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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—1912-13



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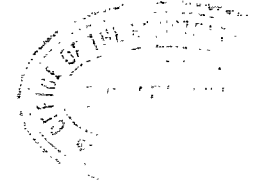
FOR THE YEAR

1912-1913.

MADRAS:
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PART I.

Work Done in the Vaccine Section,
King Institute, Guindy.

செப்பனியுபவா பெயர்
செப்பனியுதற்காக எடுத்த
கொள்ளப்பட்ட நாள்
1953-1953
செப்பனியு முடித்த நாள்
1953-1953
செப்பனியு காலத்திற்கும்
செப்பனியு காலத்திற்கும்
செப்பனியு காலத்திற்கும்
செப்பனியு காலத்திற்கும்

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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 1913.

The total amount of vaccine supplied by the Institute during the year under report amounts to 1,887,639 cases which is 14,138 cases more than last year, but, when we consider that there was no failure of the supply such as occurred in the two previous years, this apparent increase is fallacious, and compared with an estimated full supply for 1911-12 there is a drop of about 77,000 cases.

TABLE I.

Table showing the quantity of Vaccine supplied to various bodies from 1903-09 to 1912-13.

To whom supplied.	1908-1909.	1909-1910.	1910-1911.	1911-1912.	1912-1913.
Government officers including Jails ...	23,698	38,860	53,086	46,722	41,802
Agency Tracts ...	25,933	28,955	27,830	25,160	27,180
Military Department ...	17,954	15,032	13,369	15,917	12,333
District Boards ...	1,631,336	1,642,497	1,522,650	1,531,366	1,560,341
Municipalities ...	135,867	171,760	179,034	177,185	173,255
Private Bodies ...	79,263	55,542	52,688	47,151	72,678
Total ...	1,969,054	1,949,746	1,853,657	1,873,501	1,887,639

The main amount of this decrease is shown in the supplies sent to District Boards, but under the heading, Government Officers (including Jails and the Military) there is an even greater falling off in proportion. There is also a marked falling off in the supplies to Municipalities. All these headings show reduced figures for this year in spite of there having been no period of short supplies.

Agency tracts show a slight and Private Bodies a very marked increase even after the period of short supply in 1911-12 has been taken into account. More than one-half of the large increase of supplies to Private Bodies is accounted for by the supply made to the Bangalore Institute during a period of stress which it underwent.

As usual the bulk of the material issued was in the form of lanolinated vaccine, but the same authorities quoted in last year's report continued to take their supplies glycerinated.

The same system of fortnightly despatches has been continued but there is a growing feeling that more frequent despatches, necessitating the using of the material in a shorter time, would be advisable. Extra supplies constituted about 10 per cent. of the total which is perhaps as low a figure as this item can be reduced to.

Fortnightly returns continued to be made in an unsatisfactory manner and in G.O. No. 1195 L., dated 23rd August 1912 it was ordered that these returns should in future be submitted through the Deputy Inspectors of Vaccination and once a month only. The change however was slowly introduced and was not in full working order till the end of the year under report. Sufficient time has not elapsed to judge as to whether the change has produced a beneficial effect.

REPORT OF THE KING INSTITUTE, QUINDY.

TABLE II.

Statement showing the expenditure incurred during the year 1912-13 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	...	10,497	14	6
Clerks and Servants	...	6,832	10	7
Deputy Inspectors	...	3,980	9	0
Van as Batta	...	279	15	8
Travelling allowance of Officers, Deputy Inspectors and Establishment	...	155	7	6
Total establishment		21,725	10	3
Supplies, Services and Contingencies—				
Purchase of stores, apparatus	...	6,171	2	4
Cost of boxes and receptacles for vaccine	...	911	6	2
Cost of calves including transport	...	18,932	5	0
Feeding charges of calves	...	1,523	4	11
Water works	...	396	12	0
Gas works	...	108	1	8
Purchase and repair of furniture	...	49	2	0
Hot and cold weather charges	...	79	15	0
Tour charges	...	37	7	6
Cleaning charges	...	80	0	0
Service postage and telegram charges	...	2,327	6	0
Telephone charges	...	77	8	0
Office expenses	...	721	13	9
Miscellaneous	...	12	8	0
Pay of menials	...	2,075	10	9
Total, supplies, services and contingencies		33,504	8	1
Proportionate cost of stationery supplied for 1912-13		155	1	3
Cost of clothing supplied for 1912-13		43	11	6
Cost of repairs to vaccine buildings for 1912-13 as per statement furnished by the Executive Engineer, South Presidency Division, Madras, with his letter No. 303 M., dated 13th May 1913		—108	6	1
Add—amount ordered to be recovered in G.O. No. 1839 L., dated 23rd December 1912...		175	16	3
Total cost of stationery, clothing, repairs, etc.		265	12	11
Grand total, Vaccine section		55,495	15	3

TABLE III.

Statement showing the net expenditure incurred during the year 1912-13 in the King Institute of Preventive Medicine, Vaccine section.

Particulars.	Amount.		
	RS.	A.	P.
Gross expenditure as per Table No. II.	55,495	15	3
<i>Deduct—</i>			
(1) Credits under sale of calves and miscellaneous receipts remitted to treasury	4,985	10	0
(2) Cost of vaccine supplied to private bodies during the year	4,542	6	0
Net total expenditure ...	45,967	15	3

REPORT OF THE KING INSTITUTE, GUINDY.

TABLE IV.

Statement showing the number of cases for which Vaccines was despatched to different bodies—Private bodies being excluded—during the year 1912-13.

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 ...	41,902		* 1,053 0 2
2. Agency Tracts ...	27,130		+ 712 2 11
3. Military Department ...	12,333		306 5 10
4. District Boards ...	1,500,341		+ 39,537 11 6
5. Municipalities ...	173,255		\$ 4,358 19 10
	1,814,961	4780446 pias.	45,987 15 3

* Includes Rs. 12 2 0 for registering vaccine packets.

+	38	4	0		
+	77	8	0		
+	54	14	0		
	882	12	0		

N.B.—In calculating the cost per case of Vaccine Rs. 832-12-0 has been deducted from Rs. 45,967-15-3 as the former represents registration charges and it will be charged to the bodies concerned.

As will be seen from tables II, III and IV there has been a rise in working costs, and this has resulted in an enhanced price of nearly 0.3 pies per case. This was not unanticipated and is mainly due to the cost of running and maintaining the Refrigerating Plant.

An increase charge is also seen under the head of Establishment, since at no time during the year was an Assistant Surgeon in charge of the duties of the Assistant Director.

TABLE 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.
	1912.			
1	April	92,052	14,099	86.72
2	May	87,203	21,026	80.37
3	June	91,031	18,548	82.84
4	July	104,187	13,687	88.42
5	August	101,000	24,899	87.39
6	September	99,389	17,703	84.87
7	October	100,208	13,632	88.02
8	November	103,947	9,546	91.58
9	December	113,404	10,222	91.73
	1913.			
10	January	113,153	8,515	93.00
11	February	107,036	9,781	91.62
12	March	98,915	12,770	88.56
	Total ..	1,212,459	164,473	88.05

Table V shows the success rate obtained with the vaccine monthwar. Over the whole year there has been a regrettable drop of 1.5 per cent. but a similar temperature effect may be derived from the figures this year. Thus May is always the worst month and January the best and in these we may infer that the effect on the result is in greater part the effect of the temperature on the vaccine. We cannot

so explain the drop seen in August and September; a similar drop was noted in September-October of the previous year. The actual temperatures here are not so high, but these months apart from their actual temperatures are admittedly more trying to human beings and perhaps it is not unjustifiable to deduce from this the greater part of the falling off in these months is due to the effect of the climate on the vaccinator. Generally speaking the fluctuations are more pronounced this year than last year.

TABLE VI.

Returns recorded in the King Institute from the whole of the Madras Presidency, according to districts, 1912-13.

Serial number.	Districts.	Total successful.	Total unsuccessful.	Percentage of success.
1	Anantapur...	26,904	1,281	95.45
2	Bellary ...	27,303	998	96.48
3	Chingleput ...	33,720	12,150	73.51
4	Chittoor ...	28,082	2,553	90.98
5	Coimbatore ...	45,210	19,751	69.59
6	Cuddapah ...	31,482	1,994	94.03
7	Godavari ...	64,814	5,713	91.33
8	Guntur ...	55,255	14,652	79.04
9	Kistna ...	49,049	5,871	89.80
10	Kurnool ...	69,480	7,838	89.86
11	Kudasa ...	31,641	993	96.93
12	Madura ...	41,797	12,523	76.33
13	Malabar ...	130,820	14,915	89.76
14	Nellore ...	30,365	6,023	84.59
15	Nilgiris ...	5,676	98	98.30
16	North Arcot ...	51,609	10,913	82.54
17	Ramnad ...	51,971	1,787	96.67
18	Salem ...	60,892	5,444	91.79
19	South Arcot ...	48,366	9,743	83.23
20	South Canara ...	41,332	6,423	86.54
21	Tanjore ...	73,291	4,459	94.26
22	Tinnevely ...	58,022	3,951	93.62
23	Trichinopoly ...	60,693	5,092	92.25
24	Vizagapatam ...	88,750	8,372	91.37
	Total ...	1,212,459	164,473	88.05

Table VI gives the results obtained according to districts and in the main the features noticed in past reports are repeated. The same districts remain consistently good, the same consistently bad. Chingleput and Coimbatore have passed all records and show falls of over 10 and 6 per cent. respectively, and the latter shows for the first time on record a success rate of under 70 per cent. A comparison between this district and the neighbouring one of Salem is curious. The figures are, Salem 91.79, Coimbatore 69.59. Two-thirds of the total falling off this year are due to Coimbatore and Chingleput alone.

TABLE VII.

Statement showing the percentage of success obtained in certain districts selected for comparison in each of the last seven years.

Serial number.	District.	1906-1907.	1907-1908.	1908-1909.	1909-1910.	1910-1911.	1911-1912.	1912-1913.	Average.
1	Bellary ...	97.0	97.69	98.51	97.86	96.51	97.65	96.48	97.39
2	Anantapur ...	96.6	95.76	97.51	96.80	94.86	95.23	95.45	96.02
3	Kurnool ...	84.1	99.88	96.95	95.42	96.20	96.16	96.95	96.09
4	Godavari ...	77.7	92.17	89.81	85.44	71.29	78.12	79.04	81.94
5	Coimbatore ...	88.1	91.04	86.57	81.17	75.54	75.74	69.59	81.54

Table VII shows the percentage rate of success attained in certain districts selected for comparison in each of the last seven years. It will be noted that there is no change in the relationships, except in degree, between the good and the bad districts. Coimbatore as a result of its shocking return this year, is now at the bottom of the list and averages no less than 15.85 per cent. less than Bellary over the whole seven years.

TABLE VIII.

Statement showing the percentage of success obtained in the different months of the year for seven years and the average for each month during that time.

Serial number.	Months.	1906-07.	1907-08.	1908-09.	1909-10.	1910-11.	1911-12.	1912-13.	Average.
	1912.								
1	April ...	92.3	95.03	96.71	94.30	88.32	84.33	86.72	91.10
2	May ...	83.4	93.04	93.49	90.91	84.53	83.53	80.57	87.07
3	June ...	90.1	93.59	92.65	87.02	81.22	88.15	82.84	87.94
4	July ...	95.1	93.17	92.84	89.51	85.11	89.18	83.42	90.51
5	August ...	96.3	94.78	94.28	90.23	90.54	87.39	84.87	92.90
6	September ...	95.1	95.76	93.68	93.47	92.45	89.30	84.87	92.90
7	October ...	94.8	95.85	93.86	92.79	85.26	89.73	85.02	91.40
8	November ...	94.8	96.49	96.56	91.52	86.65	92.36	91.58	92.85
9	December ...	95.7	97.28	97.38	92.36	87.31	93.28	91.73	93.58
	1913.								
10	January ...	95.1	97.63	93.27	93.03	87.00	93.29	93.00	93.91
11	February ...	95.9	98.16	97.71	90.85	91.91	88.57	91.02	93.53
12	March ...	94.5	97.55	96.67	91.22	93.62	89.03	88.66	93.13

For the purpose of comparison Table VIII has been extended to the past seven years and shows the percentage success obtained in the different months of the year for seven years and the average for each month during that time. It will be seen that the success continues to follow the thermometric gradient closely with the exception of the slight autumnal variation. This feature has already been discussed in this report, but it appears to be a constantly recurring one.

TABLE IX.

Statement showing the duration of storage of Lanoline paste during the official year 1912-1913.

Name of month.	Duration of storage each month.		Remarks.
	Minimum period.	Maximum period.	
1912.			
April ...	6½ weeks	8½ weeks	
May ...	8½ "	11 "	
June ...	11 "	13 "	
July ...	13 "	16 "	
August ...	5 "	13½ "	
September ...	6½ "	9 "	
October ...	9 "	11 "	
November ...	11 "	13½ "	
December ...	13½ "	14 "	
1913.			
January ...	14 "	15 "	
February ...	15 "	16 "	
March ...	16 "	17 "	

TABLE X.

Statement showing the duration of storage of Glycerine paste during the official year 1912-1913.

Name of month.	Duration of storage.		Remarks.
	Minimum period.	Maximum period.	
1912.			
April	1 day	5½ weeks	
May	"	8 "	
June	8 weeks	12 "	
July	12 "	16 "	
August	16 "	20 "	
September	3 "	11 "	
October	7 "	12 "	
November	5½ "	9 "	
December	4 "	12 "	
1913.			
January	2½ "	14 "	
February	2½ "	6 "	
March	1 day	2 "	

During the year the new Refrigerating Plant and Cold Store was in operation. It worked with great efficiency and it was possible to keep large reserves of vaccine in hand.

Tables IX and X show the duration of storage of lanolinated and glycerinated vaccines during each month of the year. The maximum period of storage was longer this year than last, but may probably be greatly extended even yet. The falling off of the duration of storage shown in August, September and October indicates reduced reserves owing to the intermission of preparation during May, June and July.

It has not yet been possible to formulate rules for the working of the reserve and done depots for calves. Correspondence with the railway authorities in the matter of facilities will shortly be submitted along with suggestions for the housing of the European Sergeant in charge of the former. Meanwhile an ample supply of calves is being furnished by the Contractors.

The immediate working of the Section was in the hands of the Assistant Director, Captain F. W. Cragg, I.M.S.

THE KING INSTITUTE, GUINDY,
22nd June 1913.

F. MATTLAND 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 1912-13.

From Captain M. J. QUIRKE, I.M.S., Inspector of Vaccination and Deputy Sanitary Commissioner for Madras, to the Sanitary Commissioner for Madras, dated the 8th July 1913, D. No. 168/V.

I have the honour to submit the Annual Report on Vaccination in the Madras Presidency for the year 1912-13.

2. The office of the Inspector of Vaccination and Deputy Sanitary Commissioner remained vacant from the beginning of the year up to 12th May 1912, during which period Captain W. A. Justice, I.M.S., carried on the work in addition to his own duties as Sanitary Commissioner. The post was held by me from 13th May to 5th September 1912. I went on leave on 6th September 1912 and returned to duty on 15th June 1913. In my absence, Captain O. A. R. Berkeley-Hill, I.M.S., held the acting appointment up to 24th April 1913, when he was transferred to Lahore. Captain W. A. Justice, I.M.S., Sanitary Commissioner, again did double duty up to 15th June 1913 when I returned to my appointment.

