

ANNUAL REPORT

OF THE WORK OF THE VACCINE SECTION OF THE

ING INSTITUTE OF PREVENTIVE MEDICINE,

MADRAS,

AND

REPORT ON VACCINATION

IN

THE MADRAS PRESIDENCY

FOR THE YEAR

1909-1910.

MADRAS:

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1910.

OFFICE OF SANITARY COMMISSIONER,
MADRAS, 15th July 1910.

No. $\frac{1992}{S}$.

From

LIEUT.-COLONEL H. THOMSON, M.D., D.P.H., I.M.S.,
Sanitary Commissioner for Madras,

To

THE SECRETARY TO GOVERNMENT,
LOCAL AND MUNICIPAL DEPARTMENT.

SIR,

In forwarding the reports on the work of the vaccine section of the King Institute, Guindy, and on the progress of vaccination in the Presidency for the past year, I have the honour to offer the following remarks:—

Extra Indents from District Boards.—There is an increase in this item. Extra indents now comprise over 15 per cent. of the total amount of vaccine issued to districts. It appears to me that with a little forethought very few extra indents should be required and that the attention of the several District Boards should be called to this point and as far as possible the submission of extra indents should be discouraged.

I am of opinion that the decline in the percentage of success is probably due to the storage of vaccine paste. There is no cold storage at the Institute other than the makeshift of an ice box. The decline of success percentage is regrettable but when one considers the numerous causes that have to be overcome in collecting, keeping in health and feeding a large reserve of calves during the hot months of March, April, May and June as compared with the ease, the reduction of trouble and expenditure by which a store of vaccine can be built up and kept in reserve to be distributed during the months of scarcity, i.e., hot weather, the total decline in the success rate is small compared with the saving in work to the Institute and when a perfected cold storage is supplied to the Institute I have not the slightest doubt, but that the percentage decline will be greatly if not wholly diminished.

As indicated above, the issue of vaccine paste from a reserve stock was the means of greatly reducing the work of the vaccine section of the King Institute during the hot months.

The report of the Inspector of Vaccination which is a skeleton report requires no remarks.

I have the honour to be,

Sir,

Your most obedient servant, *

H. THOMSON, Lieut.-Col., I.M.S.,
Sanitary Commissioner for Madras.



PART I.

WORK DONE IN THE VACCINE SECTION,
KING INSTITUTE, GUINDY.

ANNUAL REPORT ON THE WORKING OF THE VACCINE SECTION OF THE KING INSTITUTE OF PREVENTIVE MEDICINE, GUINDY, FOR THE YEAR ENDING 31st MARCH 1910.

THERE was a slight decline in the quantity of lymph issued from the Institute during the year 1909-1910 as compared with the previous year. The actual numbers of cases issued were 1,949,746 and 1,969,054 respectively, the former figure being 0.98 per cent. less than the latter. Table No. 1 compares the amounts of vaccine supplied to various bodies during the year under report, with those supplied in the previous four years. There are marked rises in the amount supplied to Government officers, including Jail Superintendents, to Municipalities, and, after a continuous decline for four years, the amount supplied to Agency tracts shows a slight rise. The large increase in the amounts taken by Municipalities is mainly due to the City of Madras which has derived its entire supply from the King Institute during the year. Under the headings Military, District Boards and Private persons a decline is to be noted. The decline shown in the supply to the Military is a small one; while reduction in the number of vaccinators in Anantapur and reduction of the minimum number of cases demanded of the vaccinators in Coimbatore, Trichinopoly and parts of South Arcot account for the second. The fall in the amount issued to Private Bodies is almost entirely due to the fact that, from the 11th August 1909, the Cochin State ceased to take its supply, amounting to 3,000 cases a month, from the Institute.

TABLE No. I.

Table showing the quantity of Vaccine supplied to various bodies from 1905-1906 to 1909-1910.

	1905-1906.	1906-1907.	1907-1908.	1908-1909.	1909-1910.
Government offices including jails ...	16,818	17,867	21,000	28,698	36,860
Agency Tracts	59,083	38,293	27,095	25,986	28,056
Military	6,336	12,910	9,769	17,954	15,082
District Boards	1,401,409	1,624,752	1,648,220	1,681,336	* 1,642,467
Municipalities	126,856	140,228	129,657	135,867	171,760
Private bodies	22,748	27,725	48,112	79,268	55,542
Total ...	1,633,250	1,861,775	1,883,858	1,969,054	1,949,746

2. The regular supply stipulated for by the District Boards totalled, 1,424,883 cases, a decrease of 65,471 as compared with last year. There has however been a farther rise in the amount obtained on extra indents. This increase for the year corresponds to a percentage of nearly 14 per cent. and extra indents now comprise over 15 per cent. of the total amount of vaccine issued to District Boards. A closer estimate of probable requirements would result in a diminution of the clerical work required and in the expenditure on tubes packing and postage.

3. As heretofore the great proportion of the lymph issued has been in the form of Lanoline paste. Glycerinated vaccine has only been supplied when specially asked for, and even then only when there was a reasonable prospect of its

* 1,424,883 usual and 217,814 extra cases.

being used promptly. The chief demand for glycerinated vaccine came from the Madras Municipality, which takes a bi-weekly supply, and from the Chief Inspector of Vaccination, Colombo. A small amount was also supplied to the Government Emigration Agent for Fiji, Madras.

4. The usual system of fortnightly despatches of vaccine paste has been maintained and has been found to work well. It cannot be stated, however, there is any marked improvement in the promptness with which the fortnightly returns have been submitted.

5. The net cost of production of the total amount of vaccine supplied to Government Officers and Public Bodies, including establishment charges, was Rs. 46,817-7-0 as against Rs. 43,064-11-11, last year—*vide* tables III and IV. The cost per case amounts to 4.688916 pies as compared with 4.335295 pies in 1908-1909. Last year, however, supplemental charges brought the actual cost of the vaccine up to 4.448077. It is not anticipated that there will be such high supplemental charges this year; so that the cost per case will probably be not more than $\frac{1}{4}$ pie higher than last year. This is the more gratifying as, in the year under report, there have been greatly increased establishment charges due to the appointment of the Assistant Director, a Commissioned Officer from the middle of August to replace the Deputy Superintendent and to the fact that, under G.O., No. 459-L. of April 8th, 1910, Local and Municipal, the pay and allowances of the five Deputy Inspectors of Vaccination, working at the Institute, has been included in the establishment charges for the first time.

TABLE II.

Table showing the sums expended during the year 1909-1910 under all heads of Expenditure in the Vaccine Section of the King Institute of Preventive Medicine, Guindy.

Detailed heads of account.	Amount spent.		
	Rs.	A.	P.
Establishment Charges—			
Deputy Superintendent	1,441	14	11
Assistant Director	5,784	12	7
Clerks and servants	8,343	15	9
Deputy Inspectors	4,073	0	10
Famine batta	546	10	6
Travelling allowance of Deputy Inspectors, Clerks and Servants.	54	1	0
Total Establishment ...	20,241	7	7
Supplies, Services and Contingencies—			
Purchase of stores, apparatus, etc.	4,542	1	9
Cost of boxes and receptacles for vaccine	408	9	11
Cost of calves including transport	20,051	11	0
Feeding charges of calves	2,697	9	3
Water-works	422	0	10
Gas works	127	6	11
Purchase and repair of furniture	379	8	0
Hot and cold weather charges	70	2	2
Tour charges	98	15	6
Service postage and telegram charges	2,388	15	6
Office expenses	209	1	10
Miscellaneous	27	0	6
Total Supplies, Services and Contingencies ...	31,421	3	2
Stationery, clothing and repairs of buildings—			
Proportionate cost of stationery supplied for 1909-1910	145	8	8
Cost of clothing issued for use in 1908-1909, Rs. 38-6-8	89	19	0
Do. do. in 1909-1910, Rs. 51-3-6	1,784	2	11
Cost of repairs to Vaccine buildings for the year 1908-1909	1,301	1	7
Do. do. for 1909-1910			
Total cost of Stationery, etc. ...	3,320	7	2
Grand total, Vaccine Section ...	54,986	1	11

TABLE No. III.

Table showing the net Expenditure incurred during the year 1909-1910 in the King Institute of Preventive Medicine, Guindy, Vaccine Section.

Particulars.	Amount.			Total.		
	Rs.	A.	P.	Rs.	A.	P.
Gross expenditure as per Table No. II				54,986	1	11
Deduct—						
(1) Credits under sale of calves and miscellaneous receipts remitted to the treasury ...	4,697	4	11			
(2) Cost of vaccine supplied to private bodies during the year	3,471	6	0	8,168	10	11
Net expenditure ...				46,817	7	0

TABLE No. IV.

Table showing the Number of Cases for which vaccine was despatched to different bodies, private bodies being excluded, during the year 1909-1910.

Officers and others to whom Vaccine was despatched.	Number of cases for which Vaccine was despatched.	Rate per case.	Total cost.
			Rs. A. P.
1. Government officers including jails	36,880	4.688916 pies.	906 14 10
2. Agency Tracts	28,055		711 6 4
3. Military Department	15,032		867 1 7
4. District Boards	1,642,487		40,598 6 3
5. Municipalities	171,760		4,238 10 0
Total ...	1,894,204	...	46,817 7 0

* Includes Rs. 6-12-0 for registering vaccine packets.

† " 26-4-0 " "

‡ " 481-4-0 " "

§ " 44-0-0 " "

Rs. 558-4-0

N.B.—In calculating the cost per case of vaccine Rs. 558-4-0 have been deducted from Rs. 46,817-7-0 as the former represents registration charges and will be charged to the bodies concerned.

Another considerable item and one of a non-recurrent order, is half the charge for the new steam steriliser sanctioned in G.O., No. 1121-L., Mis., dated 13th September 1909. These various charges, which find no counterpart in last year's statement, amount in the aggregate to Rs. 10,805-15-4.

The main item under which savings have been effected which almost compensate for these increased charges is the purchase of calves. In spite of the fact that, during the first quarter of the year under report, there was an abnormally high mortality from sickness among the calves, far fewer animals have been required this year. The saving thus effected has been enhanced by a reduction in the cost of feeding, but, of course with fewer animals purchased, there have been fewer to sell and there has been a marked fall in the receipts under this heading.

6. Table V shows the percentage rate of success obtained by the Vaccinators arranged according to months. It will be seen that there has been a regrettable fall, amounting to 3.59 per cent. in the success rate obtained this year as

compared with that of last year. Does an examination of the figures give us any clue to the cause of this state of affairs, or are there any other circumstances to be considered which might be held to have exercised a contributory influence?

TABLE No. V.

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

Serial number.	Months.	Number successful.	Number unsuccessful.	Percentage of success.
1909.				
1	April	93,642	5,660	94.30
2	May	94,672	9,457	90.91
3	June	89,450	13,338	87.02
4	July	87,040	9,874	89.81
5	August	91,855	6,893	93.20
6	September	89,897	6,276	93.47
7	October	91,863	7,129	92.79
8	November	88,897	8,229	91.52
9	December	89,060	7,380	92.38
1910.				
10	January	86,099	6,445	93.03
11	February	76,947	7,749	90.85
12	March	65,869	5,790	91.92
	Total ...	1,045,291	94,000	91.74

Stored Vaccine.—For the first time this year stored vaccine has been employed to any extent, that is to say, it has been attempted to maintain a reserve of ready prepared vaccine which could be drawn upon to ensure regularity and promptness of despatch and to meet emergencies. The advantage to be derived from holding such a reserve may be gauged from the fact that, in addition to the punctual despatch of the regular supplies, in no single instance have extra indents, however large or however numerous, if they arrived in time to catch the post, had to be held over even for twenty-four hours. The importance of this in dealing with sudden outbreaks of small-pox will be easily realised. A further advantage of holding a reserve of vaccine has been emphasised this year by the local failure of the north-east monsoon. On several occasions and, for weeks at a time, it was impossible to obtain calves, and but for the reserve of vaccine, vaccination operations in the whole Presidency would have had to be suspended. A reserve of calves kept at the Institute can in no way replace such a reserve of prepared vaccine as, apart from the difficulty of feeding properly and keeping in good condition a large number of animals under such meteorological conditions as we have experienced this cool weather, there is always the possibility of epizootic disease, which may render the reserve of animals quite useless for vaccination, to be considered. Against the fact, that Madras is undeniably good as a distributing centre must be set the fact that it is not a good grazing country. So much then for the general considerations relating to stored vaccine. In table VI the monthly success rates for the two years 1908–1909 and 1909–1910 are contrasted, and the approximate period during which the vaccine was stored in the latter year is shown opposite each month.

TABLE No. VI.

Month.	Years.	Percentage of success.	Percentage of difference.	How long stored.
April	1908-09	98.71	2.41	1st half 2–3 weeks.
	1909-10	94.30		2nd half 3–5 weeks.
May	1908-09	93.49	2.58	1–3 weeks.
	1909-10	90.91		Occasionally 4.
June	1908-09	92.65	5.63	6–7 weeks.
	1909-10	87.02		Occasionally 4–10
July	1908-09	92.84	3.03	1st half 7–10 weeks.
	1909-10	89.81		Latterly 2–3 weeks.
August	1908-09	94.28	1.08	4–5 weeks.
	1909-10	93.2		4–6 "
September	1908-09	93.68	1.07	4–6 "
	1909-10	93.47		5–8 "
October	1908-09	93.86	5.04	7–8 "
	1909-10	92.79		8 weeks.
November	1908-09	96.58	5.24	8–9 weeks.
	1909-10	91.52		Occasionally 15.
December	1908-09	97.38	6.86	10–12 weeks.
	1909-10	92.36		Occasionally 4–6.
January	1908-09	98.27	4.75	10–11 weeks.
	1909-10	93.03		
February	1908-09	97.71		
	1909-10	90.85		
March	1908-09	96.67		
	1909-10	91.92		

It must be admitted that it is difficult to establish any definite relationship between the period of storage and the results obtained, from these figures. From September on to February, there is a tendency for the period of storage to lengthen, and the percentage of success to fall, but the figures do not vary in proportion, nor can such sudden variations as are seen from May to June, from October to November, or from February to March be explained by the respective periods of storage.

In table VII the percentage of success obtained are shown arranged according to districts. As usual The Nilgiris head the list, but climatic conditions probably contributed to this. Anantapur, Bellary and Tanjore have maintained their leading position very fairly well, while Coimbatore seems too well satisfied with its place at the bottom of the list.

TABLE No. VII.

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

1909–1910.

Serial number.	Districts.	Total successful.	Total unsuccessful.	Percentage of success.
1	Anantapur	24,239	801	98.80
2	Bellary	29,477	643	97.86
3	Chingleput	29,725	4,182	87.66
4	Coimbatore	43,010	9,973	81.17
5	Cuddapah	33,523	2,067	94.90
6	Ganjām	59,609	2,950	95.28
7	Gōdāvari	51,188	8,718	85.44
8	Guntūr	45,281	4,563	90.44
9	Kistna	62,407	8,267	88.30
10	Kurnool	26,360	1,263	95.42
11	Madura	62,449	6,313	90.81
12	Malabar	113,048	5,631	95.25
13	Nellore	26,834	4,639	85.26
14	Nilgiris, The	4,589	71	98.47
15	North Arcot	57,249	6,609	89.05
16	Salem	63,103	7,215	89.73
17	South Arcot	24,169	1,868	93.54
18	South Canara	41,679	2,526	94.28
19	Tanjore	67,284	2,680	96.16
20	Tinnevely	52,777	4,019	92.92
21	Trichinopoly	49,317	3,400	93.55
22	Visagapatam	72,974	5,802	92.68
	Total ...	1,045,291	94,000	91.74

Table VIII is compiled like table VI and shows in contrast the success rate of the two years 1908-1909 and 1909-1910 arranged according to districts. It will be noted that there is in all districts a decline in the success rate as compared with last year, but that this decline is a very variable one and cannot therefore be attributed to one common cause such as the quality of the vaccine. Discarding the Nilgiri district which, on account of climatic conditions, is not perhaps fairly comparable, we find that Bellary and Anantapur at the top of the list have a very small decline, while Coimbatore at the bottom of the list has all but the greatest. This would seem to indicate that the bad results of the present year are more due to local causes. Vizagapatam shows very disappointing results; from being very good last year it has come down to very indifferent this year. This result is very difficult to explain, more especially when considered along with the Ganjam figures which are good in both years. North Arcot is similar to Vizagapatam. Declines from good to moderate are seen in Cuddapah, Guntur, Malabar, South Arcot, South Canara, Tinnevely and Trichinopoly; from moderate to bad in Chingleput, Madura, Nellore and Salem; and from bad to very bad in Coimbatore and Gódvári.

