

REPORT

ON

VACCINATION IN THE MADRAS
PRESIDENCY

FOR THE TRIENNium ENDING

1922-23



MADRAS
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OFFICE OF THE DIRECTOR OF PUBLIC HEALTH,
MADRAS, 15th August 1923.

From

MAJOR A. J. H. RUSSELL, M.A., M.D., D.P.H., I.M.S.,

Director of Public Health, Madras,

To

THE SECRETARY TO GOVERNMENT,

LOCAL SELF-GOVERNMENT (PUBLIC HEALTH) DEPARTMENT, MADRAS.

SIR,

I have the honour to forward the Report on Vaccination in the Madras Presidency for the triennium ending 1922-23.

2. Consequent on the introduction of the complete District Health Scheme, the Vaccination Department as such has been merged into the wider Public Health Department. The Deputy Inspectors of Vaccination who previously supervised only vaccination work in their ranges are now, under the District Health Scheme, responsible for all branches of Public Health Administration. As a consequence, their designation has been altered to that of Health Inspectors—vide G.O. No. 1425-P.H., dated 17th October 1922, and G.O. No. 1312-P.H., dated 6th August 1923. District Medical and Sanitary Officers (or District Medical Officers as they are now styled) were relieved of the duty of supervising the work of Deputy Inspectors of Vaccination on the appointment of District Health Officers for each district. From 1st October 1923, Government have ordered the reduction of Assistant Directors of Public Health to three with headquarters in Madras in the place of the three range Assistant Directors of Public Health and the Assistant Directors of Public Health in charge of Fairs and Festivals and of Vital Statistics. Under the revised scheme one of the Assistant Directors of Public Health will be in charge of vaccination throughout the Presidency.

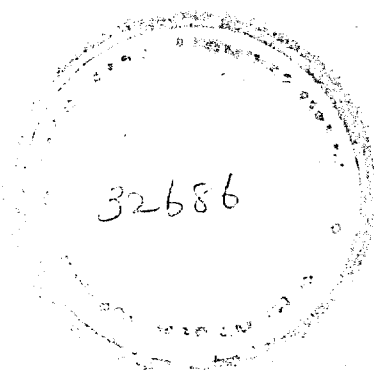
3. One of the recommendations of the conference of the officers of the Public Health Department held at the end of March 1923 was that the time had come to make vaccination compulsory throughout the Presidency. Government delegated to Presidents of District Boards in G.O. No. 789-P.H., dated 11th May 1923, the power to declare vaccination compulsory in any area under their jurisdiction. They have now, in G.O. No. 1226-P.H., dated 21st July 1923, restricted this delegation only to the case of villages which have facilities for the trial of vaccination offences, e.g., the existence of Village Panchayat Courts constituted under the Village Panchayat Act.

4. Under the Local Boards Act, the administration and control of vaccination in rural areas is vested in the Taluk Boards. There is little doubt that it would conduce to greater efficiency if this control were centralized in the District Boards and the Act amended accordingly. This question is under the separate consideration of Government.

5. Government have recently passed final orders regarding the issue of glycerine lymph throughout the Presidency in preference to the lanoline lymph hitherto in use. Orders have also issued, in consultation with the Director, King Institute, that vaccinators should have supplies of lymph four times a month instead of three times.

6. In G.O. No. 411-P.H., dated 15th March 1923, it was ordered that routine vaccination work should cease, except in the presence of smallpox, during the hot weather months and the Railway Administration, the Jail Department, the

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Educational Department and the Military Department have all agreed to postpone vaccination amongst their employees during the summer months. Instructions have been issued to all Vaccinators and Health Inspectors that during the off-season the unprotected registers should be brought up to date by house-to-house inquiry, if necessary, so that when the vaccination season recommences no delay need be experienced.

7. The publication of the revised Vaccination Code, or more properly the Vaccination Section of the Public Health Code, was delayed pending the issue of the rules for vaccination in non-municipal areas. These have now been approved by Government in G.O. No. 832-P.H., dated 23rd May 1923, and the Code is in the Press.

8. Captain N. R. Ubhaya was the Assistant Director of Public Health in charge of the Southern range and Captain R. B. Subrahmanyam of the Northern range throughout the year. The late Dr. S. Jesudoss held charge of the Central range till 13th August 1922 when he proceeded on leave handing over charge to Dr. R. Adishesha Ayyar who continued to be in charge till 5th September 1922. Dr. Adishesha Ayyar was relieved by Dr. K. T. Matthew who was in charge of the range till 5th December 1922, when Dr. Ethirajulu Nayudu took charge.

9. The following statement shows the inspection work of Assistant Directors of Public Health:—

Range.	Name.	Date.	Places inspected.	Purpose.
Northern Range.	Captain R. B. Subrahmanyam.	1922. 14th to 27th Apr. ...	Aska and Purushottapur ranges.	Vaccination inspection.
		20th May to 6th June.	Nellore and Tenali municipalities.	Routine inspection.
		8th to 30th July ...	Narasaraopet, Bozwada, Peddapur, Anakapalle and Bimlipatam.	Do.
		16th to 29th Aug. ...	Bozwada ...	Inspection of Anthy-Pushkaram arrangement.
		2nd to 29th Sep. ...	Do. ...	Do.
		2nd Nov. ...	Narasapattam ...	To discuss with Agency District Medical and Sanitary Officer regarding bifurcation of Agency ranges.
		17th to 19th Nov. ...	Vizianagram ...	To verify the existence of hook-worm disease.
		28th Nov. to 21st Dec.	Kavali, Kanigiri and Atmakur.	Vaccination inspection.
		1923. 11th to 29th Mar. ...	Narasaraopet and Guntur.	Vaccination inspection in both ranges and sanitation of Guntur municipality.
		23rd Mar. to 8th Apr.	Chittoor district ...	Vaccination inspection.
Central Range.	Dr. S. Jesudoss.	19th to 29th Apr. ...	Kurnool do. ...	Investigation into the causes for the serious outbreak of cholera.
		11th to 17th July ...	Salem do. ...	Investigation into the causes of outbreak of relapsing fever in certain parts.
		18th and 19th July.	Sankari ...	Investigation into the cause of delay by District Health Inspector, Sankari, in the submission of monthly and annual returns.
		27th July ...	Tiruppattur municipality.	Sanitary and vaccination inspection.
		20th and 21st Aug.	Conjeeveram do.	Inspection in connexion with serious outbreak of smallpox there.
		26th to 30th Sep. ...	Anantapur district ...	Vaccination inspection.
		5th and 6th Oct. ...	Conjeeveram Municipal Town.	Inspection in connexion with smallpox outbreak there.
		13th Oct. ...	Sevvapet village (Chingleput district).	Inspection in connexion with a suspected case of plague.

Range.	Name.	Date.	Places inspected.	Purpose.
Central Range —cont.	Dr. K. T. Matthew—cont.	1922. 26th Oct. to 6th Nov.	Salem district ...	Vaccination inspection.
		17th and 18th Nov. and 4th and 5th Dec.	Tiruvannamalai municipality.	
		12th to 23rd Dec. 12th to 14th Dec.	Bellary district ... Adoni municipality	Vaccination inspection. Routine inspection.
		1923. 17th to 29th Jan. ... 26th, 28th and 29th Jan.	Cuddapah district Cuddapah municipality	Vaccination inspection. Municipal and vital statistical inspection.
		22nd to 24th Jan. ... 9th to 12th Feb. ... 26th Feb. to 1st Mar.	Proddatur ... Madanapalle Sanatorium. Katpadi and Vellore Railway stations.	Vital statistics inspection. Malaria inspection. Inspection with regard to the responsibility or otherwise of goods traffic for the outbreak of plague.
		2nd to 4th Mar. ...	Gudiyattam municipality.	Municipal and vital statistics inspection.
		6th to 8th Mar. ...	Villupuram municipality.	Do.
				Weight tests were also conducted in the Government Press, Rayapnam Kerosene oil installation and Public Works Workshops during certain months of the year in connexion with a reference from the Labour Commissioner. The Madras Spinning and Weaving Mills Company, Chooai, was inspected to find out the health conditions of the workmen employed there.
		1st to 9th Apr. ...	Madura district ...	Inspection of Madura, Tirumangalam and Periyakulam ranges.
		5th Apr. ...	Usilampatti union ...	Vital statistics investigation.
Southern Range.	Capt. N. R. Ubhaya.	6th and 7th Apr. ...	Bodinayakanur municipality.	Routine sanitary inspection.
		8th Apr. ...	Periyakulam municipality.	Smallpox and routine sanitary inspection.
		10th Apr. ...	Kodaikānal municipality.	Routine sanitary inspection.
		11th Apr. to 10th May.	Tanjore and Trichinopoly districts.	Investigation into relapsing fever.
		12th and 13th May	Madura municipality ...	Inspection of conservancy lane.
		14th to 23rd May ...	Trichinopoly district ...	Investigation into relapsing fever.
		13th and 14th July. 25th to 27th July.	Palghat municipality ... Tanjore and Trichinopoly districts.	Smallpox investigation. Investigation into relapsing fever.
		29th July to 8th Aug.	Cannanore municipality.	Pneumonic plague investigation.
		3rd and 4th Sep. ...	Madras ...	Relapsing fever duty.
		5th to 8th Sep. ...	Tanjore district ...	Investigation into relapsing fever.
Southern Range.	Capt. N. R. Ubhaya.	11th to 13th Sep. ...	Trichinopoly municipality.	Routine sanitary inspection.
		15th and 16th Sep.	Tanjore ...	Collection of relapsing fever statistics.
		18th to 21st Sep. ...	Kodaikānal municipality.	Routine sanitary inspection and investigation regarding infantile mortality.
		22nd Sep. ...	Periyakulam do. ...	Attended the plague meeting.
		Do. ...	Batlagundu ...	Inquiry regarding prevalence of smallpox.
		14th Oct. ...	Coimbatore Railway Station.	Investigation regarding influence of Railway on the spread of plague in the town.
		30th Sep. to 10th Nov.	Rāmpād district ...	Smallpox and vaccination inspection.
		10th and 11th Nov.	Tirumangalam ...	Inquiry into the case against the District Health Inspector.
		26th Nov. ...	Pōdanūr ...	Investigation into the outbreak of plague.
		28th Nov. to 1st Dec.	Tiruppār municipality ...	Routine sanitary inspection and vital statistics investigation.
Southern Range.	Capt. N. R. Ubhaya.	4th to 6th Dec. ...	Erode do. ...	Do.
		7th and 8th Dec. ...	Salem do. ...	Investigation regarding influence of Railway on the spread of plague in the town.

Range.	Name.	Date.	Places inspected.	Purpose of each visit.
Southern Range —cont.	Capt. N. R. Ubhaya —cont.	1922. 18th and 14th Dec.	Udamalpet municipality.	Routine sanitary inspection.
		18th, 19th and 20th Dec.	Ootacamund do.	Do.
		22nd and 23rd Dec.	Negapatam do.	Yellow-fever and smallpox investigation.
		24th and 25th Dec.	Madura do.	Investigation regarding the influence of Railways on the spread of plague in the town.
		1923. 11th and 12th Jan.	Pollachi do.	Plague investigation.
		20th Jan. ...	Mannārgudi do.	Inspection of Haridranathi supply channel.
		22nd to 24th Feb.	Māyavaram do.	Routine sanitary inspection.
		26th and 27th Feb.	Periyakulam do.	Investigation regarding number of unprotected cases.
		28th Feb. to 3rd Mar.	Srirangam do.	Routine sanitary inspection.
		28th Feb. ...	Batlagundu union ...	Inspection of vaccination and sanitation.
		4th to 7th Mar. ...	Karūr municipality ...	Routine sanitary inspection and investigation regarding influence of Railways on the spread of plague in the town.
		8th and 9th Mar. ...	Tiruvālūr do. ...	Vital statistics investigation.
		15th Mar. ...	Tellicherry municipality.	Cholera investigation.
		16th Mar. ...	Calicut do.	Investigation regarding influence of Railways on the spread of plague in the town.

10. The following statement shows the subordinate vaccination staffs employed in the Presidency during the last three years :—

Years.	District Health Inspectors.			Vaccinators.			
	First grade.	Second grade	Third grade.	First class.	Second class.	Third class.	Total.
1920-21 ...	25	35	50	132	292	184	608
1921-22 ...	24	33	53	142	342	174	658
1922-23 ...	119 *			165	380	191	736

* Includes additional District Health Inspectors employed under the District Health scheme in the districts of Vizagapatam, Kistna, Karnool, Trichinopoly and Tanjore.

There were 8 vaccination ranges in the Agency at the end of 1921-22. During the year under report an additional range—Hill Madagole—was formed. The control of vaccination in the Agency was transferred from the Assistant Director of Public Health, Northern Range, to the Agency staff, the Commissioner and his divisional officers being responsible for the administrative side and the Agency District Medical and Sanitary Officer for the technical side—vide G.O. Mis. No. 1359, Rev., dated 25th July 1922.

The two additional Health Inspectors sanctioned for the Kistna district in G.O. Mis. No. 1125-P.H., dated 9th September 1922, were appointed in February 1923 and were entrusted with special propaganda work. The appointment of additional vaccinators sanctioned in the same Government Order is still pending and the Government has requested the District Board to address the President, Taluk Board, Gudivada, to reconsider its resolution and if it refuses to do so, to report the matter to Government for consideration in connexion with the distribution of compassionate grants during 1923-24. The old Aska range in the Ganjam

district was bifurcated under sanction conveyed in G.O. No. 1235-P.H., dated 5th September 1922, and an additional Health Inspector was posted to Gumsur.