3. I inspected vaccination work (49 villages) in the district of Coimbatore and in the municipalities of Coimbatore and Tirupati. Under orders from the Sanitary Commissioner, I visited the municipalities of Mannārgudi and Tirupati in connection with certain sanitary schemes. Captain O. A. R. Berkeley-Hill, I.M.S., inspected vaccination work (43 villages) in the district of Gōdāvari and in the municipality of Cocanada. He also visited the following places in connection with sanitary schemes:—

Cocanada.	Chicacole.	Mannārgudi.
Tiruvannāmalai.	Negapatam.	Ongole.
Chidambaram.	Wārajāpet.	Palghat.
Anantapur.	Masulipatam.	

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. 12-10.	Probationers, Rs. 7-5.	Total number of vaccinators.
	First grade, Rs. 70.	Second grade, Rs. 60.	Third grade, Rs. 40.				
1911-1912 ...	21	24	37	263	467	120	850
1912-1913 ...	21	23	38	265	450	121	837

5. In G.O., No. 1758 L., dated 19th November 1912, it was directed that the weekly diaries of Deputy Inspectors of Vaccination should be forwarded to the Sanitary Commissioner through the District Medical and Sanitary Officer and that Presidents of the Taluk and District Boards concerned.

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

	1911-1912.	1912-1913.
Primary vaccination ...	1,455,485	1,461,790
Re-vaccination ...	147,492	124,554
Total ...	1,602,977	1,586,344

7. The districts which show the largest increase are Salem (11,261), Madura (7,623), Guntūr (7,493) and Kistna (5,427). The largest decrease is shown in the following districts:—Malabar (24,002), Ganjām (10,387), Cuddapah (3,613) and South Canara (3,047).

The explanations for the decreases offered by the Deputy Inspectors of Vaccination are given below:—

Malabar.—Prevalence of cholera.—Less prevalence of small-pox during the year.—Non-entertainment of temporary vaccinators.

Ganjām.—Absence of vaccinators without substitutes.—Prevalence of cholera.—Non-prevalence of small-pox in an epidemic form.

Cuddapah.—Prevalence of cholera and plague.—Reduction of “minimum” of vaccinators.

South Canara.—Non-prevalence of small-pox in an epidemic form. Non-entertainment of temporary vaccinators.

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

Establishment.	Number of successful vaccination.				Total of successful vaccination.	
	1911-1912.		1912-1913.		1911-1912.	1912-1913.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
1	2	3	4	5	6	7
Local Fund vaccinators	1,133,151	60,260	1,118,543	54,641	1,193,411	1,173,184
Government do.	16,545	551	13,254	1,263	11,336	14,517
Municipal do.	103,028	28,499	99,018	23,647	131,527	122,665
Cantonment do.	3,421	4,169	4,680	1,250	7,590	5,931
Dispensaries	60	63	11	72	123	83
Medical subordinates	322	5,882	118	5,133	6,204	5,251
Total	1,250,527	69,724	1,235,625	66,006	1,350,251	1,321,631

Establishment.	Ratio per cent. of successful cases.				Ratio per cent. of total successful cases.	
	1911-1912.		1912-1913.		1911-1912.	1912-1913.
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		
8	9	10	11	12	13	14
Local Fund vaccinators	89.3	79.8	88.0	80.2	88.7	87.6
Government do.	93.4	92.1	86.5	93.5	93.3	87.0
Municipal do.	94.2	72.2	93.2	76.2	88.3	89.3
Cantonment do.	95.6	81.6	94.4	80.9	87.4	91.1
Dispensaries	96.8	64.9	84.6	63.7	77.4	65.8
Medical subordinates	72.7	73.1	77.6	77.0	73.1	77.1
Total	89.7	77.2	88.4	79.0	88.6	87.7

9. The following districts show the largest increase in infantile vaccination when compared with the previous year:—Ganjām (13.2), South Arcot (7.0), Madura (5.7), and Salem (5.1). The districts which show the largest decrease are: Cuddapah (11.0), Anantapur (10.4), North Arcot (9.3), Nilgiris (6.9), Chingleput (5.8), Coimbatore (5.7), and Nellore (5.6). From the following table, it will be observed that the decrease in infantile vaccination in the Chingleput and North Arcot districts is attributed to the large number of unsuccessful vaccinations in

some of the ranges therein and in Saidapet range chicken-pox and measles were prevalent:—

Ranges.	Number of successful vaccinations under one year of age.		Explanations offered by Deputy Inspectors of Vaccination.
	1911-1912.	1912-1913.	
Chingleput District.			
Chingleput	7,556	7,549	The decrease is chiefly due to transfer of Vaccinators and Deputy Inspectors during the year. Decrease is due to the large number of failures of cases vaccinated, prevalence of chicken-pox and measles. The decrease is due to the large number of failures attributed to the unfavorable state of climate during the year.
Saidapet	7,089	6,235	
Ponneri	9,083	8,501	
Total	23,728	22,285	
North Arcot District.			
Vellore	7,741	7,862	Increase is due to the efficiency of paste during the year. Decrease is due to the large number of unsuccessful cases. Decrease is due to failures of cases vaccinated which is attributed to careless work of Vaccinators. Increase is due to many unprotected cases under one year having been vaccinated during the year.
Rānīpet	5,700	4,982	
Polar	5,102	4,821	
Tirupattūr *	5,985	6,102	
Total	24,618	23,667	

* Trial scheme is not in force in the Tirupattūr range.

10. As regards municipalities, 37 towns against 30 in the previous year succeeded in vaccinating 75 per cent. and over of children under one year of age. The municipalities showing the largest increase are: Tenali (28.2), Nandyal (26.8), Rajahmundry (25.8), Cannanore (22.7), Coonoor (22.0), Berhampur (21.9), and Coimbatore (20.8). The municipalities of Palni (35.4) and Gudiyattam (23.0) show the largest decrease. In the former it is due to the absence of the vaccinator for three months without substitute and in the latter to the evacuation of the town on account of plague.

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.	
	1911-1912.	1912-1913.	1911-1912.	1912-1913.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Government establishment...	4,588 8 6	7,460 15 8	0 6 5	0 8 2
Local Fund do.	2,74,283 9 1	2,82,675 8 2	0 3 8	0 3 10
Municipal do.	35,031 3 11	35,291 7 2	0 4 3	0 4 7
Cantonment do.	2,655 12 5	2,913 15 8	0 5 9	0 7 10
Total	2,81,659 1 11	2,82,841 14 8	0 3 9	0 3 11

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

12. 146,692 operations were performed in municipalities during the year under review against 160,567 in the preceding year. The towns that showed a marked decrease are: Madras (10,916), Tuticorin (2,502), Madura (1,761), Negapatam (1,098) and Cannanore (454).

In Madras the decrease is due to closure of the Natal Emigration Depot, frequent changes among first-class vaccinators and less prevalence of small-pox. In the remaining towns, the decrease is attributed to one or more of the following causes:—Absence and less prevalence of small-pox and 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 excluding unknown.	Area.	Method.	Whence obtained.	Percentage of success.
1,236,148	Local Fund	Lanoline lymph	Supplied by the King Institute of Preventive Medicine, Guindy.	88.0
84,492	Do.	Glycerine lymph	Do.	92.7
21,755	Municipalities	Lanoline lymph	Do.	95.1
	Do.	Glycerine lymph	Do.	

* Cases performed in the Corporation of Madras.

Lanoline 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 fell from 89.6 to 88.0 and similarly in municipalities from 93.2 to 92.7. Glycerinated lymph yielded a percentage of 95.1 against 97.6 in the preceding year.

14. 13,535 deaths occurred from small-pox against 19,198 during the previous year.

15. The diagrams attached hereto show 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. Ganjam Hill Tracts (46.0), Calicut (46.7), Palghat (39.0) and Malapuram (43.2). The explanations offered by them appear to be satisfactory.

17. The number of Deputy Inspectors (80) is the same as it was last year, of these 73 are certificated Sanitary Inspectors. One retired from service and another died. Six were fined for carelessness and similar offences. Two were reduced, one from the first grade to the second grade and the other from the second grade to the third grade for misconduct. One was suspended and another is 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.

18. The "Trial Scheme" continues to be in force in the whole of the Chingleput district and in portions of North Arcot, South Arcot and Madura districts.

Under G.O. No. 1435 L., dated 27th October 1911, references have been made to the Presidents of District Boards regarding the extension of the "Trial Scheme" to their districts and on receipt of complete information from them, a separate report on the subject will be submitted as ordered by Government.

19. With regard to the extension of the practice of vaccination in the Presidency, Captain O. A. R. Berkeley-Hill, I.M.S., who recently acted as Inspector of Vaccination and Deputy Sanitary Commissioner writes as follows :—

"It is of primary importance to bear in mind that we are face to face with a community whose appreciation of any preventive measure against disease is of the most illusory nature. Preventive medicine is hardly yet understood and appreciated in Europe. In India it is still an inconceivably fragile exotic, still struggling for the barest existence under a stifling load of misconception of which the tendency to regard all manifestations of disease as an expression of Divine wrath is perhaps the most prominent feature.

Suggestion.—That some steps be taken to illustrate by use of pictures and pamphlets, especially the former, the ravages of small-pox. The lines adopted might very well follow those pursued elsewhere in India in regard to the education of the poorer classes towards the necessity of taking 'anti-malarial' measures. If necessary expert opinion could be obtained from the Research Defence Society whose business it is to study the best means of combating similar prejudices in England."

It seems to me to be an open question whether or not such demonstration of the ravages of small-pox would lead to a more ready acceptance of vaccination. Small-pox has never been eradicated here and the people have not forgotten its terrors but a knowledge of the character of the disease does not convince them that vaccination can prevent it. There is not, I believe, any widespread antagonism to the practice of vaccination. Intelligent antagonism can be met by the exhibition of arguments; apathy and prejudice are harder to combat. I consider that progress is most likely to be achieved by improving existing facilities for vaccination. Let the visits of the vaccination staff to each village be frequent and regular and let the work be carried out punctually and methodically. Each visit brings the practice to the notice of the villagers and in time a habit of vaccination tends to become established. This is the aim and object of the "Trial Scheme" when carried out in its entirety.

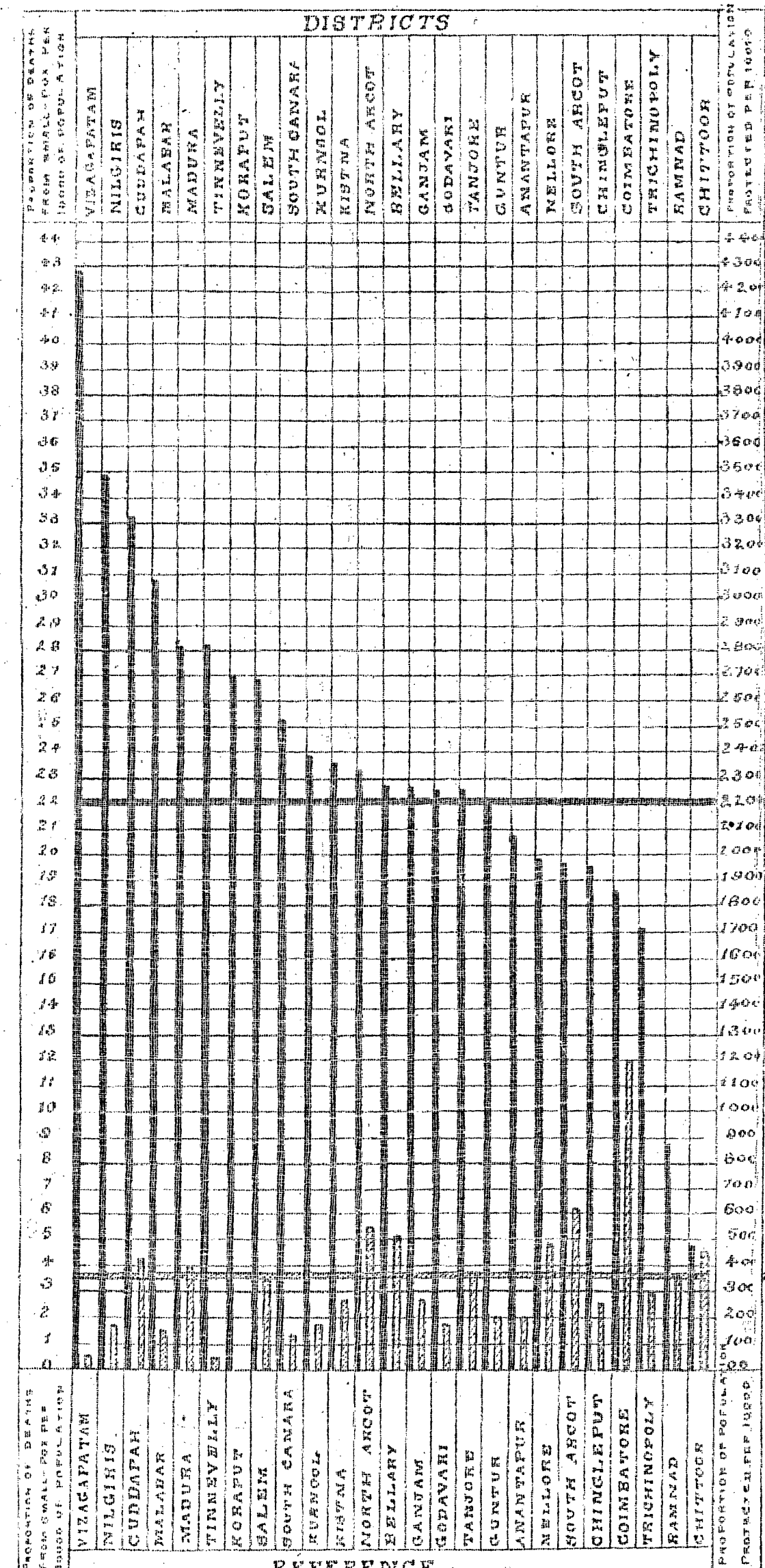
I have the honour to be,

Sir,

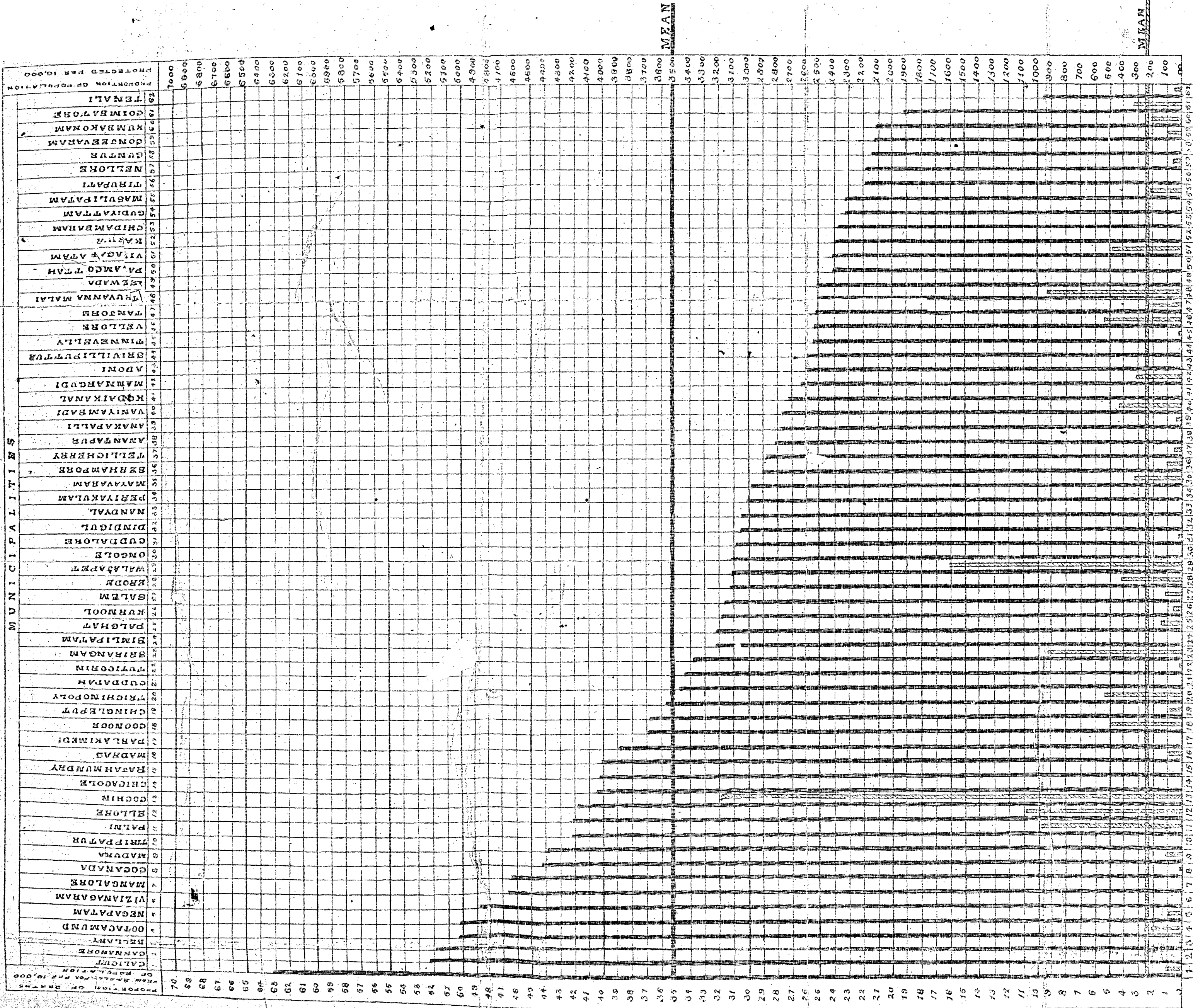
Your most obedient servant,

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

Inspector of Vaccination and Deputy Sanitary
Commissioner for Madras.