TABLE No. VIII.

District.	Years.	Percentage of success.	Percentage of difference.
Anantapur	1908-09	97.54	-74
	1909-10	96.8	
Bellary	1908-09	98.61	-65
	1909-10	97.86	
Chingleput	1908-09	94.31	6.65
	1909-10	87.66	
Coimbatore	1908-09	89.67	8.40
	1909-10	81.27	
Cuddapah	1908-09	97.53	2.63
	1909-10	94.9	
Ganjam	1908-09	98.38	1.10
	1909-10	96.28	
Gódvári	1908-09	89.61	4.37
	1909-10	85.24	
Guntur	1908-09	96.66	4.82
	1909-10	90.84	
Kistna	1908-09	91.58	3.28
	1909-10	88.30	
Kurnool	1908-09	96.96	1.54
	1909-10	95.42	
Madura	1908-09	94.77	3.96
	1909-10	90.81	
Malabar	1908-09	97.84	2.59
	1909-10	95.25	
Nellore	1908-09	93.72	8.46
	1909-10	85.26	
Nilgiris	1908-09	99.01	.54
	1909-10	98.47	
North Arcot	1908-09	96.81	6.16
	1909-10	89.65	
Salem	1908-09	93.64	3.91
	1909-10	89.73	
South Arcot	1908-09	96.89	3.35
	1909-10	93.54	
South Canara	1908-09	97.83	3.55
	1909-10	94.28	
Tanjore	1908-09	97.18	1.00
	1909-10	96.16	
Tinnevely	1908-09	95.40	2.48
	1909-10	92.92	
Trichinopoly	1908-09	95.96	2.41
	1909-10	93.55	
Vizagapatam	1908-09	98.50	5.87
	1909-10	92.63	

The bad results obtained in June 1909 naturally attracted some attention, and steps were taken to investigate the cause and more especially to see whether this could be attributed to the quality of the vaccine as issued from the Institute. From the middle of July 1909 experimental vaccination of calves with the lymph as issued were carried out daily. These almost uniformly gave excellent vesicles and if a failure occurred it was associated with the failure of the scarifications carried out with the seed lymph, showing that the animal was not receptive.

Unfortunately with Madras City, taking only glycerinated lymph, no large number of comparable vaccinations carefully performed on the human subject was available as a check. The Natal Government Emigration Agency took a small quantity of lanolinated vaccine as issued to the districts. This supply was taken at intervals spread over the whole year and while most of the operations performed with it were re-vaccinations, one hundred and eighty-four primary operations were done and gave cent. per cent. of successful results. These facts, taken in conjunction with the very fair results got in some of the districts, seem to justify the following conclusions:—

(1) As compared with the year 1908-1909, the efficiency of the vaccine issued in 1909-1910 shows a slight impairment.

(2) The storing of the lymph has probably been a contributory factor to this impairment. It is hoped however with more complete cold storage arrangements that this effect will not recur. It has not been found possible to keep the temperature in the storage boxes consistently in the neighbourhood of zero centigrade.

(3) That local causes have in the main been responsible for the decline in the success rate.

In the year under report calves were brought to the Institute and purchased as required, there being no contractors willing to bind themselves to fixed conditions. The removal of done calves has also not been contracted for. A number have been sold by public auction and, at present, an arrangement is in force which has worked well for about six months. From the amount payable to each vendor, a sum is deducted sufficient to repurchase all the calves supplied by him at the uniform rate of Rs. 2-2-0 per head. As the calves are finished they are then removed by the vendor, and when all are removed, a receipt for the sale price is given to the vendor and the money is credited to Government.

During the first quarter of the year under report, there was a great deal of sickness among the calves, some of which was rinderpest. The epizootic was especially severe among the finished calves, of which, owing to the failure of the contractor to remove them, there was sometimes a large number in the Institute.

It may be noted here that contracts for the Institute run from 1st June to 31st May of the following year, so that for the first two months of this last official year, the removal of done calves was under contract. The overcrowding caused by the failure of the removal contractor intensified the epizootic. There were also some deaths due to piroplasmosis. The system of keeping a reserve of ready made vaccine rather than a reserve of calves for vaccination has resulted in a great reduction in the mortality among the calves in the Institute. Considerable periods now elapse without a single death occurring.

The immediate control of the technical work of the vaccine section was, until the middle of August 1909, in the hands of Military Assistant Surgeon H. C. Jackson, subsequently, and until the end of the official year, this control was exercised by the Assistant Director, Captain W. S. Patton, I.M.S. In several directions the work of the section has not been so heavy as last year, so there is perhaps no occasion to make special mention of any member of the staff. On the whole, however, the staff have acquitted themselves satisfactorily and the work has been well done.

F. MAITLAND GIBSON, M.B., B.Sc.,
Director.

PART II.

PROGRESS OF VACCINATION IN THE MADRAS
PRESIDENCY.

REPORT ON VACCINATION IN THE MADRAS PRESIDENCY FOR THE YEAR 1909-1910.

From Captain T. S. ROSS, I.M.S., Acting Inspector of Vaccination and Deputy Sanitary Commissioner for Madras, to the Sanitary Commissioner for Madras, No. 1530 V., dated 28th June 1910.

I have the honour to submit the Annual Report on Vaccination in the Madras Presidency for the year 1909-1910.

2. Captain Wm. A. Justice, I.M.S., Inspector of Vaccination and Deputy Sanitary Commissioner being on leave, Captain H. A. Dougan, I.M.S., held the acting appointment up to 16th March 1910, when he was transferred to Burmah. During the period of my deputation to Amritsar from 11th March to 6th May 1910, Captain R. B. B. Foster, I.M.S., acted from 17th March to 6th May 1910.

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.				
1908-1909	23	23	34	261	450	124	835
1909-1910	23	23	35	269	456	123	848

4. The Bhadrachalam range was newly constituted in the Gódvári district during the year and a Deputy Inspector of Vaccination for that range was appointed in January 1910.

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

				1908-1909.	1909-1910.
Primary vaccination	...	...	...	1,478,771	1,447,328
Re-vaccination	...	...	...	170,634	204,700
Total				1,649,405	1,652,028

Though there has been an increase of 2,623 cases on the whole as compared with last year, there has been a fall of 10,604 cases in the Local Fund areas which has been more than counterbalanced by an increase of 17,090 cases in Municipalities. The decrease in the Local Fund areas is due to a very large number of cases vaccinated in the Vizagapatam district in the previous year owing to the prevalence of small-pox therein.

6. The districts showing the largest increase are Kistna (8,906), South Canara (8,833), Ganjám (7,495), Guntúr (5,567), North Arcot (5,547), and Tinnevely (2,290). The largest decrease is shown in the following districts:—Vizagapatam (20,413), Cuddapah (8,456), Gódvári (5,741), Anantapur (5,605), South Arcot (5,005) and Coimbatore (3,226).

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

Vizagapatam.—A large number of cases was vaccinated last year owing to prevalence of small-pox.

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Re-vaccination	170,634	204,700
Total	1,649,405	1,652,028

Though there has been an increase of 2,623 cases on the whole as compared with last year, there has been a fall of 10,604 cases in the Local Fund areas which has been more than counterbalanced by an increase of 17,090 cases in Municipalities. The decrease in the Local Fund areas is due to a very large number of cases vaccinated in the Vizagapatam district in the previous year owing to the prevalence of small-pox therein.

6. The districts showing the largest increase are Kistna (8,906), South Canara (8,833), Ganjám (7,195), Guntúr (5,567), North Arcot (5,547), and Tinnevely (2,290). The largest decrease is shown in the following districts:—Vizagapatam (20,413), Cuddapah (8,456), Gódvári (5,741), Anantapur (5,605), South Arcot (5,005) and Coimbatore (3,226).

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

Vizagapatam.—A large number of cases was vaccinated last year owing to prevalence of small-pox.

Cuddapah.—Prevalence of malarial fever.

Gódvári.—Last year a special staff of five vaccinators was taken to the backward portion of the Rajahmundry range and a large number of unprotected cases was vaccinated. This system was not pursued this year.

Anantapur.—The number of vaccinators was reduced owing to the reorganization of the vaccination staff.

South Arcot.—In the trial scheme area the decrease was due to the discontinuance of serving individual notices on parents to produce their children for vaccination and in the non-trial scheme area, it was due to epidemics of cholera, chicken-pox, measles and fever.

Coimbatore.—Due to prevalence of plague and 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.	
	1908-1909.		1909-1910.		1908-1909.	1909-1910.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
1	2	3	4	5	6	7
Local Fund vaccinators ...	1,249,793	95,025	1,163,628	106,410	1,344,818	1,270,038
Government do. ...	11,503	843	11,758	888	12,346	12,646
Municipal do. ...	103,762	24,374	105,198	32,040	128,136	137,238
Cantonment do. ...	4,669	2,392	4,023	914	7,061	4,937
Dispensaries do. ...	43	7	18	3	60	21
Medical subordinates ...	383	5,460	214	5,389	5,843	5,603
Total ...	1,370,153	128,101	1,284,839	145,644	1,498,254	1,430,488

Establishment—cont.	Ratio per cent. of successful cases.				Ratio per cent. of total successful cases.	
	1908-1909.		1909-1910.		1908-1909.	1909-1910.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
	8	9	10	11	12	13
Local Fund vaccinators ...	95.3	83.4	91.7	79.0	91.4	90.4
Government do. ...	96.5	94.4	96.0	95.5	96.4	95.9
Municipal do. ...	97.3	77.0	96.1	72.7	92.7	89.4
Cantonment do. ...	97.5	61.6	97.7	60.3	81.5	87.6
Dispensaries do. ...	97.7	70.0	100.0	100.0	92.6	100.0
Medical subordinates ...	82.7	77.1	67.0	82.7	77.5	82.0
Total ...	95.5	81.4	92.0	77.6	91.1	90.3

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

8. The proportion of successful infantile vaccination calculated on every 100 births registered in the previous year showed a large increase of 19.1 in the Nilgiris district as compared with the previous year, while Guntúr showed the very large decrease of 41.5.

9. As regards Municipalities, 36 towns, as 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 showed the largest increase :—Tiruppattúr (22.7), Anantapur (22.5), and Kodaikámal (20.5).

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 cases.	
	1908-1909.		1909-1910.	
	Rs.	A. P.	Rs.	A. P.
Government establishment ...	4,209	11 11	4,620	5 2
Local Fund do. ...	2,69,876	13 3	2,73,544	15 5
Municipal do. ...	31,608	12 8	32,850	2 4
Cantonment do. ...	2,829	11 8	2,818	10 8
Total ...	*3,08,525	1 6	*3,13,834	1 7

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

11. 160,357 cases were vaccinated in the Municipalities during the year against 143,267 in the preceding year. The following towns exhibit the largest decrease :—Vizianagram (987), Palamcottah (410), Coimbatore (391) and Anakapalle (334). The decrease is attributed to the following causes :—prevalence of small-pox in the previous year, plague and illness of vaccinators.

The Municipalities showing the largest increase are Madras (6,317), Mangalore (5,354), Cocanada (1,741), and Madura (1,121).

12. The percentage of success achieved with the use of different kinds of vaccine in primary vaccinations (re-vaccination omitted) is compared in the following table :—

Number of cases excluding unknown.	Area.	Method.	Whence obtained.	Percentage of success.
1,281,505	Local Fund ...	Lanoline lymph ...	Supplied by the King Institute of Preventive Medicine.	91.7
† 85,215	Municipalities ...	Do. ...	Do.	95.4
‡ 24,200	Do. ...	Glycerinated lymph ...	Do.	98.7

† Includes cases in the Corporation of Madras.

‡ Cases performed in the Corporation of Madras.

The lanoline paste from the King Institute of Preventive Medicine, Guindy, was used in all the Local Fund districts and Municipalities. The percentage of success in the Local Fund area fell from 95.3 to 91.7 and in Municipalities from 96.6 to 95.4. 33,452 cases were also done in the Corporation of Madras with glycerinated lymph from the King Institute of Preventive Medicine which yielded a percentage of 98.7.

13. 15,463 deaths occurred from small-pox against 20,215 last year. Deputy Inspectors were directed to visit the infected villages and to vaccinate the unprotected cases therein.

14. The diagrams attached hereto show the porportion of population protected in the districts and Municipalities.

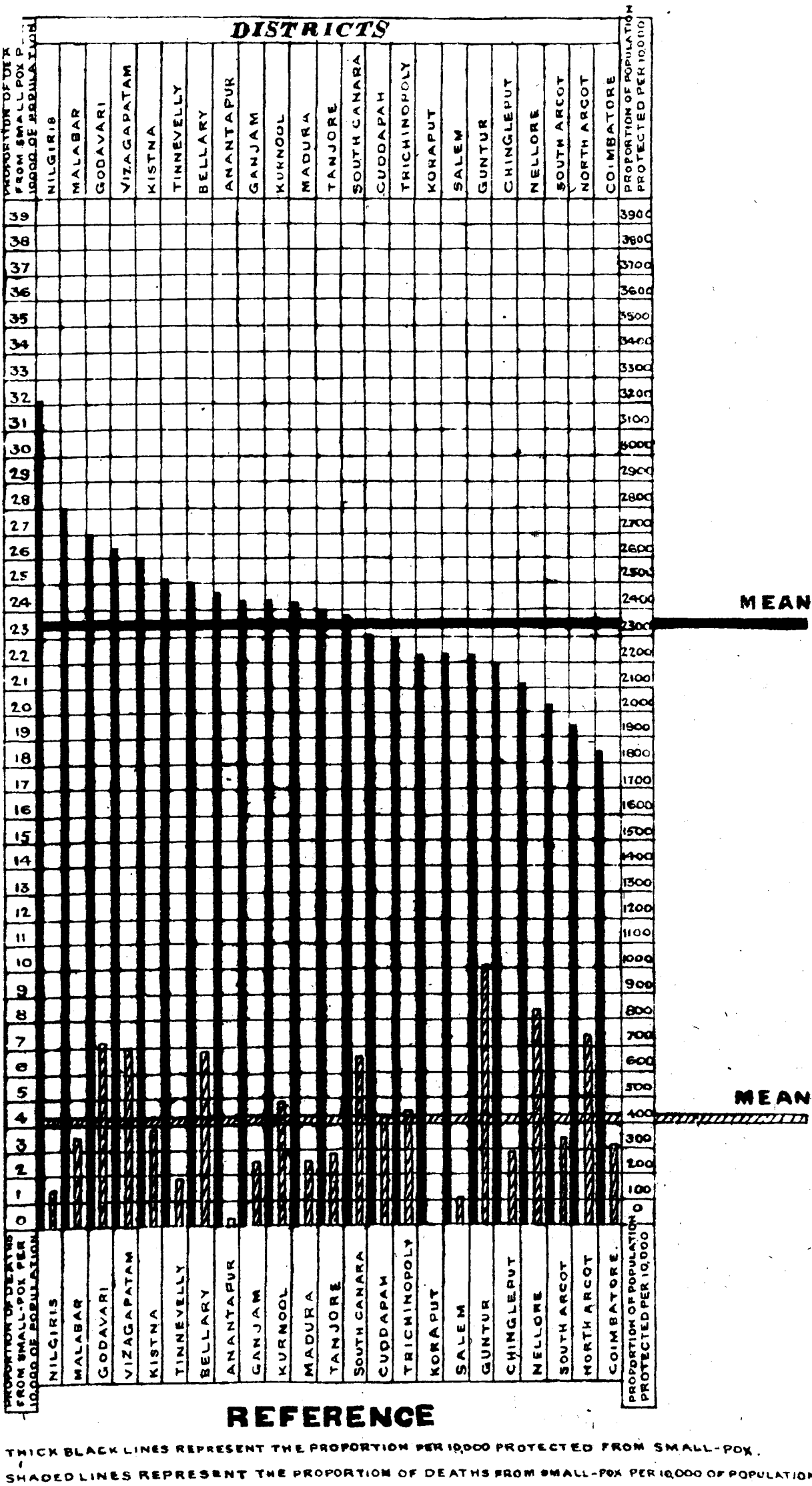
15. The Deputy Inspectors of Vaccination of the following ranges failed to verify 50 per cent. of the cases vaccinated in their ranges. Calicut (49.8), Vizagapatam (48.6), Malapuram (46.1), Palghat (42.9) and Ganjám Hill Tracts (39.5). The explanations offered by these Deputy Inspectors of Vaccination, with the exception of Ganjám Hill Tracts, are satisfactory. Further explanation has been called for from this Deputy Inspector and action will be taken on receipt of the same.