The increase in the number of Health Inspectors and Vaccinators as compared with the previous years was due to the introduction of the District Health Scheme in 5 districts, viz., Tanjore, Trichinopoly, Vizagapatam, Kistna and Karnool.

11. In G.O. No. 817-P.H., dated 10th June 1922, a uniform time-scale of pay on Rs. 60—5—120 was sanctioned to all Health Inspectors. A selection grade on Rs. 125—5—150 was fixed for 15 per cent of the total number of appointments.

12. The new scheme of vaccination was in operation throughout the Presidency, but the group system was not adopted in certain districts. There was a decided improvement in the quality of work turned out as compared with that under the old scheme.

13. The main obstacles that still stand in the way of progress in vaccination are—

- (1) Apathy and lack of willing co-operation on the part of the village officers mainly due to their ignorance of the benefits of vaccination, indifference of the higher revenue authorities and the unsatisfactory state of both birth and unprotected registers.
- (2) Laxity of enforcement of the compulsory provisions.
- (3) Inadequate punishment awarded by the magistracy in vaccination cases.
- (4) Non-introduction of compulsory vaccination.
- (5) Poor quality of recruits for vaccinators' posts, which are only applied for as a last resort.

The Government in their Order Mis. No. 354-P.H., dated 1st March 1923, observed that a uniform scale is neither necessary nor desirable since vaccinators are not normally transferred from one district to another. The result is that vaccinators working even in the same district do not receive a uniform scale, while Taluk Boards for reasons of economy frequently give preference to second-class men in filling up vacancies.

Until vaccination and registration of births and deaths are made compulsory in all rural areas without exception and until the Revenue Officers are prepared to compel the village officers by disciplinary measures to maintain their registers properly and render the vaccination staff all assistance, these obstacles will remain.

In the Agency, the extensive area of the ranges, the lack of means of communication and the frequent sickness of the staff all prevent rapid progress. Proposals for the formation of 4 more ranges have been submitted to Government by the District Medical and Sanitary Officer, Agency Division, through the Agency Commissioner.

14. The following table exhibits the total vaccination work performed by all agencies throughout the Presidency :—

	1920-21.	1921-22.	1922-23.
Primary vaccination (including secondary) ...	1,388,598	1,298,094	1,436,033
Re-vaccination	179,672	176,625	325,583
Total ...	1,568,270	1,474,719	1,761,616

Compared with the two previous years the total number of vaccination operations performed during 1922-23 shows a marked and satisfactory increase.

The reasons that may be assigned for the increase are—

- (1) The widespread prevalence of smallpox throughout the Presidency.
- (2) The large number of unregistered births and out-births detected during the period of suspension of routine vaccination.
- (3) The increase in the minimum prescribed for vaccinators.

15. The figures for the three ranges are given in the following statement :—

	1920-21.			1921-22.			Agency Divi- sion.	1922-23.		
	Northern range.	Central range.	Southern range.	Northern range.	Central range.	Southern range.		Northern range.	Central range.	Southern range.
Primary vaccination (including second- ary).	424,005	422,941	541,652	385,809	401,431	510,854	65,290	341,848	444,681	584,214
Re-vaccination ...	65,035	44,921	60,716	45,128	60,146	71,351	10,021	79,225	83,232	153,105
Total ...	489,040	467,862	611,368	430,937	461,577	582,205	75,311	421,073	527,913	737,319

The districts which showed the largest increases were Vizagapatam (+ 19,694), Guntūr (+ 11,851), Kistna (+ 10,037) and Malabar (+ 54,564).

16. The cost of the various vaccination staffs and the average cost of each successful case are exhibited in the following statement :—

Establishment.	Total expenditure.			Average cost of each successful case.		
	1920-21.	1921-22.	1922-23.	1920-21.	1921-22.	1922-23.
Government establishment ...	Rs. 15,070 A. 6 P. 0	Rs. 15,425 A. 0 P. 10	Rs. 25,220 A. 10 P. 4	Rs. 1 3 A. 6 P. 1 4 0	Rs. 1 4 A. 0 P. 1 10 0	Rs. 1 10 A. 0 P. 0 7 6
Local Fund do. ...	4,44,578 3 5	4,30,206 12 1	4,47,972 0 9	0 10 4	0 8 5	0 7 6
Municipal do. ...	79,471 3 10	67,184 1 11	65,393 13 7	0 11 6	0 9 1	0 7 6
Cantonment do. ...	4,033 9 6	3,834 4 4	5,230 2 6	0 13 1	0 9 4	0 12 3
Total ...	5,43,153 6 9	5,16,650 3 2	5,43,816 11 2	0 10 8	0 8 8	0 7 10

The cost per case decreased from As. 8-8 to As. 7-10. This is due to (1) the better quality of lymph supplied, (2) suspension of vaccination work during the hot weather and (3) free supply of lymph to local bodies under G.O. No. 493, Financial, dated 11th May 1921.

The cost varied from As. 4-3 per case in the Vizagapatam district to As. 13-0 in the Cuddapah district whilst in the municipalities it varied from As. 1-6 in Calicut to Rs. 1-14-0 per case in Palacole.

17. The total number of successful operations by all agencies and the percentage of successful cases, including re-vaccination, are shown in the subjoined statement :—

Establishment.	Number of successful vaccinations.						Total number of successful vaccinations.		
	1920-21.		1921-22.		1922-23.				
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	1920-21.	1921-22.	1922-23.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Local Fund vaccinators ...	651,154	34,780	793,007	23,704	898,474	51,165	685,934	819,711	950,639
Government do. ...	10,616	1,704	11,860	497	14,981	544	12,320	12,357	15,525
Municipal do. ...	88,536	21,906	90,518	28,345	96,943	41,794	110,442	118,863	138,742
Cantonment do. ...	3,024	1,905	4,354	1,412	5,245	1,506	4,929	5,766	6,841
Dispensaries ...	113	1	115	188	140	26	114	303	168
Medical subordinates ...	482	9,168	1,402	10,499	1,232	12,581	9,660	41,901	13,813
Total ...	753,935	69,464	904,256	64,645	1,015,020	110,706	823,399	968,901	1,125,726

Establishment.	Ratio per cent of successful cases.						Ratio per cent of total successful cases.		
	1920-21.		1921-22.		1922-23.				
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	1920-21.	1921-22.	1922-23.
(1)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
Local Fund vaccinators ...	59.4	35.7	77.7	32.0	78.5	31.3	57.5	74.7	72.1
Government do. ...	68.7	71.2	72.2	32.2	70.7	36.6	69.0	68.7	66.0
Municipal do. ...	81.5	61.0	88.6	54.9	89.0	52.3	76.4	77.3	73.7
Cantonment do. ...	68.2	35.3	75.6	26.2	84.1	24.5	50.2	51.8	53.7
Dispensaries ...	97.4	100.0	90.6	79.7	94.0	57.8	97.4	83.5	85.6
Medical subordinates ...	71.6	69.8	78.9	67.0	72.2	63.2	69.9	68.2	64.0
Total ...	61.5	45.0	78.6	43.5	79.2	39.5	59.6	74.6	78.2

In paragraph 2 of their Order No. 1672-P.H., dated 2nd December 1922, Government desired me to comment in future annual reports in the variations in the successful vaccination rate per mille of population in different districts.

In the Northern Range, the municipalities showed an improvement chiefly due to the failure of the non-co-operation movement. There was a fall in the local fund areas due to (1) employment of inefficient and unqualified vaccinators and paucity of first-class vaccinators, (2) failure to verify all cases vaccinated, (3) failure to raise the minimum of vaccinators in order to make up for non-vaccination during the off-season and (4) non-employment of additional vaccinators.

In the Central Range, when compared with the two previous years all the districts except Kurnool showed an increased rate. The lowest figures are those of Salem district (19.4) and South Arcot district (19.9). For the Presidency the percentage of success under primary vaccinations has progressively increased during the past two years, the actual figures for 1920-21, 1921-22 and 1922-23 being 61.5 per cent, 78.6 per cent and 87.6 per cent, respectively. These large increases are very gratifying and the figure for 1922-23 is one which American authorities consider to be very satisfactory. It is hoped that by (1) the cessation of vaccination during hot weather months, (2) the supply of improved quality of vaccine lymph by the King Institute of Preventive Medicine and (3) the recent introduction of District Health Scheme throughout the Presidency, there will be a still further increase in the percentage of success in future years, when it will be possible to explain more satisfactorily the variations in success rates as required in G.O. Mis. No. 1672-P.H., dated 2nd December 1922.

18. *Infantile vaccination.*—When compared with the previous year there has been a rise of 22,335 in the number of children under one year of age successfully vaccinated. The rise is due to the increased number of births recorded during the year as the result of vigilant checking of vital statistics by the vaccination staff during the vaccination off-season and the scrutiny exercised by the inspecting officers.

In the Agency, compared with the previous year, there was a decrease in the number of children under one year of age successfully vaccinated.

The districts which showed an increase were :—

Trichinopoly (+ 6.1 per cent), Cuddapah (+ 5.5 per cent), North Arcot (+ 4.6 per cent), Malabar (+ 3.4 per cent), South Kanara (+ 2.5 per cent), South Arcot (+ 1.2 per cent) and Coimbatore (+ 1.2 per cent).

Districts which showed a decrease of over 10 per cent in this respect were Nellore (-24.5), Rāmṇād (-15.9), Anantapur (-14.4) and Ganjām (-10.5).

19. *Vaccination in municipalities.*—203,107 operations were performed during 1922-23 in the municipalities against 169,923 in the previous year, an increase of 33,184. The largest increases were recorded in the Municipalities of Madura (+7,274), Cochin (+5,667), Madras (+4,214), Calicut (+3,792), Kurnool (+3,314), Negapatam (+2,515), Conjeeveram (+2,226), Masulipatam (+1,794), Rajahmundry (+1,454), whilst there were large falls in Palacole (-1,468), Vizianagram (-983), Bellary (-3,609), Salem (-509), Cuddapah (-591), Proddatur (-363), Palghat (-611), which is very regrettable, for smallpox was prevalent in this municipality in an epidemic form, Coimbatore (-363), Palni (-281), Pollachi (-241) and Sivakasi (-227) mainly attributable to the want of genuine interest in vaccination on the part of the authorities concerned.

Among municipalities where primary vaccination was compulsory, marked decreases of over 20 per cent occurred in Tiruppur (-63.8), Saidapet (-53.0), Chirala (-43.6), Palacole (-39.5), Peddapur (-39.3), Ongole (-38.1), Adōni (-35.5), Negapatam (-36.1), Berhampur (-34.5), Bellary (-34.1), Palni (-33.3), Rajahmundry (-29.1), Tadpatri (-27.5), Anantapur (-27.3), Chicacole (-26.7), Cocanada (-26.2), Chidambaram (-26.1), Mangalore (-25.3), Kodaikānal (-24.7), Sivakasi (-23.8), Mannārgudi (-22.9), Salem (-22.3), Madura (-22.1), Tirupati (-21.6), Cannanore (-21.1) and Srīrangam (-20.2).

The fall under this head was attributed by local bodies to the following causes :—

- (1) Increased birth-rate.
- (2) Greater number of failures in vaccination.
- (3) Increased attention paid to re-vaccination.
- (4) Scant attention paid by the Municipal Councils on the ground that vaccination is under the supervision of a medical officer.
- (5) The general unwillingness to appoint qualified vaccinators. For example, in the Chirala Municipality, not a single vaccinator was appointed for months until a qualified man was forced upon it.

The real reason is that, where there is no Health Officer, municipal vaccination is left in most cases entirely to the vaccination staff, who are badly paid, are not supervised, and are on the slightest pretext employed on other duties. The average Municipal Council, indeed, takes not the slightest interest in vaccination work, and considers money spent thereon as wasted.

20. The percentage of success obtained by the use of different kinds of lymph in the local fund and municipal areas is compared in the following table :—

Number of cases excluding unknown.	Area.	Kind of lymph.	Whence obtained.	Percentage of success.
14,026	Government	Lanoline	King Institute of Preventive Medicine.	73.6
6,394	Do.	Glycerine	Do.	75.5
777,592	Local Fund	Lanoline	Do.	71.7
372,633	Do.	Glycerine	Do.	82.4
51,240	Municipal	Lanoline	Do.	84.0
57,642	Do.	Glycerine	Do.	82.0
170	Do.	Lanoline	Bangalore	95.3

The percentage of success obtained with glycerine lymph in local fund areas and municipalities was 82.4 and 92.0, respectively.

21. 26,526 deaths occurred from smallpox against 9,792 in the previous year. The proportion of population protected and the incidence of smallpox in districts

and municipalities during the year is shown in the annexed diagrams. The year under report recorded the highest number of deaths in the Northern Range, the majority of which occurred in the local fund areas. The largest number of deaths was recorded in South Arcot (1,754) and the lowest in Kurnool (244). Though vaccination was compulsory in the South Arcot district, the recorded birth rate is the lowest in the Central Range, viz., 24.5. Imperfect registration is evidently the root cause of the high prevalence of this disease in this district. In the Southern Range, the mortality from smallpox was 10,512 during 1922 against 2,846 in 1921, an enormous increase. The eastern districts were very badly affected. Amongst municipalities, Madura, Cochin, Palghat and Coimbatore suffered badly and in the latter two towns vaccination and re-vaccination were carried out in a most unsatisfactory fashion.