MUNICIPALITIES



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

APPENDIX.

VACCINATION RETURNS.

A—VACCINE

STATEMENT No. I showing the Particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 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
1	Anantapur.	Anantapur circle	444,221	135	7	6,764	6,134	12,898	1,842	12,024	7,525
2		Pennakonda do.	510,545	119	9	9,133	8,094	17,227	1,914	17,135	8,678
		Total of district	954,766	142	16	15,897	14,228	30,125	1,853	30,059	16,198
3	Bellary.	Bellary circle	902,835	156	10	7,284	7,114	14,398	1,439	14,527	8,766
4		Hospet do.	902,835	156	10	6,882	5,384	12,266	1,226	11,330	8,243
		Total of district	1,805,670	312	20	14,166	12,498	26,664	1,333	26,357	17,009
5	Chingleput.	Chingleput circle	1,340,518	436	4	8,130	8,050	16,180	4,045	16,716	7,549
6		Saidapet do.	1,340,518	436	4	7,438	6,987	14,425	3,606	16,127	6,235
7		Ponnéri do.	1,340,518	436	4	10,304	9,023	19,327	4,832	16,360	8,504
		Total of district	1,340,518	436	12	25,872	24,053	49,925	4,161	49,203	22,288
8	Chittoor.	Chittoor circle	528,016	194	10	7,619	6,640	14,259	1,426	12,961	5,184
9		Karvetnagar do.	694,025	234	13	9,219	8,771	18,030	1,337	16,414	8,123
		Total of district	1,222,041	428	23	16,838	15,411	32,249	1,404	31,395	13,307
10	Coimbatore.	North Coimbatore circle	480,392	165	9	9,235	8,420	17,655	1,961	16,820	4,921
11		East do.	554,719	383	9	11,177	11,400	22,577	2,508	21,291	5,916
12		South do.	367,584	211	7	6,741	6,409	13,150	1,578	11,336	5,088
13		Central do.	640,861	414	9	9,534	9,073	18,607	2,070	17,315	6,103
		Total of district	2,043,566	1,173	34	36,717	35,302	72,019	2,118	67,362	21,028
14	Cuddapah.	Cuddapah circle	303,060	137	8	4,862	4,203	9,065	1,136	10,003	4,888
15		Proddatur do.	237,972	198	7	4,599	4,157	8,756	1,251	8,946	4,332
16		Sidhout do.	305,459	131	8	6,301	5,379	11,677	1,459	12,038	5,868
		Total of district	846,491	466	23	15,762	13,739	29,501	1,283	31,027	15,088
17	Ganjam.	Berhampur circle	2,153,614	257	9	6,770	6,499	13,269	1,474	13,212	6,263
18		Chienacole do.	2,153,614	257	9	5,958	5,607	11,565	1,285	11,455	6,003
19		Ganjam Hill tracts	2,153,614	257	15	6,930	6,017	12,947	863	12,085	2,413
20		Aska circle	2,153,614	257	7	6,477	5,688	12,165	1,738	11,784	3,018
21		Parlakimedi circle	2,153,614	257	8	5,324	5,046	10,370	1,206	10,262	4,054
22		Parashottapur circle	2,153,614	257	8	6,073	5,503	11,576	1,447	11,638	3,776
		Total of district	2,153,614	257	56	37,532	34,360	71,892	1,283	70,443	25,567
23	Godavari.	Cocanada circle	341,838	7	7	6,402	6,188	12,600	1,800	12,757	3,816
24		Rajahmundry do.	574,472	10	10	12,040	12,049	24,089	2,489	24,931	3,874
25		Polavaram do.	130,992	249	5	3,122	2,878	6,000	1,290	5,974	1,581
26		Peddapur do.	427,120	10	10	9,537	9,006	18,543	1,854	19,492	8,182
27		Bhadrachalam do.	75,910	4	4	1,862	1,800	3,662	888	4,156	666
		Total of district	1,550,332	249	36	33,863	31,821	65,684	1,824	67,310	18,121

* Excludes Sandur (13,526).

† Includes Hill Tracts.

DEPARTMENT.

Madras Presidency for the official year 1912-1913.

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.		Primary vacci- nations.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
1 and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.									
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
4,846	12,634	22	262	229	31	97.9	99.1	28.9	0.1	11.8	...	...	...	...
6,769	16,200	46	613	543	36	94.8	94.1	32.7	0.2	5.8	...	...	...	...
11,615	26,834	68	875	772	67	96.1	95.5	31.0	0.2	7.6	27,572	28.8	149	0.1
4,769	14,280	11	184	178	...	98.3	96.7	29.7	0.07	...	...	...	...	...
3,183	11,652	29	742	724	5	98.7	99.5	...	0.2	0.6	...	...	...	...
7,955	25,932	40	926	912	5	98.5	99.0	29.7	0.1	0.5	29,879	33.0	791	0.8
3,685	11,376	1,638	852	403	188	75.4	60.5	...	9.7	21.8	...	...	...	...
2,823	9,267	2,154	881	419	111	66.3	54.4	25.4	18.3	12.6	...	...	...	...
2,252	11,364	1,780	2,980	1,243	398	77.9	48.1	...	10.9	13.3	...	...	...	...
8,840	32,007	5,572	4,713	2,065	695	78.4	51.3	25.4	11.5	14.7	32,769	28.9	434	0.3
5,518	11,042	459	1,765	966	328	88.1	63.0	22.6	3.5	18.5	...	...	...	...
8,192	16,665	405	360	225	78	92.6	78.7	24.3	2.2	21.6	...	...	...	...
13,710	27,727	864	2,125	1,131	406	90.8	65.7	23.6	2.7	19.1	26,871	21.9	513	0.4
4,673	9,971	1,032	1,685	575	286	63.1	41.1	21.5	6.1	16.9	...	...	...	...
5,624	11,802	2,329	2,456	905	446	62.2	45.0	22.9	10.9	18.1	...	...	...	...
4,998	9,768	338	1,892	1,010	129	88.8	81.3	30.9	2.9	6.8	...	...	...	...
5,257	11,522	1,007	890	434	102	68.1	55.0	13.6	5.6	11.4	...	...	...	...
19,952	43,063	4,706	6,923	3,524	963	68.7	59.1	22.6	6.9	13.9	53,502	26.0	1,031	0.5
3,673	9,193	110	251	219	4	92.3	88.6	31.0	1.0	1.5	...	...	...	...
2,984	8,511	109	273	255	11	96.3	97.3	32.8	1.2	4.0	...	...	...	...
4,450	11,375	100	324	286	22	95.6	94.7	38.1	1.6	6.7	...	...	...	...
11,107	29,092	419	848	760	37	94.8	93.7	34.0	1.3	4.3	43,525	49.6	625	0.7
5,284	11,012	376	222	154	47	92.8	83.2	...	2.8	20.2	...	...	...	...
5,852	10,142	655	416	282	92	93.9	87.0	...	5.7	22.1	...	...	...	...
6,141	10,631	755	1,264	1,213	20	94.8	95.9	...	6.2	1.5	...	...	...	...
6,618	10,159	453	628	425	78	89.9	94.4	...	3.8	14.7	...	...	...	...
4,554	8,827	581	253	192	34	91.1	87.6	...	5.5	13.1	...	...	...	...
5,777	9,833	697	127	102	15	89.8	91.0	...	5.9	11.8	...	...	...	...
22,206	61,564	3,517	2,840	2,368	286	91.9	92.7	29.6	4.9	10.0	71,564	33.1	455	0.2
5,989	10,236	715	172	35	59	85.0	30.9	30.0	5.6	34.3	...	...	...	...
11,615	17,207	2,130	989	258	246	75.4	35.6	30.4	8.5	25.3	...	...	...	...
2,558	4,624	222	230	134	23	60.3	64.7	36.3	3.7	10.0	...	...	...	...
5,609	14,731	947	795	354	254	79.4	65.4	35.3	4.8	32.3	...	...	...	...
1,253	2,981	671	114	50	27	59.7	57.4	28.0	16.1	23.6	...	...	...	...
27,024	43,879	4,685	2,280	831	609	78.1	49.7	32.0	6.9	26.7	50,385	32.4	688	0.4

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	
										Total number of operations.	Under 1 year.
1	2	3	4	5	6	7			8	9	10
						Males.	Females.	Total.			
28	Guntur.	Guntur circle ...	1,625,541	283	10	9,077	8,302	17,379	1,737	18,467	8,224
29		Narasaraopet circle ...			10	8,184	7,064	15,248	1,524	13,828	6,029
30		Bapatla do. ...			11	9,694	9,357	19,051	1,732	19,080	7,444
		Total of district ...	1,625,541	283	31	26,955	24,723	51,678	1,667	51,323	21,697
31	Kistna.	Ellore circle ...	1,884,726	319	14	13,289	12,901	26,190	1,871	26,832	9,558
32		Masulipatam circle ...			14	12,807	12,010	24,817	1,776	24,927	9,222
33		Narasapur do. ...			12	11,289	10,711	22,000	1,833	22,970	7,371
		Total of district ...	1,884,726	319	40	37,445	35,622	73,067	1,826	74,729	26,151
34	Kurnool.	Cumbum circle ...	895,841	118	12	8,135	6,662	14,797	1,233	13,720	6,620
35		Kurnool do. ...			12	8,973	8,047	17,020	1,418	17,061	8,249
		Total of district ...	895,841	118	24	17,108	14,709	31,817	1,321	30,781	14,869
36	Madura.	Dindigul circle ...	1,738,818	354	4	8,393	8,294	16,687	4,172	17,500	6,568
37		Madura do. ...			4	9,303	8,176	17,479	4,369	16,822	6,446
38		Usilampatti do. ...			5	10,915	10,711	21,626	4,229	21,159	9,448
		Total of district ...	1,738,818	354	13	28,611	26,701	55,312	4,255	55,481	22,462
39	Malabar.	Tellicherry circle ...	2,809,117	485	11	15,567	14,116	29,683	2,698	27,925	4,449
40		Calicut do. ...			11	15,851	15,903	31,754	2,877	28,658	2,607
41		Palghat do. ...			12	22,161	21,717	43,878	3,656	42,688	7,319
42		Malappuram do. ...			11	19,945	18,400	38,345	3,486	37,907	4,412
		Total of district ...	2,809,117	485	45	73,524	70,036	143,560	3,190	157,178	19,847
43	Nellore.	Kāvan ...	1,294,906	162	9	8,572	7,246	15,818	1,824	17,331	5,498
44		Gudur ...			7	6,572	5,961	12,533	1,790	12,839	4,965
45		Kanigiri ...			8	6,721	6,361	13,082	1,635	15,018	5,728
		Total of district ...	1,294,906	162	24	21,865	20,168	42,033	1,751	46,188	14,101
46	Nilgiri.	Nilgiri circle ...	89,856	89	3	2,497	2,205	4,702	1,667	4,211	1,355
		Total of district ...	89,856	89	3	2,497	2,205	4,702	1,667	4,211	1,355
47	North Arcot.	Vellore circle ...	1,825,742	371	3	7,040	6,858	13,898	4,633	14,358	7,962
48		Rānipettai do. ...			3	6,504	6,000	12,504	4,168	13,570	4,882
49		Polar do. ...			3	6,736	6,523	13,259	4,420	15,017	4,821
50		Tiruppattur do. ...			11	9,128	8,728	17,856	1,623	18,488	6,102
		Total of district ...	1,825,742	371	20	29,408	28,109	57,517	2,875	61,433	23,067
51	Rāmad.	Srivilliputtar circle ...	1,629,387	337	9	8,521	7,862	16,403	1,822	16,346	8,990
52		Paramagudi do. ...			10	9,478	8,724	18,202	1,820	17,680	6,724
53		Tiruppattur do. ...			11	9,024	8,459	17,483	1,589	17,115	4,582
		Total of district ...	1,629,387	337	30	27,023	25,045	52,068	1,736	51,141	19,296

* Excludes Banganapalle (39,344).

† Excludes Laccadives (10,630).

DEPARTMENT.