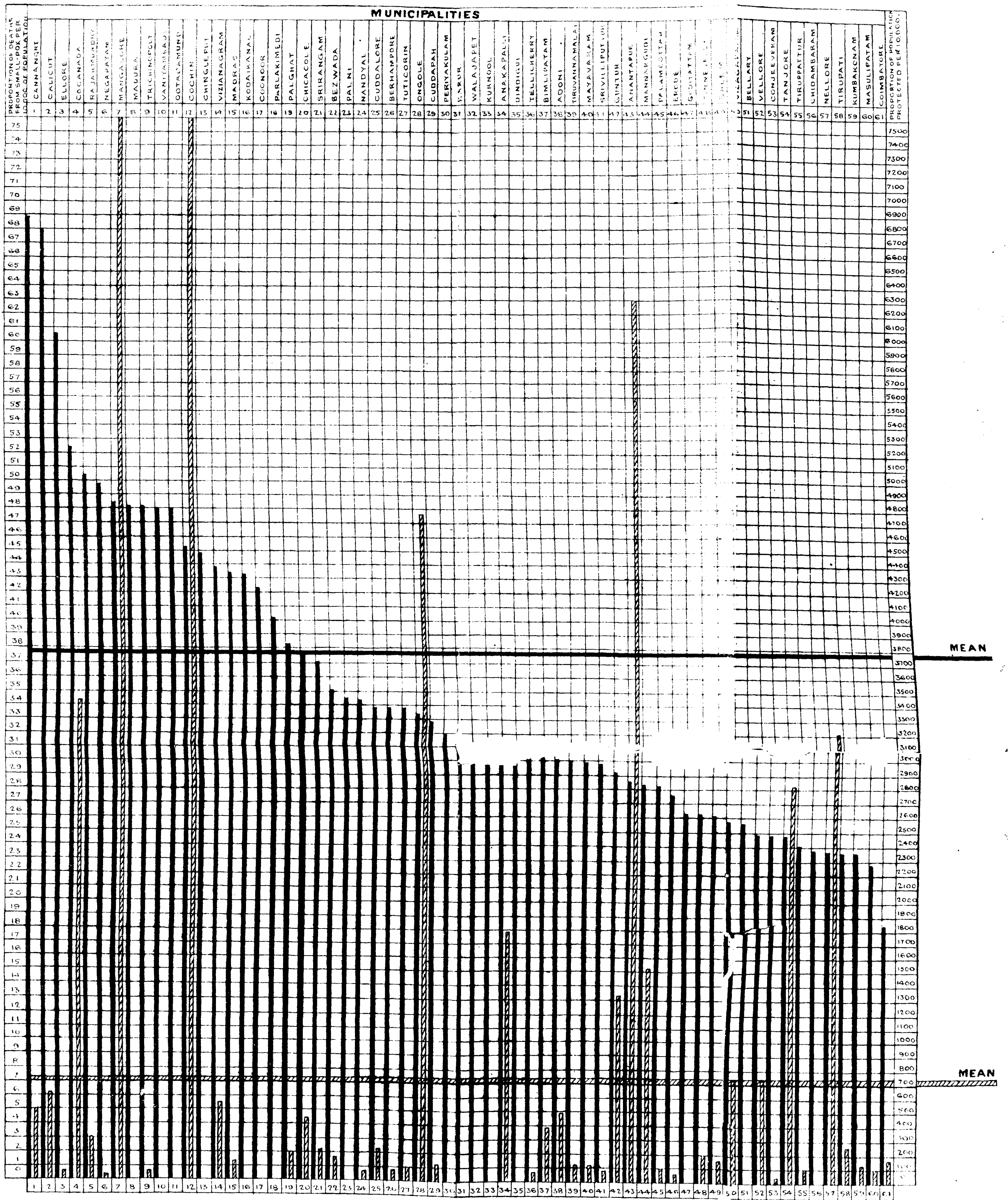
16. The total number of Deputy Inspectors of Vaccination on the list is 79 against 78 last year, one additional Deputy Inspector having been appointed for the Gódvári district. Of these, 67 are Certificated Sanitary Inspectors. One Deputy Inspector retired from service; 10 were fined for carelessness; 3 died.

17. The Vizianagram range having been vacant, the actual number of Deputy Inspectors on duty was 78. Eight of these being on probation are not provided with service registers. Of the remaining 70 Deputy Inspectors of Vaccination the service registers of 54 Deputies have been verified up to date. The verification of the services of other Deputies will be completed shortly as soon as replies from certain District Medical and Sanitary Officers are received.

I have the honour to be,
Sir,
Your most obedient servant,

T. S. ROSS, Captain, I.M.S.,
*Ag. Inspector of Vaccination and Deputy Sanitary
Commissioner for Madras.*





REFERENCE

THICK BLACK LINES REPRESENT THE PROPORTION OF POPULATION PER 10,000 PROTECTED FROM SMALL-POX

SHADED LINES REPRESENT THE PROPORTION OF DEATHS FROM SMALL-POX PER 10,000 OF POPULATION

N.B. SHADED LINE IN COLUMN 7 REPRESENTS 106.8 DEATHS IN MANGALORE

SHADED LINE IN COLUMN 12 REPRESENTS 95.5 DEATHS IN COCHIN

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.	Total number of operations.	Primary Under 1 year.
1	2	3	4	5	6	7			8	9	10
						Male.	Females.	Total.			
1	Anantapur.	Anantapur circle	454,372	141	8	7,711	7,080	14,791	1,849	14,355	8,987
2		Pemakonda do.	325,944			5,117	4,309	9,426	1,726	9,981	5,415
		Total of district	780,316			13,158	11,389	25,147	4,796	24,336	13,532
3	Bellary.	Bellary circle	858,551	151	11	8,420	7,711	16,131	1,466	16,568	10,760
4		Hospet do.				7,597	6,980	14,577	1,214	13,961	10,330
		Total of district				16,017	14,691	30,708	1,335	30,529	21,090
5	Chingleput.	Chingleput circle	1,255,407	408	4	9,246	9,874	19,120	4,780	18,088	8,588
6		Saikalpet do.				8,979	7,604	16,583	4,146	15,091	9,282
7		Ponnur do.				8,335	7,901	16,236	4,059	15,030	8,378
		Total of district				26,560	25,379	51,939	4,328	48,209	26,248
8	Coimbatore.	North Coimbatore circle.	2,120,374	270	8	8,172	7,079	15,251	1,906	13,080	6,449
9		South do.				8,106	7,639	15,805	1,756	15,404	8,351
10		East do.				9,739	9,298	19,037	1,586	18,558	8,093
11		Central do.				7,736	7,547	15,283	1,698	15,329	7,550
		Total of district				33,753	31,623	65,376	4,720	63,671	30,403
12	Cuddapah.	Cuddapah circle	1,274,835	146	12	7,775	6,590	14,365	1,197	14,112	6,942
13		Madanapalle do.				9,649	9,114	18,784	1,174	18,127	10,541
14		Siddavaram do.				5,663	4,695	10,358	1,295	10,248	4,111
		Total of district				23,078	20,429	43,507	1,208	42,867	21,894
15	Gangam.	Becharu circle	1,948,995	233	8	6,835	6,310	13,145	1,543	12,838	4,772
16		Chilcote do.				7,515	6,771	14,286	1,587	12,514	5,448
17		Gangam hills do.				6,315	5,895	12,210	793	12,134	2,519
18	Parlakimidi.	Askani circle	1,948,995	233	7	5,591	4,670	10,261	1,456	9,890	1,841
19		Parlakimidi circle				11,106	6,700	17,806	2,226	15,521	2,811
20		Purnachetlagiri circle				5,973	5,404	11,377	1,625	11,313	3,908
		Total of district				43,335	35,750	79,085	1,468	68,210	20,999
21	Ghazipur.	Ghazipur circle	1,361,457	274	7	6,457	5,756	12,213	1,715	11,132	2,907
22		Rajmahal do.				11,105	10,731	21,836	2,426	21,487	3,455
23		Polavaram do.				4,828	4,774	9,602	1,260	8,880	2,546
24	Rajahmundry.	Rajahmundry circle	1,361,457	274	10	8,740	8,429	17,169	1,717	15,242	7,813
25		Rajahmundry do.				774	626	1,400	466	1,208	127
		Total of district				31,904	30,316	62,220	1,681	60,919	16,334
26	Kistna.	Kistna circle	1,546,886	243	14	13,089	12,950	26,039	1,859	26,460	9,293
27		Masulipatnam circle				12,801	11,866	24,667	1,897	24,141	7,989
28		Narasapur do.				11,333	10,928	22,261	1,712	22,742	7,063
		Total of district				37,223	35,744	72,967	1,824	73,316	24,255

DEPARTMENT.

Madras Presidency during the official year 1909-1910.

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.	
Successful.														
1 and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vaccination.	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
5,563	13,871	23	598	553	21	967	958	317	0.1	3.5	...	...	...	...
3,820	9,559	62	424	335	65	963	933	304	0.6	15.3	...	...	...	...
9,383	23,430	85	1,022	888	86	966	918	312	0.3	8.4	28,875	37.0	160	0.2
4,858	16,190	77	42	40	...	981	952	357	0.4	...	...	...	...	...
2,420	13,845	7	616	609	2	992	991	...	0.05	0.3	...	...	...	...
7,278	30,035	84	658	649	2	986	989	357	0.3	0.3	31,308	36.5	11,305	1.3
4,559	14,090	1,398	1,491	961	185	814	736	...	7.7	12.4	...	...	...	...
2,602	12,258	1,194	1,977	963	213	882	546	324	7.9	10.8	...	...	...	...
2,737	11,808	1,382	1,432	631	168	865	499	...	9.2	13.6	...	...	...	...
9,808	38,156	3,974	4,900	2,555	566	862	589	324	8.2	11.5	39,079	31.1	437	0.3
3,221	10,031	1,291	1,991	930	341	790	563	...	9.2	17.1	...	...	...	...
4,605	13,269	784	690	392	109	900	674	233	5.0	15.7	...	...	...	...
4,437	12,871	1,985	671	296	156	758	574	...	10.4	23.2	...	...	...	...
3,726	11,517	1,163	463	190	177	813	664	...	7.5	38.2	...	...	...	...
15,983	47,688	5,224	3,815	1,808	783	816	596	233	8.2	20.5	56,409	26.6	1,035	0.5
5,194	13,614	138	392	350	5	953	904	...	0.9	1.2	...	...	...	...
5,822	17,208	6	954	727	38	949	793	326	0.03	3.9	...	...	...	...
3,729	9,432	200	339	268	10	934	814	...	1.9	2.9	...	...	...	...
14,545	40,284	344	1,685	1,345	53	947	824	326	0.8	3.1	44,211	34.7	644	0.5
6,385	11,300	409	430	366	44	957	918	...	3.1	10.2	...	...	...	...
5,174	11,672	308	1,914	1,666	108	953	922	...	2.4	5.6	...	...	...	...
6,034	11,449	197	918	873	3	959	654	...	1.6	0.8	...	...	...	...
6,363	8,915	440	433	414	7	943	971	...	4.4	1.6	...	...	...	...
2,211	8,828	239	8,452	7,583	298	950	929	...	2.4	3.5	...	...	...	...
6,042	10,545	403	201	155	29	966	901	...	3.6	14.4	...	...	...	...
32,509	63,309	1,987	12,348	11,057	489	955	932	381	2.9	4.0	67,623	34.7	242	0.1
5,271	8,921	874	1,294	147	256	869	430	...	7.8	19.7	...	...	...	...
10,769	16,799	1,291	529	146	173	831	410	...	6.0	32.7	...	...	...	...
3,933	7,527	467	391	634	108	894	718	...	5.2	10.9	...	...	...	...
5,177	14,294	1,051	831	422	163	831	631	...	5.7	19.6	...	...	...	...
571	880	138	214	105	50	822	610	...	11.4	23.3	...	...	...	...
25,721	48,421	3,821	3,859	1,754	750	847	564	361	6.3	19.4	48,107	35.3	510	0.4
11,229	22,392	718	813	560	62	869	745	...	2.7	7.6	...	...	...	...
11,248	21,833	479	1,315	1,153	37	922	901	...	1.9	2.8	...	...	...	...
10,330	19,704	773	252	137	34	851	628	...	3.4	13.5	...	...	...	...
32,907	62,929	1,970	2,380	1,850	133	881	823	393	2.6	5.6	62,820	38.1	510	0.3

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.	Total number of operations.	Primary	
						Males.	Females.	Total.			Under 1 year.	
1	2	3	4	5	6	7			8	9	10	
29	Guntūr.	Guntūr circle ...	1,446,938	...	{ 11	12,543	10,952	23,495	2,136	21,326	10,412	
30		Narasaraopet circle ...				10	8,161	7,843	16,007	1,601	15,803	7,548
31		Bāpatla do. ...				11	12,685	11,377	24,012	2,183	21,970	8,333
		Total of district ...				32	33,342	30,172	63,514	1,985	59,049	26,293
32	Kurnool.	Cumbum circle ...	863,806	114	{ 12	7,668	6,463	14,131	1,178	13,153	6,972	
33		Kurnool do. ...				12	9,127	7,970	17,097	1,425	17,027	8,419
		Total of district ...				24	16,795	14,433	31,228	1,301	30,180	15,391
34	Madura.	Dindigul circle ...	2,663,074	307	{ 4	10,220	9,957	20,177	5,044	20,441	11,430	
35		Madura do. ...				4	11,479	9,756	21,235	5,309	20,056	8,313
36		Paramagudi do. ...				13	11,306	10,462	21,768	1,674	21,519	7,561
37		Tirupattūr do. ...				16	12,364	11,354	23,718	1,482	22,856	7,781
38		Periyakulam do. ...				5	11,943	11,068	23,011	4,602	22,732	11,716
		Total of district ...	2,663,074	307	42	57,312	52,597	109,909	2,617	107,604	46,804	
39	Malabar.	Tellicherry circle ...	2,594,155	451	{ 11	13,212	11,992	25,204	2,291	24,404	2,731	
40		Calicut do. ...				10	14,010	13,426	27,436	2,744	25,742	2,992
41		Palghat do. ...				12	20,871	17,915	38,786	3,232	37,458	6,174
42		Malapuram do. ...				12	19,433	17,168	36,601	3,050	35,993	2,580
		Total of district ...	2,594,155	451	45	67,526	60,501	128,027	2,845	123,597	14,477	
43	Nellore.	Central circle (Kāvali). ...	1,240,775	166	{ 9	8,016	7,369	15,385	1,709	14,562	4,773	
44		Southern do. (Gudur) ...				7	6,360	5,664	12,024	1,718	20,696	4,250
45		Northern do. (Kanigiri). ...				8	7,893	6,960	14,853	1,794	14,295	4,478
		Total of district ...	1,240,775	166	24	21,769	19,993	41,762	1,740	39,553	13,501	
46	Nilgiris.	Nilgiri circle ...	84,316	90	4	2,423	2,125	4,548	1,137	4,271	1,422	
		Total of district ...	84,316	90	4	2,423	2,125	4,548	1,137	4,271	1,422	
47	North Arcot.	Chittoor circle ...	2,117,288	288	{ 9	7,935	6,823	14,758	1,640	13,518	6,093	
48		Vellore do. ...				3	9,010	8,911	17,921	5,973	12,376	6,487
49		Karvetnagar do. ...				9	7,577	7,370	14,947	1,661	14,504	5,900
50		Ranipet do. ...				3	9,435	7,858	17,293	5,764	13,808	6,809
51		Polar do. ...				3	9,371	8,005	17,376	5,782	15,648	6,189
		Total of district ...	2,117,288	288	27	43,328	38,067	82,295	3,048	69,944	30,378	
52	Salem.	Tirupattūr circle ...	2,103,659	280	{ 7	7,536	8,041	15,577	2,225	11,270	6,054	
53		Salem do. ...				9	9,052	8,710	17,762	1,974	17,698	7,994
54		Nāmakkal do. ...				12	15,663	15,058	30,721	2,560	31,492	13,010
55		Hosūr do. ...				7	8,432	7,932	16,364	2,338	15,146	8,443
		Total of district ...	2,103,659	280	35	40,683	39,741	80,424	2,298	75,606	35,501	
56	South Arcot.	Cuddalore circle ...	2,260,700	435	{ 4	7,244	7,327	14,571	3,643	14,879	8,114	
57		Vridhachalam circle ...				7	7,905	7,732	15,637	2,234	15,673	6,709
58		Tirukoyilūr circle ...				8	8,552	8,340	16,892	2,112	16,926	6,821
59		Tindivanam do. ...				7	7,128	6,734	13,862	1,980	13,881	5,106
60		Villupuram do. ...				4	9,723	9,287	19,010	4,752	18,945	10,064
		Total of district ...	2,260,700	435	30	40,553	39,420	79,972	2,665	80,307	36,814	

DEPARTMENT.