In the Agency, 6 ranges out of 9 were free from smallpox. In the other 3 ranges the total number of attacks were 250 and deaths 32.

22. The conduct and work of the Health Inspectors has been generally satisfactory during the year under report. Inspection of vaccinated cases by Health Inspectors was on the whole fair, 99 Health Inspectors having verified over 75 per cent and 53 below 75 per cent. Suitable notice has been taken of those Health Inspectors who failed to reach the minimum percentage of verifications.

23. During the year under report 5 Health Inspectors were punished with fine, two with suspension and one with stoppage of increment.

24. The Service Registers of all Health Inspectors are verified in this office.

25. With reference to Government Memorandum No. 5265-1 P.H., dated 25th May 1922, I append herewith a consolidated statement showing the quantity of lymph supplied to municipalities during 1922.

There was a general increase in the demand for vaccine lymph in the following municipalities over that of 1921 :—

Adōni, Anantapur, Chingleput, Chittoor, Cochin, Calicut, Cuddapah, Hospet, Hindupur, Ootacamund, Coonoor, Coimbatore, Salem, Tadpatri, Tinnevely, Madura, Trichinopoly, Vāniyambādi, Villupuram, Walajapet and Madras. This was generally due to the prevalence of smallpox in epidemic form. Thirty-seven towns showed a decrease ranging from 5 in the case of Bodinayakkanūr to 335 in Guntūr. The decrease was attributable to the visitation of plague in certain towns, absence of smallpox, the large number of unprotected children available for vaccination, lack of increased vaccination and to the very low monthly minimum fixed for vaccinators.

The Assistant Director of Public Health (Northern Range) pointed out that the minimum of municipal vaccinators should be increased as they have not got to encounter the difficulties of the rural vaccinator who has to travel on foot from village after village. He therefore recommends a cent per cent increase, or a minimum of 50 cases per 1,000 of population per annum.

26. In paragraph 4 of G.O. No. 765-A-P.H., dated 1st June 1922, the local bodies and municipalities were asked to report on—

- (a) The percentage of unprotected persons to the total population,
- (b) Steps taken to ensure better maintenance of birth registers,
- (c) Number of vaccinators employed,
- (d) The insertion success rate attained,
- (e) Condition of vaccinators' equipment,
- (f) Committees formed and propaganda work done by them,
- (g) Steps taken to extend re-vaccination, and
- (h) Arrangements made for educating public opinion. ✓

Most of the replies reveal a sad state of affairs. The following is a typical one of its kind and is given here *in extenso* for the information of Government :—

“(a) *The percentage of unprotected persons to the total population.*—The Taluk Boards are quite unable to give any statement of figures under this head. They say that, under the present system of working, it is not feasible to secure accurate figures or to give the exact information required. From their

local knowledge they think that the percentage falls short of the Presidency average of 1919-20. Registration of vital statistics must be made compulsory and, if local boards are to be responsible for the public health of the area under their control, should be in close touch with the registered figures. With the recent increase of pay to village headmen who have hitherto been considered as honorary revenue officials in the villages, it should be possible to legislate on more rigid lines and fix a definite responsibility on them in this respect and subject to legal penalty. At present neither the local boards on whom the responsibility for public health administration rests nor the superior members of the Public Health Department have any sort of control over these village headmen who are also the registrars of vital statistics. The superior District officers of the Revenue Department under whose control village headmen are placed are unable to devote any appreciable time in checking the accuracy of registration in villages. Under the rules in force local bodies are not furnished with statements of vital statistics registered in their areas and until such facilities are afforded local boards will be unable to discharge their duties in a fitting manner with regard to the public health of the areas entrusted to their care. Village officers can only have one controlling head, namely, the Collector. But as the Collector or his Deputies have no time to control their village officials neglect of vital statistics must involve statutory and legal punishment. Failing this, Government must make up their mind that any statistics are inaccurate and will continue to be inaccurate.

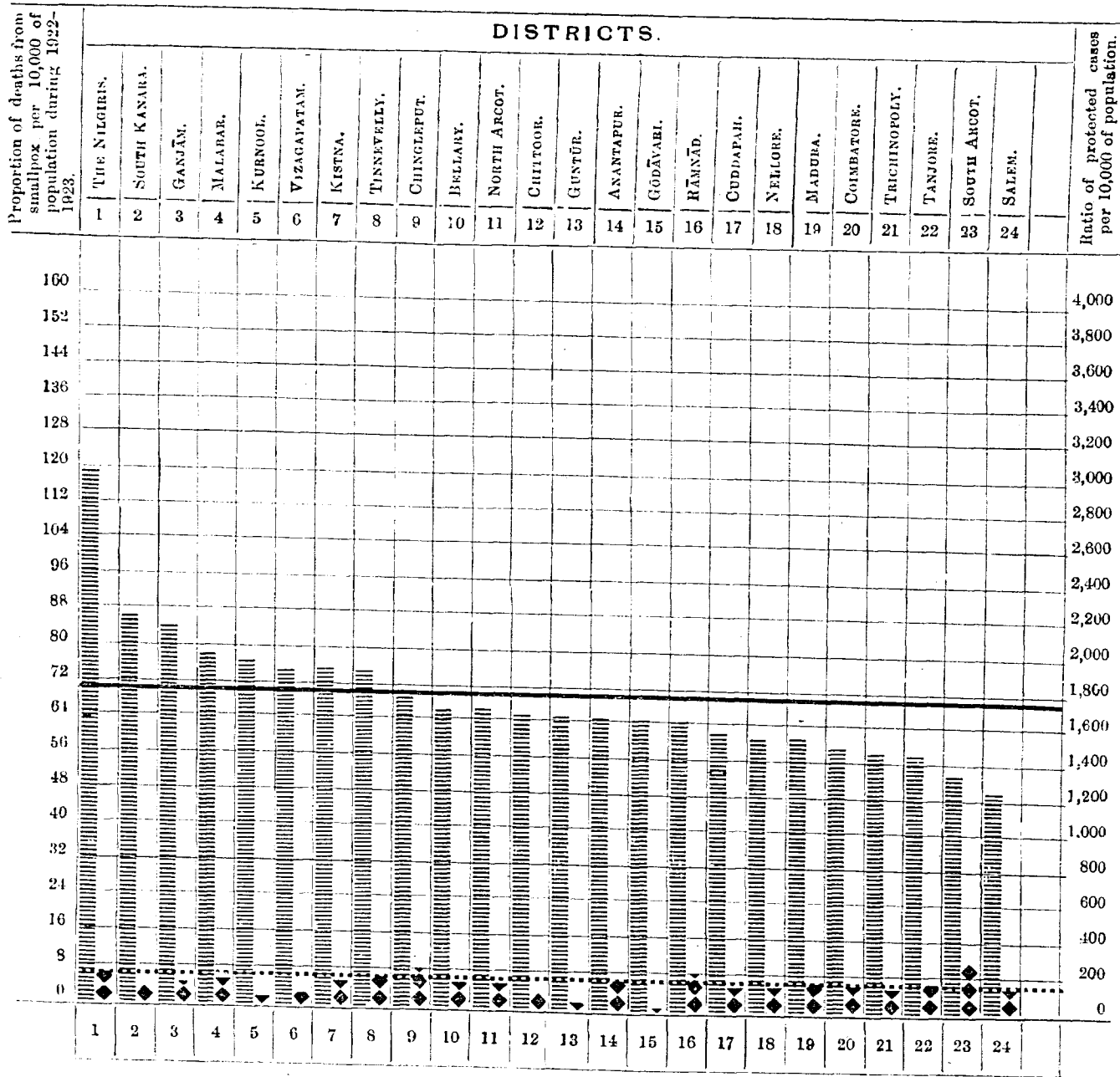
(b) Steps taken to ensure the better maintenance of birth registers, etc.—

At present these registers are maintained mostly by village headmen who are under the control of the Revenue Department of Government. Any steps taken by the local boards to better the condition of registry can only be done by the formation of vigilance committee in villages. The Dharmapuri Taluk Board has taken steps in this direction only recently. Each member of the Taluk Board is authorized to organise village committees in his area with a view to assist accurate registry of vital statistics. In the case of the Dharmapuri and Hosur Taluk Boards the members themselves have agreed to give popular health lectures in villages within their jurisdiction by reading out published pamphlets. The personal opinion of the President, Taluk Board, Hosur, is that in an area like Hosur it is too much at this stage to expect local committees to be of any use in this direction. He however suggests that, in the present state of things, a more satisfactory course will be to ask Deputy Inspectors of Vaccination (Health Inspectors) to arrange for popular lectures in villages and thus induce villagers to realize the benefits of vaccination. The suggestion is no doubt good provided arrangements are made in advance for a proper congregation of villagers each time the Deputy Inspector is visiting villages. This again depends on the personal interest which the President, Taluk Board, and members of Local Boards take to arrange for such lectures.

There is at present visible apathy for vaccination in villages with the result that the outturn of a vaccinator in a village in spite of the introduction of door-to-door vaccination still continues to be poor. Co-operation from village headmen continues to be rare and most of the villagers continue to look askance at the benefits of vaccination. The boards in general expect that, with the coming of the new District Health staff from April next, much can be done with their help and advice. A Health Officer will be able to guide the boards and advocate timely measures to combat diseases. Further he will be able to give health lectures in important centres time and again.

*(c) Vaccinators employed.—*The staff employed under each board is shown below in detail:—

Hosur Taluk Board.	4.	None are qualified.	Fairly efficient.
Dharmapuri	...	4.	Do.
			Two of the vaccinators are old but quite efficient, the other two though old are not efficient.
Salem	...	...	4.
			Two are fully qualified.
			Two of the vaccinators are old, the one is efficient, the other not up to the mark.

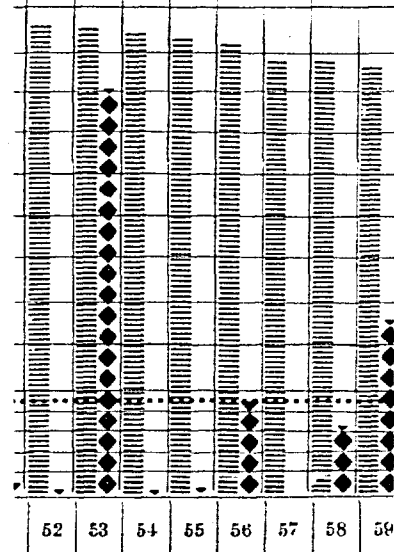


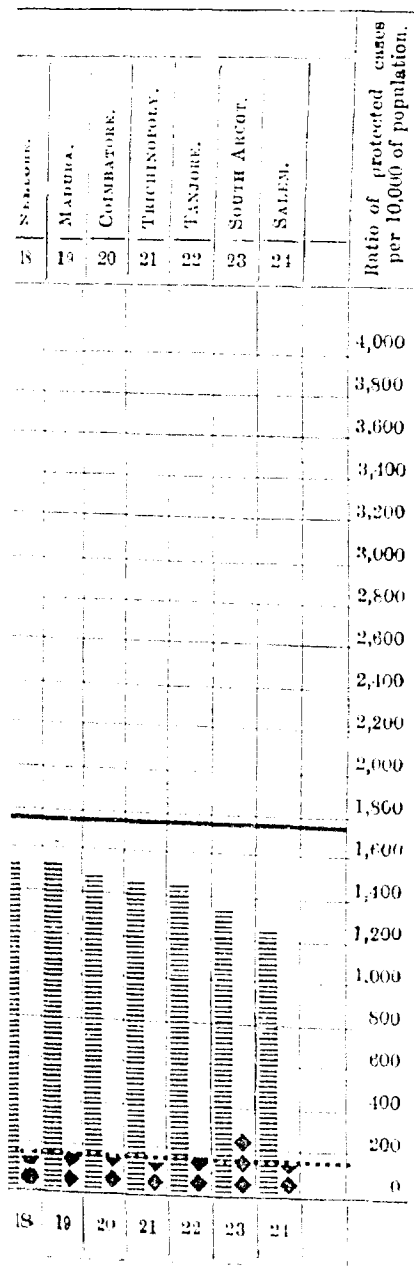
REFERENCE.

||||| REPRESENT THE PROPORTION PER 10,000 PROTECTED FROM SMALLPOX.
◆◆◆◆ REPRESENT THE PROPORTION OF DEATHS FROM SMALLPOX PER 10,000 POPULATION.

NOTE.—Agency figures not received.

