

ANNUAL REPORT

OF THE WORK OF THE

VACCINE SECTION OF THE

KING INSTITUTE OF PREVENTIVE MEDICINE,

MADRAS,

AND

REPORT ON VACCINATION

IN

THE MADRAS PRESIDENCY

FOR THE YEAR

1911-1912.

MADRAS

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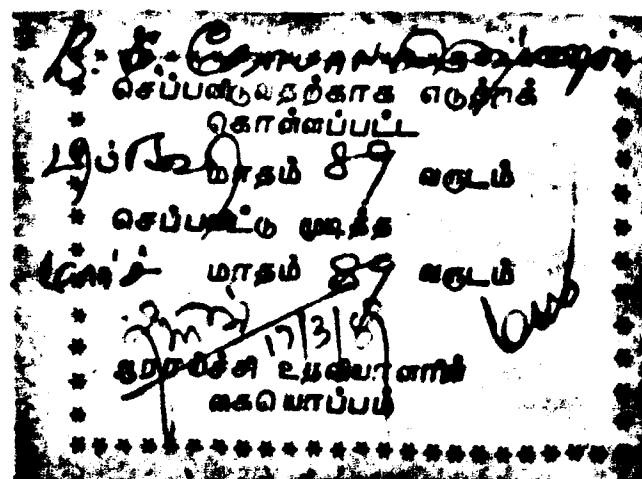
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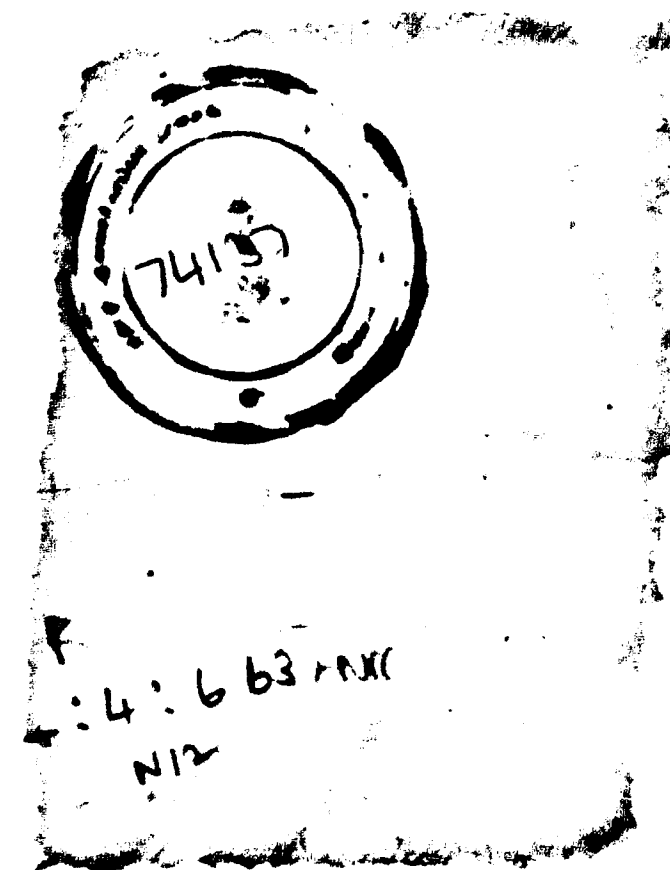
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OFFICE OF THE SANITARY COMMISSIONER,
MADRAS, 4th July 1912.

No. 1798
8.

From

CAPTAIN WM. A. JUSTICE, I.M.S.,
Sanitary Commissioner for Madras,

To

THE SECRETARY TO THE GOVERNMENT OF MADRAS,
Local and Municipal Department.

SIR,

I have the honour to forward herewith the report of the Director, the King Institute of Preventive Medicine, on the working of the vaccine section, and that of the Inspector of Vaccination and Deputy Sanitary Commissioner on the progress of vaccination in the Madras Presidency during the official year 1911-12.

2. The matter referred to in the second clause of paragraph 2 of the Director's report is one of detail and steps will be taken to ensure a more punctual submission of the fortnightly returns.

3. It is satisfactory to note that the quality of vaccine manufactured at the King Institute showed an improvement over the previous year although the percentage of success attained, viz., 89.55, still leaves much to be desired. I do not propose to discuss the question raised in paragraph 4 *et seq.* of the Director's report, as it would obviously serve no useful purpose to do so within the narrow limits of a forwarding letter. Various factors are at work to account for the poor results, and it would be unsafe to rely solely upon the returns received to point to any particular case. Nothing but a systematic inspection of work of the vaccinators by the Inspector of Vaccination or other responsible officer will lead to a fairly satisfactory solution of the difficulty. This was not possible hitherto to the extent, desirable owing to there being but a single Inspector of Vaccination for the Presidency, and during the period under report the services of a Deputy Sanitary Commissioner were not available for any length of time. It is hoped that with the appointment of two additional Deputy Sanitary Commissioners and the division of the Presidency into ranges it will be possible to clear up the question. The matter has, however, engaged the attention of both Major Ross and Captain Quirke and the result of their investigation has been duly recorded. There can be no doubt that every effort is being made to produce vaccine of the very best quality.

4. The cold storage installation which is now working well, I hope, held to tide over possible breakdowns in the supply of vaccine arising from the scarcity and insufficiency of calves, outbreaks of foot and mouth diseases among the Institute cattle or other causes.

5. The report on vaccination does not call for any special remarks. The cost for successful case in the Presidency as a whole fell from As. 3-11 to As. 3-9. In local fund areas the cost was As. 3-8 against 3-11 in the previous year, the cost being highest in the Nilgiri district (As. 8-9) and the lowest in Malabar (As. 2-4).

REPORT OF THE KING INSTITUTE, GUINDY.

In municipalities, however, there was an increase in the cost, viz., As. 4-3 against As. 4-1 in 1910-11. The cost was very high in Kodaikānal (As. 12-5), whilst in Trichinopoly it was as low as As. 1-8 *per case*.

6. As regards the inspection work carried out by the Deputy Sanitary Commissioner it is to be regretted that more was not possible owing to circumstances already referred to above. In January 1912, under instructions from the Sanitary Commissioner, I visited Dindigul to inspect certain sanitary schemes proposed by the municipality.

7. The trial scheme of vaccination continued in the same four districts as in the previous year. A separate report on its working will be submitted.

I have the honour to be,

Sir,

Your most obedient servant,

WM. A. JUSTICE, Captain, I.M.S.,
Sanitary Commissioner for Madras.

PART I.

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

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ANNUAL REPORT ON THE WORKING OF THE VACCINE SECTION OF THE KING INSTITUTE OF PREVENTIVE MEDICINE, GUINDY, FOR THE YEAR ENDING 31st MARCH 1912.

THE total amount of vaccine supplied by the Institute during the year under report amounts to 1,873,501 cases, which is practically 20,000 more than last year. This increase may be regarded as a net one as during April only half supplies could be sent out. The failure to send full supplies in April was due to the same causes as were in operation during March 1911. Had the usual supply been issued during April the grand total would have been barely 5,000 short of that for 1908-1909, the year of maximum output. With the exception of April then, and as regards the quantity of vaccine prepared the year may be regarded as a satisfactory one; especially so, as there was no abnormal prevalence of small-pox like what occurred in the early months of 1911. The bulk of the vaccine issued was as usual lanolinated, but glycerinated vaccine was supplied to the Madras Municipality, to the Government of Ceylon, and to a few other persons who specially indented for it. Table I shows the distribution of supplies to various bodies.

TABLE No. I.

Table showing the Quantity of Vaccine supplied to various bodies from 1907-1908 to 1911-1912.

To whom supplied.	1907-1908.	1908-1909.	1909-1910.	1910-1911.	1911-1912.
Government officers including jails ...	21,000	28,898	24,860	58,086	46,722
Agency Tracts ...	27,095	25,936	28,065	27,830	25,160
Military Department ...	9,760	17,954	15,082	12,269	15,917
District Boards ...	1,648,220	1,681,836	1,642,427	1,522,660	1,561,366
Municipalities ...	129,657	135,867	171,760	179,084	177,185
Private Bodies ...	48,112	79,268	55,542	52,688	47,151
Total ...	1,883,853	1,969,054	1,946,746	1,853,657	1,873,501

From this it will be seen that there was a sharp fall in the amount supplied to Government officers including jails, to private bodies and to Agency Tracts, while there was a marked rise in the amount supplied to the Military Department. All these variations put together however represent little more than half the amount involved in the 2.5 per cent. increase in the supplies to District Boards.

2. The system of fortnightly despatches has been continued with the slight modification that despatches falling due on Sundays and postal holidays are made the previous day. The Institute is thus enabled to get registration or certificate of posting for all packets despatched. Previously if a parcel posted on a Sunday, etc., went amissing the local authorities declined to accept liability for it.

The fortnightly returns are still made in a very irregular manner and it becomes a question whether some system cannot be devised to remove this fruitful cause of worry and totally unnecessary correspondence. At the time of writing this report, June 1912, returns for 1911 are still coming in. A large proportion of these belated returns are poor ones, and it is most likely that slackness in submitting returns is associated with slackness in other branches of the work.

REPORT OF THE KING INSTITUTE, GUINDY.

TABLE No. II.

Statement showing the Expenditure incurred during the year 1911-1912 under all heads of expenditure of the Vaccine Section of the King Institute of Preventive Medicine, Guindy.

Detailed heads of account.	Amount.		
	Rs.	A.	P.
Establishment Charges—			
Assistant Director	7,461	11	3
Clerks and Servants	5,995	7	4
Bonus for Clerks and Servants	138	2	9
Deputy Inspectors	4,428	0	5
Famine batta	52	0	0
Travelling allowance of Deputy Inspectors, Clerks and Servants	234	8	1
Total Establishment	18,287	13	10
Supplies, Services and Contingencies—			
Purchase of stores, apparatus, etc.	2,598	3	3
Cost of boxes and receptacles for vaccine	618	13	1
Cost of calves including transport	20,488	1	2
Feeding charges of calves	1,523	9	8
Water-works	456	12	0
Gas works	107	14	10
Purchase and repair of furniture	128	1	0
Hot and cold weather charges	66	13	5
Tour charges	26	6	3
Cleaning charges	71	0	0
Service postage and telegram charges	2,436	12	0
Telephone charges	77	8	0
Office expenses	716	4	7
Pay of menials	1,534	10	6
Miscellaneous	20	0	0
Total Supplies, Services and Contingencies	31,523	13	8
Proportionate cost of stationery supplied for 1911-1912	175	8	10
Cost of clothing supplied for 1911-1912	38	4	0
Cost of repairs to vaccine buildings for 1911-1912	1,680	7	1
do. do. 1910-1911 omitted to be included in the Accounts	8	2	3
Total cost of Stationery, clothing, repairs, etc.	1,902	7	3
Grand total, Vaccine Section	51,009	2	8

TABLE No. III.

Statement showing the Net Expenditure incurred during the year 1911-1912 in the King Institute of Preventive Medicine, Guindy, Vaccine Section.

Particulars.	Amount.	Total.
	Rs.	A. P.
Gross expenditure as per Table No. II		51,009 2 8
Deduct—		
(1) Credits under sale of calves and miscellaneous receipts remitted to treasury	5,231 12 3	
(2) Cost of vaccine supplied to private bodies during the year	2,946 15 0	8,178 11 2
Net Total expenditure		42,520 7 5

REPORT OF THE KING INSTITUTE, GUINDY.

TABLE No. IV.

Statement showing the Number of Cases for which Vaccine was despatched to different bodies—private bodies being excluded—during the year 1911-1912.

To whom supplied.	Number of cases for which Vaccine was despatched.	Rate per case.	Total amount debitable.
			Rs. A. P.
1. Government officers including jails	46,722	440/992 pies	* 1,102 6 9
2. Agency Tracts	25,180		† 623 9 2
3. Military Department	15,917		371 7 8
4. District Boards	1,561,366		‡ 37,229 10 1
5. Municipalities	177,185		§ 4,183 5 9
Total	1,826,850		43,520 7 5

N.B.—In calculating the cost per case of vaccine Rs. 896-3-0 has been deducted from Rs. 43,520-7-5, as the former represents registration charges and will be charged to the bodies concerned.

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

† " " 35 -0-0

‡ " " 789 -11-0

§ " " 58 -2-0

896 -3-0

3. As will be seen from tables II, III and IV the net cost of vaccine supplied to Government officers and public bodies has risen in greater proportion than the amount of vaccine distributed. The net total cost this year is Rs. 43,520-7-5 as against Rs. 37,392-9-9 last year and the cost per case is 4480992 pies and 3906601 pies in the two years respectively. The main increase is noted under cost of calves and feeding. This is partly due to higher rates having to be given on account of scarcity of animals available and it was also tried by means of a more generous diet to compensate for the poor condition of animals, which perforce had to be accepted. There is also a rise in the charges for establishment which is partly marked by the transference of the pay of menials to the heading "Supplies, Services and Contingencies."

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.
	1911.			
1	April	53,163	9,876	84.23
2	May	84,958	16,751	83.53
3	June	109,068	14,655	88.15
4	July	107,729	12,137	89.13
5	August	107,423	11,213	90.54
6	September	111,800	13,886	89.30
7	October	104,704	11,974	89.78
8	November	115,486	9,548	92.36
9	December	107,445	7,733	93.28
	1912.			
10	January	109,484	7,866	93.29
11	February	97,812	12,611	88.67
12	March	97,979	11,988	89.09
	Total	1,206,903	140,739	89.55

TABLE No. VI.

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

1911-1912.

Serial number.	Districts.	Total successful.	Total unsuccessful.	Percentage of success.
1	Anantapur	80,927	1,549	98.28
2	Bellary	25,642	616	97.85
3	Chingleput	80,969	5,783	84.00
4	Chittoor	12,790	1,141	91.80
5	Coimbatore	50,748	16,248	75.74
6	Cuddapah	88,559	2,880	98.05
7	Genjam	73,157	5,369	98.16
8	Godavari	50,008	13,991	78.18
9	Guntur	35,489	4,290	89.20
10	Kistna	63,285	8,160	88.67
11	Kurnool	27,440	1,099	98.16
12	Madura	40,799	9,593	80.96
13	Malabar	189,795	12,911	92.52
14	Nellore	29,831	7,384	79.54
15	Nilgiris, The	5,288	98	98.27
16	North Arcot	66,825	7,465	89.88
17	Ramanad	45,119	1,472	96.84
18	Salem	56,000	5,268	91.40
19	South Arcot	54,554	8,920	85.94
20	South Canara	89,195	2,178	92.49
21	Tanjore	74,500	3,869	94.91
22	Tinnevely	56,583	4,247	93.01
23	Trichinopoly	54,440	5,214	91.26
24	Visagapatam	87,686	9,968	89.77
	Total ...	1,208,903	140,788	89.65

4. Tables V and VI show the percentage rate of success arranged according to the several months of the year, and that obtained by the vaccinators in the various districts. The percentage rate of success has risen by 3.25 per cent. which is a step in the right direction but it does not go far enough, and the rate is still considerably below what has been reported in past years. The poor results are probably due to much the same causes as last year, and no one factor can be stated to have exerted a predominant influence. I cannot however find myself in agreement with the opinion expressed last year by the Acting Sanitary Commissioner in his No. 2195/S., dated 3rd July 1911, that the poor success of last year was in no way due to bad work by the Vaccine staff and I do not think such an opinion could be justified this year either. That the factors relating to the supply, selection and maintenance in good condition of the calves were far from satisfactory cannot be denied, that these may have led to deterioration of the seed lymph and the vaccine prepared from it, and that such deterioration may have been accentuated by indifferent means of storage is probably true, but the fact remains that, be the lymph good or not so good, certain districts invariably report good results and others as invariably report bad results.