Madras Presidency during the official year 1909-1910—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.	
Successful.									Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
One and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.							
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
7,901	20,117	511	2,870	2,788	42	96.6	98.5	41.0	2.3	1.4	...	...	...	...
4,891	13,481	170	1,412	1,162	53	86.2	85.5		1.0	3.7				
9,109	19,600	410	2,680	2,216	106	90.9	86.0		1.8	3.9				
21,901	53,198	1,091	6,962	6,166	201	91.7	91.1	41.0	1.8	2.9	52,612	36.4	270	0.2
4,833	12,667	85	1,013	948	11	96.9	94.6	34.4	0.6	1.0	...	...	...	...
6,584	15,812	369	325	261	32	94.9	89.0		2.1	9.8				
11,417	28,479	454	1,338	1,209	43	95.8	96.7	34.4	1.5	3.2	30,691	35.5	283	0.3
4,009	15,961	895	877	221	41	81.6	26.4	35.5	4.3	4.6	...	...	...	...
4,717	13,973	3,564	1,196	505	202	84.7	50.8		17.7	16.8				
11,558	20,825	147	268	195	32	97.4	82.6		0.6	11.9				
12,112	22,501	129	911	812	27	99.0	91.8		0.5	2.9				
5,688	18,065	1,700	600	280	91	85.9	55.0		7.5	15.2				
37,984	91,325	6,425	3,852	2,013	393	90.2	58.1	35.5	6.0	10.2	95,916	38.0	1,739	0.7
13,096	22,893	281	800	467	35	94.9	61.0	45.4	1.1	4.3	...	...	...	...
13,171	24,545	349	1,722	1,156	61	96.6	69.5		1.3	3.5				
16,936	34,673	924	1,558	837	91	94.9	57.0		2.4	5.8				
16,259	32,903	894	727	825	58	93.7	48.5		2.4	7.9				
59,462	116,014	2,448	4,807	2,785	245	94.9	81.0	45.4	2.0	5.0	109,892	42.4	1,321	0.5
5,905	11,874	902	1,174	579	126	86.9	55.2	27.5	6.1	10.7	...	...	...	...
3,488	8,835	801	1,730	957	298	87.5	66.8		5.6	17.2				
5,709	11,418	571	1,000	510	118	83.1	57.4		3.9	11.3				
15,102	32,127	2,074	3,904	2,046	537	85.7	60.7	27.5	5.2	13.8	38,659	31.2	798	0.6
1,905	4,200	...	279	251	...	98.3	89.9	52.8	...	...	...	...	...	...
1,905	4,200	...	279	251	...	98.3	89.9		...	...				
5,923	12,479	430	1,336	503	296	95.3	48.1	31.0	3.1	21.3	...	...	...	...
3,386	10,473	786	5,627	2,829	510	90.3	55.2		6.3	9.0				
6,944	13,399	148	440	329	43	92.7	37.6		1.0	9.7				
3,712	11,140	726	3,961	1,635	394	85.1	45.8		5.2	9.9				
5,818	12,003	1,483	2,284	954	514	84.7	53.8		9.5	22.5				
25,783	59,491	3,573	13,898	6,150	1,757	89.6	51.5	31.0	5.1	12.8	60,091	28.4	3,284	1.6
3,282	10,654	161	4,444	3,836	146	95.9	89.2	34.3	1.4	3.2	...	...	...	...
5,818	14,518	1,188	1,090	765	172	87.9	83.3		6.7	15.7				
11,440	25,913	1,140	1,043	740	178	85.3	85.5		3.6	17.0				
5,274	14,220	141	1,728	1,480	78	94.7	89.6		0.9	4.5				
25,814	65,303	2,628	8,305	6,821	574	89.4	...	3.5	6.9	67,928	32.3	743	0.4	...
2,058	10,394	3,503	251	108	90	97.3	87.0	30.9	1.3	35.8	...	...	...	...
7,449	15,080	276	186	95	27	97.8	57.1		1.3	9.8				
1,186	15,955	297	83	67	8	96.8	89.3		1.6	2.6				
7,148	12,747	419	120	69	46	94.6	90.4		3.0	38.8				
4,885	15,293	1,883	125	52	4	89.6	65.8		9.9	36.8				
33,676	60,449	6,363	715	391	21	98.9	78.5	30.9	7.9	30.9	65,059	28.6	3,044	1.3

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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.			Average number of persons vaccinated by each vaccinator.	Primary	
										Total number of operations.	Under 1 year.
1	2	3	4	5	6	7			8	9	10
						Males.	Females.	Total.			
61	South Canara.	Northern circle ...	1,086,997	271	8	9,721	8,664	18,385	2,298	14,578	3,711
62		Central do. ...			8	8,634	7,857	16,491	2,061	15,045	5,591
63		Southern do. ...			9	9,295	8,670	17,965	1,996	15,047	4,569
		Total of district ...	1,086,997	271	25	27,650	25,191	52,841	2,114	44,670	13,871
64	Tanjore.	Tanjore circle ...	2,025,571	550	9	9,489	9,045	18,534	2,059	18,343	7,290
65		Negapatam do. ...			8	9,965	9,786	19,751	2,469	18,403	9,140
66		Pattukkottai do. ...			9	8,864	7,652	16,516	1,835	15,369	5,448
67		Kumbakonam do. ...			9	9,403	9,124	18,527	2,058	17,462	7,971
		Total of district ...	2,025,571	550	35	37,721	35,607	73,328	2,095	69,577	29,849
68	Tinnevely.	Srivilliputtur circle ...	1,925,163	358	8	9,850	9,300	19,150	2,394	18,967	12,097
69		Tenkasi do. ...			8	10,892	9,644	20,536	2,567	20,116	11,309
70		Srivaikuntam do. ...			8	10,928	9,773	20,701	2,588	19,464	11,739
71		Ottapidaram do. ...			7	8,066	7,297	15,363	2,193	15,260	7,571
		Total of district ...	1,925,163	358	31	39,726	36,014	75,740	2,443	73,827	42,716
72	Trichinopoly.	Trichinopoly circle ...	812,045	371	12	13,974	13,703	27,677	2,306	27,849	14,244
73		Ariyalur do. ...	504,965	354	10	9,974	9,539	19,513	1,951	19,559	7,683
		Total of district ...	1,317,010	364	22	23,948	23,242	47,190	2,145	47,408	21,927
74	Vizagapatam.	Gunapur circle ...	2,374,340	165	9	4,655	4,128	8,783	976	8,241	1,168
75		Vizagapatam circle ...			12	18,989	21,586	40,575	3,381	22,277	5,155
		Government vaccinators (Gudem hills) ...			1	182	147	329	329	314	20
76		Vizianagram circle ...			13	14,240	16,358	30,598	2,354	17,504	4,722
77		Parvatipuram do. ...			12	18,729	19,179	37,908	3,159	19,449	6,869
		Total of district ...	2,374,340	165	47	56,795	61,398	118,193	2,515	67,785	17,954
78	Koraput.	Jeypore circle ...	455,078	...	9	8,857	7,667	16,524	1,836	14,693	2,461
79		Koraput do. ...	...	...	8	6,834	5,614	12,448	1,556	11,494	1,876
		Total of district ...	455,078	...	17	15,691	13,281	28,972	1,704	26,187	4,337
		Total of circles and districts ...	35,805,691	253	695	750,289	698,603	1,448,892	2,084	1,331,762	527,190
1	Military Cantonments.	Bangalore ...	89,599	6,929	2	809	257	1,066	533	574	447
2		Secunderabad ...	91,114	4,795	4	2,600	1,920	4,520	1,130	3,560	2,688
		Total of cantonments ...	180,713	5,660	6	3,409	2,177	5,586	931	4,134	3,135
		* Medical Subordinates.	...	...	...	7,030	120	7,150	...	369	3

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

DEPARTMENT.

Madras Presidency during the official year 1909-1910—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.								
Successful.		Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.							
Over 1 and under 6 years.	Total of all ages.																				
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25							
7,603 7,023 6,148	13,858 13,850 13,679	208 286 282	8,893 1,671 3,089	2,359 1,151 1,961	451 56 229	96.4 93.8 92.6	68.5 71.2 68.5	43.1	{ 1.4 1.9 1.8	11.6 3.3 7.4	...	...	...	...							
20,774	41,387	776	8,653	5,471	736	94.2	69.1								43.1	1.7	8.5	37,398	34.4	230	0.2
8,519 7,006 7,331 8,024	17,489 17,156 14,685 16,967	493 192 178 201	348 1,741 1,230 1,161	293 1,420 1,169 1,081	36 122 22 53	97.9 94.2 96.6 98.2	93.9 87.7 96.7 97.5								34.6	{ 2.6 1.0 1.1 1.1	10.3 7.0 1.7 4.5	...	...	...	...
30,880	66,297	1,064	4,480	3,963	233	96.7	93.3	34.6	1.5	5.2	69,330	34.2	1,082	0.5							
4,190 5,476 6,040 6,348	17,216 18,004 18,700 14,467	317 475 200 50	688 1,154 1,448 567	582 1,025 1,402 549	61 33 24 4	92.2 91.7 97.0 95.0	92.8 91.4 98.4 97.5	37.4	{ 1.6 2.3 1.0 0.3	8.8 2.8 1.6 0.7	...	...	...	...							
22,054	68,377	1,042	3,857	3,558	122	93.9	95.2								37.4	1.4	3.2	69,573	36.1	321	0.2
9,291 8,833	25,144 17,242	894 1,046	329 496	219 323	62 83	93.2 93.1	82.0 78.2								31.2 34.7	3.2 5.3	18.8 16.7	}	...	...	...
18,124	42,386	1,940	825	542	145	93.2	79.7	32.6	4.0	17.6	44,730	33.9	248	0.2							
4,879 9,608	7,568 18,361	327 1,332	690 18,782	592 12,477	56 2,133	95.6 87.6	93.3 74.9	42.9	{ 3.9 0.6 0.3 3.4 1.3	8.1 11.4 ... 3.9 1.9	}	...	...	...							
275 7,105 6,445	309 15,454 18,518	1 601 264	15 13,300 18,528	15 11,439 17,055	... 531 353	98.7 91.4 96.5	100.0 89.5 93.8								42.9	3.7	6.0	89,772	37.8	...	...
28,812	60,210	2,525	51,315	41,578	3,073	92.2	86.1								42.9	3.7	6.0	89,772	37.8	...	...
7,961 4,611	13,916 9,975	144 216	2,173 1,097	1,824 624	102 25	95.6 88.4	88.0 58.3	57.9	{ 0.9 1.9	4.6 2.2	}	...	...	...							
12,572	23,891	360	3,270	2,448	127	92.5	77.8								57.9	1.4	3.9	25,066	55.0	849	0.3
502,890	1,175,386	50,257	146,927	107,298	11,265	91.7	79.0								35.8	3.8	7.7	1,228,956	34.3	18,902	0.5
90	537	...	688	529	...	93.5	76.8	11.9	...	...	1,283	14.4	56	0.6							
644	3,486	18	964	385	136	98.4	46.4								42.5	0.5	14.1	4,910	53.9	2	0.02
734	4,023	18	1,652	914	186	97.7	60.2								27.3	0.4	8.2	6,193	34.3	58	0.08
3	214	50	6,806	5,389	290	67.0	82.7	...	13.5	4.2	...	...	...	...							

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		
							Males.	Females.		Total.	Total number of operations.	Under 1 year.
1	2	3	4	5	6	7	8	9	10			
						Males.	Females.	Total.				
1	Municipalities.	Adóni	30,416	15,208	2	739	606	1,345	672	1,296	851	
2		Anantapur	7,938	7,938	1	424	233	657	657	485	214	
3		Anakápallo	18,539	1,546	1	509	410	919	919	680	549	
4		Bellary	58,247	2,240	3	1,828	1,218	3,046	1,016	2,445	1,951	
5		Berhampur	25,729	6,432	1	875	614	1,489	1,489	866	771	
6		Bezawada	24,224	4,609	1	768	582	1,350	1,350	1,162	893	
7		Bimlipatam	10,212	2,446	1	251	259	510	510	297	228	
8		Calicut	76,981	5,921	4	3,908	2,496	6,399	1,599	4,564	2,864	
9		Cannanore	27,811	4,795	1	1,405	793	2,198	2,198	1,385	734	
10		Chicacole	18,196	6,065	1	503	555	1,058	1,058	525	418	
11		Chidambaram	19,909	9,954	1	483	281	744	744	667	483	
12		Chingleput	10,551	8,443	1	504	251	755	755	455	400	
13		Cochin	19,274	22,027	1	1,459	974	2,433	2,433	1,156	682	
14		Cocanada	48,096	6,012	2	4,921	1,654	6,575	3,287	2,433	1,299	
15		Coimbatore	53,080	17,693	2	769	354	1,123	561	711	388	
16		Conjeeveram	46,164	11,535	2	945	805	1,750	875	1,647	1,245	
17		Coonoor	8,525	947	1	239	133	372	372	329	203	
18		Cuddalore	52,216	3,926	2	1,708	1,243	2,951	1,475	2,563	1,862	
19		Cuddapah	16,432	842	1	905	225	1,130	1,130	506	399	
20		Dindigul	25,182	8,394	1	952	536	1,488	1,488	1,005	819	
21		Ellore	33,521	11,174	2	1,481	1,032	2,513	1,256	2,316	1,296	
22		Erode	15,529	15,529	1	513	291	829	829	630	492	
23		Gudiyáttam	21,335	2,665	1	548	312	860	860	783	540	
24		Guntur	30,833	1,719	1	767	535	1,302	1,302	1,033	833	
25		Karur	12,769	12,769	1	425	286	711	711	620	593	
26		Kodaikánal	1,912	161	...	66	48	...	114	109	99	
27		Kumbakónam	59,673	9,945	3	1,176	964	2,140	713	1,984	1,473	
28		Kurnool	25,376	5,147	1	986	450	1,436	1,436	935	643	
29		Madras	509,346	18,864	23	23,683	15,357	39,020	1,596	24,801	19,201	
30		Madura	105,984	17,664	4	5,133	4,220	9,453	2,363	8,763	6,752	
31		Mannárgudi	20,449	3,408	1	541	366	907	907	825	673	
32		Mangalore	44,108	9,341	2	4,581	3,346	7,927	3,963	3,358	1,547	
33		Masulipatam	39,507	1,796	1	887	524	1,411	1,411	1,087	910	
34		Máravaram	24,276	8,092	1	811	371	1,182	1,182	752	573	
35		Nandyal	15,137	3,027	1	496	224	720	720	597	419	
36		Negapatam	57,190	8,798	3	2,609	1,405	4,074	1,358	3,049	1,939	
37		Nellore	32,040	1,996	2	1,198	694	1,892	946	930	585	
38		Onzole	12,864	3,216	1	843	536	1,379	1,379	471	320	
39		Ootacamund	18,596	1,690	2	916	466	1,382	691	824	711	
40		Palamcottah	39,545	9,886	2	881	523	1,404	702	1,158	818	
41		Palghat	44,177	3,681	2	1,156	1,168	2,324	1,162	2,012	1,300	
42		Parlákimedi	17,336	52,008	1	740	303	1,043	1,043	860	498	
43		Periyakulam	17,960	23,927	1	473	361	834	834	735	644	
44		Palni	17,168	9,810	1	680	353	1,033	1,033	690	568	
45		Rajahmundry	36,408	3,034	2	2,456	895	3,351	1,675	1,700	1,311	
46		Salem	70,621	6,900	2	1,726	1,272	2,998	1,499	2,580	2,242	
47		Srirangam	23,039	3,291	1	559	594	1,153	1,153	1,125	646	
48		Srivilliputtár	26,382	21,105	1	555	571	1,126	1,126	1,119	1,007	
49		Tanjore	57,870	7,716	2	1,510	1,018	2,528	1,264	2,151	1,658	
50		Tellicherry	27,883	11,153	2	908	710	1,618	809	1,002	795	

DEPARTMENT.