Madras Presidency for the official year 1912-1913—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.														
1 and under 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
7,131	16,194	448	429	368	20	89.8	89.9	28.8	2.4	4.6	...	...	...	...
6,855	12,032	538	1,867	1,581	6	90.5	100.0	3.8	3.8	0.3	...	...	...	...
7,393	16,163	614	269	222	32	87.7	93.6	3.2	3.2	11.8	...	...	...	...
20,409	44,392	1,598	2,565	2,451	58	89.3	97.7	28.8	3.1	2.2	51,892	31.9	711	0.4
12,308	23,852	462	325	244	33	90.4	83.6	35.4	1.7	10.1	...	...	...	...
11,202	21,959	466	596	524	15	89.7	90.1	2.8	1.8	2.5	...	...	...	...
11,250	19,915	544	301	233	29	88.8	85.6	2.8	2.8	9.6	...	...	...	...
34,760	65,726	1,472	1,222	1,001	77	89.7	87.4	35.4	1.9	6.3	61,457	32.6	688	0.3
5,876	13,141	114	1,364	1,231	66	96.5	94.8	36.3	0.8	4.8	...	...	...	...
7,361	16,404	146	523	420	34	96.9	87.9	38.8	0.8	6.5	...	...	...	...
13,237	29,545	230	1,887	1,661	100	96.8	92.9	34.9	0.8	5.3	30,514	34.1	340	0.3
3,812	10,677	1,323	373	72	15	66.0	20.1	21.8	7.5	4.0	...	...	...	...
4,773	11,590	1,907	873	369	129	77.7	41.3	21.8	11.3	14.4	...	...	...	...
5,575	15,243	2,620	385	162	157	82.2	71.0	21.8	12.3	40.7	...	...	...	...
14,159	37,515	5,850	1,631	543	298	75.5	40.7	21.8	10.5	18.2	71,642	41.2	742	0.4
13,189	22,840	746	1,758	933	143	84.0	57.7	44.2	2.6	8.1	...	...	...	...
13,587	26,809	361	3,030	2,524	70	94.7	85.2	44.2	1.2	2.3	...	...	...	...
21,695	37,078	1,143	1,482	1,205	56	89.2	84.5	44.2	2.6	3.7	...	...	...	...
19,910	32,639	1,329	594	278	63	89.2	52.3	44.2	3.5	10.6	...	...	...	...
68,381	119,366	3,579	6,864	4,941	332	89.3	75.6	44.2	2.6	4.8	126,551	45.0	1,640	0.5
7,081	13,919	1,140	526	303	110	85.9	63.3	28.3	6.5	18.4	...	...	...	...
4,840	10,904	548	476	359	51	88.7	84.4	28.3	4.2	10.7	...	...	...	...
6,397	11,155	849	221	97	64	78.7	61.8	28.3	5.6	28.9	...	...	...	...
18,318	35,978	2,534	1,293	764	225	84.3	71.5	28.3	5.6	17.4	26,110	27.8	904	0.6
2,089	4,121	19	502	447	22	98.3	93.1	50.8	0.4	4.3	4,592	51.1	17	0.1
2,089	4,121	19	502	447	22	98.3	93.1	50.8	0.4	4.3	4,592	51.1	17	0.1
3,081	11,044	1,310	79	29	17	84.6	45.1	25.1	9.1	21.5	...	...	...	...
4,186	9,126	1,049	650	98	105	72.8	17.9	25.1	7.7	16.1	...	...	...	...
5,510	10,600	1,310	294	39	107	77.3	20.8	25.1	8.7	36.4	...	...	...	...
8,147	14,827	1,522	287	170	74	87.3	79.8	25.1	8.2	25.8	...	...	...	...
20,921	45,591	5,191	1,310	325	308	81.0	83.2	25.1	8.4	23.1	63,110	34.5	2,538	0.3
8,236	15,153	414	396	309	19	95.1	84.2	30.7	2.5	4.9	...	...	...	...
9,021	17,157	44	524	444	47	97.5	98.0	30.7	0.4	8.9	...	...	...	...
10,169	16,704	258	442	334	27	90.0	92.5	30.7	1.5	6.1	...	...	...	...
25,386	49,015	756	1,352	1,137	93	97.2	90.3	30.7	1.4	6.8	47,897	29.3	1,140	0.6

APPENDIX.

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
54	Salom.	Salem circle ...	500,311	262	6	8,290	7,823	16,213	2,702	16,524	6,774
55		Sankari circle ...	605,833	392	10	12,218	11,365	23,583	2,358	25,941	9,748
56		Hosur do. ...	601,383	213	9	10,919	10,474	21,393	2,377	23,770	11,714
		Total of district ...	1,707,527	266	25	31,427	29,762	61,189	2,447	62,838	28,236
57	South Arcot.	Cuddalore circle ...	494,072	787	4	7,712	7,885	15,597	3,899	17,438	6,339
58		Vridhachalam circle ...	481,892	393	7	7,523	7,400	14,923	2,140	15,486	6,404
59		Tirukkoyilur circle ...	408,559	601	6	6,669	6,519	13,188	2,198	13,515	5,761
60		Tindivanam do. ...	395,246	485	5	6,317	6,153	12,470	2,494	12,765	3,825
61		Villupuram do. ...	507,906	755	4	8,320	8,035	16,355	4,089	17,998	7,566
		Total of district ...	2,284,685	545	26	36,541	36,052	72,593	2,792	76,872	27,829
62	South Canara.	Northern circle ...			8	7,329	6,950	14,279	1,784	14,046	4,101
63		Central do. ...	1,142,860	235	8	6,318	6,103	12,421	1,552	11,447	5,312
64		Southern do. ...			9	7,354	7,188	14,542	1,615	13,855	4,177
		Total of district ...	1,142,860	235	25	21,001	20,241	41,242	1,649	39,347	13,590
65	Tanjore.	Tanjore circle ...	410,870	417	7	6,300	5,941	12,241	1,748	11,927	4,807
66		Negapatam do. ...	536,502	791	9	9,047	8,721	17,768	1,974	16,132	6,362
67		Pattukkottai do. ...	593,520	407	11	10,246	9,929	20,175	1,834	20,164	5,531
68		Kumbakonam do. ...	618,122	973	12	10,413	10,184	20,597	1,716	19,699	7,754
		Total of district ...	2,129,014	578	39	36,006	34,775	70,781	1,815	67,832	24,454
69	Tiruvelly.	Shermadevi circle ...			9	11,135	10,117	21,252	2,656	20,662	10,457
70		Sriyakkantam do. ...	1,060,720	361	9	11,714	9,901	21,615	2,408	20,061	10,550
71		Koilpattii do. ...			8	9,972	8,221	18,193	2,274	17,596	8,454
		Total of district ...	1,060,720	361	25	32,821	28,299	61,120	2,445	58,819	29,461
72	Trichinopoly.	Trichinopoly circle ...			12	12,366	11,576	23,942	1,995	23,880	8,058
73		Ariyakur do. ...	1,941,044	393	8	7,929	7,670	15,599	1,949	15,238	6,812
74		Namakkal do. ...			9	10,205	10,000	20,205	2,244	20,596	7,623
		Total of district ...	1,941,044	393	29	30,491	29,246	59,737	2,060	59,622	22,893
75	Vizagapatam.	Guntur circle ...			9	5,318	3,983	9,301	1,033	6,548	1,138
76		Vizagapatam circle ...			13	12,115	12,084	24,199	1,861	23,718	7,240
77		Government vaccinators (Gudem hills) ...	2,454,029		1	280	265	545	545	545	25
78		Vizianagaram circle ...			13	14,616	16,544	31,160	2,397	23,632	6,079
		Total of district ...	2,454,029		49	43,265	44,160	87,425	1,784	75,984	22,626
79	Koraput.	Jeypore circle ...	395,537	71	9	7,371	6,893	14,264	1,585	13,158	2,835
80		Koraput do. ...	229,353	77	7	6,091	5,726	11,817	1,688	10,248	2,264
		Total of district ...	624,890	74	16	13,462	12,619	26,081	1,680	23,406	5,099
		Total of circles and districts ...	38,788,921	291	684	700,157	663,910	1,370,067	2,003	1,348,911	487,069

* Excludes Amindivi islands (3,955).

† Excludes Pudukottai (411,936).

‡ Includes Hill Tracts.

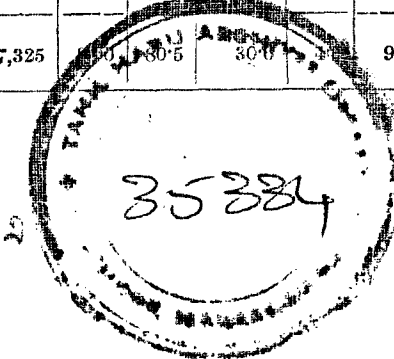
VACCINATION RETURNS.

DEPARTMENT.

Madras Presidency for the official year 1912-1913—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 6 years.	Total of all ages.	Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.							
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
6,980	14,280	679	570	376	65	90.1	74.4	29.2	4.1	11.4	}	...	...	...
11,712	22,553	834	1,255	834	180	89.6	77.5	38.6	3.2	14.3				
7,132	19,808	242	1,412	1,203	126	98.1	93.5	34.1	1.1	8.9				
25,774	56,141	1,755	3,237	2,413	371	91.9	81.1	34.2	2.8	11.4	65,641	38.4	487	0.2
2,988	9,427	4,145	824	274	309	70.9	53.2	19.6	23.7	37.5	}	...	...	...
6,272	13,206	736	373	257	46	89.5	78.5	27.9	4.7	12.3				
7,059	11,775	441	225	180	80	90.0	89.6	29.3	3.2	35.5				
6,720	10,867	614	125	51	60	89.4	78.4	27.6	1.8	48.0				
3,743	11,398	2,485	600	294	236	74.8	80.7	28.0	13.7	39.3				
26,812	56,673	8,371	2,147	1,006	731	82.7	71.0	25.2	10.8	31.0	66,487	20.1	2,559	1.1
6,537	11,884	545	809	572	70	88.0	77.4	}	3.8	8.6	}	...	...	...
4,057	10,431	236	1,398	1,158	63	93.0	86.7		2.0	4.5				
5,637	11,487	630	1,248	864	100	86.8	75.2		4.5	8.0				
16,261	33,802	1,411	3,455	2,594	233	89.1	80.5	31.8	3.5	6.7	42,563	37.1	629	0.5
6,338	11,681	56	470	446	19	98.4	98.9	29.5	0.4	4.0	}	...	...	...
7,040	15,417	254	1,881	1,744	71	97.0	93.3	31.9	1.5	3.7				
10,248	18,042	348	378	473	36	91.0	87.2	32.8	1.7	6.2				
9,301	18,521	214	1,586	1,452	83	97.0	90.9	32.7	1.0	5.6				
33,536	63,961	872	4,515	4,115	215	95.5	85.7	31.9	1.2	4.7	69,332	32.5	1,173	0.5
7,276	18,862	363	1,265	1,228	14	92.9	98.1	}	1.7	1.1	}	...	...	...
7,273	19,072	235	2,189	2,085	44	96.1	96.7		1.1	2.0				
6,720	16,165	288	1,436	1,385	38	93.4	99.0		1.6	2.6				
21,289	54,699	889	4,900	4,698	96	94.1	97.7	35.4	1.5	1.9	67,797	40.8	229	0.1
10,824	20,518	1,271	414	305	43	90.7	82.2	}	5.3	10.3	}	...	...	...
6,169	13,129	611	895	798	80	92.0	97.9		4.2	8.9				
9,365	17,563	1,337	347	270	42	91.9	88.5		6.8	12.1				
26,358	51,510	3,312	1,656	1,373	135	91.4	92.0	27.2	5.5	9.9	43,005	22.1	464	0.2
2,539	6,326	93	2,758	2,660	53	98.0	98.3	}	1.4	1.9	}	...	...	...
10,590	19,844	1,760	1,439	1,916	226	90.4	83.7		7.4	15.7				
261	475	37	...	...	...	94.3	...		6.8	...				
11,567	19,240	2,186	8,880	7,570	552	89.7	90.9		9.2	6.2				
8,779	19,739	565	881	750	42	94.0	91.5		2.6	4.8				
33,736	65,628	4,641	18,938	11,996	873	92.0	91.8	31.6	6.1	6.2	92,968	37.9	1,735	0.5
6,381	12,084	291	1,123	877	29	93.9	80.1	32.7	2.2	2.5	}	...	...	...
4,606	9,562	91	1,623	1,189	36	94.1	74.6	46.8	0.8	2.2				
10,987	21,646	382	2,751	2,066	65	94.0	76.9	37.9	1.2	2.3	25,057	40.0		
544,775	1,131,797	62,763	76,755	55,904	7,325	90.0	80.5	30.0	9.5	1,308,418	33.7	20,680	0.5	

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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.			Primary	
						Males.	Females.	Total.	Average number of persons vaccinated by each vaccinator.	Under 1 year.
1	2	3	4	5	6	7	8	9	10	11
1	Military Cantonments.	Bangalore ...	100,834	7,447	2	407	221	628	314	231
		Secunderabad ...	103,879	5,467	4	3,010	2,781	5,791	1,448	3,110
		Total of cantonments ...	204,713	6,291	6	3,417	3,002	6,419	1,069	3,341
		* Medical Subordinates.				7,017	150	7,176	208	...
2	Municipalities.	Adoni ...	31,645	2,281	1	555	417	1,002	1,002	887
3		Anantapur ...	8,457	910	1	304	114	418	418	233
4		Anakāpalle ...	20,625	1,719	1	572	344	916	916	775
5		Bellary ...	34,953	6,991	3	2,121	1,185	3,306	1,102	2,540
6		Berhampur ...	31,456	5,211	1	866	534	1,400	1,400	953
7		Bezawada ...	22,887	5,978	1	675	546	1,221	1,051	888
8		Bimlipatam ...	9,314	179	1	267	159	426	426	206
9		Calicut ...	78,417	7,292	3	4,303	2,714	7,017	2,339	4,898
10		Cannanore ...	28,957	5,791	1	1,229	614	1,843	1,843	916
11		Chicacole ...	17,852	5,617	1	519	544	1,063	1,063	573
12	Municipalities.	Chidambaram ...	21,327	10,653	1	460	270	730	730	645
13		Chingleput ...	11,626	9,301	1	501	237	738	738	425
14		Cochin ...	20,023	20,023	1	1,254	459	1,713	1,713	910
15		Cocanada ...	54,110	9,018	2	6,489	1,516	8,005	4,002	3,122
16		Coimbatore ...	47,007	11,060	2	1,369	895	2,264	1,132	1,922
17		Conjeevaram ...	53,864	13,466	2	1,062	925	1,987	993	1,879
18		Coochoor ...	9,833	1,710	1	432	236	718	718	577
19		Cuddalore ...	56,374	4,254	2	1,378	1,090	2,468	1,219	2,108
20		Cuddapah ...	17,807	903	1	637	216	853	853	510
21		Dindigul ...	25,052	9,635	1	683	438	1,121	1,121	924
22	Municipalities.	Ellore ...	37,819	12,608	2	1,433	1,230	2,722	1,361	2,392
23		Erode ...	16,701	16,701	1	562	348	910	910	732
24		Gudiyāttam ...	23,390	23,390	1	313	269	582	582	455
25		Guntūr ...	40,522	9,006	1	860	510	1,370	1,370	1,059
26		Karūr ...	17,674	8,837	1	374	236	610	610	514
27		Kodaikūnal ...	2,906	523	1	47	48	95	95	89
28		Kumbakonam ...	64,647	14,626	3	1,091	881	1,972	1,869	1,313
29		Kurnool ...	26,040	5,208	1	859	464	1,323	1,323	981
30		Madras ...	518,060	19,209	21	15,891	11,230	27,181	1,294	22,254
31		Madura ...	134,130	5,086	4	4,207	3,495	7,702	1,925	7,181
32	Municipalities.	Mannārgudi ...	21,398	3,566	1	468	331	797	797	737
33		Mangalore ...	45,412	9,580	2	1,507	1,043	2,550	1,275	1,856
34		Masulipatam ...	42,123	2,113	2	1,091	644	1,735	867	1,339
35		Māyavaram ...	27,121	9,040	1	630	543	1,173	1,173	957
36		Nandyāl ...	16,230	3,607	1	548	263	811	811	635
37		Negapatam ...	60,168	11,638	3	2,775	1,876	4,651	1,550	4,233
38		Nellore ...	33,246	2,078	2	1,094	513	1,637	818	1,062
39		Ongole ...	13,286	3,321	1	379	211	590	590	540
40		Ootacamund ...	18,829	1,345	2	927	561	1,488	744	676
41		Palamcottah ...	44,009	11,227	2	1,288	566	1,854	927	1,271
42	Municipalities.	Palghat ...	44,319	4,185	2	1,217	1,093	2,310	1,155	2,121
43		Parākūmedi ...	15,370	13,812	1	730	318	1,048	1,048	839
44		Periyakulam ...	18,715	24,953	1	487	396	883	883	719
45		Palni ...	13,211	7,519	1	501	214	715	715	422
		Rajahmundry ...	48,417	14,583	2	2,553	779	3,332	1,666	2,091

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

DEPARTMENT.