TABLE No. VII.

Statement showing the Percentage of Success attained in certain districts selected for comparison in each of the last six years.

Serial number.	District.	1906-1907.	1907-1908.	1908-1909.	1909-1910.	1910-1911.	1911-1912.	Average.
1	Bellary	97.0	97.89	98.51	97.86	98.51	97.85	97.54
2	Anantapur	98.5	96.78	97.54	98.80	94.86	95.28	96.11
3	Kurnool	94.1	96.88	96.96	95.42	96.20	96.16	95.94
4	Godavari	77.7	92.17	89.81	85.44	71.29	78.13	82.43
5	Coimbatore	88.1	91.04	89.57	81.17	75.54	75.74	88.53

5. Table VII shows the percentage rate of success attained in certain districts selected for comparison in each of the last six years. This table does not bear out the statement that the bad results of last year were general throughout the Presidency, but it does show that bad districts were relatively worse last year than good districts. As regards climate, number of vaccinators to population and length of time the vaccine is in transit there does not seem to be much to choose between Bellary and Coimbatore, and as regards density of population on which will depend the numbers of cases available at a time, Coimbatore would appear to have a distinct advantage. Yet the average difference in the percentage success rate over the whole six years is 14 in favour of Bellary. It is figures obtained in districts like Godavari and Coimbatore that have most to do with the reduction in the general average; but, taking into consideration the results got in Bellary and Anantapur, it cannot be maintained that they are entirely due to inferior vaccine.

TABLE No. VIII.

Statement showing the Percentage of Success obtained in the different months of the year for six years and the average for each month during that time.

Serial number.	Months.	1906-1907.	1907-1908.	1908-1909.	1909-1910.	1910-1911.	1911-1912.	Average.
	1911.							
1	April	92.3	95.03	96.71	94.30	88.32	84.33	91.63
2	May	88.4	83.04	93.40	90.91	84.58	88.58	88.15
3	June	90.1	83.59	93.65	87.02	81.22	88.15	88.05
4	July	95.1	93.17	92.84	89.81	85.11	89.13	90.86
5	August	96.3	94.78	94.28	93.20	90.28	90.54	93.28
6	September	95.1	95.76	93.66	93.47	93.46	89.30	93.29
7	October	94.8	95.35	93.96	93.79	85.28	89.73	91.96
8	November	94.8	96.49	96.56	91.52	86.85	92.28	93.06
9	December	95.7	97.28	97.38	93.36	87.31	93.38	93.88
	1912.							
10	January	95.1	97.66	98.27	98.08	87.00	98.29	94.06
11	February	95.9	88.16	97.71	90.85	91.91	88.57	93.85
12	March	94.5	87.55	96.67	91.92	98.63	89.08	93.89

6. Table VIII shows the percentage success obtained in the different months of the year for six years, and the average for each month during that time. In any one year there are irregularities to be met with, but the average figures will be found to vary with the temperature in a very striking manner. Thus January is the coolest and best month while May is the hottest and worst month. The intervening months with the exception of October show a perfectly even rise to the maximum and fall to the minimum. That the temperature to which vaccine is exposed is of great importance is of course well known, but the time element of the exposure is also of great importance. Thus consistently good results are got in the Nilgiris where the exposure to undue heat may be said to be limited to 24 hours, and in Madras City where supplies are made three times a week the results are also consistently good. In this respect it is difficult to account for the very poor show made in the Chingleput district in the two last years. Is this due to bad work or more critical inspection?

TABLE No. IX.

Statement showing the Duration of Storage of Lanthan paste during the official year 1911-1912.

Serial number.	Months	Duration of storage		Remarks
		Minimum period.	Maximum period.	
1911.				
1	April	One day	11 days.	0
2	May	1 week	5 weeks	
3	June	4 weeks	6 weeks	
4	July	4 weeks	7 weeks.	
5	August	5 weeks	12 weeks.	
6	September	4 weeks	Do.	
7	October	3 weeks	4 weeks.	
8	November	Do.	5 weeks.	
9	December	Do.	Do.	
1912.				
10	January	4 weeks	5 weeks.	
11	February	4 weeks	Do.	
12	March	5 weeks	7 weeks.	

TABLE No. X.

Statement showing the Duration of Storage of Glycerinated paste during the official year 1911-1912.

Serial number.	Months.	Duration of storage.		Remarks.
		Minimum period.	Maximum period.	
1911.				
1	April	2 days	5 days.	
2	May	4 days	6 days.	
3	June	1w.	6 weeks.	
4	July	1 week	6 weeks.	
5	August	1 week	12 weeks.	
6	September	4 weeks	Do.	
7	October	Do.	6 weeks.	
8	November	5 weeks	7 weeks.	
9	December	Do.	4 weeks.	
1912.				
10	January	4 weeks	5 weeks.	
11	February	4 weeks	12 weeks.	
12	March	1 week	Do.	

7. Tables IX and X show the length of time the lanthinated and glycerinated vaccines were stored for each month of the year. It will be seen that stored lanthinated vaccine was used more regularly, and that though the maximum period of

storage was less than 1910-1911, the average period of storage was greater. Probably too much stress was laid last year on the ineffectiveness of the ice chests for keeping the vaccine cool enough. That a properly constructed cold store is better than an ice box is entirely correct, but it is doubtful whether the temperature of the vaccine in the chests ever arrived at the point where active deterioration takes place. At the Government Lymph Establishment at Hendon, London, glycerinated vaccine, which is far more readily affected by heat than lanthinated vaccine, is exposed for periods up to two weeks to a temperature of 60° F. in order to remove extraneous micro-organisms, and this exposure is not found to affect materially the potency of the vaccine. I do not think it can be maintained that the opening of the chests for putting in and removing vaccine and ice could have resulted in elevations of the internal temperature aggregating to 60° F. for fourteen days. This is borne out by the figures in table X which show that the average minimum period of storage for glycerinated vaccine was 3½ weeks and the average maximum period nearly eight weeks. These periods correspond to periods of ½—2 weeks in 1910-1911. Had the temperature in the ice chests not been very consistently low this vaccine must have been seriously affected. The chief consumer of glycerinated vaccine is Madras City, but the Ceylon Government also takes a regular supply. No complaints as to the quality of the vaccine has been received from either.

8. The immediate working of the section was under Civil Assistant Surgeon J. St. C. D. Bartley from 1st April 1911 to 23rd June 1911. On the latter date Captain F. W. Cragg, L.M.S., took over and remained in charge for the rest of the year under report. The staff of the section has worked in a satisfactory manner.

THE KING INSTITUTE, GUINDY.
4th June 1912.

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 1911-1912.

From Captain M. J. QUIRKE, I.M.S., Inspector of Vaccination and Deputy Sanitary Commissioner for Madras, to the Sanitary Commissioner for Madras, dated 26th June 1912, No. 554/V.

I have the honour to submit the Annual Report on Vaccination in the Madras Presidency for the year 1911-1912.

2. The office of the Inspector of Vaccination and Deputy Sanitary Commissioner fell vacant on 25th March 1911 consequent on the promotion of Captain W. A. Justice, I.M.S., the permanent incumbent, as Acting Sanitary Commissioner. I assumed charge of the office on 17th July 1911 till which date Captain W. A. Justice, I.M.S., performed the duties connected with this office in addition to his own duties as Acting Sanitary Commissioner. I continued to be in charge till 12th January 1912 when Captain W. A. Justice, I.M.S., reverted to his appointment. Again the appointment fell vacant on 1st February 1912 when Captain W. A. Justice, I.M.S., was appointed as Sanitary Commissioner and remained vacant till the end of the year under report.

3. I inspected vaccination work (143 villages) in the districts of North Arcot, Chittoor, Chingleput and Gōdāvari. Under orders from the Sanitary Commissioner I visited the municipalities of Tiruvannāmalai, Cuddalore, Mayavaram, Adōni and Cocanada in connection with certain sanitary proposals. In July I visited Olakkur in the Tindivanam taluk to investigate regarding the prevalence of guinea-worm infection, submitting a report thereon.

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

Years	Deputy Inspectors.			First-class vaccinators. Rs. 20-15.	Second-class vaccinators. Rs. 15-10.	Probationers. Rs. 7-5.	Total number of vaccinators.
	First grade. Rs. 70.	Second grade. Rs. 60.	Third grade. Rs. 50.				
1910-1911	30	30	35	573	645	127	640
1911-1912	31	34	37	588	657	130	655

5. During the year Chittoor was newly formed.

6. The total vaccination work done by all agencies throughout the Presidency is shown in the following table :—

	1910-1911.	1911-1912.
Primary vaccination	1,266,178	1,455,405
Re-vaccination	174,011	147,492
Total	1,440,189	1,602,897

7. The districts which show the largest increase are Malabar (25,085), Trichinopoly (21,194), Cuddapah (8,304), Anantapur (8,260), Ganjam (5,662), Vizagapatam (5,226), Rāmnād (4,571) and Chingleput (3,787).

Six districts show the largest decrease, viz., Tinnevely (13,164), Salem (10,959), North Arcot (8,481), South Canara (7,312), Guntūr (4,828) and Madras (4,448).

The explanation of decrease as furnished by the Deputy Inspectors of Vaccination concerned are—

Tinnevely.—Want of co-operation on the part of the people and Satter and Srivilliputtūr taluks having been transferred to the Rāmnād district.

Salem.—Due to the prevalence of plague and non-prevalence of small-pox.

North Arcot.—Want of proper help by the village heads and reduction of vaccinators' minimum.

South Canara.—Non-entertainment of temporary vaccinators during the year, non-prevalence of small-pox, short supply of lymph and defective registration.

Guntur.—Inadequate supply of lymph and reduction of vaccinators' minimum.

Madras.—Short supply of lymph, prevalence of cholera and to the bad work of some of the vaccinators.

8. The sub-joined table shows the total successful vaccination by all agencies and the percentage of successful cases including re-vaccination:—

Establishment.	Number of successful vaccinations.				Total of successful vaccinations.	
	1910-1911.		1911-1912.		1910-1911.	1911-1912.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
1	2	3	4	5	6	7
Local Fund vaccination	1,087,800	74,400	1,128,151	60,300	1,198,954	1,198,611
Government do.	10,370	1,360	10,646	861	11,530	11,500
Municipal do.	108,740	20,300	108,700	24,400	133,140	133,100
Quinquennial do.	8,000	2,000	8,401	4,100	12,401	12,500
Dispensaries	5	5	50	50	55	100
Medical establishments	200	4,777	200	5,000	4,000	6,204
Total	1,164,815	112,810	1,250,097	94,754	1,344,850	1,344,721
Establishment.	Ratio per cent. of successful cases.				Ratio per cent. of total successful cases.	
	1910-1911.		1911-1912.		1910-1911.	1911-1912.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
8	9	10	11	12	13	14
Local Fund vaccination	87.0	79.4	89.8	79.4	86.0	89.7
Government do.	89.5	81.7	89.4	82.1	89.9	89.9
Municipal do.	89.3	80.4	89.2	77.3	84.3	89.3
Quinquennial do.	89.3	76.0	89.4	81.6	89.3	89.4
Dispensaries	100.0	100.0	100.0	100.0	100.0	100.0
Medical establishments	67.5	67.5	72.7	72.7	87.4	100.0
Total	87.5	77.5	89.7	77.3	86.9	89.4

9. The following districts show improvement in infantile vaccination compared with the previous year: Coimbatore (11.2), Tanjore (11.1), Nagapattinam and Koraput (11.2), Ramanathapuram (11.1), Trichinopoly (10.4), Nilgiris (9.5) and Godavari (6.7).

The districts which show decrease are: Cuddapah (10.1), Tinnevely (10.0), Salem (7.7), Guntur (6.8) and Coimbatore (5.9).

10. As regards municipalities, 30 towns secured a ratio of 75 per cent. and upwards, against 28 in the previous year. The municipalities showing the largest increase are: Palni and Salem (49.6) each, Bellary (44.0), Anantapur (25.0) and Chittoor (21.8).

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

Establishment.	Total expenditure.		Average cost of each successful case.	
	1910-1911.	1911-1912.	1910-1911.	1911-1912.
Government establishments	Rs. A. P. 2,810 13 4	Rs. A. P. 3,500 8 0	Rs. A. P. 0 5 4	Rs. A. P. 0 6 5
Local Fund do.	1,06,215 0 5	1,74,943 0 1	0 3 11	0 3 0
Municipal do.	33,076 12 8	35,481 3 11	0 4 1	0 4 3
Quinquennial do.	2,682 0 0	2,655 12 8	0 6 7	0 5 9
Total	Rs. 3,08,783 10 8	Rs. 3,16,580 1 11	0 3 11	0 3 9

* Exclusive of the pay and allowances of the Inspector of Vaccination and Deputy Sanitary Commissioner, Madras.

12. 160,567 operations were performed in municipalities during the year under review against 167,344 in the preceding year. The towns that showed a marked decrease are Madras (7,849), Cannanore (2,029), Cocanada (980), Coimbatore (762), Mangalore (746), Tanjore (733) and Adoni (425).

In Madras the decrease is due to large number of cases having been vaccinated during the previous year owing to the virulent epidemic of small-pox in the City. In the remaining towns, the decrease is attributed to one or more of the following causes. Insufficient supply of lymph, plague scare and to the non-entertainment of temporary vaccinators during the year.

13. The following table shows the comparative success obtained by the use of different kinds of lymph in primary vaccination (re-vaccination omitted):—

Number of cases including unknown.	Area.	Method.	Whence obtained.	Percentage of success.
1,264,000	Local Fund	Landline lymph	Supplied by the King Institute of Preventive Medicine, Guindy.	89.6
15,978	Do.	Glycerine lymph	Do.	89.7
16,318	Municipalities	Landline lymph	Do.	99.3
24,204	Do.	Glycerine lymph	Do.	97.6

† Of these twenty-four cases were done with lymph obtained from the Bangalore Vaccine Depot.

Landline paste from the King Institute, Guindy, was used in all the Local Fund districts and municipalities. The percentage of success in the Local Fund area rose from 87.0 to 89.6 and similarly in municipalities from 92.0 to 93.2. In 40,192 cases glycerinated lymph supplied from the King Institute, Guindy, was used, out of these 15,978 were in Local Fund ranges of North Coimbatore and Malappuram and the remaining 24,204 in the Corporation of Madras. This lymph produced a success rate of 69.7 per cent. in Local Fund ranges and 97.6 per cent. in Madras Corporation.

14. 19,198 deaths occurred from small-pox against 17,558 during the previous year.

15. The diagram attached hereto shows the proportion of population protected in the districts and municipalities.

16. Four Deputy Inspectors of Vaccination failed to verify 50 per cent. of cases vaccinated in their ranges. Calicut (44.4), Namakkal (44.2), Malappuram (42.9) and Palghat (38.2). The explanations offered by the Deputy Inspectors concerned for less verification appear to be satisfactory.

17. An additional Deputy Inspector of Vaccination was sanctioned to Trichinopoly district in G.O. No. 904 L., dated 11th July 1911; thus the number on the cadre of Deputy Inspectors of Vaccination rose from 79 to 80 during the year under report, of whom 72 are Certificated Sanitary Inspectors. One retired

from the service. Two died. Seven were fined for carelessness and offences of such sort. One was reduced from first grade to second grade for misconduct. Another is now under suspension, pending enquiry into certain irregularities reported against him. The service registers of all Deputy Inspectors of Vaccination have been verified and brought up to date, with the exception of those, who are on probation and who are not provided with service registers.

15. The Trial Scheme of Vaccination continues to be in force in the whole of Chingleput district and in portions of North Arcot, South Arcot and Madras districts.