Madras Presidency during the official year 1909-1910—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.	
Successful.		Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccinations.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
Over 1 and under 6 years.	Total of all ages.													
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
117	969	204	173	134	27	88.7	91.8	36.2	15.7	15.6	1,312	43.1	35	1.1
149	381	22	172	76	16	82.2	48.7	57.5	4.5	9.3	312	39.3	5	0.6
56	645	...	254	134	15	94.8	56.0	42.0	...	5.9	819	44.2	2	0.1
306	2,269	...	646	375	...	92.8	58.0	45.3	...	...	2,062	35.4	81	1.4
64	835	...	640	639	1	96.4	100.0	57.2	...	0.2	1,213	47.1	2	0.08
184	1,121	7	200	121	32	97.9	72.0	51.6	0.6	16.0	1,217	50.2	2	0.08
43	287	1	213	180	1	96.9	84.9	45.7	0.3	0.5	433	42.4	1	0.09
945	4,465	2	1,845	1,741	40	97.8	96.4	80.6	0.04	2.2	7,857	102.0	2	0.03
425	1,213	88	959	455	230	93.5	62.4	59.9	6.4	24.0	2,869	103.2	3	0.1
76	514	...	547	528	...	97.9	98.5	57.2	...	...	977	53.7	3	0.2
46	581	41	100	49	26	92.8	68.2	31.6	6.1	26.0	695	34.9	1	0.09
34	448	6	302	157	6	99.7	53.0	57.3	1.3	2.0	685	64.9	4	0.4
271	1,107	16	1,297	491	169	97.1	43.5	82.9	1.4	13.0	1,208	62.7	29	1.5
403	1,829	165	5,039	3,181	806	80.6	75.1	104.1	6.8	16.0	3,290	68.4	10	0.2
107	495	74	456	78	114	77.7	22.8	10.8	10.4	25.0	1,557	29.3	137	2.6
275	1,539	13	151	118	17	94.1	88.0	35.8	0.8	11.3	1,666	36.0	33	0.7
49	309	6	49	35	4	95.6	77.7	40.3	1.8	8.2	555	65.1	17	2.0
425	2,409	120	388	298	22	98.6	81.4	51.8	4.6	5.7	2,446	46.8	1	0.2
59	485	...	636	465	41	95.9	78.1	57.8	...	6.4	778	47.3	5	0.3
110	954	...	492	338	41	94.9	74.9	51.3	...	8.3	1,104	43.8	46	1.8
840	2,160	6	343	217	54	93.5	75.0	70.9	0.3	15.7	2,847	84.9	40	1.2
80	581	...	202	143	6	92.2	72.9	46.6	...	3.0	608	39.2	8	0.5
154	748	4	152	125	6	95.8	85.6	40.8	0.5	3.9	796	37.3	24	1.1
114	954	38	324	143	117	95.8	69.0	35.5	3.7	36.1	1,328	43.0	15	0.5
84	617	...	91	65	9	99.5	79.5	53.4	...	9.9	567	44.4	9	0.7
8	107	...	5	3	...	98.1	60.0	57.5	...	...	119	62.2	1	0.5
398	1,893	6	184	148	3	95.7	81.7	34.2	0.3	1.6	1,986	33.3	44	0.7
259	922	...	511	328	94	98.6	78.6	49.2	...	18.4	1,093	43.0	10	0.4
4,668	24,109	479	14,200	7,426	1,946	98.7	60.6	61.9	1.9	13.7	32,643	64.0	196	0.4
1712	8,521	73	691	665	2	98.0	96.5	86.6	0.8	0.3	7,307	68.9	231	2.2
98	791	...	105	91	2	95.8	88.3	43.1	...	1.9	824	40.3	24	1.2
1,443	3,327	2	4,569	2,786	32	99.1	83.4	161.3	0.06	0.7	2,344	53.1	2	0.05
119	1,057	...	335	269	...	97.2	80.3	33.5	...	...	1,316	33.3	1	0.03
108	723	3	433	333	23	97.1	81.2	43.7	0.4	5.3	1,061	48.7	16	0.6
60	537	6	124	87	29	99.3	91.5	44.5	1.0	23.4	768	50.7	1	0.6
1,380	3,428	19	425	290	47	94.3	76.7	64.9	0.5	11.1	4,311	73.6	51	0.8
211	829	4	1,028	458	124	89.5	50.6	40.1	0.4	12.1	1,066	33.3	23	0.8
54	390	7	929	661	44	84.0	74.6	81.7	1.5	4.7	551	42.8	1	0.08
93	823	...	558	519	...	99.7	93.0	71.5	...	...	1,362	78.2	1	0.05
187	1,043	19	281	135	84	91.5	68.5	29.7	1.6	29.9	1,617	40.9	11	0.3
329	1,882	...	368	317	1	93.5	86.3	49.7	...	0.3	2,099	47.5	71	1.6
154	813	...	240	233	...	94.5	97.0	60.3	...	...	993	57.3	4	0.2
49	698	2	117	100	11	95.2	94.2	44.4	0.3	9.4	821	45.7	1	0.05
76	662	...	357	302	27	95.9	91.5	56.1	...	7.6	856	49.9	1	0.05
318	1,664	...	1,677	1,378	62	97.8	85.3	83.5	...	3.7	2,582	70.9	25	0.7
107	2,351	...	529	296	...	91.1	55.9	37.4	...	...	2,633	37.3	66	0.9
387	1,078	31	28	26	...	98.5	92.8	47.9	2.7	...	1,248	54.0	9	0.4
64	1,088	2	34	19	2	97.4	59.3	41.9	0.2	5.9	1,180	42.8	2	0.05
337	2,096	...	386	252	...	97.4	91.1	42.3	...	...	2,001	34.6	78	1.2
128	993	2	616	231	139	99.3	48.4	43.8	0.2	22.6	1,233	44.2	4	0.1

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1901.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Primary	
										Total number of operations.	Under 1 year.
1	2	3	4	5	6	7			8	9	10
						Males.	Females.	Total.			
51	Municipalities—cont.	Tinnevelly ...	40,469	5,058	2	1,035	649	1,684	842	1,448	1,099
52		Trichinopoly ...	104,721	8,727	4	3,774	2,777	6,551	1,637	5,720	2,836
53		Tirupattūr ...	18,689	7,475	1	477	293	770	770	644	566
54		Tirupati ...	15,485	4,266	1	345	213	558	558	409	361
55		Tiruvannāmalai ...	17,069	1,552	1	487	397	884	884	841	638
56		Tuticorin ...	28,048	9,349	1	1,108	583	1,691	1,691	1,434	924
57		Vāniyambādi ...	12,005	4,802	1	555	409	964	964	851	721
58		Vellore ...	43,537	6,966	2	1,271	927	2,198	1,099	1,637	1,249
59		Vizagapatam ...	40,892	7,789	2	1,311	893	2,204	1,102	1,219	861
60		Vizianagram ...	34,583	8,646	1	1,595	1,375	2,970	2,970	1,514	1,019
61	Walajapet ...	10,067	10,067	4	242	138	380	95	262	206	
Total of Municipalities.			2,422,127	5,335	118	95,659	62,151	1,57,810	1,326	111,045	78,848
Grand Total ...			*38,227,818	271	819	856,387	7,63,051	16,19,438	† 1,969	1,447,310	609,176

Note.—(1) Difference between number of operations and number of persons

(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 1909-1910—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.	
Successful.			Total number of operations.	Successful.	Unknown.	Primary vaccinations.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
Over 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
142	1,258	49	340	221	89	89.9	88.0	36.5	3.4	26.2	1,517	37.5	12	0.3
2,698	5,495	57	831	659	119	97.0	92.5	58.7	1.0	14.3	7,283	69.6	118	1.1
...	643	...	126	123	...	99.8	97.6	40.9	...	...	632	33.8	10	0.5
12	381	4	157	80	58	94.0	80.8	29.7	1.0	36.9	540	34.9	1	0.06
142	821	...	55	41	6	97.6	83.6	50.5	...	10.9	707	41.4	17	0.9
405	1,374	41	257	112	135	98.6	91.8	52.9	2.9	52.5	1,352	48.2	8	0.3
104	846	...	118	71	14	99.4	74.0	76.3	...	11.9	834	69.5	4	0.2
524	1,824	1	361	138	200	99.3	85.7	45.06	0.05	55.4	1,463	33.6	107	2.5
252	1,148	2	1,023	480	149	94.3	54.9	39.8	0.2	14.6	1,498	36.6	12	0.3
237	1,367	...	1,520	1,290	3	90.2	85.0	76.8	...	0.2	2,134	61.7	2	0.06
19	241	8	123	86	22	94.8	85.1	32.4	3.1	17.9	476	47.3	1	0.09
22,600	105,198	1,630	49,312	32,040	5,267	96.1	72.7	56.6	1.5	10.7	131,499	54.3	1,686	0.7
526,227	1,284,821	51,955	204,697	145,641	16,958	92.0	77.6	37.2	3.6	8.3	1,360,455	35.4	20,588	0.5

vaccinated, equals 32,539 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.

VACCINATION RETURNS.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1909-1910—continued.

Number—cont.	Districts—cont.	Circles—cont.	Expenditure—cont.					Paid from					Total.*	Number of all successful primary vaccination.	Average cost of each successful case.
			Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	RS.	A.	P.			
			17	18	19	20	21	22	23	24	25	26			
1	Anantapur.	Anantapur circle ...	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	0 4 4	0 4 4	
		Penukonda do. ...	353 15 7	848 6 1	3,944 6 4	...	1,913 13 3	2,030 9 1	...	3,944 6 4	14,424	...	0 4 5	0 4 5	
2		Total of district ...	273 13 6	461 1 3	2,741 1 9	...	1,084 13 1	1,056 4 8	...	2,741 1 9	9,894	...	0 4 4	0 4 4	
3	Bellary.	Bellary circle ...	627 13 1	1,309 7 4	6,685 8 1	...	2,398 10 4	4,288 13 9	...	6,685 8 1	24,318	...	0 3 11	0 3 11	
		Hospet do. ...	1,096 1 5	598 8 0	3,974 10 0	...	1,302 13 10	2,671 12 2	...	3,974 10 0	16,230	...	0 4 9	0 4 9	
4		Total of district ...	1,098 15 8	627 4 7	4,289 6 10	...	1,407 14 9	2,881 8 1	...	4,289 6 10	14,464	...	0 4 4	0 4 4	
5	Chingleput.	Chingleput circle ...	2,195 1 1	1,225 12 7	8,264 0 10	...	2,710 12 7	6,553 4 3	...	8,264 0 10	30,684	...	0 3 9	0 3 9	
		Saidapet do. ...	1,028 5 10	575 12 8	3,530 4 5	...	1,483 7 11	2,652 12 6	...	3,530 4 5	15,031	...	0 4 1	0 4 1	
6		Total of district ...	781 3 8	674 8 8	3,028 5 10	...	1,002 6 2	2,025 15 8	...	3,028 5 10	13,221	...	0 3 8	0 3 8	
7	North Coimbatore.	North Coimbatore circle ...	890 2 3	634 3 8	3,190 12 8	...	1,058 2 3	2,132 10 5	...	3,190 12 8	12,439	...	0 4 8	0 4 8	
		South do. ...	2,699 11 9	1,784 9 0	9,755 6 11	...	3,344 0 4	6,211 6 7	...	9,755 6 11	40,711	...	0 4 2	0 4 2	
8		Total of district ...	363 6 0	655 13 8	2,769 5 4	...	1,104 0 3	1,865 5 1	...	2,769 5 4	10,961	...	0 4 0	0 4 0	
9	Coimbatore.	Coimbatore circle ...	215 14 0	639 5 0	2,760 7 6	...	860 9 0	1,899 14 6	...	2,760 7 6	13,661	...	0 4 10	0 4 10	
		East do. ...	472 6 8	965 7 0	3,981 7 4	...	1,589 2 7	2,382 4 9	...	3,981 7 4	13,167	...	0 4 8	0 4 8	
10		Total of district ...	415 11 6	713 13 9	3,393 2 8	...	1,392 15 11	2,000 3 8	...	3,393 2 8	11,707	...	0 5 0	0 5 0	
11	Cuddapah.	Cuddapah circle ...	1,487 6 2	2,974 7 3	12,804 6 10	...	4,956 10 10	7,947 12 0	...	12,804 6 10	49,496	...	0 4 10	0 4 10	
		Madanapalle do. ...	842 10 11	743 8 1	4,215 3 6	...	853 8 3	3,362 0 3	...	4,215 3 6	13,994	...	0 5 10	0 5 10	
12		Total of district ...	1,040 4 10	1,121 0 0	5,355 0 5	...	1,340 0 9	4,014 16 8	...	5,355 0 5	17,985	...	0 4 10	0 4 10	
13	Siddharatham circle.	Siddharatham circle ...	784 2 6	773 11 7	3,562 3 1	...	1,173 1 1	2,389 2 0	...	3,562 3 1	9,700	...	0 4 8	0 4 8	
		Total of district ...	2,717 2 3	2,637 14 8	13,132 7 0	...	3,368 5 1	9,766 1 11	...	13,132 7 0	41,629	...	0 5 0	0 5 0	

APPENDIX.

VACCINATION RETURNS.

15	Berhampur circle	...	...	...	509 4 6	655 7 0	3,215 10 5	1,567 8 9	1,648 1 8	3,215 10 5	12,266	0 4 2
16	Chiosole do.	...	...	...	456 0 4	760 13 6	3,088 11 5	1,088 14 0	1,999 13 6	3,088 11 5	13,338	0 3 8
17	Ganjam Hill tracts	...	...	...	801 8 6	501 4 5	4,455 5 8	4,455 5 8	...	4,455 5 8	12,322	0 5 9
18	Aksa circle	...	...	...	365 0 0	405 7 5	2,534 7 5	1,048 0 8	1,456 6 9	2,534 7 5	9,329	0 4 4
19	Parlakimedi circle	...	...	...	608 3 3	705 2 9	3,277 0 7	1,299 13 8	1,977 2 11	3,277 0 7	16,411	0 3 2
20	Purushottapur do.	...	...	...	381 13 9	602 2 11	2,575 11 9	992 15 8	1,562 12 1	2,575 11 9	10,700	0 3 10
21	Total of district	...	...	...	3,081 14 4	3,690 5 7	19,146 15 3	10,452 10 5	8,694 4 10	19,146 15 3	74,366	0 4 1
22	Cocanada circle	...	...	...	648 9 11	572 8 0	3,011 8 6	988 2 7	2,025 0 11	3,011 8 6	9,368	0 5 1
23	Rajamundry do.	...	...	...	793 4 6	817 6 10	4,063 0 5	1,325 7 0	2,737 9 5	4,063 0 5	16,946	0 3 10
24	Polavaram do.	...	...	...	1,357 0 0	445 5 1	4,404 4 11	2,082 1 11	3,322 3 0	4,404 4 11	8,161	0 8 7
25	Peddapur do.	...	...	...	722 8 9	608 1 5	3,202 4 7	861 0 6	2,351 4 1	3,202 4 7	14,716	0 3 5
26	Bhadrachalam do.	...	...	...	191 11 0	140 11 5	570 15 2	570 15 2	...	570 15 2	986	0 9 3
27	Total of district	...	...	...	3,713 2 2	2,584 0 9	15,251 12 7	5,815 11 2	9,436 1 5	15,251 12 7	50,175	0 4 10
28	Ellore circle	...	...	...	1,138 2 7	935 10 4	4,878 1 2	1,003 15 3	3,874 1 11	4,878 1 2	22,952	0 3 4
29	Masulipatam circle	...	...	...	1,174 2 0	903 1 3	4,587 3 10	1,190 0 10	3,397 3 5	4,587 3 10	22,986	0 3 2
30	Narasapur do.	...	...	...	305 5 9	723 6 1	4,334 0 8	984 1 3	3,349 15 0	4,334 0 8	18,841	0 3 8
31	Total of district	...	...	...	2,617 10 4	2,562 1 8	13,799 5 8	3,178 1 4	10,621 4 4	13,799 5 8	64,779	0 3 4
32	Guntur circle	...	...	...	828 7 0	983 5 11	4,037 10 7	1,364 13 7	2,672 13 0	4,037 10 7	22,805	0 2 9
33	Narasarnpet circle	...	...	...	533 14 7	703 8 7	3,153 0 3	1,224 4 3	1,928 12 0	3,153 0 3	14,643	0 3 5
34	Bapatia circle	...	...	...	800 14 1	964 5 7	3,810 14 8	1,311 14 3	2,499 0 5	3,810 14 8	21,816	0 2 9
35	Total of district	...	...	...	2,163 3 8	2,651 4 1	11,001 9 6	3,901 0 1	7,100 9 5	11,001 9 6	59,364	0 2 11
36	Cumbum circle	...	...	...	184 15 2	492 9 10	2,910 15 3	686 9 3	2,224 6 0	2,910 15 3	13,615	0 3 6
37	Kurugol do.	...	...	...	430 4 11	556 12 6	3,557 13 6	1,177 4 11	2,360 8 7	3,557 13 6	16,073	0 3 6
38	Total of district	...	...	...	615 4 1	1,049 6 4	6,468 12 9	1,803 14 2	4,604 14 7	6,468 12 9	29,688	0 3 5
39	Dindigul circle	...	...	...	698 7 11	730 0 7	2,913 0 0	1,032 15 7	1,880 0 5	2,913 0 0	16,182	0 2 10
40	Madura do.	...	...	...	927 4 6	920 10 11	3,630 5 9	1,466 1 9	2,164 4 0	3,630 5 9	14,478	0 4 0
41	Paramagudi do.	...	...	...	263 2 0	968 10 0	3,776 4 7	1,149 0 4	6,927 4 3	3,776 4 7	21,020	0 2 10
42	Tirupattur do.	...	...	...	290 12 6	936 15 8	4,205 9 7	1,247 13 9	2,957 11 10	4,205 9 7	23,313	0 2 10
43	Periyakulam do.	...	...	...	897 12 2	774 11 2	3,674 6 0	1,264 15 0	2,419 7 0	3,674 6 0	18,345	0 3 2
44	Total of district	...	...	...	3,077 7 1	4,327 0 4	18,199 9 11	6,160 14 5	12,048 11 6	18,199 9 11	93,338	0 3 1
45	Tellicherry circle	...	...	...	529 12 6	1,132 4 10	4,614 1 1	1,723 11 6	2,890 5 7	4,614 1 1	23,360	0 3 2
46	Calicut do.	...	...	...	552 10 6	882 1 4	3,632 8 11	1,196 5 9	2,436 3 2	3,632 8 11	26,701	0 2 3
47	Palghat do.	...	...	...	612 6 6	1,745 0 3	5,538 13 1	1,401 6 6	4,137 6 7	5,538 13 1	35,610	0 1 10
48	Malapuram do.	...	...	...	457 8 3	1,568 10 11	4,279 8 3	1,131 8 3	3,148 0 0	4,279 8 3	33,228	0 2 1
49	Total of district	...	...	...	2,152 5 9	5,328 1 4	18,064 15 4	5,463 0 0	12,611 15 4	18,064 15 4	117,799	0 2 5

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1909-1910.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1909-1910—continued.