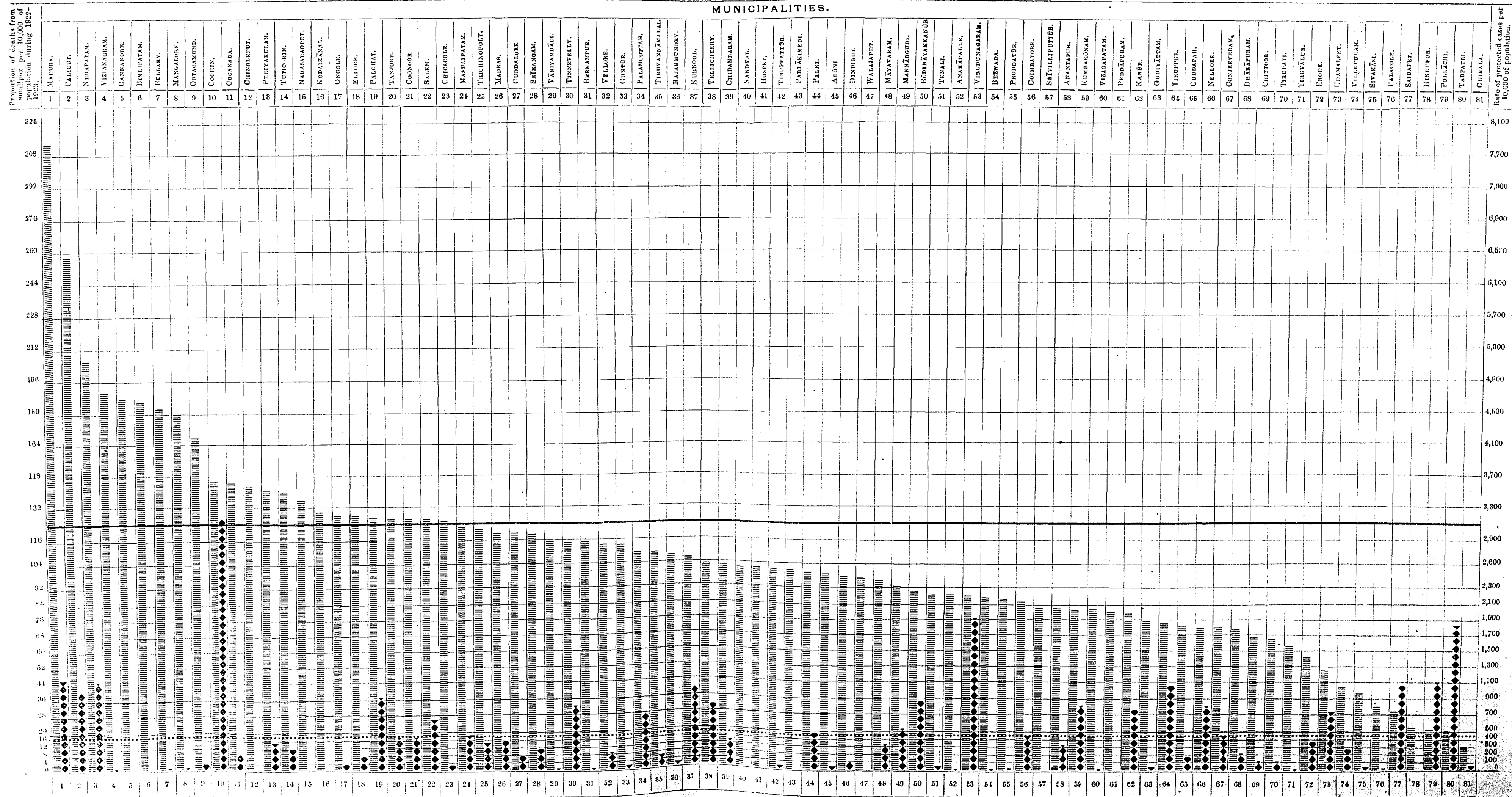
1	52	53	54	55	56	57	58	59
ANAKAPALLE.	VIRUDUNAGARAM.	BEZWADA.	PRODDATUR.	COIMBATORE.	SRIVILLIPUTTUR.	ANANTAPUR.	KUMBHAKONAM.	





10,000 POPULATION.

MUNICIPALITIES.



REFERENCE.

REPRESENT THE PROPORTION OF POPULATION PER 10,000 PROTECTED FROM SMALLPOX.

REPRESENT THE PROPORTION OF DEATHS FROM SMALLPOX PER 10,000 OF POPULATION.

160
152
144
136
128
120
112
104
96
88
80
72
64
56
48
40
32
24
16
8
0

Sankari ...	5. None are qualified.	The work of one old vaccinator is efficient and the work of remaining 4 new vaccinators not very efficient.
Namakkal ...	4. Do.	The work of one old vaccinator is efficient and the work of the remaining vaccinators are not efficient.

First and second class vaccinators are very rarely obtainable. The staff employed must not only be able to carry out vaccination but should also be able to explain in a convincing manner the benefits of vaccination to the villagers each time they visit villages.

(d) *The insertion success rate attained.*—The percentage of success for each board is noted below—

Hosur ...	75.2
Dharmapuri ...	64.3
Salem ...	75.0
Sankari ...	23.4
Namakkal ...	75.3

(e) *Conditions of vaccinators' equipment.*—The District Medical and Sanitary Officer is of opinion that the full equipment is not maintained by vaccinators though the boards would say that they have been providing everything that was wanted. This will be examined by the boards themselves in detail. ✓ It is reported that vaccinators do not carry bags with them. The sterilization of lancets and cleaning of arms of children before operating seem to be lacking at present and if this is true, the people are amply justified in not coming forward enthusiastically to be vaccinated.

(f) *Committees formed and the work done by them.*—Some boards ✓ have just decided to form vigilance committees and some are contemplating to do so (*vide item (b) supra*). Progress in this direction can be expected if the Health Officer proves himself to be a man with some personality.

(g) *Steps taken to extend re-vaccination.*—No special steps have been taken and the people in general have not been brought to realize its importance. Improvement in this direction can be expected only when the local committees show their activities and exercise some supervision over the reputed careless and dirty habits of some of the vaccinators.

(h) *Arrangements made for educating public opinion.*—*Vide item (f) supra.* This will require time and very poor results will be forthcoming at first.

General.—(1) Registration of Vital Statistics has to be made compulsory and subject to statutory penalty for neglect and local board members authorized to check the registry.

(2) Every complaint or suggestion of a vigilance committee should form the subject of the proceedings by the local Deputy Collector, copy of which should be furnished to the Taluk Boards for information at its meetings.

(3) Facilities for enabling local bodies to know their birth and death rates should be provided. Copies of registers may be furnished by the Collector or local Deputy Collector monthly to these bodies.

(4) The vaccinating staff should bring their difficulties to the notice of the local vigilance committee or failing help there to the President, Taluk Board.

(5) Arrangements to be made for providing members of local boards with an easy styled and upto-date pamphlets on important public health topics to guide them in giving popular lectures in villages.

(6) At present, the cause of poor results in vaccination work lies chiefly with the village officers and the vaccinators and local bodies are not yet in a position to put matters in a better basis."

I agree with most of the above remarks and hope that now that each district is equipped with a District Health Staff with a District Health Officer at its head, many of the defects pointed out will disappear.

I have the honour to be,
Sir,

Your most obedient servant,

A. J. H. RUSSELL, M.A., M.D., D.P.H., Major, I.M.S.,
Director of Public Health, Madras.

Number.	Municipality.	Minimum to be vaccinated.	Quantity of vaccine supplied by the King Institute of Preventive Medicine, Guindy.															
			April.		May.		June.		July.		August.		Septem-ber.		October.		Total for 7 months.	
			1921.	1922.	1921.	1922.	1921.	1922.	1921.	1922.	1921.	1922.	1921.	1922.	1921.	1922.	1921.	1922.
1	Berhampur ...	...	120	60	60	...	...	...	120	180	120	180	180	180	180	180	780	780
2	Parlakimedi ...	...	90	135	70	...	...	15	...	50	50	50	50	50	50	50	310	350
3	Chicacole ...	...	75	50	75	...	25	25	70	75	75	75	85	75	75	50	490	350
4	Vizagapatam ...	...	219	115	120	190	...	165	210	235	210	195	210	195	210	200	1,170	1,295
5	Vizianagram ...	...	1,120	100	559	...	...	200	295	300	300	300	300	300	300	300	2,874	1,500
6	Anakāpalle ...	...	80	60	...	...	...	...	55	85	80	105	80	110	80	95	375	455
7	Binalipatam ...	...	45	80	55	...	50	15	30	45	45	60	45	45	45	75	315	320
8	Rajahmundry ...	...	205	145	110	50	20	75	150	270	220	300	245	320	220	380	1,170	1,440
9	Cocanada ...	...	235	70	120	...	...	130	200	495	200	325	175	300	200	235	1,555	1,130
10	Peddāpur ...	...	40	15	40	...	...	25	40	40	40	40	40	40	40	40	240	200
11	Ellore ...	...	150	150	60	...	...	...	30	...	30	...	150	150	150	150	570	450
12	Bezwaḍa ...	...	120	70	90	50	...	30	30	20	30	...	140	210	120	210	530	590
13	Masulipatam ...	...	16	195	60	...	...	100	195	205	165	175	165	165	165	195	915	1,035
14	Palakole ...	...	45	...	60	...	...	80	30	20	30	...	45	45	45	45	255	190
15	Guntūr ...	...	200	55	115	5	25	10	50	10	25	...	185	220	195	225	775	525
16	Tenali ...	...	80	40	60	20	70	60	65	20	50	...	70	90	50	70	455	300
17	Chitrāla ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	Ongole ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	Narasaraopet ...	...	40	10	60	...	...	20	30	...	30	...	90	40	90	40	340	110
20	Nellore ...	...	140	80	35	75	...	...	35	80	...	350	105	265	105	390	420	1,240
21	Conjeevaram ...	...	200	400	40	...	...	...	200	280	200	295	200	213	200	340	1,690	2,428
22	Saidapet ...	...	...	95	...	25	...	...	...	...	...	35	...	...	...	15	170	170
23	Chingleput ...	...	70	90	40	70	...	15	70	50	70	70	70	70	70	70	390	435
24	Cuddalore ...	...	250	150	50	...	...	...	30	25	30	...	175	210	150	225	685	610
25	Chidambaram ...	...	80	75	60	30	...	...	30	30	30	10	80	80	55	90	335	315
26	Villapuram ...	...	50	95	60	55	...	150	30	100	45	50	65	50	50	285	565	565
27	Trichinopoly ...	...	455	665	110	150	25	100	30	150	30	365	610	580	400	800	1,660	2,810
28	Srirangam ...	...	100	100	60	...	...	...	30	25	30	10	100	110	100	110	420	355
29	Karūr ...	...	45	55	60	...	...	...	...	...	35	...	35	60	35	60	210	175
30	Kumbakonam ...	...	225	225	60	...	...	...	30	...	30	80	225	225	225	150	795	680
31	Tanjore ...	...	240	260	60	18	...	230	30	160	80	95	240	250	240	890	1,253	1,253
32	Negapatam ...	...	310	340	280	...	10	...	80	20	90	110	340	350	370	575	1,480	1,395
33	Māyavaram ...	...	100	100	60	70	...	75	...	85	30	80	100	100	100	390	610	610
34	Tiruvālor ...	...	35	50	60	30	...	...	30	10	30	30	50	75	60	60	265	255
35	Mannārgudi ...	...	60	60	60	...	...	...	50	20	30	...	60	60	80	110	340	250
36	Madura ...	...	1,230	2,390	30	500	...	500	30	330	360	330	900	1,050	980	1,460	3,530	6,560
37	Dindigul ...	...	65	105	80	75	20	...	80	20	30	20	85	70	105	165	605	610
38	Bodinayakkanūr ...	...	80	80	45	...	...	20	50	60	30	60	60	60	60	60	325	320
39	Palni ...	...	35	25	20	50	...	50	55	75	70	115	70	55	80	...	330	370
40	Periyakulam ...	...	80	80	60	...	...	...	80	100	130	100	50	100	80	100	510	480
41	Kodakkūnal ...	...	30	70	30	70	30	20	30	20	80	45	30	60	30	20	260	305
42	Srivillipattūr ...	...	100	100	60	...	...	...	30	...	30	30	100	100	100	100	420	330
43	Virudupatti ...	...	50	90	40	15	...	...	30	...	30	...	100	105	75	70	325	280
44	Sivakāsi ...	...	25	50	85	...	...	...	20	...	120	...	75	50	75	75	400	175
45	Tinnevely ...	...	225	375	110	...	...	20	60	75	60	200	225	375	225	375	905	1,420
46	Pālamcōttah ...	...	300	200	60	70	...	130	200	200	200	200	200	200	200	200	1,160	1,200
47	Toticoorin ...	...	195	200	40	185	20	65	20	100	40	120	125	200	545	505	985	1,375
48	Kurnool ...	...	115	35	60	...	...	...	100	100	125	...	125	...	100	...	635	135
49	Nandyal ...	...	50	20	60	...	...	...	50	35	50	...	50	...	50	...	310	55
50	Cuddapah ...	...	55	120	60	...	...	5	30	...	40	...	55	65	55	65	290	255
51	Proddatur ...	...	40	50	60	...	...	...	30	...	30	...	140	80	65	80	365	210
52	Belary ...	...	320	95	130	...	...	...	265	...	300	...	280	...	195	...	1,490	95
53	Adōni ...	...	125	65	100	80	100	40	110	90	110	90	90	90	30	100	665	555
54	Hospet ...	...	55	...	10	...	...	...	60	90	60	60	60	...	150	240	360	360
55	Hindupur ...	...	...	40	...	...	...	...	...	...	...	55	...	90	...	60	...	245
56	Anantapur ...	...	30	120	60	35	15	...	120	...	30	...	30	30	40	100	325	285
57	Tadipatri ...	...	30	...	10	...	...	...	50	...	30	...	30	50	30	50	180	100
58	Vellore ...	...	230	200	60	...	...	20	30	...	90	...	230	286	230	250	870	756
59	Gudiyāttam ...	...	70	...	40	...	...	...	30	...	30	...	70	100	70	110	310	210
60	Tiruvannamalai ...	...	75	80	50	...	...	...	30	...	30	...	75	225	70	90	330	395
61	Vāniyambōdi ...	...	100	100	70	...	...	...	30	...	30	...	100	150	70	130	400	380
62	Tirupattūr ...	...	70	50	60	...	...	...	30	...	30	...	60	...	50	...	300	50
63	Walajapet ...	...	45	40	60	...	...	...	30	...	40	...	40	65	30	55	245	160
64	Chittoor ...	...	55	150	65	60	...	25	70	...	105	...	65	150	70	150	430	535
65	Tirupati ...	...	45	50	10	...	...	...	30	...	30	20	50	50	50	50	215	150
66	Salem ...	...	90	220	120	...	45	...	260	290	260	130	260	130	260	260	1,295	1,030
67	Coimbatore ...	...	270	730	270	180	60	200	300	300	300	320	270	320	300	320	1,770	2,370
68	Erode ...	...	120	90	85	...	...	...	115	50	65	85	90	75	75	80	550	380
69	Dhārāpuram ...	...	90	40	60	...	10	25	70	55	75	85	75	60	75	85	445	350
70	Pollachi ...	...	50	75	60	20	...	20	75	75	75	75	75	75	70	75	405	415
71	Tiruppur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
72	Udamalpet ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
73	Ootacamund ...	...	140	510	70	330	100	330	100	190	100	180	100	170	100	165	710	1,875
74	Coonoor ...	...	45	40	60	40	40	420	40	160	40	190	40	135	40	105	305	1,090
75	Mangalore ...	...	235	340	115	65	110	...	135	235	200	200	250	290	235	235	1,245	1,365
76	Calicut ...	...	450	500	70	...	...	...	550	850	550	1,050	4					

* Records not available owing to vaccinator's death.