The statistics of Chingleput district show that the average yearly number of operations during the five years 1907 to 1911 was 80,830 whilst the average for the five years 1901-1905 before the introduction of the "Trial Scheme" was 43,773.

The year 1906 is omitted as both old and new schemes were in force during different periods of that year.

The average percentage verified by Deputy Inspectors of Vaccination in this district under the Trial Scheme was 90.6 against 58.1 under former conditions. This work has been carried out by a staff of three Deputy Inspectors of Vaccination and 12 vaccinators whereas formerly two Deputy Inspectors of Vaccination and twenty-seven vaccinators were employed.

The question of extension of this scheme to other districts, as contemplated in G.O. No. 1435 L., dated the 27th October 1911, is engaging the attention of this office and will form the subject of a separate communication.

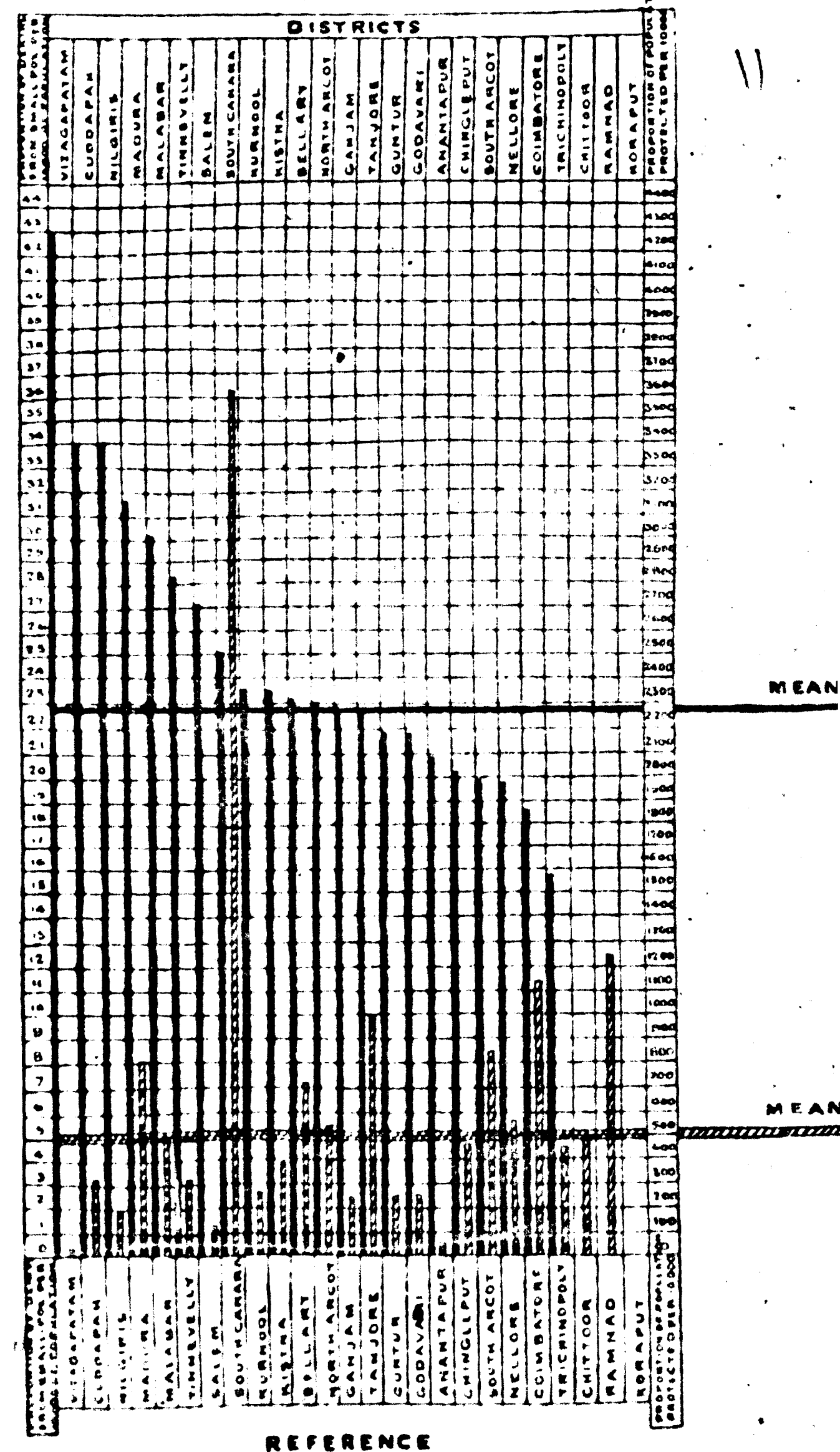
I have the honour to be,

Sir,

Your most obedient servant,

M. J. QUIRKE, Captain, I.M.S.,

Inspector of Vaccination and Deputy Sanitary
Commissioner for Madras.



REFERENCE

THICK BLACK LINES REPRESENT THE PROPORTION FOR 10000 PROTECTED FROM SMALL POX PER 10000 OF POPULATION. SHADY LINES REPRESENT THE PROPORTION OF DEATHS FROM SMALL POX PER 10000 OF POPULATION.

APPENDIX.

VACCINATION RETURNS.

A—VACCINE

STATEMENT No. 1 showing the Particulars of Vaccination in the

ANNEXURE NO. 1 showing the Particulars of Vaccination in 1911.											
Number.	District.	Circles.	Population of districts or circles according to the census of 1911.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Total number of operations.	Primary.
1	2	3	4	5	6	7	8	9	10	11	
						Males.	Females.	Total.			
1	Anantapur.	Anantapur circle	444,221	126	8	7,406	7,187	14,782	1,440	14,774	6,000
		Pennakonda do.	510,544	119	9	7,232	7,708	14,941	1,382	14,940	6,000
		Total of district	954,765	142	17	14,638	14,895	29,748	1,379	29,714	12,000
2	Bellary.	Bellary circle	916,261	126	12	7,043	7,488	14,531	1,284	14,531	6,000
		Harpet do.	916,261	126	12	6,281	6,229	12,510	984	11,484	6,100
		Total of district	916,261	146	24	13,324	13,717	27,041	1,008	26,015	12,100
3	Chingleput.	Chingleput circle	1,340,212	420	4	8,408	9,108	17,516	4,401	17,516	9,500
		Pennakonda do.	1,340,212	420	4	8,151	7,388	15,539	3,888	15,467	7,000
		Total of district	1,340,212	420	12	16,559	16,496	33,055	8,289	32,983	16,500
4	Chittoor.	Chittoor circle	528,016	104	11	8,379	8,702	17,081	1,566	17,081	4,200
		Karavemangala do.	528,016	104	12	9,141	8,449	17,590	1,466	16,000	7,000
		Total of district	1,056,032	218	23	17,520	17,151	34,671	3,032	33,081	11,200
5	Cuddalore.	North Cuddalore circle	480,202	106	10	9,761	8,266	18,027	1,802	17,225	6,000
		East do.	554,719	228	9	10,483	9,914	20,397	2,266	19,001	6,900
		South do.	507,984	211	8	7,988	7,294	15,282	1,910	13,372	6,400
		Central do.	540,861	614	8	9,915	8,804	18,719	2,012	16,001	6,400
		Total of district	2,083,766	265	26	37,047	35,278	72,325	7,990	62,000	25,700
6	Cuddalore.	Cuddalore circle	308,000	127	8	5,899	5,092	10,991	1,374	11,365	4,000
		Proddutur do.	307,773	126	8	5,567	4,003	9,570	1,196	10,866	4,200
		Siddurthi do.	306,438	121	8	5,481	5,221	10,702	1,338	12,179	4,500
		Total of district	922,211	148	24	16,947	14,316	31,263	3,910	34,410	12,700
7	Gadag.	Barkur circle	1,128,614	267	9	7,471	7,110	14,581	1,399	14,581	6,000
		Chikmagalur do.	1,128,614	267	9	7,404	7,422	14,826	1,357	14,826	6,000
		Ganjan Hill circle	1,128,614	267	12	6,272	6,497	12,769	1,064	11,705	2,300
		Arka circle	1,128,614	267	8	6,546	6,017	12,563	1,571	12,014	2,300
		Parthivani circle	1,128,614	267	8	6,105	7,299	13,404	1,344	13,010	6,700
		Purnachattapur circle	1,128,614	267	8	6,546	6,260	12,806	1,601	12,207	2,500
		Total of district	2,128,614	267	57	44,345	50,708	95,053	1,440	79,000	20,000
8	Gadag.	Gannur circle	341,528	127	7	6,144	6,008	12,152	1,739	12,152	3,000
		Kannur do.	374,472	127	10	12,444	11,888	24,332	2,433	22,900	3,000
		Pulivem do.	120,908	127	8	3,719	3,460	7,179	896	6,283	1,000
		Puducherry do.	127,120	127	10	6,140	2,940	9,080	908	10,078	4,000
		Purnachattapur circle	78,916	127	4	1,564	1,268	2,832	283	2,549	700
		Total of district	1,042,944	240	38	29,911	31,464	61,375	7,266	55,000	15,000

DEPARTMENT.

Madras Presidency for the official year 1911-1912.

Vaccination.		Re-vaccination.				Percentage of successful cases in which the results were known.		Percentage of persons successfully vaccinated per 1,000 of population.		Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.		Unknown.		Total number of operations.		Percentage of successful cases in which the results were known.		Percentage of persons successfully vaccinated per 1,000 of population.		Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
1 and under 6 years.	Total of all ages.	Unknown.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.	Persons successfully vaccinated per 1,000 of population.	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	
5,488 6,089	14,287 15,261	41 98	350 1,015	230 919	25 35	97.2 98.7	98.5 98.2	33.0 31.7	0.2 0.5	7.1 2.6	...	...	...	...	
11,527	29,548	123	1,245	1,122	51	98.4	98.8	32.3	0.4	3.7	27,755	26.1	208	0.2	
5,105 2,830	14,233 11,894	20 16	129 517	109 502	3 10	98.7 98.8	98.5 99.1	29.7	1.3 0.1	1.4 1.9	...	...	...	...	
8,125	26,617	26	655	627	12	98.5	98.9	20.7	0.1	1.8	80,925	23.7	1,108	1.2	
4,371 2,527 3,251	12,556 10,304 12,130	1,971 2,012 1,505	2,025 1,381 2,573	1,125 630 1,325	340 170 371	93.2 78.5 88.1	98.8 82.0 90.2	...	11.5 13.0 9.0	16.8 12.3 14.4	...	...	...	...	
10,449	26,008	5,489	5,979	3,060	681	52.2	60.4	27.3	11.1	14.7	27,703	22.2	468	0.4	
4,620 8,766	9,888 16,412	544 217	989 253	384 160	180 21	87.9 99.2	81.2 90.5	19.4 22.8	4.8 1.3	19.6 11.4	...	...	...	...	
12,299	26,204	771	1,151	676	170	99.6	99.1	22.0	2.6	14.6	...	...	...	...	
4,975 5,521 5,064	11,118 11,804 12,011	1,223 1,900 1,489	1,870 2,282 2,448	749 754 1,808	604 510 137	99.9 99.0 91.4	51.1 90.7 92.7	24.3 24.4 27.6	7.7 10.0 2.6	21.6 21.8 6.6	...	...	...	...	
20,223	46,995	5,168	5,989	3,350	1,140	74.8	80.8	24.6	7.6	12.3	54,585	27.1	1,197	0.6	
4,886 4,288 5,612	10,254 10,289 1,088	160 96 300	180 268 269	164 225 234	1 18	91.5 96.5 92.3	87.2 89.1 98.2	25.6 29.3 27.1	1.4 0.9 0.7	0.5 0.6 0.7	...	...	...	...	
14,951	12,011	556	736	634	19	98.4	99.7	27.2	1.6	2.6	45,425	41.9	690	0.8	
5,245 4,289 4,229 6,025 6,349 7,360	12,221 12,524 10,207 10,169 12,224 11,896	294 444 570 685 426 329	307 1,613 949 992 1,127 157	276 1,432 851 300 1,074 83	37 102 25 46 36 20	94.7 95.6 93.8 98.2 94.7 94.2	81.2 94.9 52.1 96.7 97.5 94.3	...	2.7 2.3 5.0 5.6 3.0 4.0	7.4 6.3 11.7 11.7 3.2 21.5	...	...	...	...	
26,220	71,245	2,049	4,254	4,016	276	92.8	93.2	24.0	2.9	6.0	60,900	29.4	278	0.2	
5,954 10,982 2,120 5,846 1,951	9,618 16,426 4,102 12,466 2,787	320 2,122 222 648 680	180 677 192 468 85	47 301 136 361 40	20 226 54 52 22	83.4 75.2 84.1 76.0 71.2	31.2 52.8 80.5 82.1 44.5	22.4 28.9 32.4 22.1 29.0	6.7 9.0 4.4 4.7 14.1	10.7 45.7 12.4 18.7 27.1	...	...	...	...	
26,572	66,228	4,726	1,822	678	665	76.9	87.8	20.2	7.8	22.5	50,729	22.7	727	0.5	

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	District.	Circle.	Population of districts or circles according to the census of 1911.	Average population per square mile.	Average number of vaccinations employed throughout the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccination.	Total number of operations.	Under 1 year.
						Males.	Females.	Total.	
28	Guntur.	Guntur circle	1,008,541	288	10	8,027	7,007	15,034	1,563
29		Narasimhapur circle	1,008,541	288	10	8,385	8,774	17,159	1,818
30		Eluru do.	1,008,541	288	11	8,199	7,968	16,167	1,627
		Total of district	1,008,541	288	31	24,611	23,749	48,360	5,008
31	Kistna.	Eluru circle	1,894,736	319	16	13,264	11,929	25,193	2,729
32		Manjupatnam circle	1,894,736	319	14	11,415	10,815	22,230	2,396
33		Narasimhapur do.	1,894,736	319	13	10,254	10,112	20,366	2,170
		Total of district	1,894,736	319	43	34,933	32,856	67,789	7,295
34	Kurnool.	Guntur circle	806,561	118	12	6,028	6,504	12,532	1,334
35		Kurnool do.	407,100	118	12	6,489	7,660	14,149	1,549
		Total of district	1,213,661	118	24	12,517	14,164	26,681	2,883
36	Madras.	Dindigul circle	1,738,818	354	6	7,975	7,888	15,863	1,695
37		Madras do.	1,738,818	354	6	7,888	8,619	16,507	1,765
38		Periyakulam do.	1,738,818	354	8	9,121	8,689	17,810	1,895
		Total of district	1,738,818	354	18	24,984	25,196	50,180	5,355
39	Madras.	Tamilnadu circle	2,808,117	486	11	16,515	15,081	31,596	3,380
40		Calicut do.	2,808,117	486	10	16,779	17,578	34,357	3,680
41		Palghat do.	2,808,117	486	12	25,888	25,471	51,359	5,400
42		Total of district	2,808,117	486	33	59,182	58,130	117,312	12,460
43	Madras.	Kavali circle	1,204,278	180	9	8,586	7,806	16,392	1,732
44		Gudur do.	1,204,278	180	7	6,201	6,084	12,285	1,295
45		Kanigiri do.	1,204,278	180	9	6,380	6,068	12,448	1,324
		Total of district	1,204,278	180	25	21,167	19,958	41,125	4,351
46	Madras.	Shigri circle	89,400	89	3	8,816	8,806	17,622	1,874
47		Total of district	89,400	89	3	8,816	8,806	17,622	1,874
48	North Arcot.	Vellore circle	1,894,736	319	8	7,825	7,007	14,832	1,580
49		Elurupatti do.	1,894,736	319	8	6,782	6,389	13,171	1,400
50		Trappanur do.	1,894,736	319	10	9,107	9,166	18,273	1,927
		Total of district	1,894,736	319	26	23,714	22,562	46,276	4,907
51	Madras.	Periyakulam circle	1,894,736	319	9	9,291	8,607	17,898	1,909
52		Periyakulam do.	1,894,736	319	10	9,272	8,647	17,919	1,909
53		Trappanur do.	1,894,736	319	10	9,107	9,166	18,273	1,927
		Total of district	1,894,736	319	29	27,670	26,420	54,090	5,745

DEPARTMENT.