APPENDIX.

Expenditure.															
Circles—cont.		Districts—cont.		Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy Inspectors.			Vaccinators.				Peons, etc.		Total pay of establishment.	
Number—cont.	Circles—cont.	Districts—cont.	Pay.		First Grade.	Second Grade.	Third Grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.		Pay.
1	8		5	6	7	8	9	10	11	12	13	14	15	16	
43	Nellore.	Central circle (Kavali)	...	...	1	...	568 12 10	3	3	4	1,725 15 10	1	95 0 0	2,389 12 8	
44		Southern do. (Gudur)	...	...	...	...	...	680 0 0	3	3	1	1,487 4 7	1	96 0 0	2,263 4 7
45		Northern do. (Kaviriri)	...	...	...	1	...	637 0 2	2	2	5	1,354 12 3	1	96 0 0	1,987 12 6
46	Nilgiris.	Total of district	...	...	2	1	1,785 13 1	8	8	10	4,508 0 8	3	287 0 0	6,640 13 9	
47		Nilgiris	...	...	...	...	1	600 0 0	3	...	1	1,098 6 3	1	108 0 0	1,806 6 3
48		Total of district	...	...	...	...	1	600 0 0	3	...	1	1,098 6 3	1	108 0 0	1,806 6 3
49	North Arcot.	Chittoor circle	...	1	...	...	840 0 0	5	4	1	1,251 7 8	1	95 0 0	2,186 7 8	
50		Vellore do.	...	...	1	...	720 0 0	3	...	...	707 0 9	1	95 10 2	1,522 10 11	
51		Karvetnagar circle	...	...	...	1	...	526 0 0	2	6	1	1,144 4 9	1	91 0 0	1,755 4 9
52	Madras.	Ranipet do.	...	1	...	...	840 5 9	3	...	...	554 4 2	1	96 2 2	1,480 12 1	
53		Polur do.	...	...	...	1	512 14 5	1	2	...	900 0 2	1	87 0 0	1,499 14 7	
54		Total of district	...	...	2	1	2	3,433 4 2	14	12	2	4,557 1 7	5	464 12 4	8,456 2 1
55	Tamil.	Madras Presidency town	...	...	...	...	...	...	...	...	...	...	...	12,066 14 0	
56		Total of district	...	...	...	...	...	...	...	...	...	...	...	12,066 14 0	
57		Tirupattur circle	...	...	...	...	...	720 0 0	2	6	...	1,081 3 0	1	104 9 7	1,905 12 7
58	Tamil.	Salem do. (Central)	...	...	1	...	837 11 11	3	7	...	1,249 10 10	1	95 0 0	2,182 6 9	
59		Namakkal do.	...	...	...	1	...	715 0 0	3	10	...	1,727 6 8	1	109 15 10	2,552 5 6
60		Hosur do.	...	...	...	...	1	484 5 4	2	5	...	1,069 11 6	1	98 1 11	1,842 2 9
61	Tamil.	Total of district	...	...	1	2	2,757 1 3	10	27	...	5,117 15 0	4	407 11 4	8,282 11 7	

VACCINATION RETURNS.

57	South Arcot.	Udallore circle	...	...	...	1	...	520 0 0	...	...	4	...	1,449 7 9	1	96 0 0	2,065 7 9
58		Vridhachalam do.	...	...	...	1	...	480 0 0	3	3	...	922 1 1	1	96 0 0	1,498 1 1	
59		Tirukkóyilár do.	...	...	...	1	...	720 0 0	2	2	...	858 15 4	1	91 2 3	1,670 1 7	
60		Tadivanam do.	...	...	...	1	...	720 0 0	4	4	...	1,101 7 2	1	96 0 0	1,917 7 2	
61	South Canara.	Villapurem do.	...	...	...	1	...	720 0 0	...	...	4	...	1,045 5 4	1	84 0 0	1,849 5 4
62		Total of district	...	...	...	3	2	3,160 0 0	9	17	...	5,377 4 8	5	483 2 3	9,000 6 11	
63		Northern circle	...	...	...	1	...	840 0 0	2	4	...	1,906 3 3	1	99 8 0	2,844 11 3	
64		Central do.	...	...	...	1	...	720 11 5	2	2	...	2,025 1 11	1	94 0 0	2,844 13 4	
65	Tanjore.	Southern do.	...	...	...	1	...	489 5 4	3	3	...	1,958 3 8	1	98 2 2	2,845 11 2	
66		Total of district	...	...	...	1	1	2,050 0 9	7	9	...	5,888 8 10	3	296 10 2	8,235 3 9	
67		Tanjore circle	...	...	...	1	...	653 1 1	2	6	...	1,169 12 3	1	87 0 0	1,909 13 4	
68		Negapatam do.	...	...	...	1	...	797 1 7	3	4	...	1,203 4 3	1	96 0 0	2,096 5 10	
69	Tinnevelly.	Pattukkóttai do.	...	...	...	1	...	525 2 7	2	6	...	1,224 6 10	1	104 0 0	1,853 9 5	
70		Kumbakonam do.	...	...	...	1	...	478 0 0	2	7	...	1,217 6 1	1	90 3 4	1,785 9 5	
71		Total of district	...	...	...	2	...	2,453 5 3	9	23	...	4,814 13 5	4	377 3 4	7,645 6 0	
72		Srivilliputtár circle	...	...	...	1	...	840 0 0	2	4	...	1,029 2 4	1	86 8 4	1,955 10 8	
73	Tiruchinopoly.	Tenkási do.	...	...	...	1	...	701 8 0	3	5	...	1,394 3 3	1	95 0 0	2,190 11 3	
74		Srivakuntam do.	...	...	...	1	...	456 8 8	3	6	...	1,182 12 8	1	95 0 0	1,734 5 4	
75		Ottappidaram do.	...	...	...	1	...	475 0 0	2	3	...	854 1 4	1	94 0 0	1,423 1 4	
76		Total of district	...	...	...	1	2	2,473 0 8	10	14	...	4,460 3 7	4	370 8 4	7,303 12 7	
77	Vizagapatam.	Tiruchinopoly circle	...	...	...	1	...	795 5 9	5	7	...	2,625 9 6	1	96 0 0	3,516 15 3	
78		Ariyalár do.	...	...	...	1	...	645 15 2	3	5	...	1,395 13 6	1	94 15 7	2,136 12 3	
79		Total of district	...	...	...	1	1	1,441 4 11	8	12	...	4,021 7 0	2	190 15 7	5,653 11 6	
80		Gannur circle	...	...	...	1	...	665 4 11	1	7	...	933 13 6	1	102 0 0	1,701 2 5	
81	Koraput.	Vizagapatam circle	...	...	...	1	...	723 1 10	5	7	...	1,802 12 5	1	91 0 0	2,716 14 3	
82		Government vaccinators (Gudem Hills)	...	...	...	1	...	...	...	...	...	...	...	...	...	...
83		Vizianagaram circle	...	...	...	1	...	650 2 7	4	9	...	1,782 11 11	1	80 0 0	2,522 14 6	
84		Parvatipuram do.	...	...	...	1	...	489 5 4	4	7	...	1,621 12 8	1	85 10 2	2,096 12 2	
85	Grand Total of districts	Total of district	...	...	...	1	2	2,527 14 8	14	31	...	6,261 2 6	4	368 10 2	9,187 11 4	
86		Jeypore circle	...	...	...	1	...	567 4 3	1	7	...	1,557 13 3	1	87 0 0	2,212 1 6	
87		Koraput do.	...	...	...	1	...	686 4 5	1	7	...	866 1 4	1	26 12 10	1,578 2 7	
88		Total of district	...	...	...	2	...	1,253 8 8	2	14	...	2,422 14 7	2	113 12 10	3,790 4 1	
89			1	12,066 14 0	21	35	208	403	113	1,10,664 2 6	78	7,244 0 9	1,81,460 13 10			

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1909-1910—continued.

APPENDIX.

Number—cont.	Districts—cont.	(Circles—cont.)	Expenditure—cont.			Paid from				Total*	Number of all successful primary vaccination and re-vaccination.	Average cost of each successful case.
			Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.			
			17	18	19	20	21	22	23	24	25	26
43	Nellore.	Central circle (Kavali) ...	714 7 11	904 1 0	3,708 5 7	...	1,065 11 1	2,641 10 6	...	3,708 5 7	12,453	0 4 9
44		Southern do. (Gudur) ...	582 0 7	403 11 9	3,289 0 11	...	1,828 5 5	1,432 11 6	...	3,259 0 11	9,792	0 5 4
45		Northern do. (Kanigiri) ...	581 15 4	462 2 8	3,081 14 6	...	903 6 10	2,008 7 8	...	3,031 14 6	11,928	0 4 1
46	Nilgiris.	Total of district ...	1,888 7 10	1,469 15 5	9,899 5 0	...	3,856 7 4	6,142 13 8	...	9,999 5 0	34,173	0 4 8
47		Total of district ...	577 11 0	209 1 5	2,593 2 8	...	1,318 3 0	1,274 15 8	...	2,593 2 8	4,451	0 9 4
48	North Arcot.	Chittoor circle ...	865 14 8	591 6 8	3,643 13 1	...	1,431 5 9	2,212 7 4	...	3,643 13 1	12,982	0 4 6
49		Vellore do. ...	855 13 2	638 5 0	3,016 13 1	...	1,463 4 9	1,553 8 4	...	3,016 13 1	13,299	0 3 7
50		Karvetnagar circle ...	831 4 2	612 12 4	3,229 5 3	...	1,044 9 9	2,184 11 6	...	3,229 5 3	13,628	0 3 9
51	Madras.	Ranipet do. ...	808 0 9	590 10 4	2,890 7 2	...	1,484 11 7	1,395 11 7	...	2,880 7 2	12,775	0 3 7
52		Polar do. ...	326 8 3	631 0 11	2,467 7 9	...	1,071 4 0	1,386 3 9	...	2,457 7 9	12,957	0 3 0
53	Salem.	Total of district ...	3,088 9 0	8,094 3 3	15,237 14 4	...	6,505 3 10	8,732 10 6	...	15,237 14 4	65,641	0 3 8
54		Madras Presidency town ...	1,873 5 0	...	13,940 3 0	...	13,940 3 0	...	...	13,940 3 0	...	...
55		Total of district ...	1,873 5 0	...	13,940 3 0	...	13,940 3 0	...	...	13,940 3 0	...	...
56	Tirupattur circle.	Tirupattur circle ...	354 1 0	613 4 3	2,873 1 10	...	1,131 2 10	1,741 15 0	...	2,873 1 10	14,400	0 3 2
57		Salem do. (Central) ...	366 10 11	888 12 8	3,437 14 4	...	1,262 8 7	2,175 5 9	...	3,437 14 4	15,281	0 3 7
58		Namakal do. ...	309 5 0	1,385 12 6	4,267 7 0	...	1,124 15 10	3,122 7 2	...	4,247 7 0	26,653	0 2 7
59	Tanjore.	Hoar do. ...	296 3 6	648 12 9	2,687 3 0	...	334 8 3	1,662 15 9	...	2,587 3 0	15,700	0 2 7
60		Total of district ...	1,326 4 5	3,536 10 2	13,145 10 2	...	4,452 14 6	8,692 11 8	...	13,145 10 2	72,124	0 2 10
61		...	...	...	...	...	...	...	...	...	...	...

VACCINATION RETURNS.