VACCINATION STATEMENTS.

VACCINATION

A—VACCINE

Statement No. 1 showing the particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1921.	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	Ganjam.	AGENCY DIVISION. NORTHERN RANGE.	1,503,105	...	47	33,479	30,863	64,342	1,535	65,280	10,454
2		Aska circle ...	1,767,775	...	5	5,493	4,355	9,848	1,824	8,410	2,457
3		Berhampur do. ...				6,594	5,834	12,428	2,071	9,787	3,560
4		Chicacole do. ...				6,423	6,400	12,823	2,565	9,482	3,831
5		Ghumsoor do. ...				717	541	1,258	419	1,171	334
6		Parlakimedi do. ...				6,718	5,502	12,220	2,037	8,799	3,216
		Parushottapur do. ...			5	5,084	4,570	9,654	1,930	9,146	2,724
		Total of district ...	1,767,775	...	30	31,929	27,202	58,231	1,941	46,745	1,622
7	Gadchadi.	Amalapuram circle ...	1,350,440	...	4	6,918	5,495	12,413	3,103	11,060	1,235
8		Cocanada do. ...				8,127	7,715	15,842	3,960	12,537	3,980
9		Peddapnam do. ...				6,234	6,234	12,961	3,240	13,791	4,330
10		Rajahmundry do. ...				6,005	4,958	10,961	3,653	9,865	1,995
		Total of district ...	1,350,440	...	15	27,777	24,400	52,177	3,478	47,253	11,540
11	Guntur.	Bapatla circle ...	1,695,773	...	5	5,749	5,250	10,999	2,200	10,497	2,681
12		Guntur do. ...				8,353	7,642	15,995	2,285	16,632	3,676
13		Narasaraopeta circle ...				5,838	5,584	11,422	2,285	11,419	2,656
14		Vinukonda do. ...				4,963	4,250	9,213	2,303	8,021	2,640
		Total of district ...	1,695,773	...	21	24,903	22,726	47,629	2,268	46,569	11,653
15	Nellore.	Atmakur circle ...	1,349,538	...	4	3,759	3,284	7,043	1,761	6,666	1,137
16		Gadur do. ...				4,210	3,783	7,993	1,998	7,771	2,217
17		Kanigiri do. ...				4,529	4,030	8,558	2,142	8,526	1,093
18		Kavali do. ...				7,225	5,682	12,907	2,581	8,592	1,675
19		Nellore do. ...				5,545	4,141	9,686	3,228	8,092	978
		Total of district ...	1,349,538	...	20	25,268	20,929	46,197	2,310	39,617	7,000
20	Kistna.	Bezwa circle ...	1,981,286	...	2	1,860	1,689	3,549	1,774	4,106	819
21		Bhimavaram circle ...				3,321	2,883	6,204	3,102	6,011	857
22		Divi do. ...				2,413	2,358	4,771	4,771	4,802	487
23		Ellore do. ...				2,659	2,579	5,238	2,619	4,840	1,449
24		Gannavaram do. ...				3,273	2,887	6,160	3,080	5,768	1,382
25		Gudivada do. ...				2,070	1,822	3,892	3,892	4,295	534
26		Kaikalur do. ...				1,123	930	2,053	2,053	2,219	360
27		Kovvur do. ...				3,016	2,651	5,667	2,833	5,582	1,502
28		Masulipatnam do. ...				1,708	1,598	3,306	3,306	3,823	647
29		Nandigama do. ...				1,230	1,115	2,345	2,354	2,693	911
30		Narasapur do. ...				2,031	1,722	3,753	1,878	4,192	780
31		Penugonda do. ...				2,918	2,762	5,680	5,680	5,874	2,145
32		Tanaka do. ...				2,403	2,451	4,904	2,452	5,015	1,822
33		Tiruvur do. ...				839	832	1,661	1,661	1,939	262
		Total of district ...	1,981,286	...	21	30,966	28,229	59,195	2,819	61,158	13,657
34	Vizagapatnam.	Anakapalli circle ...	2,119,431	...	2	3,001	3,514	6,515	3,257	5,466	1,758
35		Bimalipatam do. ...				2,245	2,111	4,356	4,356	4,141	517
36		Bobbili do. ...				5,449	4,893	10,142	5,071	5,003	910
37		Chipurupalli do. ...				5,788	5,702	11,490	3,830	9,491	2,457
38		Chodavaram do. ...				2,780	2,616	5,406	2,703	5,328	1,165
39		Gajapatinagaram circle ...				3,334	3,089	6,373	3,186	4,972	765
40		Narasapatam circle ...				1,940	1,844	3,784	3,784	3,750	727
41		Palaconda do. ...				2,106	1,581	3,687	1,843	3,332	756
42		Parvatipur do. ...				2,615	2,017	4,632	4,632	4,252	833
43		Rajam do. ...				2,239	2,261	4,500	2,250	4,603	1,095
44		Saloor do. ...				2,780	2,561	5,341	5,341	5,429	850
45		Jami do. ...				2,826	2,927	5,753	5,753	4,731	810
46		Vizagapatnam do. ...				1,471	1,987	3,458	1,729	2,062	659
47		Vizianagaram do. ...				8,754	3,770	7,524	2,568	9,555	1,682
48		Yellamanchili do. ...				4,317	4,115	8,432	4,216	7,726	1,816
		Total of district ...	2,119,431	...	27	46,655	41,738	91,393	3,385	79,471	16,606
		Total work of Medical Subordinates.	...	...	...	3,896	55	3,951	...	3	...
		Total of circles in the Northern Range.	11,767,851	...	134	186,598	168,224	354,822	2,648	321,244	77,078

STATEMENTS.

DEPARTMENT.

Madras Presidency for the official year 1922-23.

vaccination.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of cases unknown to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average number of deaths from smallpox during the previous 5 years.						
Successful.									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.	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					
25,203	43,198	5,073	10,021	3,476	956	83.9	38.3	31.1	7.8	9.5	46,545	31.0	...	...					
3,200	5,964	685	1,559	339	154	77.1	24.1	{ ... }	8.1	9.9	{ ... }	...	...	...					
2,656	6,427	1,768	2,769	539	774	80.7	27.0		18.2	27.9									
3,229	7,224	907	3,341	785	628	84.2	28.9		9.6	18.8									
429	793	112	232	47	39	74.9	24.4		9.6	16.8									
3,119	6,543	700	3,421	1,262	332	80.8	40.9		8.0	9.7									
2,946	6,050	1,460	1,431	286	453	74.3	29.2		16.0	31.7									
15,579	33,001	5,632	12,753	3,258	2,380	80.3	31.4	20.5	12.0	18.6	50,267	28.4	962	0.5					
4,688	6,828	1,160	1,551	220	201	65.9	16.3	{ ... }	10.5	13.0	{ ... }	...	...	...					
3,836	8,238	1,305	3,495	451	310	73.3	14.2		10.4	8.9									
4,897	9,719	1,327	1,752	458	477	77.9	35.9		9.6	27.2									
3,368	5,657	1,408	2,263	299	250	66.9	14.9		14.3	11.0									
16,784	30,440	5,200	9,061	1,428	1,238	72.4	18.3	23.5	11.0	13.7	34,423	24.5	681	0.5					
4,536	7,447	1,084	676	248	126	79.1	45.1	{ ... }	10.3	18.6	{ ... }	...	...	...					
7,044	10,985	1,913	1,000	129	194	75.2	16.0		11.5	19.4									
4,845	7,555	694	993	218	148	71.4	25.8		8.1	14.9									
1,968	4,753	762	1,294	821	35	65.5	65.2		9.5	2.7									
18,393	30,840	4,453	3,963	1,416	503	73.2	40.0	19.0	9.6	12.7	40,519	24.5	1,623	0.9					
2,861	4,291	561	505	147	109	70.3	37.1	{ ... }	8.4	21.7	{ ... }	...	...	...					
3,763	6,259	502	1,091	334	192	86.1	37.2		8.5	17.6									
3,151	4,411	464	624	72	35	54.7	12.2		5.4	5.6									
3,227	5,191	1,052	4,081	950	674	68.8	22.0		12.2	13.5									
4,395	6,050	887	2,182	603	308	83.9	35.3		10.9	14.0									
17,397	26,202	3,466	9,383	2,166	1,316	72.4	26.9	21.0	8.7	16.2	32,410	24.0	1,024	0.8					
1,782	2,748	465	204	43	30	75.0	24.7	{ ... }	11.3	14.7	{ ... }	...	...	...					
2,782	3,866	673	766	227	149	72.8	36.8		11.2	19.5									
2,721	3,566	563	846	184	139	84.0	26.0		11.7	16.0									
1,768	3,541	620	1,564	648	353	83.9	53.5		12.8	22.6									
1,996	3,532	591	1,514	435	216	68.0	38.2		10.2	16.2									
2,386	3,013	488	328	57	85	79.0	18.5		11.3	21.9									
851	1,288	289	245	24	60	67.0	13.0		13.0	24.5									
2,308	4,012	672	1,071	235	212	81.7	27.3		12.0	19.8									
1,466	2,240	479	295	29	42	67.0	11.5		12.0	14.0									
917	1,909	212	103	30	13	77.0	33.3		8.0	12.6									
1,689	2,778	799	678	227	114	81.8	40.2		19.1	16.8									
2,004	4,305	592	365	58	33	81.5	17.5		10.1	9.0									
1,863	3,897	455	465	127	49	85.4	29.9		9.1	8.6									
968	1,319	225	37	18	13	77.0	75.5		12.0	35.0									
25,490	42,035	7,123	8,541	2,392	1,529	77.8	34.1		22.4	11.6					17.9	55,493	28.1	1,465	0.8
2,108	4,054	477	1,123	253	194	81.3	25.3		{ ... }	8.7					16.3	{ ... }	...	...	...
1,758	2,452	471	606	81	167	66.8	18.5			11.4					27.6				
2,368	3,463	555	5,303	698	766	77.8	15.3			11.1					14.4				
3,552	6,235	768	2,316	502	165	71.5	23.3			6.1					7.1				
2,200	3,513	741	3,99	76	91	75.6	27.3	13.9		24.7									
1,781	2,818	437	1,401	85	133	62.1	6.7	8.8		9.6									
1,953	2,909	462	176	58	26	88.4	13.6	12.3		14.8									
1,300	2,112	273	944	148	39	69.0	17.5	8.2		10.5									
1,508	2,561	390	1,106	207	125	66.3	21.1	9.2		11.3									
2,074	3,279	365	843	111	93	77.4	14.7	7.2		11.0									
1,653	2,713	498	1,232	123	147	55.0	11.3	9.2		11.9									
1,412	2,370	786	1,536	212	379	60.1	18.3	12.4		24.7									
614	1,370	270	1,470	250	284	76.4	21.1	13.1		19.3									
3,305	5,244	1,399	1,992	320	482	64.1	21.2	14.7		24.2									
2,607	4,724	757	886	260	115	67.8	26.0	9.3		13.0									
30,193	49,817	8,647	21,378	3,324	3,266	63.9	18.4	23.5		10.8	15.3	60,282	28.4	1,407	0.7				
3	3	..	3,948	2,246	55	..	..	...		...	...	...	...	...	...				
23,836	212,335	34,521	65,079	13,934	10,232	74.1	25.5	19.2		10.7	15.7	273,383	23.3	7,142	0.7				