Madras Presidency for the official year 1911-1912—continued.

Successful.	Re-vaccination.	Percentage of successful cases in which the results were known.	Percentage of persons successfully vaccinated in 1,000 of population.	Percentage of unknown cases to total cases.	Average annual number of persons successfully vaccinated during previous 5 years.	Average annual number of deaths from small-pox during previous 5 years.
Under 4 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.
11	12	13	14	15	16	17
5,785	14,514	445	197	177	8	80.9
5,124	10,616	230	600	566	30	87.6
7,286	14,610	380	390	791	14	94.2
17,967	39,140	1,104	1,217	1,134	83	90.0
12,097	22,252	486	243	196	17	80.6
10,474	18,746	482	536	431	48	80.6
11,070	18,746	619	362	187	80	86.6
38,881	60,330	1,897	1,023	763	104	88.8
5,538	12,783	114	1,346	1,270	45	96.7
4,607	15,459	162	323	297	20	92.9
11,241	28,282	276	1,879	1,607	65	96.3
4,624	11,701	670	804	290	26	75.4
3,588	9,197	1,071	676	332	101	70.9
3,618	12,890	2,872	257	108	111	80.4
11,480	28,198	8,018	1,397	880	287	77.6
14,778	25,372	678	2,868	1,473	70	86.0
12,908	27,811	276	6,308	4,448	78	86.6
26,260	45,386	1,970	1,801	1,186	86	95.6
25,914	48,940	1,164	1,264	807	112	91.7
79,240	162,489	3,980	10,977	7,008	286	92.3
7,686	12,542	1,091	491	168	115	83.7
8,797	10,228	670	314	207	61	82.0
4,978	9,609	710	1,468	465	162	76.2
18,482	25,408	2,471	1,908	963	347	90.8
1,500	4,530	19	740	677	6	90.3
1,500	4,530	19	740	677	6	90.3
4,740	12,548	1,127	305	146	68	82.2
5,007	10,971	859	306	43	84	82.9
6,979	11,540	1,777	234	91	68	86.2
7,407	14,248	856	308	293	53	91.4
25,242	40,981	4,011	1,243	866	280	90.4
7,474	16,007	308	486	490	29	96.3
9,577	17,193	139	692	440	97	97.6
8,344	14,627	162	604	467	89	99.9
25,206	48,410	678	1,564	1,307	123	97.3

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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 1911.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Primary	
						Males.	Females.	Total.		Total number of operations.	Under 1 year.
54	Salem.	Salem circle	500,311	282	6	7,941	7,589	15,530	2,588	18,188	7,510
55		Sankari circle	605,893	303	10	10,473	9,928	20,399	2,040	21,323	8,918
56		Hosur do.	601,383	213	9	8,168	7,806	15,972	1,775	14,368	8,518
		Total of district	1,707,527	256	25	26,580	25,321	51,901	2,076	52,373	24,946
57	South Arcot.	Cuddalore circle	494,072	797	4	7,988	7,908	15,896	3,974	17,138	7,148
58		Tridhachalam circle	481,832	383	7	8,130	7,589	15,699	2,248	16,320	6,194
59		Thirukkoyilur circle	445,559	501	6	5,918	6,175	12,038	2,015	12,445	3,104
60		Thiruvannam do.	395,248	463	6	5,478	6,121	10,599	2,120	11,047	3,601
61		Villupuram do.	507,906	735	4	8,336	8,314	16,650	4,182	17,401	6,943
		Total of district	2,384,665	545	26	35,850	36,087	70,937	2,738	74,655	28,886
62	South Canara.	Northern circle			8	7,388	7,161	14,599	1,827	14,364	5,388
63		Central do.	1,146,815	288	8	6,486	6,382	12,774	1,597	12,256	4,078
64		Southern do.			9	8,092	8,577	16,999	1,875	14,082	4,447
		Total of district	1,146,815	288	25	22,665	21,777	44,442	1,778	40,712	13,896
65	Tanjore.	Tanjore circle	410,870	417	9	8,245	7,534	15,779	1,753	15,418	5,739
66		Negapatam do.	536,503	791	9	8,809	8,379	17,188	1,910	16,387	7,004
67		Patankkottai do.	563,520	407	9	10,037	9,261	19,328	2,148	17,694	4,789
68		Kumbakonam do.	618,122	978	11	9,755	9,208	18,968	1,724	18,025	7,933
		Total of district	2,128,014	578	28	36,876	34,893	71,268	1,875	67,604	26,465
69	Tinnevely.	Tenkasi circle			10	12,709	11,130	23,832	2,383	23,542	11,977
70		Srivakantam do.	1,660,730	381	8	10,547	9,422	19,969	2,406	18,675	10,540
71		Ottappidaram do.			7	8,612	7,274	15,786	2,227	15,327	7,072
		Total of district	1,660,730	381	25	31,761	27,826	59,587	2,383	57,444	29,589
72	Trichinopoly.	Trichinopoly circle			12	11,821	11,564	23,385	1,949	23,580	9,817
73		Triyalur do.	1,941,044	393	10	8,748	8,497	17,245	1,724	16,929	6,447
74		Namakal do.			10	8,773	8,326	17,099	1,710	17,646	7,100
		Total of district	1,941,044	393	34	29,342	28,387	57,729	1,804	58,165	23,164
75	Vilupattanam.	Gurupur circle			9	4,802	3,997	8,799	978	6,871	1,139
76		Vilupattanam circle			12	12,570	12,278	24,848	2,071	24,283	7,645
77		Government vaccinators (Gudem hills)	1,433,678		1	235	190	445	445	450	80
78		Vizianagaram circle			13	14,027	15,054	29,081	2,237	21,332	5,188
79		Parvatipuram do.			14	11,868	11,866	23,739	1,695	20,271	8,394
		Total of district	1,433,678		49	43,517	43,385	86,902	1,774	78,212	22,366
80	Kannur.	Jeyore circle	395,537	71	9	7,772	7,159	14,931	1,659	14,041	3,105
81		Kozhikottai do.	239,353	77	8	6,079	5,809	11,848	1,493	9,942	2,578
		Total of district	634,890	74	17	13,851	13,028	26,879	1,581	23,983	5,678
		Total of circles and districts	37,783,254	291	700	707,444	668,468	1,375,927	1,966	1,340,247	489,945

VACCINATION RETURNS.

DEPARTMENT.

Madras Presidency for the official year 1911-1912—continued.

Vaccination.		Re-vaccination.		Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total cases.		Average annual number of persons 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.
1 and under 5 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
6,162	13,894	558	139	86	34	89.5	83.8	28.1	3.4	24.5		
9,889	19,287	566	855	299	68	91.2	80.2	32.5	2.6	17.7		
4,491	13,504	287	1,917	1,063	161	95.7	94.2	25.2	1.8	7.9		
20,482	46,885	1,381	2,441	2,037	258	91.9	93.1	28.6	2.3	10.4	70,240	41.1
3,319	10,842	4,277	308	130	105	83.7	64.0	22.2	24.4	34.1		
6,865	18,898	721	445	325	62	89.1	82.7	29.5	4.4	11.7		
6,982	10,846	467	173	114	33	90.5	82.0	27.0	3.7	19.2		
5,778	9,598	533	159	99	28	91.8	81.8	24.5	4.8	23.9		
4,067	11,203	2,987	701	254	254	77.6	60.2	22.6	17.0	36.2		
27,011	66,387	8,846	1,735	937	482	86.1	71.9	26.1	10.6	27.0	67,275	29.4
6,980	12,946	404	733	492	80	92.7	75.3	35.2	2.8	10.9		
5,893	11,335	260	1,008	769	75	94.2	82.4	2.0	2.0	7.4		
5,646	12,355	388	3,396	2,521	207	90.4	80.6	2.8	2.8	7.9		
18,019	36,696	1,042	5,187	3,783	422	92.4	80.2	26.2	2.6	8.2	42,614	37.2
7,681	14,740	237	694	630	30	97.1	94.8	37.4	1.5	4.4		
7,679	15,678	124	1,015	948	35	96.8	95.9	31.0	1.1	5.4		
8,761	16,086	240	1,662	1,613	109	98.0	87.0	31.4	1.4	5.6		
8,384	17,897	137	1,647	1,524	72	92.2	98.8	30.6	0.8	4.5		
32,325	63,856	798	5,211	4,700	246	95.7	92.8	32.2	1.2	4.8	66,655	32.2
8,048	21,097	580	1,245	1,161	22	91.9	94.9	34.4	3.5	1.8		
6,518	17,843	234	1,649	1,545	56	96.7	97.0	3.4	1.2	3.4		
6,221	14,249	132	1,191	1,160	13	94.4	98.6	0.9	0.9	1.1		
20,787	53,189	936	4,085	3,866	81	94.1	96.8	34.4	1.6	2.2	70,301	42.3
9,642	19,804	1,273	317	209	52	88.8	78.9	20.1	5.4	16.4		
7,247	14,790	904	1,157	951	138	92.3	88.8	5.8	5.8	11.9		
6,986	14,677	1,188	811	285	61	88.4	90.4	6.6	6.6	16.4		
33,875	49,171	3,385	1,785	1,395	241	89.7	90.8	26.1	5.7	13.5	48,046	21.7
2,381	6,627	129	1,689	1,762	112	98.8	96.4	1.9	1.9	5.8		
11,108	20,733	1,504	1,182	770	245	91.0	82.2	6.8	6.8	20.7		
152	398	39						8.7	8.7			
9,011	15,470	2,534	9,847	6,469	1,027	82.2	82.7	11.9	11.9			
8,494	18,969	277	3,666	2,465	50	96.0	96.8	1.4	1.4			
32,061	62,157	4,483	15,684	12,484	1,484	90.4	87.9	52.1	61.2	9.2	92,027	64.2
6,993	12,550	201	1,194	719	8	90.7	60.6	38.5	1.4	0.7		
8,580	8,647	131	3,006	1,474	35	88.1	74.8	44.1	1.3	1.7		
10,578	21,197	332	2,200	2,198	48	89.6	69.5	87.4	1.4	1.3	24,277	38.8
849,804	1,148,696	59,609	84,288	61,111	7,811	89.3	79.9	31.1	4.4	9.3	1,262,588	33.4

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1911.	Average population per square mile.	Average number of vaccinators employed throughout the year.	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	Military Cantonments.	Bangalore	100,834	7,447	2	857	357	1,214	607	448	370
2		Secunderabad	118,569	8,977	4	3,890	8,608	7,498	1,874	2,158	2,324
		Total of cantonments	219,403	6,559	6	4,747	3,965	8,712	1,482	2,606	2,618
	* Medical Subordinates.					8,700	205	8,905		497	8
1		Adoni	31,645	2,281	1	548	458	1,005	1,005	828	787
2		Anantapur	8,457	840	1	285	100	385	385	227	172
3	Belliary	Ankirepalle	20,625	1,719	1	577	350	927	927	704	879
4		Belliary	34,968	6,991	3	2,034	1,808	3,842	1,114	2,687	2,205
5		Belliary	31,458	5,244	1	795	549	1,344	1,344	911	726
6	Bhimavaram	Bhimavaram	82,867	5,978	1	724	487	1,211	1,211	980	835
7		Bhimavaram	8,314	179	1	200	209	409	409	332	264
8		Bhimavaram	78,417	7,293	3	4,243	2,375	6,618	2,206	5,039	4,784
9	Channarayana	Channarayana	28,957	5,791	1	1,400	980	2,380	2,380	1,386	1,106
10		Channarayana	17,852	5,017	1	522	890	1,412	1,412	886	817
		Channarayana									
11	Chidambaram	Chidambaram	21,827	10,658	1	445	295	740	740	681	470
12		Chidambaram	11,226	9,301	1	889	231	1,120	1,120	443	379
13		Chidambaram	30,023	20,023	1	1,144	518	1,662	1,662	1,051	832
14	Chinnai	Chinnai	54,110	9,018	2	6,898	1,888	8,786	4,393	1,309	1,309
15		Chinnai	47,607	11,030	2	1,188	671	1,859	1,859	1,289	840
		Chinnai									
16	Chittoor	Chittoor	53,234	13,456	3	957	756	1,713	1,713	1,617	1,172
17		Chittoor	9,933	1,710	1	328	150	478	478	353	312
18		Chittoor	58,574	4,364	2	1,381	1,236	2,617	1,308	2,373	1,739
19	Cuddalore	Cuddalore	17,807	908	1	718	308	1,026	1,026	858	746
20		Cuddalore	26,062	9,035	1	388	408	796	796	604	504
		Cuddalore									
21	Dindigul	Dindigul	37,819	12,606	2	1,412	1,086	2,498	1,249	1,249	1,321
22		Dindigul	16,701	6,701	1	513	383	896	896	738	676
23		Dindigul	28,399	25,899	1	511	389	900	900	787	624
24	Durgam	Durgam	40,520	9,006	1	785	568	1,353	1,353	1,180	937
25		Durgam	17,074	8,537	1	383	253	636	636	543	404
		Durgam									
26	Kodakandam	Kodakandam	2,006	528	1	120	69	189	189	102	78
27		Kodakandam	64,947	14,280	3	1,140	842	1,982	1,982	1,824	1,348
28		Kodakandam	26,040	5,204	1	632	558	1,190	1,190	1,211	893
29	Madras	Madras	518,660	19,200	28	22,521	15,740	38,261	24,071	20,102	20,102
30		Madras	144,130	5,084	4	5,789	4,200	9,989	4,994	4,994	4,994
		Madras									
31	Mannargudi	Mannargudi	21,398	3,568	1	423	348	771	771	720	529
32		Mannargudi	46,412	9,090	2	1,475	1,017	2,492	1,246	1,246	1,100
33		Mannargudi	42,123	2,113	2	1,072	611	1,683	1,683	1,190	865
34	Miyavaram	Miyavaram	27,121	9,040	1	861	519	1,380	1,380	1,090	798
35		Miyavaram	16,290	3,607	1	438	354	792	792	522	384
		Miyavaram									
36	Negapatam	Negapatam	60,164	11,538	4	3,559	2,160	5,719	1,437	5,083	2,687
37		Negapatam	33,246	2,078	1	774	497	1,271	1,271	902	602
38		Negapatam	13,286	3,281	1	348	283	631	631	499	335
39	Palamcottah	Palamcottah	18,329	1,845	2	954	562	1,516	1,516	1,231	844
40		Palamcottah	44,909	11,227	3	1,353	604	1,957	1,957	1,253	893
		Palamcottah									
41	Palghat	Palghat	24,319	4,185	2	1,100	1,051	2,151	1,075	2,032	1,362
42		Palghat	18,970	13,812	1	688	398	1,086	1,086	983	804
43		Palghat	18,715	24,953	1	442	389	831	831	788	638
44	Rajahmundry	Rajahmundry	13,911	7,640	1	729	279	1,007	1,007	682	455
45		Rajahmundry	48,417	14,538	2	2,288	812	3,100	1,550	1,740	1,241
		Rajahmundry									

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

VACCINATION RETURNS.

DEPARTMENT.