67	South Arcot.	Cuddalore circle ...	367 0 2	640 7 1	3,072 15 0	...	1,058 1 2	2,019 13 10	...	3,072 15 0	10,509	0 4 6
68		Vridhachalam do. ...	628 8 4	477 7 7	2,504 1 0	...	799 6 8	1,704 10 4	...	2,504 1 0	15,155	0 2 8
69		Tirukkoilur do. ...	644 13 9	689 4 1	3,004 3 5	...	1,344 14 6	1,659 4 11	...	3,004 3 5	16,022	0 2 8
70	South Canara.	Tindivanam do. ...	678 12 1	451 7 11	3,047 11 2	...	1,291 6 9	1,756 4 5	...	3,047 11 2	13,816	0 3 10
71		Villupuram do. ...	810 7 7	704 3 6	3,364 0 5	...	1,288 3 0	2,077 13 5	...	3,364 0 5	15,845	0 3 6
72		Total of district ...	3,029 9 11	2,962 14 2	14,992 15 0	...	5,775 0 1	9,217 14 11	...	14,992 15 0	69,840	0 3 5
73	Tanjore.	Northern circle ...	704 9 2	524 2 4	4,073 6 9	...	1,402 14 0	2,670 8 9	...	4,073 6 9	16,217	0 4 0
74		Central do. ...	389 8 0	555 14 4	3,780 3 8	...	1,300 9 1	2,489 10 7	...	3,780 3 8	16,001	0 4 0
75		Southern do. ...	781 0 7	584 10 5	3,911 6 2	...	1,067 0 9	2,844 5 5	...	3,911 6 2	15,640	0 4 0
76	Tanjore.	Total of district ...	1,875 1 9	1,664 11 1	11,775 0 7	...	3,770 7 10	8,004 8 9	...	11,775 0 7	46,858	0 4 0
77		Tanjore circle ...	219 10 9	916 1 0	3,045 9 1	...	959 11 10	2,085 13 3	...	3,045 9 1	17,782	0 2 9
78		Nagapattinam do. ...	316 7 6	959 1 7	3,371 14 11	...	1,233 5 7	2,138 9 4	...	3,371 14 11	18,576	0 2 11
79	Tanjore.	Pattukkottai do. ...	296 15 8	608 7 5	2,759 0 1	...	987 12 4	1,821 3 9	...	2,759 0 1	15,854	0 2 9
80		Kumbakonam do. ...	263 6 9	896 13 0	3,045 13 2	...	844 2 1	2,201 11 1	...	3,045 13 2	18,048	0 2 8
81		Total of district ...	1,096 8 3	3,480 7 0	12,222 5 3	...	3,974 15 10	8,247 5 5	...	12,222 5 3	70,260	0 2 9
82	Tinnevely.	Srivilliputhur circle ...	543 2 9	629 0 6	3,127 13 11	...	1,299 15 2	1,827 14 9	...	3,127 13 11	17,758	0 2 9
83		Tenkasi do. ...	387 7 3	645 4 6	3,223 7 0	...	1,246 7 3	1,976 15 9	...	3,223 7 0	19,029	0 2 8
84		Srivilliputhur do. ...	343 9 0	648 3 5	2,746 1 9	...	774 1 8	1,972 0 1	...	2,746 1 9	20,102	0 2 2
85	Tinnevely.	Ottapidaram do. ...	308 5 7	508 2 11	2,239 9 10	...	752 7 6	1,487 2 4	...	2,239 9 10	15,006	0 2 4
86		Total of district ...	1,602 8 7	2,430 11 4	11,337 0 6	...	4,072 15 7	7,264 0 11	...	11,337 0 6	71,935	0 2 6
87		Trichinopoly circle ...	298 12 6	1,202 3 1	5,017 14 10	...	1,210 0 9	3,807 14 1	...	5,017 14 10	25,363	0 3 2
88	Tinnevely.	Ariyalur do. ...	583 1 0	956 6 7	3,676 3 10	...	1,046 1 3	2,630 2 7	...	3,676 3 10	17,565	0 3 4
89		Total of district ...	881 12 6	2,153 9 8	8,694 2 8	...	2,256 2 0	6,438 0 8	...	8,694 2 8	42,928	0 3 3
90		Gnanapur circle ...	1,491 13 6	478 14 3	3,671 14 2	...	1,405 1 8	2,266 12 6	...	3,671 14 2	8,160	0 5 5
91	Vizagapatnam.	Vizagapatnam circle ...	776 2 1	1,963 15 0	5,456 15 4	...	1,250 3 3	4,206 12 1	...	5,456 15 4	30,838	0 2 1
92		Government vaccinators (Gudem hills) ...	...	44 15 6	164 15 6	...	164 15 6	...	...	164 15 6	324	0 3 1
93		Vizianagaram circle ...	732 15 1	1,853 13 6	5,109 11 1	...	1,126 0 10	3,983 10 3	...	5,109 11 1	26,893	0 3 0
94	Vizagapatnam.	Párvatipuram do. ...	848 3 6	1,933 2 4	4,878 2 0	...	886 15 1	3,991 2 11	...	4,878 2 0	35,573	0 2 2
95		Total of district ...	3,849 2 2	6,274 12 7	19,281 10 1	...	4,833 4 4	14,448 5 9	...	19,281 10 1	101,788	0 3 0
96		Jeyapore circle ...	429 5 0	801 14 7	3,443 5 1	...	1,218 12 6	2,224 8 7	...	3,443 5 1	15,740	0 3 6
97	Koraput.	Koraput do. ...	645 1 4	544 10 8	2,767 14 7	...	1,131 5 3	1,636 9 4	...	2,767 14 7	10,599	0 4 2
98		Total of district ...	1,074 6 4	1,346 9 3	6,211 3 8	...	2,350 1 9	3,861 1 11	...	6,211 3 8	26,839	0 3 9
99		Grand Total of districts ...	49,891 9 6	60,753 0 3	2,92,105 7 7	...	1,10,897 9 10	1,81,207 13 9	...	2,92,105 7 7	1,282,694	0 3 7

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1909-1910.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1909-1910—continued.

Expenditure.															APPENDIX.	
Number.	Municipalities.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Pay.	Deputy Inspectors.			Vaccinators.			Peons, etc.		Total pay of establishment.				
				First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.		Number.			
1		4	5	6	7	8	9	10	11	12	13	14	15	16		
			RS. A. P.				RS. A. P.				RS. A. P.		RS. A. P.	RS. A. P.		
1	Adoni	..	..	..	..	..	..	1	..	..	192 0 0	..	..	192 0 0		
2	Anantapur	..	..	..	..	..	..	..	..	1	106 10 6	..	..	106 10 6		
3	Anakapalle	..	..	..	..	..	..	..	1	..	187 4 2	..	..	187 4 2		
4	Bellary	..	..	..	..	..	..	2	1	..	507 9 2	..	..	507 9 2		
5	Berhampur	..	..	..	..	..	..	1	..	..	215 0 0	..	..	215 0 0		
6	Berwada	..	..	..	..	..	..	1	..	..	215 0 0	1	79 9 7	284 9 7		
7	Bimlipatam	..	..	..	..	..	..	..	1	..	210 0 0	..	..	210 0 0		
8	Calicut	..	..	..	..	..	..	1	2	..	516 5 4	..	..	516 5 4		
9	Cannanore	..	..	..	..	..	..	1	..	..	239 0 0	..	..	239 0 0		
10	Chicacole	..	..	..	..	..	..	1	..	..	215 0 0	..	..	215 0 0		
11	Chidambaram	..	..	..	..	..	..	1	..	..	210 0 0	..	..	210 0 0		
12	Chingleput	..	..	..	..	..	..	..	1	..	128 9 0	..	..	128 9 0		
13	Cochin	..	..	..	..	..	..	1	..	..	278 14 0	..	..	278 14 0		
14	Cocanada	..	..	..	..	..	..	1	3	..	483 15 11	..	..	483 15 11		
15	Coimbatore	..	..	..	..	..	..	..	2	..	292 4 8	..	..	292 4 8		
16	Conjeeveram	..	..	..	..	..	..	..	2	..	320 6 0	..	..	320 6 0		
17	Coonoor	..	..	..	..	..	..	1	..	..	212 0 0	..	..	212 0 0		
18	Cuddalore	..	..	..	..	..	..	1	..	..	362 0 0	..	..	362 0 0		
19	Cuddapah	..	..	..	..	..	..	..	1	..	153 3 4	..	..	153 3 4		
20	Dindigul	..	..	..	..	..	..	1	1	..	241 1 10	..	..	241 1 10		
21	Elore	..	..	..	..	..	..	1	1	..	341 10 11	..	..	341 10 11		
22	Erode	..	..	..	..	..	..	1	..	..	219 13 3	..	..	219 13 3		
23	Gudiyattam	..	..	..	..	..	..	1	..	..	126 11 5	..	..	126 11 5		
24	Guntur	..	..	..	..	..	..	1	..	..	239 0 0	1	60 0 0	239 0 0		
25	Karur	..	..	..	..	..	..	1	..	..	203 13 0	..	..	203 13 0		

APPENDIX.

26	Kodalkanal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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* Vaccination is carried on by the Medical Officer.

† One clerk.

† Three Assistant Deputy Inspectors.

§ Includes three Assistant Deputy Inspectors employed in the Corporation of Madras.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency during the official year 1909-1910—continued.

Number—cont.	Municipalities—cont.	Expenditure—cont.			Paid from				Total.*	Number of all successful primary vaccination.	Average cost of each successful case.
		Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.			
		17	18	19	20	21	22	23	24	25	26
		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	Adoni	...	82 3 9	274 3 9	...	...	...	274 3 9	274 3 9	1,103	0 3 11
2	Anantapur	...	30 9 11	137 4 5	...	...	...	137 4 5	137 4 5	457	0 4 9
3	Anakapalle	...	35 0 11	222 5 1	...	...	...	222 5 1	222 5 1	779	0 4 6
4	Bellary	...	109 12 11	617 6 1	...	...	...	617 6 1	617 6 1	2,614	0 3 8
5	Berhampur	...	38 1 7	253 1 7	...	...	...	253 1 7	253 1 7	1,474	0 2 8
6	Bewada	...	67 2 10	361 12 5	...	...	...	361 12 5	361 12 5	1,252	0 4 7
7	Bimlipatam	...	13 15 0	223 15 0	...	...	...	223 15 0	223 15 0	407	0 7 8
8	Calicut	...	326 8 10	842 14 2	...	...	...	842 14 2	842 14 2	6,206	0 2 2
9	Cananore	...	61 4 9	300 4 9	...	...	...	300 4 9	300 4 9	1,638	0 2 10
10	Chittoor	...	34 10 11	249 10 11	...	...	...	249 10 11	249 10 11	1,042	0 3 10
11	Chidambaram	...	24 14 7	234 14 7	...	...	...	234 14 7	234 14 7	830	0 5 11
12	Chingelput	...	31 10 5	160 3 5	...	...	...	160 3 5	160 3 5	605	0 4 2
13	Cochin	...	60 9 0	339 7 0	...	...	...	339 7 0	339 7 0	1,538	0 3 4
14	Cocanada	...	178 13 10	662 13 9	...	...	...	662 13 9	662 13 9	5,010	0 2 1
15	Coimbatore	...	81 7 4	373 12 0	...	...	...	373 12 0	373 12 0	573	0 10 5
16	Conjeveram	...	102 9 5	422 15 5	...	...	...	422 15 5	422 15 5	1,657	0 4 1
17	Coonoor	...	11 11 7	223 11 7	...	...	...	223 11 7	223 11 7	344	0 10 4
18	Cuddalore	...	172 8 9	534 8 9	...	...	...	534 8 9	534 8 9	2,707	0 3 1
19	Cuddapah	...	33 11 8	186 15 0	...	...	...	186 15 0	186 15 0	950	0 3 1
20	Dindigul	...	37 1 11	278 3 9	...	...	...	278 3 9	278 3 9	1,292	0 3 5
21	Ellore	...	66 2 3	407 13 2	...	...	...	407 13 2	407 13 2	2,377	0 2 8
22	Erode	...	44 7 11	284 5 2	...	...	...	284 5 2	284 5 2	724	0 5 10
23	Gudiyattam	...	55 3 4	181 14 9	...	...	...	181 14 9	181 14 9	871	0 3 4
24	Guntur	...	113 10 4	413 10 4	...	...	...	413 10 4	413 10 4	1,097	0 6 0
25	Karur	...	32 9 6	236 5 6	...	...	...	236 5 6	236 5 6	682	0 5 6

APPENDIX.

Municipalities—cont.	Municipalities—cont.	Expenditure—cont.			Paid from				Total.*	Number of all successful primary vaccination.	Average cost of each successful case.
		Travelling allowance.	Contingencies.*	Total cost.*	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.			
		17	18	19	20	21	22	23	24	25	26
		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.
26	Kodakanal	...	10 7 0	40 7 0	...	...	...	40 7 0	40 7 0	110	0 5 10
27	Kumbakonam	...	157 2 6	686 6 1	...	...	...	686 6 1	686 6 1	2,041	0 5 2
28	Kurucol	...	34 2 5	334 5 2	...	...	...	334 5 2	334 5 2	1,280	0 4 3
29	Madras	240 0 0	2,379 1 8	11,782 6 6	...	...	...	11,782 6 6	11,782 6 6	31,536	0 5 11
30	Madura	...	349 15 10	955 13 2	...	...	...	955 13 2	955 13 2	9,196	0 1 7
31	Mannargudi	...	66 14 10	209 9 5	...	...	...	209 9 5	209 9 5	882	0 3 9
32	Mangalore	...	152 0 10	623 0 10	...	...	...	623 0 10	623 0 10	7,118	0 1 4
33	Masulipatam	...	67 7 10	361 12 6	...	...	...	361 12 6	361 12 6	1,328	0 4 4
34	Mayavaram	...	84 9 4	298 9 4	...	...	...	298 9 4	298 9 4	1,061	0 4 6
35	Nandyal	...	24 7 7	222 15 7	...	...	...	222 15 7	222 15 7	674	0 5 3
36	Negapatam	...	113 11 3	649 15 10	...	...	...	649 15 10	649 15 10	3,716	0 2 9
37	Nellore	...	59 10 5	271 10 5	...	...	...	271 10 5	271 10 5	1,287	0 3 4
38	Ongole	...	59 0 1	237 3 8	...	...	...	237 3 8	237 3 8	1,051	0 3 7
39	Ootacamund	...	122 13 7	421 13 7	...	...	...	421 13 7	421 13 7	1,341	0 5 0
40	Palacottah	...	57 0 1	406 9 7	...	...	...	406 9 7	406 9 7	1,178	0 5 6
41	Palghat	...	117 8 2	428 1 2	...	...	...	428 1 2	428 1 2	2,199	0 3 1
42	Pudukkottai	...	27 13 10	242 13 10	...	...	...	242 13 10	242 13 10	1,086	0 3 8
43	Periyakulam	...	47 10 2	177 10 2	...	...	...	177 10 2	177 10 2	798	0 3 6
44	Palni	4 8 0	23 7 1	177 7 1	...	...	...	177 7 1	177 7 1	964	0 2 11
45	Rajahmundry	...	79 14 11	457 8 2	...	...	...	457 8 2	457 8 2	3,042	0 2 4
46	Salem	...	118 9 3	441 11 6	...	...	...	441 11 6	441 11 6	2,647	0 2 8
47	Srirangam	...	60 5 0	264 5 0	...	...	...	264 5 0	264 5 0	1,104	0 3 9
48	Srivilliputtur	...	28 12 7	218 12 7	...	...	...	218 12 7	218 12 7	1,107	0 3 1
49	Tanjore	...	79 1 9	329 1 9	...	...	...	329 1 9	329 1 9	2,448	0 2 1
50	Tellicherry	...	45 6 10	422 14 6	...	...	...	422 14 6	422 14 6	1,224	0 5 6
51	Tinnevely	...	112 10 3	507 4 7	...	...	...	507 4 7	507 4 7	1,479	0 5 5
52	Trichinopoly	...	455 6 9	876 8 9	...	...	...	876 8 9	876 8 9	6,154	0 2 3
53	Tirupattur	...	20 9 4	200 9 4	...	...	...	200 9 4	200 9 4	786	0 4 2
54	Tirupati	...	38 11 7	217 8 7	...	...	...	217 8 7	217 8 7	461	0 7 6
55	Tiruvannamalai	...	59 4 11	216 4 11	...	...	...	216 4 11	216 4 11	862	0 4 0
56	Tuticorin	...	39 14 1	230 14 1	...	...	...	230 14 1	230 14 1	1,486	0 2 5
57	Vaniyambadi	...	32 4 11	212 4 11	...	...	...	212 4 11	212 4 11	917	0 3 8
58	Vellore	...	85 12 5	467 12 5	...	...	...	467 12 5	467 12 5	1,962	0 3 9
59	Vizagapatam	...	89 12 8	359 1 10	...	...	...	359 1 10	359 1 10	1,628	0 3 6
60	Vizianagaram	...	161 1 4	374 1 4	...	...	...	374 1 4	374 1 4	2,657	0 2 3
61	Wajajpet	...	26 1 11	141 3 10	...	...	...	141 3 10	141 3 10	327	0 6 10
Total of Municipalities		244 8 0	7,835 3 3	32,850 2 4	...	...	...	32,850 2 4	32,850 2 4	137,288	0 3 9
1	Bangalore	240 0 0	...	576 0 0	...	...	...	576 0 0	576 0 0	1,066	0 5 0
2	Secunderabad	180 0 0	392 9 9	2,242 10 8	...	...	...	2,242 10 8	2,242 10 8	3,871	0 9 3
Total		420 0 0	392 9 9	2,818 10 8	...	...	...	2,818 10 8	2,818 10 8	4,937	0 9 1
Grand Total		50,566 1 6	66,980 7 3	3,27,774 4 7	1,10,897 9 10	1,81,207 13 9	...	32,850 2 4	3,27,774 4 7	1,424,859	0 3 8

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1909-1910.

B--DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency during the official year 1909-1910.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.				Primary vaccination.						Re-vaccination.			Percentage of success in total operations excluding unknown.		Percentage of unknown to total operations.	
	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.	Successful.				Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
					Under 1 year.	Over 1 and under 6 years.	Total of all ages.	Unknown.									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Anantapur	...	...	}														
Bellary	...	...															
Chingleput	...	...															
Coimbatore	...	...															
Cuddapah	...	...															
Ganjam	...	...															
Godavari	...	...															
Kistna	...	...															
Guntur	...	...															
Kurnool	...	...															
Madras	...	...															
Madura	...	...									Nil.						
Malabar	...	...															
Nellore	...	...															
Nilgiris	...	...															
North Arcot	...	...															
Salem	...	...															
South Arcot	...	...															
South Canara	...	...															
Tanjore	...	...															
Tinnevely	...	...															
Trichinopoly	...	...															
Visagapatam District.																	
Salur	...	...	21	...	18	2	16	18	...	3	3	...	100.0	100.0	...	...	
Total	...	...	21	...	18	2	16	18	...	3	3	...	100.0	100.0	...	...	
Koraput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Grand Total	...	...	21	...	18	2	16	18	...	3	3	...	100.0	100.0	...	...	

Difference between number of operations and number of persons vaccinated equals nil.