A—VACCINE

Statement No. I showing the particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1921.	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	11	12
NORTHERN RANGE—cont.											
1	Municipalities.	Anakāpalle ...	20,376	2,264	1	520	380	870	870	732	421
2		Berhampur ...	32,845	5,474	1	599	535	1,134	1,134	1,020	620
3		Bezavada ...	44,263	7,360	1	802	605	1,407	1,407	1,200	929
4		Bimlipatam ...	7,510	15,020	1	283	268	551	551	433	256
5		Chicacole ...	16,346	5,449	1	335	323	658	658	398	311
6		Chirala ...	15,326	7,663	1	12	1	13	13	13	4
7		Cocanada ...	53,125	8,854	2	1,616	1,381	2,997	1,488	2,460	1,215
8		Ellore ...	45,735	14,292	2	853	576	1,429	714	1,207	697
9		Guntūr ...	48,188	10,253	3	1,052	947	1,999	999	1,186	829
10		Masulipatam ...	43,940	2,197	2	1,789	1,599	3,388	1,129	1,766	903
11		Narasaraopet ...	11,308	5,654	1	190	116	306	262	262	169
12		Nellore ...	35,877	8,969	2	1,780	1,085	2,865	1,433	1,718	301
13		Ongole ...	14,302	3,575	1	518	389	907	807	334	153
14		Palacole ...	14,539	7,269	1	229	167	396	396	398	25
15		Parlakimedi ...	18,718	14,398	1	378	206	584	584	436	283
16		Peddapuram ...	14,500	2,417	1	357	219	576	576	388	254
17		Rajahmundry ...	53,586	15,310	2	3,200	1,188	4,388	2,194	2,159	974
18		Tenali ...	23,207	6,826	1	814	306	620	620	662	422
19		Vizagapatam ...	45,018	8,657	2	837	1,006	1,843	921	1,482	799
20		Vizianagram ...	39,323	7,866	2	1,575	1,014	2,589	1,295	2,347	1,167
		Total of Municipalities in the Northern Range.	598,037	...	29	17,239	12,281	29,520	1,018	20,601	10,832
		Grand Total of Northern Range.	10,862,287	...	163	207,733	180,560	388,293	2,358	341,848	87,910
CENTRAL RANGE.											
1	Anantapur.	Anantapur ...	...	...	3	3,263	2,796	6,059	2,019	5,925	2,207
2		Ponukonda ...	...	...	4	5,616	4,360	9,976	2,494	8,444	3,664
3		Gooty ...	...	...	4	4,586	3,261	7,847	1,962	7,271	1,845
4		Dharmavaram ...	...	...	4	5,598	4,032	9,630	2,407	8,830	3,340
		Total of district ...	920,716	137	15	19,063	14,449	33,512	2,234	30,470	11,056
5	Bellary.	Bellary circle ...	...	...	3	3,688	3,066	6,754	2,251	7,713	2,101
6		Adoni do. ...	...	...	4	3,485	3,580	7,065	1,892	7,805	3,295
7		Hospet ...	...	...	3	3,863	3,253	7,116	2,371	8,293	3,421
8		Rayadurg ...	...	...	3	2,698	2,569	5,267	1,756	5,869	2,398
		Total of district ...	*785,624	138	13	14,234	12,468	26,702	2,061	29,680	11,215
9	Chingleput.	Chingleput ...	...	...	4	6,183	5,426	11,609	2,902	10,990	6,123
10		Saidapet ...	...	...	4	6,449	5,664	12,113	11,135	6,902	6,902
11		Ponnéri ...	...	...	6	8,573	7,780	16,353	2,725	14,972	6,315
12		Madurantakam ...	...	...	4	6,759	6,461	13,220	3,305	11,48	6,025
		Total of district ...	1,392,515	453	18	27,964	25,331	53,295	2,960	48,648	25,365
13	Chittoor.	Chittoor ...	...	...	4	5,780	5,148	10,928	2,732	11,743	4,776
14		Karvetnagar ...	...	...	6	9,880	9,119	18,999	3,166	19,878	6,358
15		Madanapalle ...	...	...	6	8,439	7,311	15,750	2,625	14,418	5,809
		Total of district ...	1,233,782	217	16	24,099	21,578	45,677	2,854	45,039	16,443
16	Cuddapah.	Cuddapah ...	...	...	3	3,164	2,779	5,943	1,981	6,840	2,158
17		Rajampet ...	...	...	4	2,766	2,479	5,245	1,311	6,197	1,044
18		Proddutur ...	...	...	4	4,415	3,063	8,078	2,020	8,784	1,985
19		Jammalamadugu ...	...	...	3	2,677	2,435	5,412	1,804	5,601	1,275
		Total ...	852,506	145	14	13,322	11,356	24,678	1,762	27,422	6,462
20	Kurnool.	Kurnool ...	...	...	...	...	...	...	...	...	...
21		Markapur ...	...	...	...	...	...	...	...	...	...
22		Nandyal ...	...	...	...	...	...	...	...	...	...
23		Dhono ...	...	...	...	...	...	...	...	...	...
24		Koilkuntla ...	...	...	...	...	...	...	...	...	...
		Total of district ...	*868,858	115	18	17,380	13,533	30,922	1,718	32,785	8,993

* Excludes Sandor (3,526).

DEPARTMENT—cont.

Madras Presidency for the official year 1922-23—cont.

vaccination.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of cases unknown to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average number of deaths from smallpox during the previous 5 years.				
Successful.			Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.			
1 and under 6 years.	Total of all ages.	Unknown.						11							12	13	14
159	674	3	150	68	21	92.5	52.7	36.4	0.4	14.0	801	39.3	30	1.5			
243	875	1	233	138	8	85.9	61.3	30.8	0.1	3.4	1,278	38.9	34	1.0			
209	1,159	5	222	143	13	97.0	68.4	29.4	0.4	5.9	1,245	28.1	39	0.9			
66	359	2	232	70	...	83.3	30.2	51.7	0.5	...	539	71.8	2	0.3			
58	371	...	260	214	2	93.2	82.9	35.8	...	0.8	796	48.7	14	0.9			
8	12	...	...	...	...	92.0	...	8.0	...	...	22	1.4	...	...			
593	1,982	97	537	319	62	80.0	59.0	42.5	3.0	11.0	3,071	57.3	58	1.1			
339	1,044	9	320	126	37	87.1	44.5	25.6	0.7	12.6	2,208	48.3	59	1.3			
189	1,145	...	822	299	152	96.5	44.6	30.0	...	18.5	2,005	41.4	17	0.4			
527	1,582	2	1,687	1,192	74	90.0	74.0	60.9	0.1	4.4	1,761	40.1	49	1.1			
54	227	5	46	33	7	88.3	84.6	22.0	1.9	15.2	635	56.2	25	2.2			
755	1,124	398	1,174	175	537	85.2	27.5	38.2	23.2	45.7	1,186	33.1	27	0.8			
56	211	31	536	278	35	69.6	50.5	34.2	9.3	5.9	714	49.9	23	1.6			
215	235	39	46	4	9	74.9	11.0	18.5	10.0	19.0	411	28.3	1	0.1			
93	376	...	148	88	...	86.2	59.5	24.8	...	...	707	37.8	...	...			
77	357	1	214	87	2	92.2	41.0	30.6	0.3	0.9	453	29.8	...	...			
733	1,707	2	2,229	1,053	348	79.1	56.0	51.5	0.1	15.6	2,499	46.6	177	3.3			
119	546	1	33	14	4	82.6	48.3	24.1	0.2	32.1	808	34.8	13	0.6			
310	1,175	...	540	72	42	79.1	14.5	27.7	...	7.8	1,388	30.8	45	0.1			
325	1,633	62	719	177	63	71.7	26.8	46.2	2.6	8.8	3,094	78.6	45	1.1			
5,128	16,829	658	10,198	4,550	1,416	84.4	51.8	35.8	8.1	13.9	26,000	43.5	560	0.9			
128,967	229,167	35,179	79,225	20,780	11,703	74.7	30.7	20.2	10.3	14.8	299,333	24.2	7,702	0.6			
2,283	4,610	441	526	71	36	84.1	14.5	}	7.4	6.8	}	...	...	...			
3,030	6,800	760	2,155	584	306	88.5	31.6		9.0	14.2							
2,290	4,814	686	1,255	199	152	65.5	18.04		9.4	12.1							
3,027	6,533	785	1,559	159	232	81.2	12.0		8.9	14.9							
10,630	22,257	2,672	5,495	1,013	726	80.1	21.2	28.3	8.8	13.2	20,421	22.2	608	0.7			
2,733	5,033	767	956	77	86	72.5	8.9	}	9.9	9.0	}	...	...	...			
2,221	5,599	1,110	379	57	107	83.6	20.9		14.2	28.2							
2,219	5,698	723	1,039	180	65	75.3	18.3		8.7	5.3							
2,080	4,552	481	305	22	68	84.5	9.3		8.2	22.3							
9,293	20,882	3,081	2,679	336	316	78.5	14.2	27.01	10.4	11.8	17,420	22.2	860	1.1			
1,810	8,052	1,054	1,607	661	375	81.04	53.6	}	9.6	23.2	}	...	...	...			
1,189	8,850	1,477	1,158	384	251	91.1	42.3		13.2	21.7							
3,798	10,372	1,392	2,988	622	304	78.4	23.2		9.3	10.2							
2,780	8,904	960	2,523	847	283	84.6	37.8		8.4	11.2							
9,575	36,178	4,883	8,276	2,514	1,213	82.7	35.6	27.8	10.03	14.6	34,054	24.5	900	0.6			
4,654	9,638	926	784	158	98	89.1	23.03	}	7.9	12.5	}	...	...	...			
8,041	14,727	2,328	968	143	251	89.0	19.9		12.3	25.9							
5,129	11,261	1,613	1,435	238	142	87.9	18.4		11.2	9.9							
17,824	35,626	4,867	3,187	539	491	88.7	20.0		10.8	15.4							
2,845	5,173	797	403	92	115	85.6	31.9	}	11.6	28.5	}	...	...	...			
2,612	3,820	801	353	35	132	70.8	15.8		12.9	37.4							
2,724	5,618	722	655	106	112	62.2	19.5		8.2	17.1							
2,030	3,634	617	822	184	147	73.9	27.3		11.0	17.9							
10,211	17,695	2,937	2,233	417	506	72.3	24.1	21.2	10.7	22.7	18,195	21.3	614	0.7			
9,774	19,659	3,832	4,350	746	1,065	67.9	22.7	23.5	11.7	24.5	22,743	26.2	401	0.5			

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 1921.	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
CENTRAL RANGE— cont.											
25	North Arcot.	Vellore circle ...	...	...	3	5,565	5,223	10,788	3,596	10,836	5,403
26		Rānīpēt do. ...			4	7,823	6,865	14,688	3,672	13,222	6,288
27		Pōlār do. ...			6	8,666	8,033	17,299	2,883	18,802	6,225
28		Jālarpēt do. ...			4	6,712	6,221	12,933	3,233	12,581	4,420
29		Cheyyar do. ...			3	4,727	4,477	9,204	3,068	9,464	4,160
Total of district ...			1,914,291	389	20	33,493	31,419	64,912	3,245	64,905	26,516
30	Salom.	Salem circle ...	...	...	5	6,530	6,248	12,778	2,556	12,483	5,089
31		Sankari do. ...			5	6,944	6,448	13,392	2,678	15,179	2,532
32		Dharmapuri do. ...			5	4,994	4,705	9,699	1,940	9,686	2,741
33		Hosūr do. ...			4	4,216	3,917	8,133	2,033	8,050	3,239
34		Nāmakkal do. ...			4	6,814	6,182	12,996	3,224	12,894	1,957
Total of district ...			2,059,790	326	23	29,498	27,500	56,998	2,478	58,292	15,558
35	South Arcot.	Cuddalore ...	...	...	4	8,782	8,838	17,620	4,405	16,761	7,007
36		Chidambaram ...			4	7,650	7,430	15,080	3,770	15,691	5,502
37		Tirukkōyilūr ...			5	7,132	6,643	13,775	2,755	14,459	1,995
38		Tindivanam ...			4	7,364	6,193	13,557	3,389	12,743	3,924
Total of district ...			2,229,634	530	17	30,928	29,104	60,032	3,581	59,654	18,428
Total of circles in the Central Range.			12,257,716	...	154	209,990	186,738	396,728	2,576	396,893	140,536
Total of Medical Subordinates.			...	...	...	5,239	130	5,369	...	709	12
1	Municipalities.	Adōni ...	30,232	8,637	1	650	598	1,258	1,258	1,163	941
2		Anantapur ...	11,452	1,272	1	232	155	387	387	388	116
3		Bellary ...	39,842	7,245	3	1,316	1,085	2,401	800	2,000	1,035
4		Chidambaram ...	22,501	11,251	1	362	186	548	548	308	159
5		Chingleput ...	11,763	7,842	1	626	249	875	875	472	352
6		Chittoor ...	17,441	2,392	1	523	316	839	839	634	408
7		Conjeeveram ...	61,376	15,344	3	1,875	1,328	3,203	1,067	3,015	1,372
8		Cuddalore ...	50,527	3,799	1	1,058	879	1,937	1,937	1,605	1,216
9		Cuddapah ...	19,517	4,337	1	353	161	514	514	323	206
10		Gudiyāttam ...	22,803	19,002	1	331	340	671	671	687	480
11		Hindupur ...	12,456	6,232	1	277	223	500	500	528	171
12		Hospet ...	18,337	6,486	1	418	385	803	803	785	511
13		Kurnool ...	27,908	2,683	1	3,187	1,281	4,478	4,478	1,174	709
14		Madras ...	526,911	13,099	48	28,269	16,251	44,520	927	17,738	13,879
15		Nandyal ...	18,124	3,624	1	337	287	624	624	434	262
16		Proddatur ...	15,906	5,891	1	362	253	615	615	573	312
17		Salem ...	52,244	1,478	2	1,083	932	2,015	1,007	1,921	1,533
18		Saidapet ...	27,404	3,045	2	795	772	1,567	783	1,078	568
19		Tirupattūr ...	16,275	4,540	1	257	230	487	487	359	316
20		Tirupati ...	17,434	11,622	1	406	253	659	659	515	306
21		Tiruvannāmalai ...	21,912	1,992	1	476	433	909	909	923	612
22		Vāṇiyambādi ...	20,090	5,740	1	459	414	873	873	841	671
23		Vellore ...	50,210	12,553	3	1,246	908	2,154	718	1,862	1,555
24		Villupuram ...	17,423	4,311	1	559	336	895	895	513	335
25		Walajapet ...	10,013	10,013	1	292	169	461	461	356	293
26		Tadpatri ...	11,293	1,412	1	219	178	397	397	390	65
Total of Municipalities in Central Range.			1,151,594	...	81	35,938	28,602	74,590	920	40,755	28,383
1	Military Cantonment.	Bangalore ...	118,940	8,792	2	444	291	735	367	370	236
2		Secunderabad ...	95,124	5,006	6	4,827	6,554	11,381	1,897	5,954	3,003
		Total of Cantonments ...	214,064	6,899	8	5,271	6,845	12,116	1,514	6,324	3,299
Grand Total of Central Range.			13,402,610	...	243	268,508	222,315	488,823	1,989	444,661	172,230

* Including 15 registered medical vaccinators † Excluding the populations of Bangalore and Secunderabad Cantonments.