Madras Presidency for the official year 1911-1912—continued.

vaccination.		Re-vaccination.				Percentage of successful cases in which the results were unknown.		Persons successfully vaccinated per 1,000 of population.		Percentage of unknown cases to total cases.		Average number annual of persons successfully vaccinated during previous 5 years.		Average number annual of deaths from small-pox during previous 5 years.	
Successful.			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	
46	425	...	766	621	...	94.9	82.4	10.4	...	...	1,389	18.2	102	1.1	
540	2,998	29	4,387	3,538	46	95.7	81.5	67.5	0.9	1.0	4,820	42.4	1	0.008	
586	3,481	29	5,153	4,169	46	95.6	81.6	35.4	0.8	0.9	6,168	28.7	108	0.4	
4	323	54	8,424	5,882	375	72.7	78.1	...	10.9	4.5	...	...	...	...	
81	769	189	127	76	49	97.7	97.4	26.7	15.0	88.9	1,304	41.2	8	0.2	
16	180	22	140	52	43	93.7	88.6	28.6	9.7	30.7	380	42.6	17	0.7	
49	661	2	257	147	18	94.2	80.2	39.2	0.8	5.1	826	40.4	15	0.7	
184	2,439	...	747	486	1	92.1	75.7	85.7	...	0.1	2,443	69.9	56	1.6	
109	884	...	487	398	27	91.6	86.5	89.2	...	5.5	1,326	42.1	2	0.06	
112	958	1	280	149	14	97.9	73.3	33.7	0.1	6.4	1,194	36.3	6	0.2	
22	285	1	190	143	2	88.6	76.1	46.0	0.3	1.1	449	48.2	2	0.2	
724	4,924	90	1,991	1,910	44	97.9	98.1	87.1	0.4	2.2	7,141	91.1	84	0.4	
461	1,168	39	1,138	552	197	94.3	69.1	60.1	3.0	17.4	2,879	82.2	88	1.1	
138	661	2	391	387	...	96.4	99.0	58.7	0.3	...	1,020	57.4	5	0.3	
46	564	46	111	86	18	90.5	82.5	31.4	0.7	18.2	730	34.2	1	0.04	
29	431	4	439	212	148	95.9	86.0	54.4	0.2	3.6	802	51.8	3	0.3	
187	959	30	684	214	148	94.0	41.0	58.6	2.9	21.4	1,285	61.6	48	2.1	
889	2,010	110	6,885	1,122	6,086	79.1	73.6	59.3	4.2	75.7	3,800	70.2	69	2.9	
278	986	111	686	173	159	78.6	34.0	38.4	8.6	28.9	1,218	26.9	136	2.8	
200	1,390	31	254	155	66	93.9	78.8	28.7	1.4	22.0	1,632	30.3	18	0.3	
86	346	...	125	118	2	98.0	95.8	46.7	...	1.6	508	51.2	17	0.7	
448	2,202	90	244	168	24	96.4	75.0	41.9	3.8	9.8	2,564	46.3	4	0.07	
188	621	1	894	261	61	94.8	78.4	49.5	0.2	16.5	865	48.7	5	0.2	
89	886	...	246	211	3	97.8	86.6	41.8	...	0.8	1,110	44.3	4	0.2	
698	2,065	6	362	217	81	95.1	77.2	60.3	0.8	22.4	2,252	59.5	87	1.0	
113	694	2	126	101	...	95.1	78.3	47.6	0.4	...	722	43.2	7	0.4	
118	760	9	124	35	85	97.7	97.4	34.1	1.1	68.5	885	35.9	32	0.9	
147	1,090	49	186	187	95	95.0	90.7	30.8	3.5	18.8	1,254	30.9	45	1.1	
64	489	1	133	57	19	90.6	54.6	30.9	0.2	15.4	607	34.3	8	0.6	
5	68	9	95	48	27	94.6	63.2	45.1	8.6	28.4	113	38.9	1	0.3	
264	1,038	16	289	175	11	90.6	78.8	28.0	0.9	4.6	2,007	31.0	48	0.7	
395	1,149	4	339	128	101	95.2	58.1	49.0	0.3	30.7	1,173	45.0	5	0.5	
2,370	23,632	497	18,779	7,101	1,652	97.6	58.1	59.2	1.9	11.3	30,700	59.2	164	0.3	
3,313	7,512	15	2,394	2,058	8	95.6	88.5	71.3	0.9	0.8	8,387	63.2	21	0.2	
120	677	8	66	32	16	95.1	84.0	33.1	1.1	24.2	841	39.3	36	1.7	
479	1,736	...	730	657	15	98.0	93.2	48.4	...	2.1	3,536	78.0	120	2.5	
171	1,101	...	493	414	...	92.5	84.0	36.0	...	...	1,336	31.7	9	0.2	
189	1,007	...	316	208	22	92.4	65.8	44.8	...	7.3	1,170	43.5	17	0.6	
98	535	7	151	143	6	91.3	98.6	41.3	1.2	4.0	708	43.3	2	0.1	
1,918	4,710	48	656	445	57	93.3	74.3	85.7	0.9	8.7	4,187	69.3	26	0.4	
94	683	5	479	191	104	78.9	50.9	25.7	0.6	21.7	1,054	31.7	51	0.3	
53	398	9	144	122	14	80.2	98.8	38.2	1.3	9.7	622	44.3	29	0.1	
64	719	...	795	673	...	98.8	84.7	73.6	...	...	1,382	70.8	3	0.07	
258	1,168	19	749	446	394	94.7	87.0	36.0	1.6	31.2	1,502	33.4	8	...	
850	1,846	...	264	186	...	88.3	63.5	45.4	...	...	2,060	46.5	73	1.6	
286	948	...	137	127	...	95.9	100.0	58.8	...	...	1,022	56.6	4	0.08	
63	704	1	108	63	24	95.5	80.2	41.1	0.1	22.9	811	61.4	31	...	
74	680	...	441	340	22	91.1	33.3	66.5	...	5.0	...	...	...	...	
339	1,686	2	1,360	811	136	91.3	66.4	49.5	0.1	10.1	2,850	68.9	31	0.6	

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 1911.	Average population per square mile.	Average number of vaccinators employed throughout the year.	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
46	Municipalities—cont.	Salem ...	59,158	18,064	2	1,775	1,361	3,136	1,568	2,902	2,321
47		Srirangam ...	24,790	3,543	1	846	612	1,458	1,258	1,219	683
48		Srivilliputhur ...	20,066	20,761	1	558	473	1,031	1,066	1,056	967
49		Tanjore ...	60,341	805	2	1,190	775	1,965	992	1,594	1,068
50		Tellicherry ...	29,258	11,703	2	1,246	817	2,063	1,031	1,267	942
51		Tenali ...	18,185	6,098	1	426	288	714	714	631	297
52		Tinnevely ...	44,806	7,469	2	1,164	704	1,868	934	1,534	1,179
53		Trichinopoly ...	123,512	14,899	3	3,689	2,639	6,328	2,119	5,807	3,484
54		Tirupattur ...	10,470	4,184	1	320	178	504	604	438	362
55		Tirupati ...	16,701	5,010	1	844	237	1,081	861	442	367
56		Tiruvannamalai ...	21,244	1,931	1	435	385	820	820	858	578
57		Tuticorin ...	40,185	11,461	6	2,447	1,796	4,243	2,449	1,348	767
58		Vaniyambadi ...	20,406	5,830	1	401	261	662	769	732	591
59		Vellore ...	49,746	8,102	2	1,503	728	2,231	1,126	1,632	1,355
60		Vizagapatam ...	43,418	8,349	1	961	670	1,631	1,061	1,250	897
61		Vizianagaram ...	37,560	7,510	2	1,814	1,484	3,298	1,624	1,923	1,348
62		Walajpet ...	9,962	9,962	1	827	159	986	486	327	282
		Total of municipalities.	2,601,925	7,051	122	95,678	60,980	156,658	1,282	111,070	78,066
		Grand Total ...	40,388,179	311	828	816,564	738,583	1,555,147	1,861	1,455,420	563,637

Note.—(1) Difference between number of operations and number of persons vaccinated, equals 52,635 which represents secondary operations.
 (2) This statement does not include the statistics of dispensary vaccination.
 N.B.—In calculating the percentage of success shown in this statement and statement No. III, unknown cases have not been taken into account.
 * Excludes the population of the Cantonnments of Bangalore and Secunderabad.
 † In finding the average number of persons vaccinated, the total work of medical subordinates is excluded.

SUMMARY.

	Total number of persons vaccinated.		Total number of operations performed.		Percentage of successful cases in which results were known.		Average number of persons vaccinated by each vaccinator.		Number of children successfully vaccinated.		Ratio of successful vaccinations per 1,000 of population.	Total cost of department.	Average cost of each successful case.
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under six years.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
By Special staff (statement No. I).	1,408,018	147,184	1,455,420	147,262	89.7	77.2	928	1,861	563,637	572,092	34.5	Rs. 1,630,111	0.3
By Dispensary staff (statement No. III).	65	130	65	130	96.8	84.9	...	...	...	...	...	...	...
By other agencies, if any.	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,408,083	147,314	1,455,485	147,492	89.7	77.2	928	1,861	563,637	572,092	34.5	Rs. 1,630,111	0.3

* Exclusive of the pay and allowances of the Inspector of Vaccination and Deputy Sanitary Commissioner, Madras.

DEPARTMENT.

Madras Presidency for the official year 1911-1912—continued.

vaccination.			Re-vaccination.			Percentage of successful cases in which the results were unknown.		Persons successfully vaccinated per 1,000 of population.	Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average annual number of deaths from small-pox during previous 5 years.	
Successful.	Total of all ages.	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.
1 and under 6 years.			14	15	16	17	18	19	20	21	22	23	24	25
207	2,388	...	300	258	...	99.8	81.9	58.1	...	...	2,495	42.2	60	1.0
439	1,168	...	89	33	...	98.4	89.2	48.4	2.6	5.1	1,196	48.2	8	0.3
25	1,002	...	64	46	...	94.9	79.8	36.1	...	...	1,104	37.9	1	0.03
225	1,815	176	390	95	265	92.9	70.9	23.4	11.2	68.4	2,154	25.7	104	1.7
188	1,168	8	810	205	155	92.7	31.3	46.9	0.6	19.1	1,153	39.4	4	0.1
172	481	35	140	77	44	80.4	80.2	80.7	5.9	31.4	...	...	...	...
169	1,433	22	414	234	40	94.8	91.6	39.4	1.4	11.8	1,542	34.4	10	0.2
1,064	5,149	34	1,051	829	88	97.6	86.1	48.4	0.6	8.4	6,407	51.9	31	0.2
4	422	...	81	79	...	99.8	97.6	47.9	...	...	713	68.1	20	1.9
44	416	1	189	118	8	94.8	88.5	31.9	0.2	5.8	610	31.1	2	0.1
90	683	1	84	47	5	79.7	79.7	34.4	0.1	7.8	764	35.9	19	0.9
364	1,225	31	2,905	2,551	160	93.4	92.6	94.0	2.3	5.2	1,687	41.5	15	0.4
98	705	...	51	38	4	96.3	78.6	36.3	...	7.8	892	43.7	5	0.2
228	1,493	...	723	235	462	99.4	86.2	34.6	...	68.9	1,806	36.3	114	2.3
275	1,115	8	480	171	107	86.6	45.8	29.6	0.2	22.3	1,532	35.3	23	0.5
191	1,440	...	1,578	1,176	26	74.2	75.9	69.9	...	1.6	2,501	66.8	13	0.3
51	817	2	166	144	20	94.6	98.6	46.3	0.6	12.0	448	44.8	1	0.1
21,666	108,038	1,553	49,497	28,469	10,001	94.2	78.2	50.5	1.5	20.2	181,551	50.5	1,652	0.6
579,062	1,290,467	61,345	147,982	99,861	18,333	88.7	77.2	23.4	4.2	12.4	1,394,189	84.5	23,671	0.6

vaccinated, equals 52,635 which represents secondary operations.
 which are exhibited separately in statement No. III.
 statement No. III, unknown cases have not been taken into account.
 subordinates is excluded.

A—VACCINE DEPARTMENT.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1911-1912.

Number.	District.	Circle.	Expenditure.										Peons, etc.		Total pay of establishment.	
			Inspector of Vaccination and Deputy Registrar.	Pay.	First grade.	Second grade.	Third grade.	Deputy Inspectors.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.	Pay.	Total pay of establishment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69
54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74
59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78
63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89
74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92
77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97
82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98
83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101
86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102
87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108
93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109
94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113
98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117
102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	

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Expenditure.																
Number.	Districts.	Circles.	Inspector of Vaccination and Deputy Registrar.	Deputy Inspectors.				Vaccinators.				Fees, etc.		Total pay of establishment.		
				Pay.	First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	Anantapur.	Anantapur circle	...	...	...	...	1	689 1 9	2	2	4	1,501 3 0	1	84 0 0	2,544 4 9	
2		Pennakonda do.	...	...	...	1	460 0 0	3	3	3	4	1,791 9 0	1	84 0 0	2,885 9 0	
3		Total of district	...	...	...	2	1,139 1 9	6	6	6	8	3,292 12 0	2	168 0 0	4,869 18 9	
4	Bellary.	Bellary circle	...	...	...	1	529 7 11	4	4	7	2	1,505 4 1	1	88 8 0	2,198 4 0	
5		Hosur do.	...	...	...	1	715 18 3	4	6	6	2	3,023 1 2	1	81 9 0	2,819 7 5	
6		Total of district	...	...	...	1	1,345 5 3	8	8	13	4	3,527 5 3	2	170 1 0	4,942 11 5	
7	Chingleput.	Chingleput circle	...	...	...	1	754 7 9	...	...	4	...	1,423 11 0	1	89 8 0	2,077 10 9	
8		Siddipet do.	...	...	...	1	673 13 2	...	...	4	...	1,243 10 9	1	84 0 0	1,911 7 11	
9		Ponnur do.	...	...	...	1	720 0 0	...	...	4	...	974 13 10	1	84 0 0	1,773 12 10	
10		Total of district	...	...	...	3	2,147 4 11	...	...	12	...	3,863 2 7	3	257 8 0	5,767 15 6	
11	Chittoor.	Chittoor circle	...	...	...	1	938 0 0	6	6	4	1	1,323 5 8	1	83 13 11	2,344 3 7	
12		Karvetnagar circle	...	...	...	1	720 0 0	4	4	7	2	1,569 8 10	1	90 8 0	2,399 11 10	
13		Total of district	...	...	...	1	1,658 0 0	10	11	3	2,913 9 6	2	173 5 11	4,643 15 6		
14	North Coimbatore.	North Coimbatore circle	...	...	...	1	493 9 0	3	3	5	2	1,615 9 9	1	97 8 0	2,812 9 9	
15		East do.	...	...	...	1	540 0 0	1	1	7	1	1,375 6 9	1	98 8 0	2,813 14 9	
16		South do.	...	...	...	1	480 0 0	2	2	2	2	1,328 10 10	1	96 0 0	1,904 10 10	
17		Central do.	...	...	...	1	543 8 1	3	3	9	1	1,441 1 3	1	96 0 0	2,439 4 4	
18		Total of district	...	...	...	3	1,771 12 1	8	8	21	6	4,765 11 7	4	388 0 0	9,920 7 8	

[illegible]

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1911-1912—continued.

APPENDIX.