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.	1900-1901.		1901-1902.		1902-1903.		1903-1904.		1904-1905.		1905-1906.		1906-1907.		1907-1908.		1908-1909.		1909-1910.	
	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.
Government vaccinators ...	33,478	28,097	32,879	26,911	35,405	28,896	25,837	22,346	26,633	25,469	29,645	24,797	19,958	18,054	12,948	11,557	12,478	11,319	12,448	11,758
Local Fund do. ...	984,559	833,403	1,013,593	902,880	1,058,042	943,943	1,089,784	965,693	1,073,384	949,554	1,235,839	1,039,929	1,207,394	1,081,374	1,303,814	1,176,323	1,373,883	1,255,809	1,319,314	1,163,238
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	4,184	4,023
Zamindari do. ...	8,937	6,793	9,631	6,543	9,376	7,892	10,586	8,704	12,191	9,933	13,914	10,385	4,356	3,989	...	...	...	...	...	...
Municipal do. ...	100,777	95,586	105,239	99,284	110,940	105,296	106,096	101,593	109,918	105,258	111,456	103,242	116,654	110,988	108,261	102,615	110,869	106,433	111,045	105,198
Dispensaries do. ...	10,219	9,019	10,271	8,952	11,040	9,552	10,008	8,346	8,889	7,563	8,934	7,014	1,304	1,024	93	78	129	120	18	18
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	369	214
Total ...	1,096,831	980,587	1,181,375	1,063,392	1,235,196	1,104,834	1,250,762	1,114,136	1,240,685	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	1,447,323	1,284,939

STATEMENT No. V showing Particulars of Vaccination verified by Inspecting Officers during 1909-1910.

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.						
		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.		By District Medical and Sanitary Officers and Civil Surgeons.		By Deputy Inspectors of Vaccination.	* By Sanitary Assistants to District Medical and Sanitary Officers.								
		Primary vaccination.	Re-vaccination.			Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.							
Anantapur ...	24,821	1,194	1,253	139	18,500	579	...	...	...	5.0	11.6	74.5	48.5	...	...	...	48.9	91.5	67.2	96.3	88.3	
Bellary ...	34,284	2,834	76	1,307	28,158	886	...	...	...	0.2	46.1	32.1	13.6	...	...	...	83.5	93.1	95.9	97.9	80.0	
Chingleput ...	50,311	5,353	1,951	516	43,422	4,180	6,705	180	...	3.9	9.6	86.3	78.0	13.3	3.4	...	97.6	86.6	58.1	86.7	59.4	
Coimbatore ...	65,640	5,855	20	1,284	44,607	2,056	...	...	...	...	21.6	68.0	34.5	...	...	...	80.0	85.1	47.0	94.7	81.3	
Cuddapah ...	43,373	2,321	...	...	26,464	675	...	...	...	...	...	61.0	28.0	...	...	...	80.0	98.7	54.5	...	...	
Gajipur ...	70,501	14,577	861	428	53,752	7,788	...	...	...	1.2	2.9	76.2	53.4	...	...	...	100.0	94.6	89.4	95.6	93.8	
Godavari ...	65,082	10,575	760	1,073	46,045	1,272	2,451	1	...	1.2	10.1	70.7	12.0	3.8	...	...	93.2	82.1	52.5	100.0	70.6	
Kistna ...	77,911	3,258	928	147	61,795	1,235	...	...	...	1.2	4.5	79.3	37.9	...	...	...	88.7	84.3	65.0	...	80.8	
Kurnool ...	60,603	8,215	1,404	19	51,693	3,016	2,380	126	...	2.3	0.5	85.3	36.7	3.8	1.5	...	96.6	100.0	92.7	94.8	86.7	
Madras ...	31,712	1,973	653	286	23,009	1,055	...	...	...	2.0	14.5	78.0	58.5	...	...	...	100.0	89.9	67.7	95.9	90.4	
Madras ...	24,891	14,200	...	...	19,417	2,857	...	...	...	...	...	63.9	20.1	2.8	...	...	...	89.3	72.3	98.7	60.6	
Madras ...	118,909	6,007	...	...	83,127	2,468	3,278	5	...	...	...	69.9	41.0	...	...	...	...	88.8	44.4	96.0	67.8	
Malabar ...	133,716	9,892	2,213	690	62,599	1,712	...	...	1.7	7.0	46.8	17.3	...	...	...	88.6	67.4	95.1	51.7	95.1	68.4	
Nellore ...	40,483	4,982	515	183	27,416	1,529	...	...	1.3	3.7	67.7	31.0	...	...	...	88.6	62.3	47.6	65.0	85.8	58.6	
Nilgiris, The ...	6,424	886	149	5	3,600	71	...	...	2.7	0.6	66.4	8.0	...	...	...	97.3	40.0	96.6	83.1	98.4	91.3	
North Arcot ...	73,235	14,491	1,175	21	60,600	11,586	2,473	459	...	4.6	0.1	82.7	78.9	3.4	3.2	...	98.8	19.0	89.1	79.9	52.8	
Salem ...	79,720	9,962	3,644	1,369	48,707	3,607	...	...	4.6	13.7	61.1	36.2	...	...	...	92.8	80.3	92.1	76.0	89.7	86.1	
South Arcot ...	84,671	1,612	243	308	69,942	288	3,201	42	...	0.3	19.1	82.6	17.9	3.8	2.6	...	62.5	46.4	91.6	94.2	78.9	
South Canara ...	48,028	13,222	3,035	2,276	30,607	951	...	...	6.3	17.2	63.7	7.2	...	...	...	89.7	91.6	94.9	66.7	94.6	74.3	
Tanjore ...	78,938	6,279	3,747	535	47,384	2,031	4,361	122	...	4.7	8.5	60.0	32.3	5.6	1.9	...	98.9	88.6	95.9	87.7	90.7	
Tinnevely ...	54,253	1,839	1,307	305	64,039	1,989	...	...	1.6	5.9	81.0	36.7	...	...	...	93.1	83.9	94.7	93.7	94.0	93.3	
Trichinopoly ...	71,513	56,065	4,274	865	37,792	677	...	...	7.8	18.8	69.6	36.8	...	...	...	97.8	91.8	98.1	64.1	93.7	86.4	
Vizagapatam ...	26,187	3,270	176	52	47,642	34,981	...	...	0.2	...	78.5	63.6	63.5	...	...	...	98.4	100.0	89.6	70.2	86.5	
Koraput ...	...	...	...	...	20,569	2,185	...	...	...	...	...	68.8	...	...	...	...	...	...	...	92.5	77.9	
Total ...	1,443,191	208,046	28,344	11,308	1,020,866	89,173	24,799	935	2.0	5.6	70.7	43.9	1.7	4.6	...	86.9	81.7	90.9	68.6	95.9	81.8	
Total ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	92.1	77.5

* The verification work done by the Sanitary Assistants to the District Medical and Sanitary Officers is shown herein as required in G.O., No. 329 L., dated 8th August 1906.

† Excludes cases performed in the cantonments.

STATEMENT No. VI showing the number of Vaccinations performed in Municipal towns on children under one year of age. (G.O., No. 1534 L., M.S., dated 6th December 1909.)

Municipalities.	Number of births available for vaccination during the year 1909-1910.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on children under one year during the year ending March 1910.	Date of extension of compulsory vaccination to Municipalities.
	1	2	3	4
Adoni ...	...	1,367	160	512
Anantapur ...	...	269	42	100
Anakapalle ...	...	690	105	425
Bellary ...	...	1,485	311	617
Berhampur ...	...	951	209	465
Bezawada ...	...	979	259	565
Bimlipatam ...	...	301	37	155
Calicut ...	...	2,537	438	1,593
Cannanore ...	...	1,128	188	554
Chicacole ...	...	527	91	298
Chidambaram ...	...	603	123	388
Chingleput ...	...	548	141	222
Cochin ...	...	698	108	682
Cocanada ...	...	2,100	418	1,043
Coimbatore ...	...	1,660	304	336
Conjeevaram ...	...	1,827	460	888
Coonoor ...	...	346	35	131
Cuddalore ...	...	2,161	466	906
Cuddapah ...	...	555	73	399
Dindigul ...	...	1,324	341	701
Ellore ...	...	1,455	358	776
Erode ...	...	644	124	369
Gudiyattam ...	...	818	127	332
Guntur ...	...	1,321	233	681
Karur ...	...	697	108	391
Kodaikanal ...	...	113	16	52
Kumbakonam ...	...	2,067	494	1,027
Kurnool ...	...	954	209	490
Madura ...	...	4,465	1,046	2,578
Mannargudi ...	...	833	145	443
Mangalore ...	...	1,572	199	958
Masulipatam ...	...	1,370	294	745
Mavayaram ...	...	986	168	326
Nandyal ...	...	601	102	320
Negapatam ...	...	1,785	453	920
Nellore ...	...	934	165	421
Onole ...	...	515	134	205
Ootacamund ...	...	761	138	490
Palamcottah ...	...	1,703	353	736
Palghat ...	...	1,782	371	1,079
Parlakimedi ...	...	592	98	383
Periyakulam ...	...	820	164	505
Palni ...	...	694	155	354
Rajahmundry ...	...	1,640	378	878
Salom ...	...	3,342	700	1,998
Srirangam ...	...	678	115	262
Srivilliputur ...	...	1,229	201	899
Tanjore ...	...	2,460	509	1,382
Tellicherry ...	...	1,116	190	567
Tinnevely ...	...	1,678	460	916
Trichinopoly ...	...	3,960	775	1,977
Tirupattur ...	...	641	136	300
Tirupathi ...	...	487	111	274
Tiravannamalai ...	...	782	141	627
Tuticorin ...	...	1,089	261	640
Vaniyambadi ...	...	629	76	460
Vellore ...	...	1,672	272	890
Vizagapatam ...	...	1,325	277	678
Vizianagaram ...	...	1,288	255	672
Walaajpet ...	...	376	46	327
Grand Total ...	73,926	14,965	39,250	

STATEMENT No. VII showing Inspection work done by Deputy Inspectors during the year 1909-1910.

Districts.	Circles.	Number of inspecting officers.					Number of villages visited.					Total number of cases vaccinated.	Number of cases verified.					Total number of successful cases as reported by Deputy Inspectors.	Percentage of successful cases to total number inspected as reported by Deputy Inspectors.	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.	Proportion per cent. of inspection to total number vaccinated.
		1	2	3	4	5	6	7	8	9	10		11	12	13	14	15						
Anantapur.	Anantapur.	...	...	1	...	...	568	...	...	14,953	253	11,455	...	...	11,455	10,046	87.6	...	...	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.	...
		...	...	...	1	...	...	592	...	10,405	294	...	7,624	...	7,624	7,188	94.3	...	...	...	...	...	...
Bellary.	Bellary.	...	...	...	1	...	...	523	...	16,610	283	...	...	...	16,937	14,968	89.9	...	...	...	...	...	...
		...	...	1	...	...	818	...	14,577	290	12,607	...	...	12,607	11,622	92.2	...	...	...	...	...	...	...
Chingleput.	Chingleput.	...	...	...	...	...	...	1,078	...	10,579	248	...	...	...	17,524	14,703	83.9	...	...	...	...	...	...
		...	...	...	1	...	...	990	...	17,048	208	...	...	...	14,533	13,062	84.1	...	...	...	...	...	...
Coimbatore.	Coimbatore.	...	...	...	...	...	...	...	...	16,462	308	...	...	...	...	12,248	81.3	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	15,971	303	...	...	...	11,220	8,639	77.0	...	...	...	...	...	...
Cuddapah.	Cuddapah.	...	...	...	...	...	...	...	...	16,084	246	...	...	...	11,301	10,411	92.1	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	10,629	266	13,279	...	...	13,279	10,518	79.2	...	...	...	...	...	...
Ganjām.	Ganjām.	...	...	...	...	...	...	...	...	15,792	252	10,863	...	...	10,863	9,350	86.1	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	14,834	257	...	...	...	10,923	9,344	68.7	...	...	...	...	...	...
Godavari.	Godavari.	...	...	...	...	...	...	...	...	19,081	245	6,297	...	...	9,919	9,082	86.5	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	10,637	203	...	...	...	6,297	5,423	91.8	...	...	...	...	...	...
Kannur.	Kannur.	...	...	...	...	...	...	...	...	13,268	225	12,846	...	...	12,846	11,625	84.1	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	14,458	282	...	...	...	14,415	13,516	94.2	...	...	...	...	...	...
Madras.	Madras.	...	...	...	...	...	...	...	...	13,052	187	5,156	...	...	5,156	4,883	84.7	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	10,323	238	...	...	...	9,987	9,283	98.5	...	...	...	...	...	...
Nellore.	Nellore.	...	...	...	...	...	...	...	...	17,873	232	...	...	...	12,159	11,148	92.5	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	11,514	198	...	...	...	7,927	7,328	86.1	...	...	...	...	...	...
North Arcot.	North Arcot.	...	...	...	...	...	...	...	...	12,426	268	14,522	...	...	14,522	12,626	80.9	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	22,016	241	...	...	...	14,522	12,626	80.9	...	...	...	...	...	...
South Arcot.	South Arcot.	...	...	...	...	...	...	...	...	9,871	214	...	...	...	5,049	4,200	83.2	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	19,073	290	...	...	...	17,547	13,301	75.8	...	...	...	...	...	...
Tamil Nadu.	Tamil Nadu.	...	...	...	...	...	...	...	...	1,422	26	...	...	...	945	783	82.9	...	...	...	...	...	...
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

APPENDIX.

VACCINATION RETURNS.

Kistna	Ellore	1	1	...	441	392	27,373	276	...	22,72	19,557	860	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</
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* Assistant Deputy Inspectors.
 † Includes 6,539 cases vaccinated in the Emigration depots and the Penitentiary which were not verified by Inspectors of Corporation of Madras.

APPENDIX.

Districts.	Circles.	Number of inspecting officers.					Number of villages visited.			Total number of cases vaccinated.	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.		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			
Tanjore	Tanjore	1	1	1	244	365	351	18,691	225	10,786	13,777	10,786	10,786	10,340	95.9	57.7	...	...	...	...	...
	Negapatam	1	1	1	365	365	351	20,144	263	13,777	13,777	13,777	13,777	12,755	92.8	68.4	...	...	...	...	...
	Pattukkottai	1	1	1	365	365	351	16,589	263	13,777	13,777	13,777	13,777	11,529	95.7	...	...	...	...	...	...
	Kumbakonam	1	1	1	478	478	322	18,623	78	...	...	2,781	12,781	12,666	98.6	...	...	...	...	...	...
	Brilliputtur	1	1	1	478	478	322	19,675	240	13,699	13,699	13,699	13,699	12,748	93.1	69.6	...	...	...	...	...
	Tenkasi	1	1	1	478	478	322	21,270	204	...	...	...	16,427	15,613	95.0	...	...	...	...	...	...
	Trichinopoly	1	1	1	1,172	1,172	459	20,812	257	...	...	20,341	20,341	19,758	97.3	...	...	...	...	...	...
	Ottapidaram	1	1	1	1,172	1,172	459	15,927	257	...	...	15,561	15,561	14,341	92.2	...	...	...	...	...	...
	Trichinopoly	1	1	1	1,172	1,172	459	28,178	264	21,798	21,798	21,798	21,798	20,428	93.7	77.3	...	...	...	...	...
	Ariyalur	1	1	1	1,172	1,172	459	20,055	238	...	...	16,671	16,671	16,180	91.1	...	...	...	...	...	...
	Gunur	1	1	1	1,172	1,172	459	8,931	298	...	...	7,785	7,785	7,500	96.6	...	...	...	...	...	...
	Visagapatam	1	1	1	300	300	388	41,338	232	...	...	30,114	30,114	14,549	72.3	...	...	...	...	...	...
	Visagapatam	1	1	1	300	300	388	30,804	253	27,535	27,535	27,535	27,535	21,691	78.7	...	...	...	...	...	...
	Pattur	1	1	1	300	300	388	37,877	283	...	...	27,309	27,309	24,789	91.1	...	...	...	...	...	...
	Jeypore	1	1	1	1,027	1,027	889	16,866	310	...	...	12,338	12,338	10,945	88.7	...	...	...	...	...	...
	Koraput	1	1	1	1,027	1,027	889	12,591	258	...	...	10,431	10,431	8,916	84.6	...	...	...	...	...	...
	Total	22	23	38	12,645	10,855	16,265	1,517,780	252	299,949	337,650	472,440	1,110,039	889,535	89.1	73.6	71.3	75.3			

* Includes three Assistant Deputy Inspectors employed in Madras.
† In working out these percentages, the figures relating to Madras have not been taken into account.