DEPARTMENT—cont.

Madras Presidency for the official year 1922-23—cont.

vaccination.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of cases unknown to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average number of deaths from smallpox during the previous 5 years.	
Successful.		Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
1 and under 6 years.	Total of all ages.													
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
3,465	8,948	1,069	673	186	87	91.6	31.7	}	9.9	12.9	}	...	...	...
3,387	10,075	1,754	2,727	673	642	87.8	32.3		13.3	23.5				
8,917	15,624	1,611	414	90	84	90.9	27.3		8.6	20.3				
5,425	9,990	1,318	370	116	85	88.7	40.7		10.5	23.0				
2,902	7,103	1,001	228	30	64	83.9	18.3		10.6	28.1				
24,096	51,740	6,753	4,412	1,095	962	89.0	31.7	27.6	10.4	21.8	45,788	23.9	2,045	1.1
3,895	9,530	943	1,512	882	105	82.6	82.7	}	7.5	6.9	}	...	...	...
5,899	8,750	2,409	485	86	70	68.5	20.7		15.9	14.4				
3,622	6,595	895	350	65	65	75.03	23.9		9.4	11.7				
2,863	6,160	449	356	111	11	80.9	32.2		5.6	3.1				
5,460	7,709	1,496	598	114	65	87.6	21.4		11.6	10.9				
21,739	38,734	6,192	3,301	1,258	306	74.3	42.1	19.4	10.6	8.8	34,963	17.0	1,457	0.7
5,624	12,694	2,282	930	313	134	87.7	39.3	}	13.6	14.4	}	...	...	...
6,886	12,470	1,745	267	108	44	89.4	48.4		11.1	16.5				
6,980	9,220	1,359	484	51	44	70.4	11.6		9.4	9.1				
5,107	9,217	1,732	1,252	238	271	83.7	29.4		13.6	21.6				
24,597	43,601	7,118	2,033	760	493	83.0	31.1		19.9	11.9				
137,739	286,372	42,335	36,866	8,678	6,078	80.3	28.2	24.1	10.7	16.5	259,429	21.2	9,633	0.8
14	501	6	4,721	3,000	141	...	...	...	...	...	...	...	...	...
69	1,014	71	95	94	...	92.8	98.9	36.6	6.1	...	1,018	33.7	25	0.8
160	281	2	59	7	4	71.0	12.7	25.1	0.5	6.8	316	30.2	21	1.8
510	1,572	133	401	125	33	84.2	34.0	42.6	6.6	8.2	2,629	66.0	24	0.6
151	337	10	189	126	30	94.1	74.6	20.6	2.7	15.1	762	33.9	11	0.5
69	435	5	413	144	89	93.1	44.4	49.2	1.1	21.5	576	49.0	2	0.2
125	542	7	247	17	54	86.4	8.8	31.2	1.1	21.9	491	27.4	19	1.1
853	2,356	284	736	330	198	86.3	61.3	43.8	9.4	26.9	1,310	21.3	37	0.6
284	1,532	36	332	209	33	97.6	69.9	34.5	2.2	9.9	2,140	42.3	11	0.2
71	282	4	193	19	97	88.4	19.8	15.4	1.2	50.3	538	27.6	19	1.0
166	647	14	3	1	1	96.1	50.0	28.4	20.4	33.3	620	27.2	39	1.7
206	382	3	41	24	...	72.8	58.5	38.6	0.6	...	139	11.2	1	0.1
88	599	75	40	2	16	94.4	8.3	32.8	9.6	40.0	631	34.4	14	0.8
304	1,027	31	3,325	448	369	89.5	15.1	52.8	2.6	11.1	918	32.9	21	0.7
2,646	16,599	502	26,894	8,440	6,500	96.3	41.4	47.5	2.8	24.2	20,992	39.8	339	0.6
73	341	1	197	108	3	77.7	55.6	24.8	0.2	1.5	649	35.8	14	0.8
132	448	10	54	11	2	79.6	21.1	28.8	1.7	3.7	434	27.3	2	0.1
263	1,796	...	117	35	...	93.5	29.9	35.0	...	...	2,419	46.3	94	1.8
322	956	45	535	251	30	92.5	49.7	41.0	4.2	5.6	817	29.8	32	1.1
124	443	6	34	19	10	87.8	78.2	28.4	1.3	29.4	570	35.0	23	1.4
154	476	...	144	52	34	92.4	47.3	30.2	...	23.6	403	23.1	5	0.3
227	856	1	27	14	2	92.8	50.0	39.7	0.1	7.1	827	37.7	67	3.1
108	779	1	52	29	...	92.7	55.8	40.2	0.1	...	843	42.0	6	0.3
218	1,773	4	318	107	25	95.4	36.5	35.4	0.2	7.9	2,029	40.2	37	0.7
100	443	12	388	96	97	86.4	33.2	30.9	2.3	25.1	417	23.9	3	0.2
35	335	...	119	33	...	94.0	27.7	36.7	...	...	333	33.3	1	0.1
198	263	14	7	4	1	69.9	66.7	22.6	3.6	14.3	150	13.3	4	0.3
7,656	36,514	1,271	34,968	10,745	7,628	92.5	30.3	41.0	3.1	21.8	42,038	36.5	841	0.7
103	339	...	365	221	1	91.6	60.7	4.7	...	0.3	1,052	8.8	80	0.7
1,502	4,906	88	6,312	1,735	164	83.6	12.4	66.0	1.5	2.6	5,436	57.1	5	0.5
1,605	5,245	88	6,677	1,586	165	84.1	24.5	31.0	1.4	2.5	6,447	30.1	85	0.4
147,014	328,632	43,700	83,232	24,019	14,012	81.9	34.7	25.9	9.8	16.8	308,568	22.7	10,474	0.8

A—VACCINE

Statement No. 1 showing the particulars of Vaccination in the

Number.	Districts.	Circles	Population of districts or circles according to the census of 1921.	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
SOUTHERN RANGE.											
1	Coimbatore.	Satyamangalam circle...	2,082,063	307	5	6,810	6,647	13,457	2,691	13,983	4,036
2		Pollachi do. ...			5	7,009	6,460	13,469	2,634	11,640	3,047
3		Erode do. ...			6	12,423	10,843	23,266	3,878	20,434	4,932
4		Coimbatore do. ...			5	9,298	7,961	17,259	3,452	15,590	2,466
5		Tiruppur do. ...			6	10,028	9,033	19,061	3,177	18,153	2,872
		Total of district ...	2,082,063	307	27	45,568	40,944	86,512	3,204	79,800	17,353
6	Madura.	Madura circle ...	1,778,663	410	3	6,189	5,453	11,647	3,882	10,784	3,843
7		Dindigul do. ...			4	5,979	5,601	11,583	2,896	12,160	5,699
8		Palni do. ...			4	5,969	5,568	11,537	2,884	12,165	5,508
9		Periyakulam do. ...			4	7,290	6,356	13,646	3,412	13,068	6,346
10		Tirumangalam do. ...			4	9,373	7,793	17,166	4,292	14,073	6,216
		Total of district ...	1,778,663	410	19	34,800	30,779	65,579	3,452	62,199	27,612
11	Malabar.	Malappuram circle ...	2,885,660	519	6	15,861	11,995	27,856	4,643	20,069	5,880
12		Calicut do. ...			8	15,801	13,751	29,552	3,632	19,537	6,877
13		Tellicherry do. ...			8	15,850	11,760	27,610	3,451	22,695	7,658
14		Palghat do. ...			5	12,072	11,814	23,886	4,777	17,190	6,741
15		Ponnani do. ...			5	14,638	13,145	27,783	5,557	20,541	10,020
		Total of district ...	2,885,660	519	32	73,722	62,465	136,187	4,256	100,032	37,776
16	The Nilgiris.	The Nilgiris circle ...	94,837	73	3	4,164	2,698	6,862	2,287	3,837	1,355
		Total of district ...	94,837	73	3	4,164	2,698	6,862	2,287	3,837	1,355
17	Ramanathapuram.	Ramanathapuram circle ...	1,654,204	328	7	11,196	9,101	20,297	2,900	17,880	4,538
18		Manamadurai do. ...			5	5,912	5,378	11,290	2,258	11,894	3,927
19		Tirupattur do. ...			4	5,718	5,047	10,765	2,691	9,638	1,651
20		Sivakasi do. ...			5	7,993	6,058	14,051	2,810	12,258	4,812
			Total of district ...	1,654,204	328	21	30,819	25,584	56,403	2,686	51,670
21	South Kanara.	Kundapur circle ...	1,193,491	296	4	6,225	6,184	12,409	3,102	12,261	3,950
22		Kasaragod do. ...			5	7,481	6,726	14,207	2,841	11,911	3,651
23		Mangalore do. ...			4	6,537	5,795	12,332	3,083	12,150	5,152
24		Kärkäl do. ...			4	6,636	5,667	12,303	3,076	11,679	4,698
			Total of district ...	1,193,491	296	17	26,579	24,372	51,251	3,015	48,001
25	Tanjore.	Tanjore North circle ...	2,077,259	564	2	1,905	1,665	3,570	1,785	3,784	551
26		Do. South do. ...			2	2,438	2,135	4,573	2,286	4,341	714
27		Māyavaram do. ...			2	2,935	2,514	5,449	2,724	5,553	1,167
28		Negapatam do. ...			1	1,102	1,045	2,147	2,147	2,048	434
29		Pattukkottai do. ...			3	3,375	3,123	6,498	2,166	6,271	1,195
30		Papanasani do. ...			2	3,703	3,242	6,945	3,472	6,688	1,633
31		Nannilam do. ...			2	2,515	2,348	4,863	2,431	5,248	600
32		Tirutaraipundi do. ...			2	2,706	2,372	5,078	2,539	5,107	1,116
33		Arantangi do. ...			2	1,895	1,615	3,510	1,605	3,359	515
34		Shiyali do. ...			2	2,687	2,283	4,970	2,485	4,611	938
35		Manargudi do. ...			2	3,554	3,362	6,916	3,458	7,363	1,467
36		Kumbakonam do. ...			2	2,328	2,198	4,526	2,263	6,193	1,126
		Total of district ...	2,077,259	564	24	30,943	27,802	58,745	2,148	60,546	11,456
37	Tinnevely.	Tenkasi circle ...	1,666,418	404	5	8,863	6,820	15,683	3,137	17,152	4,227
38		Nanguneri do. ...			5	8,367	7,311	15,678	3,136	17,691	5,589
39		Koilpatti do. ...			5	6,938	5,700	12,638	2,528	13,134	4,223
40		Srivaikuntam do. ...			6	8,542	7,864	16,406	2,734	17,169	5,806
		Total of district ...	1,666,418	404	21	32,710	27,695	60,405	2,876	65,146	19,845
41	Tiruchinopoly.	Tiruchinopoly circle ...	1,741,014	404	2	4,437	3,635	8,072	4,036	7,396	1,752
42		Musiri do. ...			2	3,985	3,480	7,465	3,733	6,700	1,660
43		Ariyalur do. ...			2	3,087	2,878	5,965	2,983	5,476	1,113
44		Kalitalai do. ...			2	3,478	3,115	6,593	3,297	6,396	1,862
45		Jayankondam do. ...			2	4,139	3,930	8,069	4,035	8,794	1,748
46		Lalgudi do. ...			2	2,985	2,871	5,856	2,928	6,638	1,625

* Excludes Laccadives (9,472).

† Excludes Amindivi Islands (4,165).

DEPARTMENT—cont.