Sl. No.	District.	Circles.	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.						
1	Madras.	Anantapur circle	347 4 6	602 1 1	3,553 10 4	...	1,173 6 9	2,350 4 7	...	3,553 10 4	14,647	0 3 11			
2		Penukonda do.	340 9 3	741 5 2	3,437 7 5	...	981 10 0	2,455 13 5	...	3,437 7 5	16,173	0 3 5			
3		Total of district	687 13 9	1,403 6 3	6,991 1 9	...	2,154 15 9	4,806 2 0	...	6,991 1 9	30,820	0 3 8			
4	Andhra.	Bollary circle	436 0 0	533 4 6	3,111 8 6	...	1,021 11 0	2,089 13 6	...	3,111 8 6	15,468	0 3 3			
5		Hosur do.	578 10 9	433 4 3	3,580 6 7	...	1,176 10 7	2,403 12 0	...	3,580 6 7	11,758	0 4 10			
6		Total of district	714 10 9	1,024 8 11	6,691 15 1	...	2,198 5 7	4,493 9 6	...	6,691 15 1	27,224	0 3 11			
7	Chingleput.	Chingleput circle	828 9 1	613 14 5	3,617 3 3	...	1,383 4 6	2,233 13 9	...	3,617 3 3	13,691	0 4 2			
8		Saltpet do.	772 11 0	656 12 0	3,340 14 11	...	1,103 10 1	2,237 4 10	...	3,340 14 11	10,924	0 3 8			
9		Pondur do.	944 6 6	942 0 4	3,675 3 8	...	1,392 7 10	2,282 11 10	...	3,675 3 8	14,461	0 4 1			
10	Chittoor.	Total of district	2,553 10 7	2,211 10 9	10,633 4 10	...	3,884 6 5	6,748 14 5	...	10,633 4 10	39,086	0 4 4			
11		Chittoor circle	893 8 11	593 7 7	3,023 15 1	...	1,247 8 9	2,074 11 4	...	3,023 15 1	10,273	0 5 8			
12		Karvetangur circle	908 9 1	769 13 9	4,166 2 8	...	1,413 8 11	2,753 9 9	...	4,166 2 8	16,589	0 4 0			
13	Chimabot.	Total of district	1,853 13 0	1,363 5 4	7,796 1 9	...	2,760 12 8	4,995 5 1	...	7,796 1 9	26,871	0 4 8			
14		North Chimabot circle	408 2 8	725 3 1	3,345 18 6	...	1,008 0 0	2,337 15 6	...	3,345 18 6	11,447	0 4 6			
15		East do.	433 1 11	583 6 4	3,705 7 0	...	1,470 16 11	2,234 7 1	...	3,705 7 0	12,563	0 4 8			
16	Chimabot.	South do.	314 6 10	580 12 11	2,799 14 7	...	941 14 0	1,858 0 7	...	2,799 14 7	13,342	0 3 8			
17		Central do.	469 4 0	766 12 5	3,756 4 8	...	1,847 6 7	3,077 13 3	...	3,756 4 8	12,233	0 4 10			
18		Total of district	1,634 15 5	3,081 2 9	13,576 9 10	...	6,094 6 4	9,310 3 4	...	13,576 9 10	50,554	0 4 4			

APPENDIX.

VACCINATION RETURNS.															
Sl. No.	District.	Circles.	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.						
14	Cuddapah.	Cuddapah circle	905 10 7	516 15 8	3,585 14 4	...	1,145 8 6	2,240 10 10	...	3,585 14 4	10,333	0 4 3			
15		Proddatur do.	273 14 3	438 10 10	3,596 15 10	...	1,278 9 7	2,317 14 1	...	3,596 15 10	10,465	0 4 4			
16		Sikshout do.	469 14 4	3,354 5 8	...	1,278 9 7	2,077 12 1	...	3,354 5 8	11,323	0 4 9				
		Total of district	1,543 8 9	1,475 8 7	9,067 3 10	...	2,946 14 10	6,127 5 0	...	9,067 3 10	32,645	0 4 5			
17	Cuddapah.	Berhampur circle	470 2 0	459 8 0	3,173 6 10	...	1,446 8 7	1,727 3 2	...	3,173 6 10	13,453	0 3 9			
18		Chibole do.	438 15 0	705 1 9	3,296 9 11	...	1,103 4 7	2,104 5 4	...	3,296 9 11	13,466	0 3 9			
19		Gauhati Hill tracts do.	1,704 13 9	435 0 1	3,323 8 0	...	1,278 9 7	2,077 12 1	...	3,323 8 0	11,063	0 4 1			
20		Aaks circle	529 3 0	541 11 4	3,388 14 6	...	1,471 0 9	1,937 13 9	...	3,388 14 6	10,463	0 4 5			
21		Parikimedi circle	337 6 5	319 4 3	3,315 0 10	...	1,338 0 7	1,980 7 7	...	3,315 0 10	14,403	0 3 8			
22		Purushothapur do.	885 8 0	607 4 0	2,795 9 8	...	906 3 1	1,890 7 7	...	2,795 9 8	11,945	0 3 8			
		Total of district	3,305 14 9	3,068 8 3	19,543 1 9	...	10,978 8 3	9,470 9 6	...	19,543 1 9	75,361	0 4 3			
23	Godavari.	Godavari circle	597 4 7	435 10 3	2,591 9 8	...	885 1 5	1,706 9 2	...	2,591 9 8	9,665	0 4 3			
24		Pajanjandry do.	810 3 6	317 1 1	2,422 13 8	...	1,461 8 5	2,062 2 1	...	2,422 13 8	10,393	0 3 1			
25		Peddapur do.	692 11 9	317 11 12	3,417 10 0	...	1,278 9 7	2,147 10 3	...	3,417 10 0	13,707	0 4 0			
26		Ebadistalam do.	689 3 5	331 11 8	2,805 6 9	...	1,278 9 7	2,062 2 1	...	2,805 6 9	9,807	0 4 0			
		Total of district	3,052 10 1	2,988 3 3	15,032 14 7	...	7,316 7 4	7,810 7 3	...	15,032 14 7	47,943	0 5 1			
28	Guntur.	Guntur circle	254 8 6	570 10 3	3,195 12 1	...	1,176 3 4	2,019 9 9	...	3,195 12 1	14,691	0 3 5			
29		Narasapur circle	839 5 1	539 8 7	3,113 5 10	...	1,278 9 7	2,062 2 1	...	3,113 5 10	11,233	0 4 5			
30		Bapatla circle	745 8 1	600 15 11	3,275 13 0	...	1,300 10 0	2,175 3 0	...	3,275 13 0	14,310	0 3 9			
		Total of district	1,839 0 8	1,741 0 8	9,684 13 11	...	3,654 1 3	6,030 13 8	...	9,684 13 11	40,233	0 3 10			
31	Kistna.	Ellore circle	1,135 14 3	763 8 3	4,697 12 10	...	923 13 6	3,074 15 4	...	4,697 12 10	22,447	0 3 3			
32		Manjhapalem circle	1,323 13 9	760 6 11	4,400 6 0	...	1,278 9 7	2,062 2 1	...	4,400 6 0	20,173	0 3 10			
33		Narasapur do.	1,150 14 8	734 0 3	4,461 7 0	...	1,111 1 3	3,350 5 9	...	4,461 7 0	18,418	0 3 10			
		Total of district	3,619 9 8	2,236 15 3	13,519 9 10	...	3,311 8 6	10,698 1 4	...	13,519 9 10	61,042	0 3 8			
34	Kurnool.	Cumbum circle	963 6 9	633 11 11	3,234 1 2	...	885 7 6	2,109 15 8	...	3,234 1 2	14,153	0 3 9			
35		Kurnool do.	314 4 4	566 9 6	3,522 13 0	...	1,081 12 3	2,440 16 9	...	3,522 13 0	15,756	0 3 6			
		Total of district	577 11 1	1,100 5 5	6,806 13 2	...	1,971 6 2	4,865 7 0	...	6,806 13 2	29,909	0 3 8			
36	Madras.	Dindigul circle	784 6 5	716 3 0	3,065 7 2	...	885 7 6	2,109 15 8	...	3,065 7 2	11,931	0 4 2			
37		Madurai do.	853 2 11	647 11 2	3,588 0 3	...	1,413 13 8	2,175 3 0	...	3,588 0 3	13,413	0 4 1			
38		Periyakulam do.	1,017 9 5	731 14 3	4,012 1 1	...	1,340 9 3	2,666 7 10	...	4,012 1 1	12,388	0 3 4			
		Total of district	2,655 2 9	2,095 12 4	10,680 6 6	...	3,654 14 0	7,035 10 6	...	10,680 6 6	38,788	0 5 1			
39	Madras.	Madras Presidency Town	1,249 12 9	...	9,044 5 1	...	9,044 5 1	...	...	9,044 5 1	...	...			
		Total of district	1,249 12 9	...	9,044 5 1	...	9,044 5 1	...	...	9,044 5 1	...	...			

VACCINATION RETURNS.

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1911-1912.
 † The pay bills of Vaccinators from No. 1210 to March 1911 were cashed after 31st March 1911 and the cost has to be included in the accounts of this official year. Hence the increase in the cost of each successful case.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1911-1912—continued.

Expenditure.																
Number—cont.	Districts—cont.	Circles—cont.	Inspector of Vaccination and Deputy Secretary	Pay.	Deputy Inspectors.			Vaccinators.				Peons, etc.		Total pay of establishment.		
					First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.		Pay.	
43	Malabar.	Tellocherry circle	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44		Calicut do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
45		Palghat do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46		Malappuram do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
47	Nilgiris.	Total of district	...	...	...	...	...	...	...	...	...	...	...	...	...	...
48		Kavali	...	...	...	...	...	...	...	...	...	...	...	...	...	...
49		Gudur	...	...	...	...	...	...	...	...	...	...	...	...	...	...
50	Kannur.	Kannur	...	...	...	...	...	...	...	...	...	...	...	...	...	...
51		Nilgiris circle	...	...	...	...	...	...	...	...	...	...	...	...	...	...
52	Kannur.	Total of district	...	...	...	...	...	...	...	...	...	...	...	...	...	...
53		Vellore circle	...	...	...	...	...	...	...	...	...	...	...	...	...	...
54		Ernakulam do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
55		Polar do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
56	Kannur.	Thiruvananthapuram do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
57		Total of district	...	...	...	...	...	...	...	...	...	...	...	...	...	...
58	Kannur.	Srivillipattur circle	...	...	...	...	...	...	...	...	...	...	...	...	...	...
59		Paramangudi do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
60		Thiruvananthapuram do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
61		Total of district	...	...	...	...	...	...	...	...	...	...	...	...	...	...

APPENDIX.

VACCINATION RETURNS.

54	Salom circle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
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A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1911-1912—continued.

Number.	District.	Circle.	Expenditure—cont.				Paid from				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.	Total.												
			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.			
40	Madras.	Tellicherry circle	971	12	9	1,295	7	0	5,016	11	7	...	1,679	0	9	3,287	10	10	...	5,016	11	7	26,844	0	2	0
41		Calicut do.	1,145	7	3	1,252	13	11	4,872	2	7	...	1,132	0	7	3,760	3	0	...	4,872	2	7	32,254	0	2	5
42		Palghat do.	1,119	5	0	2,052	2	4	6,100	14	1	...	1,869	4	1	4,781	10	0	...	6,100	14	1	46,522	0	2	1
43		Malappuram circle	1,132	9	6	2,288	3	2	5,743	4	4	...	1,227	15	3	4,514	5	1	...	5,743	4	4	44,447	0	2	1
		Total of district	4,269	2	6	6,819	9	5	21,732	0	7	...	5,898	4	6	16,883	11	11	...	21,732	0	7	150,067	0	2	4
44	Madras.	Kavali	748	11	6	540	6	8	4,112	11	4	...	1,867	2	9	2,725	9	7	...	4,112	11	4	18,780	0	4	10
45		Gudur	727	5	4	431	6	6	3,406	4	1	...	1,359	13	0	2,066	7	1	...	3,406	4	1	10,436	0	5	1
46		Kanigiri	544	4	10	467	9	9	2,950	5	1	...	841	9	1	2,068	13	0	...	2,950	5	1	10,107	0	4	8
		Total of district	2,015	5	8	1,439	6	11	10,468	4	8	...	3,968	8	10	6,860	11	8	...	10,468	4	8	34,462	0	4	10
47	North Arcot.	Yelore circle	672	4	0	240	11	0	2,844	2	11	...	1,496	15	0	1,347	7	11	...	2,844	2	11	5,507	0	8	9
48		Ranipet do.	678	4	0	240	11	0	2,844	2	11	...	1,496	15	0	1,347	7	11	...	2,844	2	11	5,507	0	8	9
49		Pondicherry do.	918	6	10	469	6	7	2,908	6	5	...	1,479	0	9	1,498	13	2	...	2,908	6	5	12,732	0	3	8
50	Madras.	Trichy do.	805	14	6	468	7	6	2,709	8	4	...	1,439	10	1	1,339	13	2	...	2,709	8	4	10,913	0	4	1
51		Trichy do.	793	4	6	555	14	0	2,589	4	10	...	1,147	8	7	1,483	1	8	...	2,589	4	10	11,529	0	2	7
52		Trichy do.	786	6	5	972	12	8	3,313	10	7	...	1,315	13	2	2,097	14	6	...	3,313	10	7	14,561	0	2	8
		Total of district	2,772	0	3	2,054	8	9	11,618	11	3	...	5,312	2	8	6,203	8	6	...	11,618	11	3	46,886	0	3	9
53	Madras.	Arakkonam circle	451	14	6	631	15	10	2,885	8	8	...	1,320	1	7	1,685	6	11	...	2,885	8	8	17,117	0	2	8
54		Paramagudi do.	271	7	0	646	15	8	3,373	13	11	...	1,087	10	6	2,386	8	5	...	3,373	13	11	17,558	0	2	1
55		Trichy do.	208	2	3	700	8	1	8,413	1	1	...	961	7	9	2,447	9	4	...	8,413	1	1	16,014	0	2	8
		Total of district	1,019	8	9	1,978	7	2	9,703	7	2	...	3,373	8	10	6,203	8	6	...	9,703	7	2	49,689	0	2	1

APPENDIX.

VACCINATION RETURNS.