Madras Presidency for the official year 1912-1913—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.		Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
1 and under 6 years.	Total of all ages.														
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
107	344	...	248	196	...	90.5	79.0	5.3	...	...	1,331	13.2	49	0.4	
952	4,337	14	1,350	1,054	54	94.6	81.3	51.8	0.3	4.0	5,133	49.4	1	0.009	
1,059	4,681	14	1,598	1,250	54	94.4	80.9	28.9	0.3	3.3	6,464	31.5	50	0.2	
3	118	51	6,970	5,133	311	77.6	77.0	...	26.2	4.4	...	...	...	...	
27	722	161	144	188	6	99.4	100.0	27.1	18.1	4.1	1,235	39.0	6	0.1	
29	202	5	201	128	44	88.5	81.5	39.0	2.1	21.8	342	40.4	15	1.7	
88	719	4	188	110	10	93.2	61.7	40.1	0.5	5.8	847	41.0	15	0.7	
213	2,273	...	846	679	...	89.4	80.2	34.4	...	...	2,618	74.8	3	0.08	
101	841	4	527	423	20	88.1	83.4	40.1	0.4	3.7	1,339	42.5	3	0.09	
128	1,025	6	188	139	9	98.0	77.3	35.4	0.5	4.7	1,173	35.6	6	0.1	
45	282	...	125	62	4	80.8	51.2	36.9	...	3.2	447	47.9	2	0.2	
657	4,728	18	2,367	2,100	49	98.1	98.7	88.2	0.3	2.1	6,614	81.3	52	0.6	
288	1,269	30	647	312	150	93.1	62.7	52.5	2.2	23.1	2,136	78.7	121	4.1	
110	561	...	508	506	...	97.9	99.4	59.7	...	...	1,083	57.8	5	0.2	
47	549	25	171	151	14	88.5	96.1	32.8	3.8	8.1	710	23.2	1	0.04	
40	413	...	317	207	55	96.9	72.0	53.3	...	17.3	602	51.7	1	0.08	
94	806	25	867	230	123	91.0	30.9	51.7	2.7	14.1	1,260	62.9	42	2.0	
778	2,202	230	5,785	776	4,592	76.1	65.0	55.0	7.3	70.3	3,508	70.3	65	1.2	
391	1,896	20	421	219	54	83.9	59.6	38.6	1.0	12.8	1,124	23.9	87	2.0	
278	1,597	42	213	110	83	88.6	84.6	31.6	2.2	38.9	1,598	29.6	5	0.09	
205	545	2	141	132	4	94.7	89.0	67.1	0.3	2.8	404	40.6	1	0.1	
445	2,024	5	330	252	18	92.6	80.7	40.2	0.2	5.4	2,525	44.6	7	0.1	
71	468	1	365	289	10	91.9	84.2	43.0	0.1	2.7	909	51.0	5	0.2	
65	890	...	228	193	...	96.3	85.4	43.2	...	...	1,115	44.5	9	0.3	
533	2,166	1	459	250	59	94.1	62.5	43.8	0.04	12.8	2,244	59.3	40	1.0	
95	688	...	189	134	...	93.9	70.8	49.2	...	...	738	44.1	5	0.3	
41	421	8	127	71	49	94.1	91.0	21.0	1.7	39.5	834	35.6	...	...	
104	959	30	315	274	14	93.1	91.0	30.4	2.8	4.4	1,235	30.4	26	0.6	
52	490	...	150	116	23	90.0	91.3	34.2	...	15.3	601	34.0	1	0.05	
3	87	...	6	4	...	97.7	66.6	31.3	...	...	114	39.2	1	0.3	
302	1,634	10	208	145	5	87.8	71.4	27.5	0.5	2.4	1,906	29.4	22	0.3	
127	978	...	381	161	106	99.6	58.5	43.7	...	27.8	1,203	46.1	1	0.08	
2,556	20,695	409	5,280	2,700	781	95.1	61.7	45.2	2.2	14.4	31,219	60.1	141	0.2	
1,900	6,839	1	1,308	1,160	...	95.2	91.4	59.6	0.01	...	8,579	66.1	221	1.6	
110	692	...	71	43	21	93.8	88.0	34.3	...	29.5	824	38.5	33	1.5	
527	1,829	1	694	638	17	93.5	91.2	50.9	0.05	2.4	3,529	72.3	122	2.5	
268	1,279	...	402	371	...	95.5	92.2	39.1	...	...	1,318	32.0	23	0.6	
79	800	...	291	217	8	83.6	76.6	37.4	...	2.7	1,237	45.6	14	0.5	
103	594	2	221	195	16	93.8	95.1	48.6	0.3	7.2	665	40.9	1	0.06	
1,577	3,889	6	418	281	43	92.0	74.9	69.3	0.1	10.2	4,394	73.0	15	0.2	
114	820	1	749	324	64	77.2	47.3	34.4	0.09	8.5	1,013	30.4	31	0.9	
39	415	19	110	95	6	78.6	91.3	38.3	3.5	5.4	615	46.2	39	2.0	
65	669	...	812	748	...	95.9	92.1	75.2	...	...	1,311	66.6	2	0.1	
193	1,174	2	669	497	127	92.5	91.6	37.2	0.1	18.9	1,544	34.3	4	0.03	
336	1,778	...	349	199	...	83.8	57.0	44.6	...	...	2,061	46.5	79	1.7	
217	788	18	231	172	48	95.9	91.4	52.2	2.1	18.6	1,053	57.3	4	0.2	
80	630	2	124	103	22	98.2	91.9	42.3	0.2	10.4	804	42.9	1	0.05	
66	394	1	502	254	25	93.5	81.6	49.0	0.2	8.2	827	62.5	6	0.4	
554	2,098	...	1,241	802	132	96.0	72.3	58.0	...	10.6	2,751	59.8	30	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	59,153	13,984	2	1,750	1,450	3,200	1,600	2,559	2,759	
47		Srirangam	24,799	3,513	1	855	598	1,253	1,253	1,183	684	
48		Srivillipattur	29,006	20,761	1	509	534	1,043	1,043	949	827	
49		Tanjore	60,341	805	2	2,237	1,277	3,514	1,757	1,824	1,492	
50		Tellicherry	29,258	11,703	2	1,336	745	2,081	1,050	969	825	
51		Tenali	18,125	6,998	1	439	270	709	709	708	442	
52		Tinnevely	44,805	7,469	2	1,202	779	1,981	990	1,654	1,226	
53		Trichinopoly	123,512	14,899	3	3,877	2,388	6,265	2,088	5,151	3,804	
54		Tirupattur	10,470	4,188	1	338	191	529	334	387	379	
55		Tirupati	16,701	5,010	1	382	226	614	614	442	379	
56	Municipalities—cont.	Tiruvannamalai	21,244	1,931	1	497	375	872	872	818	587	
57		Tuticorin	40,185	11,481	1	1,069	677	1,746	1,746	1,284	1,078	
58		Vaniyambadi	29,406	5,330	1	348	294	642	642	522	379	
59		Vellore	49,746	8,102	2	1,473	815	2,288	1,144	1,675	1,412	
60		Vizagapatam	43,413	8,349	2	1,050	933	1,983	991	1,253	811	
61		Vizianagram	37,550	7,510	2	2,157	1,444	3,611	1,820	1,913	1,340	
62		Walajpet	9,962	9,962	1	328	148	476	486	324	235	
		Total of municipalities.	2,601,925	7,051	114	87,308	54,748	142,056	1,246	107,682	78,495	
		Grand Total ...	*41,390,849	311	804	803,899	721,819	1,525,718	1,888	1,461,773	863,905	

* Excludes the population of the Cantonments of Bangalore and Secunderabad.
 † In finding the average number of persons vaccinated, the total work of medical
 Note.—(1) Difference between number of operations and number of persons
 (2) This statement does not include the statistics of dispensary vaccination
 N.B.—In calculating the percentage of success shown in this statement and

SUMMARY OF STATEMENT No. I.

1	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.		7	8	9
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under six years.			
By Special staff (statement No. I).	1,401,530	124,188	1,461,773	124,233	88.4	79.0	804	1,888	568,905	563,558	31.7	Rs. A. P. 3,29,341 14 6	Rs. A. P. 0 3 11
By Dispensary staff (statement No. III).	17	221	17	221	84.6	63.7	...	...	...	...	...	...	...
By other agencies, if any.	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,401,547	124,409	1,461,790	124,554	88.4	79.0	804	1,888	568,905	563,558	31.7	Rs. A. P. 3,29,341 14 6	Rs. A. P. 0 3 11

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

DEPARTMENT.

Madras Presidency for the official year 1912-1913—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.			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.	Total of all ages.	Unknown.												
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
88	2,847	...	344	282	...	99.5	81.9	52.8	...	...	2,607	44.0	7	0.1
415	1,139	24	70	59	7	98.2	93.6	48.3	2.0	10.0	1,189	47.9	21	0.8
65	900	12	111	66	27	96.0	78.5	33.2	1.2	24.3	1,085	37.3	1	0.03
305	1,840	43	1,059	1,201	172	97.8	80.7	50.3	2.2	10.3	2,036	33.7	90	1.4
64	903	1	1,142	385	166	93.2	39.4	44.0	0.1	14.5	1,177	40.2	25	0.8
110	560	29	100	58	23	82.4	75.3	33.9	1.0	23.0	564	30.9	1	0.05
187	1,476	11	484	395	68	89.8	93.8	41.7	0.6	13.0	1,537	35.4	28	0.8
1,219	5,661	20	1,111	872	60	98.5	82.9	48.0	0.3	5.4	6,181	49.6	82	0.7
...	431	...	95	92	...	99.3	96.8	49.9	...	...	671	64.0	16	1.5
37	422	1	172	113	38	95.6	84.3	32.0	0.2	22.0	513	30.7	1	0.05
95	698	2	119	93	10	85.5	85.3	37.2	0.2	8.4	775	33.4	21	0.9
139	1,260	...	262	411	13	98.1	91.5	41.5	...	2.8	2,150	53.5	33	0.8
28	402	94	68	28	37	76.1	90.3	21.0	15.1	54.4	880	43.1	5	0.2
236	1,697	1	613	189	409	99.5	82.8	38.9	0.06	08.7	1,323	36.7	22	0.4
227	1,070	2	835	423	98	85.6	57.8	34.4	0.1	11.7	1,511	24.8	22	0.5
271	1,638	11	1,891	1,568	41	86.1	84.7	80.5	0.5	2.1	2,673	71.1	15	0.4
36	276	5	179	139	34	86.5	95.8	41.6	1.5	19.0	449	45.0	...	...
17,721	99,018	1,435	39,010	23,647	7,384	98.2	78.2	47.1	1.3	20.4	132,612	50.9	1,720	0.6
563,558	12,35,614	64,266	124,333	85,934	15,674	88.4	79.0	31.7	4.4	12.6	1,441,030	34.8	22,450	0.5

subordinates is excluded.

vaccinated, equals 60,388 which represents secondary operations.
 which are exhibited separately in statement No. III.
 statement No. III, unknown cases have not been taken into account.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1912-1913.

Expenditure.														Total pay of establishment.	
Number.	Circles.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Pay.	Deputy Inspectors.			Vaccinators.			Peons, etc.					
				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
Amavapur.															
1	Amavapur circle	...	...	...	...	...	1	430 0 0	3	3	3	1,751 4 11	1	55 15 11	2,337 4 10
2	Ponnkonda do.	...	...	...	...	...	1	430 0 0	3	3	5	2,151 13 10	1	56 0 0	2,727 13 10
Total of district															
Bellary.															
3	Bellary circle	...	...	...	...	...	1	480 0 0	5	6	...	2,122 1 3	1	47 8 0	2,099 9 6
4	Hosur do.	...	...	...	...	...	1	539 13 2	4	6	1	2,052 4 2	1	57 8 0	3,089 9 4
Total of district															
Chittoor.															
5	Chittoor circle	...	...	...	...	...	1	661 7 2	...	4	...	1,774 3 7	1	84 0 0	2,519 10 9
6	Saidpet do.	...	...	...	...	...	1	510 0 0	...	4	...	1,290 2 10	1	104 8 0	1,834 10 10
7	Ponnuri do.	...	...	...	...	...	1	720 0 0	...	4	...	1,106 11 6	1	99 8 0	1,985 3 5
Total of district															
Chittoor.															
8	Chittoor circle	...	...	...	...	...	2	1,921 7 2	...	12	...	4,231 1 11	3	288 0 0	4,440 9 1
Total of district															
Chittoor.															
9	Chittoor circle	...	...	...	...	...	1	840 0 0	5	4	1	1,418 13 11	1	95 0 0	2,354 13 11
10	Karvetnagar do.	...	...	...	...	...	1	720 0 0	6	6	1	1,712 5 7	1	84 0 0	2,516 5 7
Total of district															
North Coimbatore.															
11	North Coimbatore circle	...	...	...	...	...	1	490 0 0	3	5	2	1,578 15 2	1	101 8 0	2,160 7 2
12	East do.	...	...	...	...	...	1	840 0 0	1	6	2	1,409 8 2	1	102 0 0	2,251 8 2
13	South do.	...	...	...	...	...	1	700 0 0	2	3	2	946 12 10	1	94 0 0	1,740 12 10
14	Central do.	...	...	...	...	...	1	840 0 0	2	6	1	1,394 3 6	1	101 8 0	2,305 11 6
Total of district															
Coimbatore.															
15	Coimbatore circle	...	...	...	...	...	2	2,800 0 0	8	20	7	5,290 7 8	4	393 0 0	8,558 7 8

APPENDIX.

VACCINATION RETURNS.

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Number.	Circles.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Pay.	Deputy Inspectors.			Vaccinators.			Pay.	Number.	Pay.	Number.	Total pay of establishment.
				First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.				
				6	7	8	9	10	11	12	13	14	15	16
14	Cuddapah circle	...	...	...	...	...	626 0 0	3	6	...	1,452 11 0	1	110 8 0	2,159 3 0
15	Cuddapah do.	...	...	...	...	...	480 0 0	2	5	...	1,177 5 11	1	90 0 0	1,756 6 11
16	Total of district	...	...	...	...	...	1,106 0 0	5	16	...	2,629 6 11	2	200 8 0	4,912 9 11
17	Perthampur circle	...	...	...	...	...	841 10 6	3	5	1	1,344 11 2	1	102 0 0	2,288 5 8
18	Perthampur do.	...	...	...	...	...	516 15 2	2	6	1	1,324 8 6	1	105 8 0	1,945 15 8
19	Chittoor circle	...	...	...	...	...	430 0 0	3	7	5	2,063 1 0	1	89 5 8	2,952 6 8
20	Chittoor do.	...	...	...	...	...	700 0 0	2	4	2	1,117 0 3	1	102 0 0	1,919 6 9
21	Parlakimedi circle	...	...	...	...	...	840 0 0	1	6	1	1,228 4 4	1	89 4 0	2,157 8 4
22	Parlakimedi do.	...	...	...	...	...	563 7 7	3	5	...	1,330 1 8	1	105 8 0	1,969 1 8
23	Total of district	...	...	...	...	...	3,342 1 3	14	33	10	8,468 1 5	6	608 9 8	12,955 12 4
24	Cannara circle	...	...	...	...	...	500 0 0	3	3	1	1,118 11 6	1	102 8 0	1,721 3 6
25	Cannara do.	...	...	...	...	...	562 8 8	5	4	1	1,481 5 6	1	104 6 0	2,031 4 2
26	Poluram circle	...	...	...	...	...	754 5 10	2	3	...	947 5 10	1	115 8 0	1,817 3 8
27	Poluram do.	...	...	...	...	...	498 0 0	4	7	1	1,542 2 5	1	101 8 0	2,142 1 5
28	Total of district	...	...	...	...	...	3,342 1 3	16	20	3	5,971 0 10	5	512 2 11	9,563 2 3
29	Guntur circle	...	...	...	...	...	752 3 2	3	4	3	1,655 8 9	1	102 8 0	2,510 3 11
30	Guntur do.	...	...	...	...	...	720 0 0	4	3	4	1,329 11 3	1	77 0 0	1,851 5 9
31	Total of district	...	...	...	...	...	2,145 2 7	9	10	12	4,985 10 4	3	282 0 0	6,513 12 11
32	Ellore circle	...	...	...	...	...	500 0 0	1	4	10	1,937 4 6	1	84 0 0	2,401 4 6
33	Ellore do.	...	...	...	...	...	720 0 0	2	4	8	1,891 7 4	1	84 0 0	2,696 7 4
34	Total of district	...	...	...	...	...	1,220 4 4	4	8	1	2,603 4 6	1	100 0 0	2,808 9 0
35	Guntur circle	...	...	...	...	...	1,036 1 4	7	10	19	5,808 0 6	3	268 0 0	8,045 4 10
36	Guntur do.	...	...	...	...	...	610 1 0	4	4	5	2,667 4 2	1	89 8 0	2,766 13 2
37	Total of district	...	...	...	...	...	1,646 1 4	8	10	10	4,142 8 8	2	153 8 0	5,509 14 7
38	Dindigul circle	...	...	...	...	...	440 0 0	...	4	...	1,221 10 7	1	100 8 0	1,802 12 7
39	Dindigul do.	...	...	...	...	...	840 0 0	...	5	...	1,298 3 9	1	100 8 0	2,236 11 8
40	Total of district	...	...	...	...	...	1,260 0 0	...	13	...	2,519 12 2	1	97 12 1	2,602 8 3
41	Madras Presidency Town	...	...	...	...	...	2,100 0 0	...	...	...	4,182 10 6	3	268 12 1	6,541 6 7
42	Total of district	...	...	...	...	...	9,632 14 7	...	...	...	...	...	...	9,632 14 7

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1912-1913—continued.

