215 in the deaths from small-pox.

3. The “trial scheme” of compulsory registration of births and compulsory vaccination continued in force in the whole of the Chingleput district and in selected areas in Madura, South Arcot and North Arcot and was extended in the course of the year to the Polur and Wandiwash taluks of North Arcot and the Villupuram taluk of South Arcot. It met with varying success. In Malabar vaccination was made compulsory in a number of the more important and advanced villages and worked creditably without aid from prosecutions. Other District Boards should consider what opportunities for similar selection of areas suited to compulsory vaccination exist in their charges.

4. In Madura, Kistna, Kurnool and Ganjam the decline in the total number of cases treated is ascribed either wholly or in part to the absence of vaccinators on leave without substitutes. The Presidents of the District Boards concerned should report what steps they have taken to carry out the orders of Government that an adequate reserve of vaccinators should be maintained.

5. The average cost of each successful case was over As. 4 in the districts of Bellary, South Canara, Ganjam, Gódvári and the Nilgiris; while in the municipalities of Anantapur, Coimbatore, Nandyal, Tellicherry, Coonoor, Ootacamund, Tirupati, Bimlipatam and Madras, it was over As. 6. The Boards and Councils concerned should see if these figures cannot be reduced.

6. In infantile vaccination, increases of more than 5,000 cases occurred in South Arcot, Chingleput, Madura and Salem; on the other hand in Vizagapatam there was a fall of 2,456, and in the municipalities of Bellary, Coimbatore, Coonoor, Cuddapah and Nandyal more than one half of the children available for vaccination according to the register of births were not protected. These Councils should rigorously enforce the provisions of the District Municipalities Act regarding compulsory vaccination.

7. The verification done by the Sanitary Assistants to the District Medical and Sanitary Officers was inadequate in Gódvári, Madura, North Arcot, Tanjore and South Arcot, especially in the last of these. The Surgeon-General will be requested to take the action necessary.

8. The attention of the Corporation of Madras, which now gets its lymph from the King Institute, will be invited to the remark in paragraph 3 of the Superintendent's report that the glycerinated lymph which the Corporation prefers is much more sensitive to high temperatures than lanolinated lymph and that arrangements should therefore be made to use it as soon after receipt as possible.

9. The Superintendent's suggestions regarding the channel through which the vaccinators' returns should be submitted and the provision of a steam steriliser for the vaccine section and three additional sheds for calves should form the subjects of separate communications.

10. The attention of all Presidents of District Boards and Chairmen of Municipal Councils will be drawn to the warning regarding the use of stale vaccine contained in paragraph 6 (b) of the report of the Superintendent of the King Institute and to the complaints of ineffective administration made in paragraph 12 of the report of the Inspector of Vaccination.

(True Extract.)

W. FRANCIS,
Ag. Secretary to Government.

To the Sanitary Commissioner.
„ the Sanitary Engineer.
„ the Surgeon-General.
„ the Public Department.
„ the Judicial Department.
„ the Revenue Department.
„ the Assistant Adjutant-General, 9th (Secunderabad) Division, with C.L.
„ the Director of Public Instruction.
„ the Accountant-General.
„ the President, Corporation of Madras.
„ all Collectors.
„ all Presidents of District Boards.
„ all Chairmen of Municipal Councils.
Editors' Table.

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