District.	Circle.	Expenditure—cont.				Paid from				Number of all successful primary vaccination.	Average cost of each successful case.
		17	18	19	20	21	22	23	24		
		Total cost.				Total.					
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.
Salem.	Salem circle	376 14 7	536 8 2	2,765 0 6	...	1,347 11 0	1,687 5 6	...	2,765 0 6	14,083	0 2 2
	Banarhat do.	440 9 10	838 18 10	2,618 14 5	...	1,341 11 9	2,607 4 8	...	2,618 14 5	19,873	0 2 1
	Hostur do.	517 6 8	667 12 7	2,968 4 1	...	1,128 8 10	1,514 0 3	...	2,968 4 1	15,167	0 2 1
	Total of district	1,334 15 1	2,042 4 7	9,343 3 0	...	3,478 8 7	5,849 10 5	...	9,343 3 0	48,922	0 2 1
South Arcot.	Outdalore circle	247 7 9	570 9 0	2,083 1 1	...	977 3 9	2,085 14 4	...	2,083 1 1	10,972	0 4 6
	Viduthalam do.	425 4 0	547 8 8	2,641 7 3	...	874 9 10	1,766 13 5	...	2,641 7 3	14,223	0 3 0
	Tindivanam do.	509 1 8	449 11 0	2,713 0 10	...	1,302 8 9	1,510 8 1	...	2,713 0 10	10,980	0 4 0
	Villupuram do.	545 5 2	428 6 1	2,713 7 0	...	1,303 13 7	2,042 8 6	...	3,496 1 1	11,472	0 4 9
South Canara.	Northern circle	746 4 1	450 6 2	4,133 9 3	...	1,331 9 4	2,601 15 11	...	4,133 9 3	18,438	0 4 11
	Central do.	665 6 0	418 1 11	3,460 10 10	...	1,254 5 8	2,225 11 1	...	3,460 10 10	12,104	0 4 7
	Southern do.	819 5 1	528 6 5	3,866 13 7	...	1,074 9 5	2,012 4 2	...	3,966 13 7	14,576	0 4 2
	Total of district	2,230 15 2	1,396 14 8	11,460 7 7	...	3,669 8 8	7,728 15 2	...	11,600 7 8	40,418	0 4 7
Tanjore.	Tanjore circle	237 1 4	535 8 3	2,609 11 7	...	782 11 0	1,687 0 7	...	2,609 11 7	15,360	0 3 10
	Negapatnam do.	941 6 9	1,094 5 4	3,522 2 2	...	1,273 1 9	2,345 3 2	...	3,522 2 2	16,013	0 2 5
	Palani do.	180 0 8	932 3 7	2,866 15 9	...	760 10 3	1,361 5 6	...	2,866 15 9	17,680	0 2 5
	Kumbakonam do.	260 13 3	926 1 3	3,183 4 9	...	647 13 9	1,261 5 0	...	3,180 4 9	18,911	0 2 8
Tinnevely.	Total of district	1,009 5 7	3,466 8 5	12,098 2 3	...	3,664 6 9	8,370 3 6	...	12,098 2 3	64,566	0 2 10
	Tanjore circle	527 11 9	675 5 4	3,243 13 8	...	809 11 3	3,494 2 5	...	3,243 13 8	23,258	0 2 4
	Struthantham do.	480 8 0	640 2 2	2,976 0 8	...	855 5 7	2,020 3 8	...	2,976 0 8	19,888	0 2 4
	Ottapidaram do.	329 8 9	571 10 9	3,072 10 5	...	1,141 8 6	1,931 1 11	...	3,072 10 5	13,409	0 2 2
Tiruchinopoly.	Total of district	1,337 10 0	1,847 9 8	9,292 1 4	...	2,806 10 4	5,385 7 0	...	9,128 1 4	67,055	0 2 7
	Tiruchinopoly circle	738 15 10	825 14 8	4,592 10 3	...	1,322 14 9	2,263 11 6	...	4,592 10 3	20,018	0 3 9
	Arivayal do.	710 10 5	704 6 4	3,777 11 5	...	983 8 1	2,615 8 4	...	3,777 11 5	16,741	0 3 10
	Namakkal do.	656 6 0	784 7 1	2,748 6 0	...	688 9 2	2,049 18 7	...	2,748 6 0	14,812	0 3 0
Tiruvallur.	Total of district	2,100 0 3	2,304 11 1	11,118 12 6	...	2,978 11 0	8,136 1 6	...	11,118 12 5	60,568	0 3 6
	Ganapur circle	1,856 1 0	607 14 3	4,465 2 6	...	1,377 3 0	2,927 15 6	...	4,505 2 6	8,983	0 3 3
	Visagapatnam circle	894 9 3	864 5 0	4,837 13 2	...	1,190 1 4	3,197 13 10	...	4,837 13 2	21,808	0 3 3
	Government vaccinators (Gudum hills)	116 4 0	95 3 4	866 0 6	...	323 4 11	43 11 7	...	866 0 6	338	1 1 4
Tiruvannamalai.	Visagapatnam circle	682 4 0	1,111 0 8	4,337 4 8	...	1,568 8 7	2,378 12 4	...	4,207 4 8	21,939	0 3 1
	Patturipatturam do.	682 13 7	970 8 10	4,447 11 0	...	1,249 4 7	2,994 6 6	...	4,447 11 0	22,472	0 3 2
	Total of district	4,171 15 10	3,668 9 10	17,774 0 10	...	5,427 6 2	12,142 10 8	...	17,774 0 10	74,541	0 3 10
	Jeypore circle	487 2 0	772 13 3	3,741 1 5	...	1,460 7 9	2,274 9 8	...	3,741 1 5	13,869	0 4 8
Koraput.	Koraput do.	558 2 11	462 2 7	2,746 4 11	...	1,265 13 9	1,468 7 2	...	2,746 4 11	10,121	0 4 4
	Total of district	1,060 4 11	1,988 15 10	6,490 6 4	...	2,752 5 6	2,738 0 10	...	6,490 6 4	33,390	0 4 5
	Grand Total of districts	52,394 15 8	54,084 0 9	2,57,916 6 8	...	207 8 0	1,07,560 9 1	...	2,57,916 6 8	1,304,807	0 3 10

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1911-1912.

APPENDIX.

VACCINATION RETURNS.

Special vaccinator employed for three months.
Includes 3 Assistant Deputy Inspectors employed in the Corporation of Madras.

Clark.

A—VACCINE DEPARTMENT.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1911-1912—continued.

Municipalities.	Number.	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.			
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Adoni	1	...	60 6 2	864 6 2	...	...	...	264 6 2	264 6 2	845	0 6 0
Anantapur	2	...	9 12 10	129 12 10	...	...	...	129 12 10	129 12 10	243	0 8 7
Anakapalle	3	...	51 14 10	208 14 10	...	...	...	208 14 10	208 14 10	808	0 4 2
Bellary	4	...	128 5 1	681 5 1	...	...	...	681 5 1	681 5 1	2,994	0 8 8
Berhampur	5	...	26 15 10	264 15 10	...	...	...	264 15 10	264 15 10	1,232	0 3 4
Bowada	6	...	24 8 7	854 8 7	...	...	...	354 8 7	854 8 7	1,107	0 6 1
Bhimipatam	7	...	18 9 9	295 9 9	...	...	...	295 9 9	295 9 9	428	0 8 6
Calicut	8	...	201 11 8	835 11 8	...	...	...	635 11 8	835 11 8	6,834	0 1 1
Channarayana	9	...	67 10 4	246 10 4	...	...	...	246 10 4	246 10 4	1,789	0 3 3
Chidambaram	10	...	26 9 4	271 9 4	...	...	...	271 9 4	271 9 4	1,048	0 4 2
Chidambaram	11	...	23 5 8	281 5 8	...	...	...	281 5 8	281 5 8	870	0 6 0
Chingleput	12	...	48 5 9	191 5 9	...	...	...	191 5 9	191 5 9	633	0 4 10
Cochin	13	...	40 4 4	277 4 4	...	...	...	277 4 4	277 4 4	1,178	0 8 9
Cocanada	14	...	230 9 7	638 9 7	...	...	...	438 9 7	638 9 7	2,362	0 8 2
Cumbalure	15	...	56 9 11	267 9 11	...	...	...	267 9 11	267 9 11	1,088	0 6 4
Conjeevaram	16	...	94 10 0	408 10 0	...	...	...	408 10 0	408 10 0	1,546	0 4 2
Channarayana	17	...	26 15 4	281 15 4	...	...	...	281 15 4	281 15 4	428	0 8 6
Cuddalore	18	...	116 7 7	603 7 7	...	...	...	603 7 7	603 7 7	2,362	0 4 0
Cuddalore	19	...	56 6 3	198 6 3	...	...	...	198 6 3	198 6 3	834	0 7 7
Dindigul	20	...	38 18 5	230 18 5	...	...	...	230 18 5	230 18 5	1,046	0 3 4
Ellore	21	...	118 1 1	449 1 1	...	...	...	449 1 1	449 1 1	2,382	0 8 2
Erode	22	...	27 16 2	354 16 2	...	...	...	354 16 2	354 16 2	736	0 5 1
Gudiyatham	23	...	40 0 7	160 0 7	...	...	...	160 0 7	160 0 7	738	0 9 2
Guntur	24	...	70 8 4	268 8 4	...	...	...	268 8 4	268 8 4	1,237	0 5 1
Karur	25	...	21 11 7	268 11 7	...	...	...	268 11 7	268 11 7	548	0 7 7

APPENDIX.

Municipalities.	Number.	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.			
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Kodakal	26	...	11 10 8	102 10 8	...	...	...	102 10 8	102 10 8	131	0 12 5
Kumbakonam	27	...	88 6 5	601 6 5	...	...	...	601 6 5	601 6 5	1,512	0 5 2
Kumbakonam	28	...	40 7 0	288 7 0	...	...	...	288 7 0	288 7 0	1,277	0 8 7
Kumbakonam	29	...	3,108 4 6	1,835 4 6	...	...	...	1,835 4 6	1,835 4 6	30,733	0 6 8
Madurai	30	...	265 14 0	1,049 14 0	...	...	...	1,049 14 0	1,049 14 0	9,970	0 1 9
Mannargudi	31	...	24 12 4	183 12 4	...	...	...	183 12 4	183 12 4	709	0 8 7
Mangalore	32	...	131 9 5	721 9 5	...	...	...	721 9 5	721 9 5	2,888	0 4 10
Masulipatam	33	...	109 14 0	427 14 0	...	...	...	427 14 0	427 14 0	1,515	0 4 6
Misavaram	34	...	124 1 1	806 1 1	...	...	...	806 1 1	806 1 1	1,215	0 4 0
Nandyal	35	...	37 2 0	288 2 0	...	...	...	288 2 0	288 2 0	968	0 5 9
Nagapattinam	36	...	275 11 7	860 11 7	...	...	...	860 11 7	860 11 7	5,185	0 2 8
Nellore	37	...	33 5 9	243 5 9	...	...	...	243 5 9	243 5 9	864	0 4 7
Ongole	38	...	49 6 6	289 6 6	...	...	...	289 6 6	289 6 6	615	0 7 2
Osianand	39	...	94 11 8	309 11 8	...	...	...	309 11 8	309 11 8	1,385	0 3 7
Palacottah	40	...	71 11 1	456 11 1	...	...	...	456 11 1	456 11 1	1,515	0 4 6
Palacottah	41	...	63 11 10	410 11 10	...	...	...	410 11 10	410 11 10	2,011	0 8 3
Palacottah	42	...	48 7 5	175 7 5	...	...	...	175 7 5	175 7 5	1,080	0 3 4
Palacottah	43	...	40 15 4	175 15 4	...	...	...	175 15 4	175 15 4	789	0 8 2
Palacottah	44	...	24 15 4	188 15 4	...	...	...	188 15 4	188 15 4	879	0 8 2
Palacottah	45	...	55 1 3	397 1 3	...	...	...	397 1 3	397 1 3	2,397	0 2 8
Salem	46	...	122 9 0	470 9 0	...	...	...	470 9 0	470 9 0	3,141	0 2 5
Salem	47	...	49 10 1	265 10 1	...	...	...	265 10 1	265 10 1	1,201	0 3 6
Sivillipattinam	48	...	32 9 1	231 9 1	...	...	...	231 9 1	231 9 1	1,048	0 3 5
Tanjore	49	...	113 4 7	385 4 7	...	...	...	385 4 7	385 4 7	1,410	0 3 10
Tellicherry	50	...	85 7 8	437 7 8	...	...	...	437 7 8	437 7 8	1,373	0 3 11
Tenali	51	...	27 15 11	198 15 11	...	...	...	198 15 11	198 15 11	558	0 5 8
Tiruchirappalli	52	...	79 3 4	525 3 4	...	...	...	525 3 4	525 3 4	1,787	0 4 8
Tiruchirappalli	53	...	190 6 5	613 6 5	...	...	...	613 6 5	613 6 5	5,978	0 1 8
Tirupattur	54	...	11 10 8	131 10 8	...	...	...	131 10 8	131 10 8	501	0 5 9
Tirupattur	55	...	39 8 1	268 8 1	...	...	...	268 8 1	268 8 1	583	0 6 2
Tiruvannamalai	56	...	40 15 10	315 15 10	...	...	...	315 15 10	315 15 10	780	0 4 9
Tuticorin	57	...	124 1 11	751 1 11	...	...	...	751 1 11	751 1 11	8,776	0 8 3
Vaijampattinam	58	...	83 8 1	241 8 1	...	...	...	241 8 1	241 8 1	1,741	0 5 2
Vallur	59	...	74 2 4	299 2 4	...	...	...	299 2 4	299 2 4	1,713	0 4 8
Vasagapattinam	60	...	264 14 8	613 14 8	...	...	...	613 14 8	613 14 8	2,985	0 4 0
Vishanagar	61	...	23 14 2	146 14 2	...	...	...	146 14 2	146 14 2	461	0 8 9
Wajajpet	62	...	23 14 2	146 14 2	...	...	...	146 14 2	146 14 2	461	0 8 9
Total of municipalities		268 5 0	8,188 8 2	35,081 8 11	...	...	...	35,081 8 11	35,081 8 11	131,527	0 4 3
Bangalore		340 0 0	...	578 0 0	...	...	...	578 0 0	578 0 0	1,056	6 8 9
Secunderabad		180 0 0	...	2,079 12 5	...	...	...	2,079 12 5	2,079 12 5	6,534	0 5 1
Total		420 0 0	188 4 6	2,655 12 5	...	...	...	2,655 12 5	2,655 12 5	7,590	0 5 7
Grand Total		81,468 4 8	63,460 18 5	3,29,608 7 0	207 8 0	1,07,569 9 1	1,88,796 2 0	35,081 8 11	3,29,608 7 0	1,343,984	0 3 10

* Cost of each successful case was calculated on the total number of successful vaccinations and re-vaccinations performed by the Local Fund, Government, Municipal and Cantonment staffs.

* Calculated after deducting Rs. 12-7-4 being the cost of lymph supplied in 1910-1911 and Rs. 8-4-0 being the amount recovered.

B—DISPENSARY VACCINATION.

STATEMENT No. III showing Dispensary Vaccination in the Madras Presidency for the official year 1911-1912.

Districts.	Number of dispensaries in each district to which a vaccinators is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.					Re-vaccination.			Percentage of success to total operations excluding unknown.		Percentage of unknown to total operations.	
					Total number of operations.	Successful.			Total number of operations.	Successful.	Unknown.	Primary 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	...	...	68	...	18	...	...	8	3	50	25	7	80-0	58-1	22-1	14-0
Bellary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittoor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godavari	...	...	70	...	1	...	...	...	...	78	37	23	100-0	71-3	...	...
Guntur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madras	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nilgiris	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ramanad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	6	...	5	...	...	5	...	18	1	...	100-0	100-0	...	...
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam	...	...	47	...	46	...	...	46	...	21	...	...	100-0	...	...	...
Koraput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	195	...	65	...	...	60	3	180	68	33	98-8	64-9	4-6	25-0

* Proved unsuccessful.

VACCINATION RETURNS.

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

Persons primarily vaccinated.																				
	1902-1903.		1903-1904.		1904-1905.		1905-1906.		1906-1907.		1907-1908.		1908-1909.		1909-1910.		1910-1911.		1911-1912.	
	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.	Total number.	Number vaccinated.
Government vaccinators ..	35,405	28,898	25,887	22,846	28,633	25,469	29,645	24,797	19,958	18,054	12,946	11,557	12,478	11,819	12,446	11,758	11,514	10,270	11,897	10,545
Local Fund ..	1,088,042	943,948	1,089,784	985,693	1,073,254	949,554	1,235,333	1,088,281	1,207,304	1,081,374	1,809,814	1,179,323	1,373,883	1,205,809	1,310,314	1,153,623	1,310,893	1,067,334	1,233,350	1,138,151
Cantonment ..	5,408	5,015	5,235	5,100	5,000	4,813	4,832	4,502	5,041	4,892	4,887	4,542	5,164	5,072	4,134	4,023	4,187	2,963	3,808	3,421
Zamindari ..	9,370	7,992	10,586	8,704	12,191	9,825	13,914	10,386	4,856	3,989	...	...	...	...	...	...	...	...	...	...
Municipal ..	110,940	105,296	106,083	101,593	109,918	105,258	111,455	103,946	110,654	110,689	108,261	102,615	110,689	106,433	111,045	106,198	111,754	103,748	111,070	103,098
Dispensaries ..	11,040	9,553	10,008	8,346	8,899	7,563	8,894	7,094	1,804	1,024	98	78	129	120	18	18	5	5	65	60
Medical subordinates ..	4,955	3,944	3,131	2,854	2,740	1,930	2,370	1,334	3,935	2,260	2,131	1,558	1,045	768	809	214	411	229	497	322
Total ..	1,230,198	1,014,558	1,250,703	1,114,128	1,240,655	1,104,440	1,408,889	1,217,388	1,337,745	1,222,102	1,437,924	1,296,673	1,503,365	1,380,511	1,447,328	1,294,938	1,444,651	1,455,465	1,480,397	1,380,297

STATEMENT No. V showing Particulars of Vaccination verified by Inspecting Officers during 1911-1912.