Number.	Districts.	Circles.	Expenditure—cont.				Paid from					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	27		
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.		
390 3 8	604 4 0	3,331 12 6	...	1,022 14 10	2,308 13 8	...	3,301 12 6	12,963	0 4 1			
365 8 3	801 13 3	3,895 3 4	...	861 0 5	2,491 3 1	...	3,886 3 4	16,743	0 3 8			
Total of district ...	1,406 1 3	7,226 15 10	...	1,893 15 1	5,240 0 9	...	7,226 15 10	29,906	0 3 10			
Bellary circle ...	568 6 0	4,558 11 3	...	934 11 7	2,593 15 8	...	3,558 11 3	11,459	0 3 11			
Hospit. do. ...	557 15 0	4,203 0 9	...	1,689 2 3	2,593 14 6	...	4,208 0 9	12,386	0 5 5			
Total of district ...	1,093 14 5	7,761 12 0	...	2,693 13 10	5,167 14 2	...	7,761 12 0	32,844	0 4 7			
Chingapat circle ...	569 0 0	3,410 12 2	...	1,128 7 9	2,271 4 5	...	3,410 12 2	11,770	0 4 7			
Siddajpet do. ...	618 12 6	3,404 12 11	...	1,097 0 2	2,307 12 9	...	3,404 12 11	12,666	0 5 7			
Ponnéri do. ...	747 4 5	3,647 14 1	...	1,249 11 1	2,398 3 0	...	3,647 14 1	12,607	0 4 7			
Total of district ...	1,934 0 11	10,463 7 2	...	3,496 3 0	6,967 4 2	...	10,463 7 2	34,072	0 4 10			
Chittoor circle ...	540 14 10	3,843 10 10	...	1,417 8 5	2,424 2 5	...	3,843 10 10	11,948	0 5 1			
Karvetnagar circle ...	722 5 6	4,133 1 3	...	1,447 6 3	2,685 11 5	...	4,133 1 8	16,910	0 4 2			
Total of district ...	1,263 4 4	8,276 12 6	...	2,866 14 8	5,409 13 10	...	8,276 12 6	29,868	0 4 7			
North Coimbatore circle ...	751 10 11	3,347 8 1	...	932 14 6	2,414 9 7	...	3,347 8 1	10,546	0 5 0			
East do. ...	935 5 1	3,734 0 4	...	1,616 1 6	2,217 14 10	...	3,734 0 4	12,707	0 4 8			
South do. ...	583 4 2	2,598 6 9	...	1,186 4 5	1,412 2 3	...	2,598 6 9	11,378	0 3 11			
Central do. ...	579 5 6	3,719 11 5	...	1,708 1 3	2,016 10 2	...	3,719 11 5	11,956	0 4 7			
Total of district ...	3,106 14 8	13,339 10 7	...	5,388 5 9	8,011 4 10	...	13,339 10 7	46,587	0 4 7			

APPENDIX.

14	Cuddalore.	Cuddalore circle.	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...
35	...	...	...	...	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...
37	...	...	...	...	...	...	...	...	...	...	...	...
38	...	...	...	...	...	...	...	...	...	...	...	...
39	...	...	...	...	...	...	...	...	...	...	...	...

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1912-1913.

VACCINATION RETURNS.

A--VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1912-1913—continued.

Number—cont.		Districts—cont.		Expenditure.										Total pay of establishment.		
				Inspector of Vaccination and Sanitary Engineer.		Deputy Inspectors.			Vaccinators.				Poons, etc.,			
				Pay.	First Grade.	Second Grade.	Third Grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.	Pay.		
1	3			4	5	6	7	8	9	10	11	12	13	14	15	16
Circles—Cont.																
Malabar.																
40		Tellicherry circle	...	...	...	...	...	...	RS. A. P.	...	...	...	...	...	...	RS. A. P.
41		Calicut do.	...	...	...	...	...	...	840 0 0	2	9	...	1,004 14 2	1	102 0 0	2,546 14 2
42		Palghat do.	...	...	...	...	...	...	480 0 0	4	7	...	1,746 2 6	1	102 0 0	2,328 2 6
43		Malappuran do.	...	...	...	...	...	...	713 7 11	3	8	...	2,136 12 8	1	102 0 0	2,663 4 7
Total of district																
44		Kavali circle	...	...	...	...	...	...	2,545 7 11	12	33	...	7,417 6 1	4	408 0 0	10,370 14 0
45		Gudur do.	...	...	...	...	...	...	840 0 0	2	3	...	2,186 10 5	1	94 11 4	2,771 5 9
46		Kanigiri do.	...	...	...	...	...	...	83 2 7	4	1	...	1,493 11 10	1	95 0 0	2,364 14 6
Total of district																
47		Nellore.	...	...	...	...	...	...	560 11 1	3	3	...	1,322 4 10	1	94 0 0	2,487 16 11
Total of district																
48		Nilgiris.	...	...	...	...	...	...	224 13 8	9	71	...	5,624 11 1	3	286 11 4	7,614 4 1
49		Nilgiris circle	...	...	...	...	...	...	660 0 0	3	...	...	1,135 10 3	1	113 0 0	1,998 10 9
50		Nilgiris circle	...	...	...	...	...	...	600 0 0	3	...	...	1,135 10 3	1	113 0 0	1,938 10 9
51		North Arcot.	...	...	...	...	...	...	884 0 0	3	...	...	689 5 1	1	98 8 0	1,381 13 1
52		Yellore circle	...	...	...	...	...	...	840 0 0	3	...	...	689 5 1	1	100 0 0	1,500 7 4
53		Ranipet do.	...	...	...	...	...	...	480 0 0	1	2	...	771 8 8	1	96 9 0	1,348 1 3
54		Polar do.	...	...	...	...	...	...	720 0 0	4	6	...	1,934 0 1	1	100 0 0	2,754 0 1
Total of district																
55		South Arcot.	...	...	...	...	...	...	2,024 0 0	11	8	...	4,055 4 9	4	305 1 0	7,074 5 0
56		Sivilliputtar circle	...	...	...	...	...	...	873 14 11	3	5	...	1,276 8 0	1	103 0 0	2,263 7 5
57		Paramagudi do.	...	...	...	...	...	...	649 1 7	3	6	...	1,331 15 1	1	113 0 0	2,394 0 8
58		Tirupattur do.	...	...	...	...	...	...	720 0 0	3	8	...	1,347 9 4	1	94 15 0	2,367 9 1
Total of district																
59		Madras.	...	...	...	...	...	...	2,243 0 3	9	19	...	4,350 0 11	3	315 16 9	6,915 1 2

APPENDIX.

[illegible]

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1912-1913—continued.

Number.	Districts	Circles.	Expenditure—cont.					Paid from					Total.*	Number of all successful primary vaccination and re-vaccination.	Average cost of each successful case.																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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			Travelling allowance.			Contingencies.*			Total cost.*			Imperial funds.			Provincial funds.			Local funds.*			Municipal funds.																																																																																																																																																																																																																																																																																																																																																																																																																																																	
40	Malabar.	Tallicherry circle	Rs. A. P. 1,029 12 3	Rs. A. P. 1,240 12 6	Rs. A. P. 4,817 6 11	Rs. A. P. 1,726 9 3	Rs. A. P. 3,023 13 8	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. P. 6,077 4 6	Rs. A. P. 3,291 7	Rs. A. P. 4,817 6 11	Rs. A. P. 4,691 12 7	Rs. A. 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APPENDIX.

55	Salem.	Salem circle	372 9 4	750 2 10	3,101 3 6	1,360 10 6	1,800 9 0	3,101 3 6	3,101 3 6	14,650	0 3 4	0 3 4
56		Sankar do.	577 4 10	636 12 8	3,826 11 9	1,129 10 9	2,697 1 0	3,826 11 9	3,826 11 9	23,387	0 2 7	0 2 7
57		Hoster do.	653 9 5	719 13 9	3,477 12 3	861 14 3	2,615 14 0	3,477 12 3	3,477 12 3	20,511	0 2 8	0 2 8
58		Total of district	1,502 7 7	2,106 13 3	10,405 11 6	3,352 3 6	7,083 8 0	10,405 11 6	10,405 11 6	58,554	0 2 10	0 2 10
59	South Arcot.	Chudalore	323 12 6	618 14 7	3,312 5 11	943 8 9	2,368 13 2	3,312 5 11	3,312 5 11	13,701	0 3 3	0 3 3
60		Viduthichalam do.	485 1 11	540 18 7	2,430 10 4	832 4 0	1,607 6 4	2,430 10 4	2,430 10 4	13,463	0 3 9	0 3 9
61		Tirukoyilur do.	759 2 2	443 2 1	2,807 9 2	1,355 2 6	1,452 6 8	2,807 9 2	2,807 9 2	11,905	0 3 0	0 3 0
62		Zhithavaram do.	533 4 5	533 2 3	3,019 5 0	1,382 15 6	1,636 5 6	3,019 5 0	3,019 5 0	10,915	0 4 5	0 4 5
63		Villupuram do.	1,000 15 11	646 11 7	3,275 0 5	1,535 1 0	2,239 14 11	3,275 0 5	3,275 0 5	11,662	0 5 1	0 5 1
64		Total of district	3,102 4 11	2,839 15 7	13,324 14 10	6,080 0 3	9,164 14 7	13,324 14 10	13,324 14 10	57,679	0 4 2	0 4 2
65	South Canara.	Northern circle	853 1 3	466 2 10	4,175 13 1	1,432 4 9	2,733 8 4	4,175 13 1	4,175 13 1	12,136	0 5 4	0 5 4
66		Central do.	913 14 0	597 9 11	3,672 4 7	1,320 0 4	2,352 4 3	3,672 4 7	3,672 4 7	11,359	0 5 0	0 5 0
67		Southern do.	300 15 7	477 0 3	3,801 0 4	1,079 12 6	2,781 3 10	3,801 0 4	3,801 0 4	12,851	0 5 0	0 5 0
68		Total of district	2,759 14 10	1,340 13 0	11,709 2 0	3,532 1 7	7,837 0 5	11,709 2 0	11,709 2 0	36,306	0 5 1	0 5 1
69	Tanjore.	Tanjore circle	202 5 0	809 1 7	3,038 15 2	1,196 10 0	1,837 5 2	3,038 15 2	3,038 15 2	12,127	0 4 0	0 4 0
70		Negapatam do.	324 0 3	1,009 14 5	3,570 11 0	1,274 12 9	2,293 14 3	3,570 11 0	3,570 11 0	17,151	0 3 3	0 3 3
71		Parakkottai do.	249 13 6	737 15 2	2,613 11 5	844 8 6	1,770 2 11	2,613 11 5	2,613 11 5	18,516	0 2 5	0 2 5
72		Kumbakonam do.	243 3 3	1,171 1 2	3,407 15 5	869 3 6	2,537 11 11	3,407 15 5	3,407 15 5	20,273	0 2 8	0 2 8
73		Total of district	1,019 8 6	3,598 0 4	12,827 5 0	4,166 2 9	8,601 2 3	12,827 5 0	12,827 5 0	63,076	0 3 0	0 3 0
74	Tinnevely.	Sernaduri	505 6 9	675 15 7	3,068 9 11	890 9 9	2,178 0 2	3,068 9 11	3,068 9 11	20,090	0 2 5	0 2 5
75		Sorakulam do.	619 3 5	665 9 7	3,025 14 4	838 9 0	2,187 4 7	3,025 14 4	3,025 14 4	21,157	0 2 3	0 2 3
76		Kolpatti do.	325 10 3	631 10 4	2,917 14 7	1,204 1 11	1,713 12 8	2,917 14 7	2,917 14 7	17,550	0 2 7	0 2 7
77		Total of district	1,341 10 5	1,573 3 2	9,012 6 10	2,932 5 5	6,079 1 5	9,012 6 10	9,012 6 10	58,797	0 2 5	0 2 5
78	Trichi-nopoly.	Trichinopoly circle	338 4 1	1,025 15 3	4,976 6 4	1,591 5 8	3,442 0 8	4,976 6 4	4,976 6 4	20,823	0 3 9	0 3 9
79		Aranyalar do.	567 15 8	965 13 0	3,685 3 2	967 13 5	2,717 5 8	3,685 3 2	3,685 3 2	14,227	0 4 1	0 4 1
80		Namakal do.	624 14 6	890 15 2	3,958 12 6	965 12 3	2,673 0 3	3,958 12 6	3,958 12 6	17,833	0 3 3	0 3 3
81		Total of district	2,081 2 3	2,882 11 5	12,332 6 0	3,490 15 5	8,832 6 7	12,332 6 0	12,332 6 0	52,883	0 3 8	0 3 8
82	Vizagapatam	Guntur circle	1,637 4 0	628 5 11	4,233 3 4	1,449 2 10	2,784 0 6	4,233 3 4	4,233 3 4	8,683	0 7 6	0 7 6
83		Vizagapatam circle	402 3 2	1,012 9 11	4,883 6 0	1,281 11 8	3,600 11 1	4,883 6 0	4,883 6 0	20,600	0 3 8	0 3 8
84		Government vaccinators (Gundam hills).	124 4 0	43 16 3	380 3 3	380 3 3	...	380 3 3	380 3 3	179	0 12 8	0 12 8
85		Vizagapatam circle	677 14 5	2,206 3 7	5,474 15 1	1,014 7 0	4,460 8 11	5,474 15 1	5,474 15 1	28,810	0 3 3	0 3 3
86		Pitratipuram do.	1,692 5 10	1,363 7 6	4,916 2 3	1,522 9 4	3,393 8 11	4,916 2 3	4,916 2 3	20,489	0 3 10	0 3 10
87		Total of district	4,325 0 0	5,207 10 2	19,822 14 8	5,645 2 1	14,244 12 7	19,822 14 8	19,822 14 8	77,624	0 4 1	0 4 1
88	Koraput.	Jeypore circle	868 7 10	685 4 9	3,379 14 1	1,211 3 9	1,829 10 4	3,379 14 1	3,379 14 1	12,961	0 4 1	0 4 1
89		Koraput do.	730 11 4	565 1 3	3,042 0 2	1,414 13 8	1,627 2 6	3,042 0 2	3,042 0 2	10,751	0 4 6	0 4 6
90		Total of district	1,615 3 2	1,250 6 0	6,414 14 3	2,623 1 5	3,456 12 10	6,414 14 3	6,414 14 3	23,712	0 4 3	0 4 3
91		Grand Total of districts	56,825 8 7	57,594 13 10	3,02,687 2 5	1,14,630 6 8	1,87,556 11 9	3,02,687 2 5	3,02,687 2 5	1,167,701	0 4 0	0 4 0

* Includes cost of lymph supplied by King Institute of Preventive Medicine during 1912-1913.