Districts.	Total number of cases inspected.			Percentage of inspection to total number vaccinated.			Percentage of cases found successful to total number inspected.			Percentage of success to reported by Vaccination.	
	Total number of cases vaccinated.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.
Anantapur ...	21,297	1,555	1,105	94	21,444	250	89	88	89	89	89
Bellary ...	30,646	2,490	1,286	953	22,547	5,752	19	80	80	80	80
Chingleput ...	61,255	6,702	3,10	18,713	41,357	7,43	19	80	80	80	80
Chittoor ...	20,611	1,390	83	1,201	22,744	2,802	19	80	80	80	80
Coimbatore ...	25,468	1,190	1,401	64	25,078	5,303	19	80	80	80	80
Cuddalore ...	81,577	11,055	1,571	401	92,083	887	19	80	80	80	80
Gadag ...	39,450	2,109	1,88	178	41,339	2,138	19	80	80	80	80
Godavari ...	73,835	1,697	1,090	178	75,532	3,980	19	80	80	80	80
Guntur ...	47,402	2,359	1,090	178	49,761	3,447	19	80	80	80	80
Krishna ...	31,413	1,773	84	1,084	33,190	1,857	19	80	80	80	80
Kurnool ...	57,963	5,380	2,578	480	63,343	5,858	19	80	80	80	80
Madura ...	188,488	16,783	3,977	1,659	205,271	18,440	19	80	80	80	80
Malabar ...	44,847	2,397	1,090	178	46,244	3,487	19	80	80	80	80
Nellore ...	6,708	1,659	707	14	8,367	2,366	19	80	80	80	80
North Arcot ...	63,473	3,356	1,047	148	66,829	4,403	19	80	80	80	80
North Arcot ...	61,404	3,762	1,047	148	65,151	4,810	19	80	80	80	80
Palnad ...	56,432	2,496	1,047	148	57,479	3,543	19	80	80	80	80
Palnad ...	78,457	3,857	1,047	148	82,314	4,905	19	80	80	80	80
South Arcot ...	42,434	2,257	830	177	44,691	3,087	19	80	80	80	80
South Arcot ...	77,830	4,666	1,115	1	82,496	5,781	19	80	80	80	80
Tanjore ...	61,574	3,058	1,115	1	64,632	4,173	19	80	80	80	80
Tiruchinopoly ...	100,510	21,796	115	1	122,306	21,911	19	80	80	80	80
Vizianagaram ...	1,488,991	142,380	33,393	10,279	1,631,371	175,773	19	80	80	80	80
Warrangal ...	1,488,991	142,380	33,393	10,279	1,631,371	175,773	19	80	80	80	80
Total ...	1,488,991	142,380	33,393	10,279	1,631,371	175,773	19	80	80	80	80

* The verification work done by the Sanitary Assistants to the District Medical and Sanitary Officers is shown herein as required by G.O. No. 929 L., dated 24th August 1908.

† Includes cases performed in the sub-stations.

VACCINATION RETURNS.

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

Municipalities.	Number of births available for vaccination during the year 1911-1912.	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 1912.	Date of extension of compulsory vaccination to municipalities.
Adoni ...	2,273	197	542	1st Dec. 1886.
Anantapur ...	305	87	73	1st Jan. 1886.
Anantapur ...	696	87	474	1st Nov. 1891.
Anakapalle ...	2,002	237	923	1st Jan. 1891.
Bellary ...	878	292	493	15th April 1891.
Berhampur ...	963	38	189	1st May 1892.
Beswada ...	327	42	131	1st Jan. 1894.
Bimlipatam ...	2,359	240	593	1st Jan. 1891.
Cubicut ...	1,073	82	309	1st Dec. 1890.
Cannanore ...	444	149	344	1st July 1887.
Chidambaram ...	655	139	234	1st April 1897.
Chingleput ...	612	151	632	1st Jan. 1894.
Cochin ...	716	268	1,070	1st June 1890.
Cocanada ...	1,374	432	380	1st Jan. 1891.
Colembatam ...	1,389	687	685	1st Jan. 1891.
Conjeveram ...	2,121	104	154	1st April 1887.
Coomoor ...	896	86	1,116	1st Aug. 1890.
Cuddalore ...	2,188	588	183	15th July 1886.
Cuddalore ...	484	101	578	16th July 1886.
Cuddalore ...	907	222	852	1st June 1886.
Dindigul ...	1,434	412	377	1st April 1886.
Ellore ...	648	121	461	1st June 1889.
Ellore ...	749	142	679	1st Jan. 1889.
Erode ...	1,370	398	368	1st Sept. 1893.
Gudiyattam ...	697	180	76	1st April 1900.
Guntur ...	113	29	924	1st Aug. 1889.
Karur ...	1,222	464	593	1st July 1889.
Kodakannal ...	1,108	210	2,500	1st July 1891.
Kumbakonam ...	4,246	1,102	848	1st Dec. 1890.
Kurnool ...	1,487	131	553	1st Sept. 1891.
Madura ...	1,239	316	449	1st May 1888.
Mangalore ...	901	217	268	1st Oct. 1888.
Masulipatam ...	485	90	268	1st Jan. 1900.
Mylavaram ...	1,609	337	2,557	1st July 1886.
Nandyal ...	836	186	306	1st Aug. 1886.
Nagapatam ...	808	108	240	1st Dec. 1885.
Nellore ...	762	155	408	1st July 1887.
Nellore ...	1,657	446	708	1st May 1886.
Ootacamund ...	1,998	462	1,134	1st Jan. 1893.
Palacootah ...	815	118	408	1st Dec. 1890.
Palghat ...	871	215	552	1st Feb. 1891.
Parakkimedi ...	407	80	245	1st Dec. 1891.
Periyakulam ...	1,380	300	772	1st Jan. 1896.
Pahni ...	3,084	620	2,067	1st Jan. 1891.
Rajahmundry ...	648	182	340	1st July 1889.
Salom ...	1,307	214	898	1st Jan. 1896.
Sarvagadam ...	2,288	496	1,800	1st July 1893.
Sivillipattur ...	570	149	208	1st April 1910.
Tanjore ...	1,376	242	937	15th Jan. 1892.
Tenali ...	1,752	504	1,248	1st July 1886.
Tollicherry ...	4,178	1,024	2,365	1st Aug. 1890.
Tinnevely ...	650	182	197	1st April 1891.
Trichinopoly ...	450	94	282	1st Mar. 1890.
Trupattor ...	1,736	277	578	15th Dec. 1897.
Tiruvannamalai ...	906	277	502	1st May 1893.
Tuticorin ...	840	95	450	1st May 1889.
Vaniyambadi ...	1,889	391	1,017	1st Jan. 1897.
Vellore ...	1,390	304	622	1st Aug. 1890.
Vizianagaram ...	1,398	300	622	1st Jan. 1890.
Wajahpet ...	386	68	208	20th June 1892.
Total ...	76,283	17,023	48,160	

STATEMENT No. VII showing Inspection Work done by Deputy Inspectors during the year 1911-1912.

Districts.	Circles.	Number of inspecting officers.			Number of villages visited.			Total number of cases vaccinated.	Number of days spent on inspection duty.	Number of cases verified.			Total number of cases inspected by Deputy Inspectors.	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 : total number vaccinated.		
		First-Grade Inspectors.	Second-Grade Inspectors.	Third-Grade Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Third-Grade Inspectors.			First-Grade Inspectors.	Second-Grade Inspectors.	Third-Grade Inspectors.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Anantapur.	Anantapur.						467	15,194	281			9,650	9,650	8,560	88.7			63.8
	Penkonda						647	17,356	259			12,144	12,144	10,735	88.4			60.3
Bellary	Bellary						308	15,690	281			11,905	11,905	10,404	80.0			74.3
	Hosur							11,931	281	11,177				9,881	88.4	93.6		
Chingelput	Chingelput					870		19,084	288		15,900		15,900	13,908	81.2		83.3	
	Saidpet					865	606	16,645	181		18,154		18,154	16,096	74.3			78.1
	Ponneri							19,831	310		18,095		18,095	14,863	68.1		93.6	
Chitoor	Chitoor							12,673	186	7,267			7,267	5,555	77.8	87.3		
	Karvetnagar					702		18,365	255		13,189		13,189	10,397	65.3		66.7	
Codemabore.	North Codemabore						832	19,146	332		12,361		12,361	8,324	68.0			64.0
	South do.						285	15,713	332		9,983		9,983	9,045	91.0			63.4
	Central do.							91,388	247	12,705			12,705	8,302	65.8	59.4		
								18,769	246	10,592			10,592	7,120	67.3	66.6		
Cuddapah	Cuddapah						800	12,008	243		8,884		8,884	8,884	74.8			74.0
	Proddahar						866	11,104	210		7,760		7,760	7,760	82.2			78.7
	Sidhott					272		12,448	277					6,397	83.4		63.2	
Ganjim	Berhampur							14,598	305	13,843			13,843	11,696	98.9			75.8
	Chinnacole						625	15,098	249		11,932		11,932	13,111	98.2	84.0		75.8
	Ganjim Hill						448	13,906	271		6,753		6,753	5,937	78.9			84.6
	Aka					793		12,006	263		10,363		10,363	8,937	85.9			82.2
	Parikattinedi							15,653	241	13,904			13,904	11,648	88.6	83.1		
	Purushottapur						512	13,244	318		10,466		10,466	9,318	94.9			78.9
	Oocanada						289	12,007	244		10,237		10,237	7,312	70.3			82.6
	Rajamundry							24,661	219	13,542			13,542	8,924	68.2	64.9		
	Polvaram						264	5,395	123	3,732		3,732	2,697	68.6			70.8	
	Peddapur						361	19,871	361	16,665		16,665	13,569	10,652	63.6			60.1
	Reddabahal						382	4,665	154	3,915		3,915	2,915	2,961	78.6			66.9

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STATEMENT No. VII showing Inspection Work done by Deputy Inspectors during the year 1911-1912.

District.	Circle.	Number of inspecting officers.				Number of villages visited.				Total number of cases vaccinated.	Number of days spent on inspection duty.				Number of cases verified.				Total number of cases inspected by Deputy Inspectors.	Percentage of successful cases as reported by Deputy Inspectors.	Total number of successful cases reported by Deputy Inspectors.	Proportion per cent. of inspection to total number vaccinated.		
		First-grade Inspectors.	Second-grade Inspectors.	Third-grade Inspectors.	Deputy Inspectors.	First-grade Inspectors.	Second-grade Inspectors.	Third-grade Inspectors.	Deputy Inspectors.		11	12	13	14	15	16	17	18	19					
Anantapur.	Anantapur	1				407				16,194	81			9,659	8,660	88.7			68.8					
	Penkonda					647				17,588	269			12,144	10,785	88.4			69.8					
	Bellary					308				15,690	281			11,905	10,494	88.4			74.3					
	Hooper									11,981	281				9,881	80.0			...					
Chingleput.	Chingleput					870				19,084	288			15,900	12,008	81.2			76.1					
	Saidapet					865				16,648	181			13,154	9,769	74.3			...					
	Ponneri									19,831	310			18,096	14,863	80.1			...					
	Chittoor					703				12,673	198			7,387	5,655	77.8			...					
Chittoor.	Karvetnagar									18,368	235			12,189	10,397	85.2			...					
	North Coimbatore									19,159	333			12,951	8,384	69.9			64.0					
	South do.									15,753	235			9,988	8,065	80.0			68.4					
	Central do.									31,338	347			12,705	8,432	65.8			...					
Cuddalore.	Cuddalore					900				12,008	242			8,684	6,880	79.0			74.0					
	Proddatur					855				11,104	210			8,739	7,269	83.4			78.7					
	Sidhant					978				12,448	277			7,760	6,397	83.7			...					
	Berhampur					471				14,698	305			11,897	11,596	98.5			...					
Ganjam.	Chinnole					440				13,898	271			6,753	5,311	78.6			...					
	Ganjam Hill Tracts					703				12,008	302			10,368	8,397	85.2			...					
	Aika					512				16,068	321			11,984	11,548	96.8			...					
	Perikimedi									12,286	318			10,466	9,916	94.9			...					
Guntur.	Purushottapur					289				12,502	244			10,327	10,237	70.8			...					
	Oceanada					254				24,084	125			2,793	13,542	56.5			...					
	Rajahmundry					381				15,584	188			16,869	10,592	68.7			...					
	Poddatur					863				15,571	184			3,915	10,592	68.7			...					

VACCINATION RETURNS.

District.	Circle.	First-grade Inspectors.	Second-grade Inspectors.	Third-grade Inspectors.	Deputy Inspectors.	Total number of cases vaccinated.	Number of days spent on inspection duty.	Number of cases verified.	Total number of cases inspected by Deputy Inspectors.	Percentage of successful cases as reported by Deputy Inspectors.	Total number of successful cases reported by Deputy Inspectors.	Proportion per cent. of inspection to total number vaccinated.
Guntur.	Guntur	1				16,643	81	9,659	8,660	88.7	88.7	68.8
	Narasaraopet					13,126	269	12,144	10,785	88.4	88.4	69.8
	Rayachoti					15,690	281	11,905	10,494	88.4	88.4	74.3
	Hooper					11,981	281		9,881	80.0	80.0	...
Kinnara.	Kinnara					19,084	288	15,900	12,008	81.2	81.2	76.1
	Saidapet					16,648	181	13,154	9,769	74.3	74.3	...
	Ponneri					19,831	310	18,096	14,863	80.1	80.1	...
	Chittoor					12,673	198	7,387	5,655	77.8	77.8	...
Kannad.	Kannad					18,368	235	12,189	10,397	85.2	85.2	...
	North Coimbatore					19,159	333	12,951	8,384	69.9	69.9	64.0
	South do.					15,753	235	9,988	8,065	80.0	80.0	68.4
	Central do.					31,338	347	12,705	8,432	65.8	65.8	...
Kannad.	Kannad					12,008	242	8,684	6,880	79.0	79.0	74.0
	Proddatur					11,104	210	8,739	7,269	83.4	83.4	78.7
	Sidhant					12,448	277	7,760	6,397	83.7	83.7	...
	Berhampur					14,698	305	11,897	11,596	98.5	98.5	...
Kannad.	Kannad					13,898	271	6,753	5,311	78.6	78.6	...
	Ganjam Hill Tracts					12,008	302	10,368	8,397	85.2	85.2	...
	Aika					16,068	321	11,984	11,548	96.8	96.8	...
	Perikimedi					12,286	318	10,466	9,916	94.9	94.9	...
Kannad.	Purushottapur					12,502	244	10,327	10,237	70.8	70.8	...
	Oceanada					24,084	125	2,793	13,542	56.5	56.5	...
	Rajahmundry					15,584	188	16,869	10,592	68.7	68.7	...
	Poddatur					15,571	184	3,915	10,592	68.7	68.7	...

* Assistant Deputy Inspectors. † Includes 5,643 cases vaccinated in the Emigration depots and the Penitentiary which were not verified by the Deputy Inspectors of the Corporation of Madras.

End