VACCINATION RETURNS.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1912-1913—continued.

Expenditure.															
Number.	Municipalities.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy Inspectors.			Vaccinators.			Peons, etc.		Total pay of establishment.				
			Pay.	First Grade.	Second Grade.	Third Grade.	Pay.	First class.	Second class.	Probationers.		Pay.	Number.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
APPENDIX.															
			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	Adoni	..	..	..	..	..	..	..	1	..	..	209 0 0	..	..	209 0 0
2	Anantapur	..	..	..	..	..	..	..	1	..	..	115 2 7	..	..	115 2 7
3	Anakapalle	..	..	..	..	..	..	..	..	1	..	177 0 0	..	..	177 0 0
4	Bellary	..	..	..	..	..	..	..	..	1	..	585 14 5	..	..	585 14 5
5	Berhanpur	..	..	..	..	..	..	..	1	..	..	228 0 0	..	..	228 0 0
6	Devada	..	..	..	..	..	..	..	1	..	..	228 0 0	1	96 0 0	324 0 0
7	Elmalpet	..	..	..	..	..	..	..	1	..	..	210 0 0	..	..	210 0 0
8	Calicut	..	..	..	..	..	..	..	1	2	..	507 0 0	..	..	507 0 0
9	Channarayana	..	..	..	..	..	..	..	1	..	..	240 0 0	..	..	240 0 0
10	Cheruvu	..	..	..	..	..	..	..	1	..	..	228 0 0	..	..	228 0 0
11	Chidambaram	..	..	..	..	..	..	..	1	..	..	209 0 0	..	..	209 0 0
12	Chingleput	..	..	..	..	..	..	..	..	1	..	149 9 0	..	..	149 9 0
13	Cochin	..	..	..	..	..	..	..	1	..	..	215 2 0	..	..	215 2 0
14	Cocanada	..	..	..	..	..	..	..	1	..	..	419 8 0	..	..	419 8 0
15	Coimbatore	..	..	..	..	..	..	..	1	2	..	269 12 0	..	..	269 12 0
16	Conjeveram	..	..	..	..	..	..	..	..	2	..	318 10 9	..	..	318 10 9
17	Coonoor	..	..	..	..	..	..	..	1	..	..	218 15 11	..	..	218 15 11
18	Cuddalore	..	..	..	..	..	..	..	1	..	..	336 0 0	..	..	336 0 0
19	Cuddapah	..	..	..	..	..	..	..	1	1	..	157 6 2	..	..	157 6 2
20	Dindigul	..	..	..	..	..	..	..	1	..	..	187 0 0	..	..	187 0 0
21	Ellore	..	..	..	..	..	..	..	1	1	..	348 2 10	..	..	348 2 10
22	Erode	..	..	..	..	..	..	..	1	..	..	215 8 0	..	..	215 8 0
23	Gudiyattam	..	..	..	..	..	..	..	1	..	..	120 0 0	..	..	120 0 0
24	Guntur	..	..	..	..	..	..	..	1	..	..	324 0 0	1	94 0 0	324 0 0
25	Karur	..	..	..	..	..	..	..	1	..	..	226 0 0	..	..	226 0 0

Number.	Municipalities.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Pay.			Deputy Inspectors.			Vaccinators.			Peons, etc.		Total pay of establishment.
			5	6	7	8	9	10	11	12	13	14	15	
26	Kodakallur	...	...	...	...	...	...	...	...	...	...	...	...	...
27	Kumbakonam	...	...	...	...	...	...	...	...	...	...	...	...	...
28	Kurduvetti	...	...	...	...	...	...	...	...	...	...	...	...	...
29	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
30	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
31	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
33	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
34	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
35	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
36	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
37	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
38	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
39	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
40	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
41	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
42	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
43	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
44	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
45	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
46	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
47	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
48	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
49	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
50	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
51	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
52	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
53	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
54	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
55	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
56	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
57	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
58	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
59	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
60	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
61	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
62	Madurai	...	...	...	...	...	...	...	...	...	...	...	...	...
Total of municipalities			...	...	...	...	...	...	...	...	...	...	...	...
Grand Total			...	...	...	...	...	...	...	...	...	...	...	...

* Assistant Deputy Inspectors. † Clerk. ‡ Vaccinatrix. § Includes 3 Assistant Deputy Inspectors employed in the Corporation of Madras. || Includes 1 clerk employed in the Corporation of Madras.

A—VACCINE DEPARTMENT.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the official year 1912-1913—continued.

STATEMENT No. II showing the Cost of the Department in the Madras Presidency for the financial year 1901-2	Number.	Expenditure—cont.		Paid from		Municipal funds.*		Total.*		Total cost.*		Imperial Funds.		Provincial Funds.		Local Funds.		Municipal funds.*		Total.*		Number of all successful primary vaccination and re-vaccination.		Average cost of each successful case.		
Municipalities.																										
		17	18	19	20	21	22	23	24	25	26															
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	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.	RS. A. P.	RS. A. P.
1	Adoni	...	55 1 1	364 1 1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Arantapur	...	10 10 11	125 13 6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Anakapalle	...	44 8 11	221 8 11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	Bellary	...	153 1 6	738 15 11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	Berhampur	...	46 15 2	274 15 2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Bhavada	...	40 1 9	364 1 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Bimistham	...	17 0 7	227 0 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Calicut	...	352 10 1	859 10 1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	Cananore	...	65 4 6	305 9 6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	Changanassery	...	43 4 3	271 4 3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	Chidambaram	...	25 1 5	234 1 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	Chingleput	...	58 3 5	267 12 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	Cochin	...	43 15 9	263 1 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	Cocanada	...	436 12 1	906 4 1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	Coimbatore	...	103 3 11	492 15 11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	Coonoor	...	125 0 11	441 11 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	Cuddalore	...	65 12 5	284 12 4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Cuddalore	...	172 3 9	508 3 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Cuddalore	...	26 15 5	184 5 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	Dindigul	...	59 12 11	210 12 11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	Ellore	...	141 9 7	489 12 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	Ellore	...	23 7 7	23 15 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Gudiyatham	...	33 15 2	159 15 2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	Gudivada	...	70 6 4	403 6 4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	Karur	...	23 13 11	269 13 11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

APPENDIX.

		VACCINATION RETURNS.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

APPENDIX.

B—DISPENSARY VACCINATION.

TABLEMENT No. III showing Dispensary Vaccination in the Madras Presidency for the official year 1912-1913.

Districts.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.					Re-vaccination.			Percentage of successful cases in which the results were known.		Percentage of unknown cases to total operations.	
					Total number of operations.	Successful.			Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	
						Under one year.	One and under six years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Anantapur	...	...	125	...	14	...	...	11	2	111	34	44	91.7	50.7	14.3	32.6
Bellary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittoor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coimbatore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ganjam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Godavari	...	...	92	...	3	...	...	...	2	89	24	57	...	75.0	66.6	64.0
Guntur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madras	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malabar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nilgiris	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ramnad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Canara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore	...	...	21	...	...	...	...	...	...	21	14	7	...	100.0	...	83.3
Tinnevely	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatnam	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Koraput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	238	...	17	...	...	11	4	221	72	108	84.6	63.7	23.5	48.9

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

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.												VACCINATION RETURNS.	
	1903-1904.	1904-1905.	1905-1906.	1906-1907.	1907-1908.	1908-1909.	1909-1910.	1910-1911.	1911-1912.	1912-1913.	Total number.	Number successfully vaccinated.	1912-1913.	1913-1914.
Government vaccinators	25,837	28,453	27,497	19,958	17,557	12,478	11,319	12,448	11,758	11,214	10,270	11,897	10,545	15,086
Local Fund	1,080,781	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284	1,073,284
Cantonment	5,325	5,100	4,602	5,011	4,542	5,161	5,072	4,184	4,023	4,187	3,903	3,606	3,421	4,821
Zamindari	10,586	8,704	10,385	4,356	...	...	...	...	...	...	...	...	...	...
Municipal	105,005	101,553	111,456	110,654	102,017	110,629	106,432	111,045	106,108	111,754	102,746	111,070	103,028	103,170
Dispensaries	10,003	8,889	7,513	1,024	78	129	120	18	18	5	5	65	60	17
Medical subordinates	3,131	2,740	1,834	3,088	1,556	1,045	758	339	214	411	289	457	322	206
Total	1,250,792	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555	1,210,555

* As per G.O. No. 1155 L, M.S., dated 4th September 1911.

STATEMENT No. V showing Particulars of Vaccination verified by Inspecting Officers during 1912-1913.

Districts.	Total number inspected.			Percentage of inspection to total number vaccinated.			Percentage of cases found successful to total number inspected.				Percentage of success as reported by Vaccinators.		
	Primary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	By Sanitary Assistants to District Medical and Sanitary Officers.	Primary vaccination.	Re-vaccination.	By District Medical and Sanitary Officers and Civil Surgeons.	By Deputy Inspectors of Vaccination.	By Sanitary Assistants to District Medical and Sanitary Officers.			
Anandapur ...	20,481	1,187	762	20,041	208	...	...	...	...	...	...	950	952
Bellary ...	29,056	2,379	374	22,124	330	...	...	...	...	...	...	977	907
Chinglapat ...	47,416	5,243	1,266	45,014	4,014	...	...	...	...	...	...	741	540
Chittoor ...	30,696	2,297	...	20,296	569	...	...	...	...	...	...	790	521
Coimbatore ...	67,060	9,029	...	43,364	2,372	...	...	...	...	...	...	838	351
Cuddapah ...	29,163	1,213	482	21,072	186	...	...	...	...	...	...	702	437
Ganjpur ...	71,293	4,553	384	59,133	2,087	...	...	...	...	...	...	820	623
Godavari ...	67,718	10,217	1,985	49,708	1,106	...	...	...	...	...	...	881	687
Krishna ...	76,813	2,282	150	63,877	289	...	...	...	...	...	...	770	450
Kurur ...	51,257	3,090	135	41,355	1,371	...	...	...	...	...	...	877	735
Kurnool ...	31,462	2,489	1,171	22,154	1,063	...	...	...	...	...	...	868	594
Madras ...	21,801	5,180	...	16,196	1,245	...	...	...	...	...	...	701	493
Madura ...	92,254	4,012	78	47,505	1,435	...	...	...	...	...	...	858	446
Malabar ...	146,456	13,238	2,308	63,506	2,657	...	...	...	...	...	...	754	404
Nellore ...	14,626	2,042	465	32,574	1,122	...	...	...	...	...	...	836	636
Nilgiris, The ...	5,453	1,455	275	3,491	435	...	...	...	...	...	...	737	636
North Arcot ...	60,405	2,511	1,674	51,850	1,120	...	...	...	...	...	...	823	383
Ramnad ...	51,668	1,493	303	34,121	393	...	...	...	...	...	...	802	221
Salem ...	60,812	4,488	2,703	37,434	1,786	...	...	...	...	...	...	823	712
South Arcot ...	73,163	3,001	9	64,505	1,157	...	...	...	...	...	...	828	703
South Canara ...	39,613	4,149	883	26,016	2,224	...	...	...	...	...	...	853	765
Tanjore ...	75,875	7,303	1,902	48,715	3,165	...	...	...	...	...	...	950	904
Tinnevely ...	60,186	6,700	796	50,212	2,178	...	...	...	...	...	...	920	810
Tiruchirappalli ...	91,932	3,049	4,570	60,186	2,552	...	...	...	...	...	...	926	810
Tirunelveli ...	77,414	17,370	...	42,722	11,772	...	...	...	...	...	...	925	949
Tirupattur ...	23,333	2,751	41	17,494	2,746	...	...	...	...	...	...	844	751
Tiruvannamalai ...	...	...	...	...	...	...	...	...	...	...	...	802	...
Vaniyambadi ...	...	...	...	...	...	...	...	...	...	...	...	800	...
Vijayanagara ...	...	...	...	...	...	...	...	...	...	...	...	876	...
Walajapet ...	...	...	...	...	...	...	...	...	...	...	...	1000	...
Total	51,36,23	1,22,511	22,858	36,844	47,612	13,230	85	006	972	741	826	659	884

* Altered under G.O. No. 1133 L., Mis., 4th September 1911.
† The verification work done by the Sanitary Assistants to the District Medical and Sanitary Officers is shown below as required by G.O. No. 529 L., dated 8th August 1903.
‡ Percentage of success as reported by vaccinators is calculated on the total number of operations.
§ Information not available.
¶ Excludes cases performed in the cantonments.

VACCINATION RETURNS.

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

Municipalities.	Number of births available for vaccination during the year 1912-1913.	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 1913.	Date of extension of compulsory vaccination to municipalities.
Adoni ...	2,061	172	551	1st Dec. 1886.
Anantapur ...	285	53	106	1st Jan. 1886.
Anakāpalle ...	656	76	106	1st Nov. 1891.
Bellary ...	1,702	342	521	1st Jan. 1891.
Borhampur ...	1,006	205	303	15th April 1891.
Bewada ...	1,146	292	476	1st May 1892.
Bimlipatam ...	288	38	156	1st Jan. 1894.
Calicut ...	2,995	423	1,758	1st Oct. 1891.
Cannanore ...	1,257	227	708	1st June 1891.
Chicacole ...	491	98	294	1st Dec. 1890.
Chidambaram ...	630	152	345	1st July 1887.
Chingleput ...	540	148	191	1st April 1897.
Cochin ...	707	207	575	1st Jan. 1894.
Cocanada ...	2,186	310	930	1st June 1890.
Coimbatore ...	1,589	322	719	1st Jan. 1893.
Conjeevaram ...	1,644	582	1,086	1st Jan. 1891.
Coonoor ...	368	61	104	1st April 1887.
Cuddalore ...	2,005	569	1,024	1st Aug. 1890.
Cuddapah ...	575	181	228	15th July 1886.
Dindigul ...	1,175	275	638	16th July 1888.
Ellore ...	2,049	685	1,125	1st June 1886.
Erode ...	647	122	363	1st April 1888.
Gudiyattam ...	577	111	278	1st June 1891.
Guntur ...	1,449	411	544	1st Jan. 1889.
Karur ...	578	113	310	1st Sept. 1892.
Kodaikānal ...	115	21	34	1st April 1900.
Kumbakonam ...	1,962	476	959	1st Aug. 1889.
Kurnool ...	1,152	255	600	1st July 1889.
Madara ...	5,406	1,215	3,019	1st Jan. 1891.
Manavgudi ...	743	143	386	1st Dec. 1890.
Mangalore ...	1,624	263	1,130	1st Sept. 1891.
Masulipatam ...	1,477	365	611	1st May 1888.
Mēyavaram ...	818	206	474	1st Oct. 1886.
Nandyal ...	557	122	230	1st Jan. 1900.
Nagapatam ...	1,548	445	831	1st July 1885.
Nellore ...	1,020	180	400	1st Aug. 1886.
Oagole ...	487	102	212	1st Dec. 1883.
Ootacamund ...	757	122	308	1st July 1887.
Palacottah ...	1,546	408	952	1st May 1886.
Palghat ...	1,770	416	1,077	1st Jan. 1883.
Parakkimedi ...	626	125	376	1st Dec. 1890.
Periyakulam ...	794	107	439	1st Feb. 1891.
Palni ...	680	125	238	1st Dec. 1891.
Rajahmundry ...	1,439	413	766	1st Jan. 1890.
Salem ...	2,973	638	2,161	1st May 1891.
Srirangam ...	686	172	328	1st July 1883.
Sevillipattar ...	1,186	207	827	1st Jan. 1896.
Tanjore ...	2,003	469	1,295	1st July 1893.
Tenali ...	624	172	243	1st April 1910.
Tellicherry ...	1,188	222	784	15th Jan. 1892.
Tinnevely ...	1,082	517	876	1st July 1886.
Trichinopoly ...	4,097	943	2,517	1st Aug. 1890.
Tirupattur ...	638	162	276	1st April 1891.
Tirupathi ...	454	89	274	1st Mar. 1890.
Tiruvannamalai ...	1,525	751	528	15th Dec. 1897.
Tuticorin ...	1,310	346	786	1st May 1892.
Vaniyambadi ...	605	74	259	1st May 1889.
Vellore ...	2,022	382	1,203	1st Jan. 1897.
Vizagapatam ...	1,390	299	635	1st Aug. 1890.
Vijayanagara ...	1,472	358	774	1st Jan. 1891.
Walajapet ...	414	96	105	20th June 1892.
Total ...	77,675	17,609	44,133	

STATEMENT No. VII showing Inspection Work done by the Deputy Inspectors during the year 1912-1913.

STATEMENT No. VII showing Inspection Work done by the Deputy Inspectors during the year 1902-3																				
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.	Total number of successful cases as reported by Deputy Inspectors.	Percentage of successful cases to the total number inspected by Deputy Inspectors.	Proportion per cent. of inspection to total number vaccinated.				
		First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.			First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.								
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	
Anantapur.	Anantapur	..	..	1	..	..	403	13,180	280	..	..	9,105	9,105	8,880	880	..	..	680	..	
	Penukonda	..	..	..	..	..	513	17,748	275	..	..	11,144	11,144	10,000	902	..	..	627	..	
Bellary	Bellary	..	..	1	..	..	282	14,711	242	10,561	..	11,903	11,903	10,745	1002	839	..	809	..	
	Hospet	..	..	..	303	..	..	12,572	236	..	..	..	10,561	8,032	834	..	..	..	..	
Chingleput.	Chingleput	..	..	1	..	965	..	17,568	257	..	16,974	..	16,974	11,947	743	..	914	..	856	..
	Saidpet	..	..	..	..	825	576	17,009	255	..	16,706	..	16,706	10,709	658	..	864	..	..	..
Chittoor	Ponnuri	..	..	..	..	..	..	13,340	304	..	..	..	16,706	12,314	737	..	..	..	..	..
	Chittoor	..	..	..	..	..	..	14,740	189	8,882	..	..	8,882	7,045	789	..	..	..	..	..
Chittoor	Karvetnagar	..	..	..	..	905	..	18,774	295	..	11,635	..	11,635	10,075	844	..	..	..	..	..
	North Coimbatore	..	..	1	..	..	372	18,505	313	..	12,036	..	12,036	7,833	650	..	..	..	..	..
Coimbatore.	South do.	..	..	..	..	247	..	13,226	282	9,461	..	..	9,461	8,576	906	..	..	..	..	..
	East do.	..	..	..	1,445	..	..	22,747	335	13,417	..	..	14,417	8,826	617	..	..	..	..	..
Cuddapah	Central do.	..	..	..	715	..	..	18,805	330	9,822	..	..	9,822	8,622	929	..	..	..	..	..
	Cuddapah	..	..	..	534	..	..	10,314	295	5,226	..	..	..	5,726	3,651	672	..	..	..	..
Ganjam	Proddatur	..	..	1	..	..	354	9,919	216	..	..	..	..	6,000	846	..	..	..	..	..
	Sidhant	..	..	..	..	887	..	12,412	216	..	9,075	..	..	7,454	890	..	..	..	..	..
Gollavari	Berhampur	..	..	..	610	..	..	13,454	215	12,770	..	..	..	11,003	912	..	..	..	..	..
	Chitrolo	..	..	1	..	..	704	11,571	333	..	..	..	..	8,885	959	..	..	..	..	..
Gollavari	Ganjam Hill Tracts	..	..	1	..	..	253	13,859	143	..	..	..	..	6,132	953	..	..	..	..	..
	Aska	..	..	..	..	836	..	12,312	216	..	11,133	..	..	11,133	8,344	..	..	..	..	..
Gollavari	Parlakimedi	..	..	..	700	..	..	10,622	271	1,678	..	..	..	10,748	893	..	..	..	..	..
	Purnashottapur	..	..	1	..	..	590	11,705	258	..	..	..	..	6,562	872	..	..	..	..	..
Gollavari	Coesnada	..	..	1	..	..	317	12,429	273	..	..	..	..	11,665	735	..	..	..	..	..
	Polavaram	..	..	1	..	..	253	25,900	300	..	..	..	..	14,598	10,404	..	..	..	..	..
Gollavari	Peddapur	..	..	1	..	..	389	6,204	122	..	..	..	..	4,415	915	..	..	..	..	..
	Bhadrahalam	..	..	1	..	..	284	20,237	235	..	..	..	..	18,943	11,506	..	..	..	..	..

APPENDIX.

VACCINATION RETURNS.

District.	Circle.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.	First-Grade Inspectors.	Second-Grade Inspectors.	Deputy Inspectors.
Guntur.	Guntur	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kistna.	Kistna	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Kurnool.	Kurnool	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Madras.	Madras	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Madura.	Madura	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Malabar.	Malabar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mallore.	Mallore	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nalgonda.	Nalgonda	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
North Arcot.	North Arcot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ramanad.	Ramanad	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Salem.	Salem	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
South Arcot.	South Arcot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
South Canara.	South Canara	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

* Old cases were also inspected.

Includes 700 cases vaccinated in the Penitentiary which were not verified by the Deputy Inspectors of Vaccination, Corporation of Madras.

† Assistant Deputy Inspectors.

STATEMENT No. VII showing Inspection Work done by the Deputy Inspectors during the year 1912-1913—continued.

District.	Circle—cont.	Number of inspecting officers.			Number of villages visited.			Total number of cases vaccinated.	Number of days spent on inspection duty.	Number of cases verified.			Total number of cases inspected by Deputy Inspectors of all sorts.	Total number of successful cases as reported by Deputy Inspectors.	Percentage of successful cases to the total number inspected as reported by Deputy Inspectors.	Proportion per cent of inspection to total number vaccinated.		
		First-grade Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.	First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.			First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.				First-grade Deputy Inspectors.	Second-grade Deputy Inspectors.	Third-grade Deputy Inspectors.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Tanjore ...	Tanjore ...	1	1	1	399	...	211	13,397	254	11,126	...	12,445	12,445	11,811	94.9	...	...	100.3
Negapattinam ...	Negapattinam ...	...	...	...	...	...	542	20,442	250	...	...	13,680	11,126	10,163	91.2	...	...	65.8
Palani ...	Palani ...	...	...	...	...	...	361	21,195	238	...	...	14,619	14,619	14,287	97.5	...	...	69.1
Kumbakonam ...	Kumbakonam ...	...	...	...	...	...	278	21,327	242	...	...	21,283	21,283	19,442	91.3	...	...	97.0
Sermadevi ...	Sermadevi ...	...	...	...	...	...	240	22,260	248	...	...	17,623	17,623	16,781	95.2	...	...	79.1
Sivakurichi ...	Sivakurichi ...	...	...	...	...	...	...	19,032	255	...	...	17,623	13,484	12,318	91.2	...	...	...
Koipatti ...	Koipatti ...	...	...	...	1,040	...	...	24,394	235	15,529	...	11,574	15,529	13,375	86.1	...	...	71.7
Trichinopoly ...	Trichinopoly ...	...	...	...	...	...	...	16,131	177	...	...	11,574	11,574	10,153	87.7	...	...	87.4
Ariyalur ...	Ariyalur ...	...	...	...	...	...	...	20,553	249	...	...	18,241	18,241	15,249	83.5	...	...	...
Namakkal ...	Namakkal ...	...	...	...	...	...	...	9,254	298	...	...	8,483	8,483	6,013	93.1	...	...	69.6
Gunur ...	Gunur ...	...	...	...	...	...	...	25,337	217	...	...	15,301	15,301	10,370	67.7	...	...	59.5
Vizagapatnam ...	Vizagapatnam ...	...	...	...	...	...	...	32,512	247	...	...	17,442	17,442	13,442	77.0	...	...	53.6
Vizianagaram ...	Vizianagaram ...	...	...	...	...	...	...	22,407	263	...	...	...	15,266	13,749	90.0	...	...	...
Parvatipuram ...	Parvatipuram ...	...	...	...	...	...	...	14,381	284	...	...	...	8,905	6,704	75.2	...	...	...
Jeyore ...	Jeyore ...	...	...	...	...	...	...	11,875	232	...	...	...	11,335	9,896	85.5	...	...	...
Koraput ...	Koraput ...	...	...	...	...	...	...	...	223	...	...	...	...	...	...	...	...	...
Total ...	Total ...	20	23	41	11,080	11,878	15,176	1,453,200	223	231,027	303,110	403,049	1,036,486	848,707	81.9	71.3	71.2	71.7

* Old cases were also inspected. † Includes three Assistant Deputy Inspectors employed in the Corporation of Madras. ‡ In working out these percentages the figures relating to Madras have not been taken into account.

Government of Madras. LOCAL AND MUNICIPAL DEPARTMENT.

Recd.

Regd.

1913.

Enclosures

Spare copies

G.O. No. 1438 L., 5th September 1913.

Vaccination.

Reviewing the reports on — in the Madras Presidency and the work of the King Institute of Preventive Medicine for the year 1912-13.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

READ—the following paper:—

Letter—from Captain M. J. QUIRKE, I.M.S., Acting Sanitary Commissioner for Madras.

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

Dated—Madras, the 19th August 1913.

No.—D. 207-V.

I have the honour to forward herewith the report of the Director, the King Institute, Guindy, 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 1912-13.

2. Vaccine Section of the King Institute, Guindy.—In two of the "Trial Scheme" districts (North Arcot and South Arcot) a system providing for more frequent supply of vaccine has been introduced as an experimental measure. Its results are awaited. If the system shows beneficial results, the question of its general extension will be considered.

The cost of the department rose from Rs. 43,520 in 1911-12 to Rs. 45,968 in the year under report, and this has resulted in an enhanced price of the vaccine manufactured at the rate of nearly 0.3 pies per case. The increased cost was mainly due to the installation of a refrigerating plant at the institute.

The percentage rate of success was, as usual, higher in the colder months of the year, and as observed by the Director "the result is in greater part the effect of the temperature on the vaccine." Comparing the success rate in districts as a whole, the Nilgiri district showed the highest rate (98.30). The lowest (69.59) was returned by Coimbatore and this was the lowest on record. Coimbatore has of late years been showing bad results in regard to vaccination as will be seen from the following figures:—

1907-08	..	..	..	..	..	..	..	..	91.04
1908-09	..	..	..	..	..	..	..	..	89.57
1909-10	..	..	..	..	..	..	..	..	81.17
1910-11	..	..	..	..	..	..	..	..	75.54
1911-12	..	..	..	..	..	..	..	..	75.74
1912-13	..	..	..	..	..	..	..	..	69.59

This downward tendency indicates the existence of some local factor. The whole vaccination staff working in the district needs re-organizing. The question is at present engaging attention.

3. Vaccination.—The "Trial Scheme" of vaccination was in force in the whole of the Chingleput district and in portions of North Arcot, South Arcot and Madura districts. The submission of proposals for its general extension in accordance with G.O. No. 1435 L., dated 27th October 1911, is awaiting receipt of further orders of

Government on this office D. No. 1801/S., dated 19th July 1913. The average cost of each successful case of vaccination rose from As. 3-9 in 1911-12 to As. 3-11 in the year under report. The cost was highest in the Nilgiri district (As. 9-2) as in last year (As. 8-9). It was lowest in Tinnevely (As. 2-5). Among municipalities the cost was very high in Kodaikanal—Rs. 1-0-10 against As. 12-5 in the previous year. It was lowest in Calicut (As. 1-11 per case).

The opening of the "reserve calf depot" in the Salem district is delayed pending the construction of quarters for the depot overseer ordered in G.O. Mis. No. 1065 L., dated 24th June 1913.

Order—No. 1438 L., dated 5th September 1913.

The report on vaccination, which was due with Government on the 1st July, was received only on the 20th August—a delay for which no explanation has been offered by the Sanitary Commissioner.

2. The chief features of the year were:—

(i) a decrease of a little over one per cent. in the total number of cases vaccinated;

(ii) a decline under re-vaccinations of 8.9 per cent. in local fund areas including Agency tracts and of 21.2 per cent. in municipalities;

(iii) a slight fall from 89.7 to 88.4 in the percentage of success under primary vaccinations which was only partially counterbalanced by an advance from 77.2 to 79.0 in the percentage of success under re-vaccinations;

(iv) an advance from 31.1 to 37.9 in local fund areas including Agency tracts and a further decline from 50.5 to 47.1 in municipal areas in the number of successful operations per mille of the population;

(v) an increase of 5,268 in the number of successful operations on children under one year of age;

(vi) a rise from As. 3-9 to As. 3-11 in the average cost of each successful case;

(vii) a rise from 4.5 to 4.8 pies in the cost of vaccine per case mainly due to the cost of running and maintaining the refrigerating plant which has made it possible to keep large reserves of vaccine in hand;

(viii) a marked fall from 19,198 to 13,535 in the registered mortality from small-pox.

3. Infantile vaccination is by law obligatory in all areas included in municipalities. It is also compulsory in a number of the more important villages in the Presidency, and the "Trial Scheme" of vaccination, under which both the registration of births and infantile vaccination are compulsory, continued to be in force in the whole of the Chingleput district and in selected areas in Madura, South Arcot and North Arcot. The working of this scheme since its inception and the question of employing better staffs and introducing improved administrative arrangements throughout the Presidency generally are now under the consideration of the Government.

4. In Ganjam the large decline in the total number of cases vaccinated is ascribed in part to the absence of vaccinators on leave without substitutes. The attention of the President of the District Board will be drawn to paragraph 2 of G.O. No. 1086 L., dated 1st August 1908, and he will be requested to report why arrangements have not been made for the maintenance of an adequate reserve staff. In Cuddapah the diminished outturn is explained as in part due to a reduction of the minimum number of operations which vaccinators have to perform. The adequacy of the minimum now prescribed should be carefully examined. The results of the investigation into the continued low percentage of success in the Coimbatore district should be reported to Government.

No. 1438 L., 5TH SEPTEMBER 1913.

5. Excluding the hill tracts where conditions are special, the average cost of each successful case exceeded five annas in the districts of Cuddapah, Gōdāvari and South Canara, while in the municipalities of Bimlipatam, Madras and Ongole the rate exceeded seven annas.

6. Infantile vaccination improved generally in rural areas, the rise being especially marked in the districts of Ganjam, South Arcot, Madura and Salem. But there was a serious fall in Anantapur, Cuddapah and North Arcot, to which the attention of the District Boards concerned is drawn.

7. The Government are glad to observe that the new refrigerating plant and cold store at the King Institute are working satisfactorily.

(True Extract.)

W. FRANCIS,
Ag. Secretary to Government.

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