Madras Presidency for the official year 1922-23—cont.

vaccination.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of cases unknown to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average number of deaths from smallpox during previous 5 years.	
Successful.		Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
1 and under 6 years.	Total of all ages.													
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
4,013	8,298	2,030	452	55	86	69.4	15.02	{	14.5	18.02	{	...	...	...
4,107	7,537	1,724	1,880	204	59	76.0	11.2		14.8	3.1				
8,180	13,721	2,976	4,355	477	437	78.6	12.2		14.5	16.03				
6,164	9,109	2,577	1,730	122	341	69.9	8.8		16.5	19.7				
7,572	10,991	2,510	908	104	51	70.3	12.1		13.8	5.6				
30,036	49,656	11,817	9,325	962	974	73.04	11.5	24.3	14.9	10.4	42,029	20.2	1,295	0.6
2,433	6,493	1,769	1,808	103	104	72.02	6.04	{	16.4	5.7	{	...	...	...
2,328	8,209	1,455	768	302	126	76.7	47.04		11.9	16.4				
2,530	8,162	1,372	1,118	180	161	76.05	18.8		11.3	14.4				
2,723	9,399	2,386	1,237	278	424	87.9	34.2		18.3	34.3				
4,045	10,624	1,857	4,835	1,361	787	86.9	33.6		13.2	16.3				
14,109	42,887	8,839	9,766	2,224	1,602	80.3	27.2	25.4	14.2	16.4	38,503	21.6	1,023	0.6
7,569	14,694	2,717	9,464	3,650	2,901	84.1	55.6	{	13.5	30.6	{	...	...	...
5,344	14,608	2,611	10,917	4,484	990	84.3	45.1		13.3	9.1				
6,315	16,542	2,426	5,273	1,473	213	81.6	29.1		10.7	4.03				
4,431	12,291	3,146	7,229	1,904	2,026	97.5	36.5		18.3	28.0				
5,466	17,597	1,383	8,875	3,423	450	91.9	40.6		6.7	5.1				
29,125	75,642	12,283	41,758	14,936	6,580	86.03	42.4	31.4	12.1	15.7	75,108	26.03	1,755	0.6
1,167	3,236	388	3,025	1,379	410	93.8	52.7	...	10.1	13.5	...	...	...	...
1,167	3,236	388	3,025	1,379	410	93.8	52.7	48.6	10.1	13.5	3,846	40.6	68	0.7
7,760	13,221	2,232	2,348	441	251	84.5	16.9	{	12.5	8.8	{	...	...	...
5,098	9,770	677	519	209	96	87.1	49.4		5.6	18.4				
2,911	4,859	2,339	1,127	174	312	66.5	21.3		24.2	27.6				
3,738	9,229	1,431	2,286	471	395	85.6	24.9		12.1	17.3				
19,507	37,079	6,729	6,780	1,295	1,054	82.5	22.6		23.2	13.02				
4,491	8,931	679	487	218	34	77.1	48.1	{	5.5	6.9	{	...	...	...
3,812	8,266	1,587	3,033	1,175	541	80.1	46.2		13.3	17.5				
4,246	9,803	982	1,611	553	141	87.8	37.6		8.1	8.7				
4,444	8,860	1,787	1,015	173	329	89.5	25.2		15.3	32.4				
16,993	35,860	5,035	6,196	2,119	1,045	83.4	41.1		31.8	10.5				
1,807	2,565	704	215	42	80	83.8	31.1	{	18.7	37.2	{	...	...	...
1,888	2,918	793	442	124	214	82.2	51.4		19.3	48.4				
2,332	3,707	768	318	121	53	77.4	46.5		13.8	18.2				
716	1,191	241	305	159	38	65.9	59.6		11.8	12.5				
3,053	4,690	823	442	227	46	83.04	57.3		9.9	10.4				
2,433	4,694	916	642	234	65	81.3	41.4	{	13.7	10.1	{	...	...	...
2,414	3,295	697	111	30	22	72.4	33.7		13.3	19.8				
2,195	3,576	606	257	108	35	79.4	48.6		11.9	13.6				
1,675	2,374	268	105	44	16	76.8	47.5		7.9	15.2				
2,431	3,537	482	1,051	589	193	85.6	68.2		10.4	18.6				
2,551	4,506	1,429	1,61	51	47	75.9	41.7	{	19.4	29.9	{	...	...	...
2,611	3,940	1,203	535	117	141	79.0	29.7		19.4	26.4				
26,476	40,993	8,733	4,594	1,851	969	79.1	50.9	20.6	14.4	20.9	37,437	17.9	2,186	1.5
4,434	9,012	1,869	2,588	193	423	58.9	8.9	{	10.9	16.3	{	...	...	...
5,493	11,404	2,918	2,302	691	493	77.2	33.2		16.5	21.4				
4,082	8,744	2,081	2,769	933	779	79.6	46.9		15.8	28.1				
6,429	12,431	2,217	1,081	196	257	83.2	24.4		12.9	24.2				
20,398	41,641	9,085	8,720	1,923	1,952	74.3	28.4		26.1	13.9				
2,652	4,686	1,288	729	135	164	76.7	23.9	{	17.4	22.5	{	...	...	...
2,341	4,466	956	1,147	556	210	77.7	59.1		14.3	18.3				
2,400	3,778	699	667	156	129	79.1	28.9		12.8	16.3				
2,082	3,993	1,143	533	190	185	74.9	54.6		17.9	34.7				
4,552	6,449	1,456	274	84	115	87.9	52.8		38.04	16.6				
3,048	5,044	749	228	101	21	85.6	48.8	{	11.3	9.2	{	...	...	...

Statement No. I showing the particulars of Vaccination in the

Number.	Districts.	Circles.	Population of districts or circles according to the census of 1921.	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
SOUTHERN RANGE—cont.											
47	Trichinopoly—cont.	Perambalur circle ...	...	...	2	3,337	2,984	6,321	3,461	0,560	1,293
48		Karur do. ...				4,069	3,360	7,429	3,715	7,085	1,350
49		Turaiyar do. ...				3,399	2,905	6,304	6,304	6,192	1,718
		Total of district ...	1,741,014	412	17	33,516	29,158	62,674	3,686	61,237	13,921
		Total of circles in the Southern range.	15,173,639	...	181	313,121	271,497	584,618	3,230	532,459	161,097
		Total of Medical Subordinates.	...	...	...	12,516	234	12,750	...	* 974	67
1	Municipalities.	Bodināyakkannūr ...	20,341	5,085	1	337	298	635	635	635	518
2		Calicut ...	82,334	8,033	3	8,071	3,779	11,850	3,950	3,443	2,016
3		Cannanore ...	27,705	5,689	1	1,179	749	1,928	1,928	1,371	820
4		Cochin ...	20,637	20,637	2	4,053	2,499	6,552	3,276	1,313	543
5		Coimbatore ...	65,788	9,048	5	1,702	1,053	2,755	551	2,387	1,279
6		Coonoor ...	12,215	2,041	1	650	573	1,223	456	150	150
7		Dhārūparam ...	16,124	8,062	1	403	359	762	960	711	399
8		Dindigul ...	30,922	6,902	1	708	485	1,193	1,193	1,001	820
9		Erode ...	22,911	6,186	1	361	344	705	705	666	444
10		Karur ...	18,249	12,166	1	272	176	448	448	329	226
11		Kodaikānāl ...	† 4,283	...	...	...	...	...	...	...	...
12		Kumbakonam ...	60,700	13,733	3	1,291	770	2,061	687	1,620	1,036
13		Madurai ...	138,894	17,362	11	12,048	7,710	19,758	1,796	9,587	3,484
14		Mangalore ...	53,877	10,292	2	2,015	1,461	3,476	1,738	2,095	1,010
15		Mannārgudi ...	21,636	4,808	1	425	276	701	701	684	466
16		Māyavaram ...	28,617	6,765	1	1,038	428	1,466	1,466	880	597
17		Negapatam ...	54,016	10,760	3	3,862	1,760	5,622	1,874	2,393	1,086
18		Ootacamund ...	19,467	1,391	2	935	794	1,729	864	724	570
19		Palamcottah ...	46,643	1,167	2	1,241	833	2,074	1,037	1,554	830
20		Palghat ...	45,487	4,548	2	1,638	1,106	2,744	1,372	1,817	1,353
21		Palni ...	17,501	10,000	1	204	145	349	349	287	109
22		Periyakulam ...	16,478	21,971	1	557	304	901	901	756	668
23		Pollachi ...	11,875	2,909	1	200	156	326	326	304	165
24		Sivakasi ...	14,617	5,668	1	329	258	587	587	546	432
25		Srirangam ...	23,153	4,567	1	438	351	789	789	785	411
26		Srivilliputtūr ...	31,195	15,597	1	425	305	730	730	675	510
27		Tanjore ...	59,913	7,811	3	1,582	1,022	2,604	868	2,148	1,252
28		Tellicherry ...	27,576	11,030	2	1,099	1,121	2,220	1,110	766	581
29		Tinnevely ...	53,783	15,193	2	1,763	1,174	2,937	1,468	2,282	1,421
30		Tiruppar ...	10,851	2,894	1	292	288	580	580	568	180
31		Tiruvālar ...	24,124	5,079	1	360	182	542	542	360	257
32		Trichinopoly ...	120,422	13,369	4	3,678	3,113	7,091	1,773	4,600	2,351
33		Tuticorin ...	44,522	24,734	1	1,918	1,672	3,590	3,590	2,178	987
34		Udamalpet ...	10,236	5,000	1	144	135	279	279	271	166
35		Virudupatti ...	21,821	9,698	1	563	211	774	774	437	304
		Total of Municipalities.	1,278,913	...	66	56,061	35,920	91,981	1,394	50,629	27,441
		Grand Total of Southern Range.	16,452,552	...	247	381,698	307,651	689,349	2,791	584,062	188,605
		Grand Total	12,227,554	...	700	889,418	741,389	1,630,807	8,673	1,435,881	459,199

* The results of 62 cases Vaccinated by Sub-Assistant Surgeon, Aminidivi, have not been furnished by him as he did not verify them at the time of sending the return.

† Vide under Dispensary Vaccination Statement No. III.

NOTE.—(1) Difference between number of operations and number of persons vaccinated is 139,576 which represents secondary operations.

(2) This statement does not include the statistics of dispensary vaccination which are exhibited separately in Statement No. III.

N.B.—In calculating the percentage of success shown in the statement and Statement No. III unknown cases have not been taken into account.

Madras Presidency for the official year 1922-23—cont.

vaccination.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.	Percentage of cases unknown to total cases.		Average annual number of persons successfully vaccinated during previous 5 years.		Average number of deaths from smallpox during previous 5 years.	
Successful.			Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.		Primary vacci- nation.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.
1 and under 6 years.	Total of all ages.	Unknown.						14						
3,145	4,725	445	779	267	105	77.3	39.6	} ... {	6.8	13.5	} ... {	...	...	...
3,862	5,403	567	540	241	58	82.9	50.0		8.0	10.7		...	...	...
2,124	4,069	487	422	154	46	71.3	40.9		7.9	10.9		...	...	...
26,206	42,556	7,790	5,319	1,882	1,033	79.6	43.9	25.5	12.7	19.4	30,341	17.4	1,182	0.6
183,947	369,550	70,699	95,483	28,571	15,610	80.03	35.8	26.2	13.2	16.3	340,596	20.7	10,613	6.6
84	728	8	11,818	7,335	378	75.4	64.1	...	0.8	3.2	...	...	...	...
89	813	...	15	15	...	96.5	100.0	30.8	...	...	600	33.9	8	0.4
759	3,125	...	8,586	7,485	15	90.7	87.3	12.9	...	0.2	7,174	87.2	268	3.2
261	1,180	7	954	523	18	86.5	55.9	61.6	0.5	1.9	1,744	62.9	33	1.2
428	1,160	9	5,239	1,447	171	88.9	28.5	126.8	0.7	3.2	710	34.4	70	3.8
400	1,739	106	736	44	83	78.2	6.7	27.1	4.4	11.3	2,100	31.9	170	2.6
232	421	1	767	304	5	92.5	39.9	59.4	0.2	0.7	520	42.5	23	1.8
218	631	...	62	16	17	88.7	35.5	...	...	24.2	336	23.9	22	1.4
93	922	23	200	94	14	94.3	50.5	32.9	2.3	7.0	1,119	35.9	47	1.5
154	603	11	66	2	30	92.1	5.5	26.4	1.6	45.4	450	19.6	20	0.9
43	272	1	136	104	5	82.9	78.4	20.1	0.3	3.6	543	29.7	25	1.4
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
369	1,443	18	461	282	25	90.1	64.7	28.4	1.1	5.4	1,703	28.1	61	1.0
2,822	8,128	452	12,103	7,143	621	88.9	62.2	109.9	4.7	5.1	15,950	114.9	283	2.04
611	1,733	52	1,423	633	162	84.8	50.2	43.9	2.5	11.4	3,829	71.1	188	2.5
161	659	2	31	17	1	98.6	56.6	31.2	0.3	3.2	703	32.5	62	2.9
172	779	6	615	288	66	89.1	52.5	37.3	0.7	10.7	960	33.2	46	1.6
914	2,140	27	3,229	2,294	330	80.4	79.1	82.1	1.1	10.2	3,901	72.4	84	1.5
87	671	...	1,041	328	117	92.7	36.4	51.9	...	11.2	1,150	59.1	18	0.9
350	216	8	758	396	56	78.6	56.4	34.5	0.5	7.4	1,785	38.3	21	0.4
313	1,755	5	960	426	1	98.8	44.7	47.9	0.3	0.7	2,115	46.5	69	1.5
106	225	...	62	13	...	78.4	20.9	13.6	...	...	620	35.4	13	0.8
81	749	...	147	143	...	99.1	97.3	64.1	...	...	834	50.6	34	2.1
32	193	7	69	5	9	66.6	8.3	17.1	2.3	13.04	399	33.6	3	0.3
92	524	2	55	33	...	96.3	60.0	38.1	0.3	...	184	12.6	1	0.07
261	714	5	28	20	...	91.5	71.4	31.7	0.6	...	984	42.5	12	0.5
25	546	46	114	16	84	88.8	53.3	18.01	6.8	73.7	951	30.5	6	0.2
471	1,815	41	498	244	24	90.9	51.5	36.03	1.9	4.8	2,583	43.1	31	0.5
83	698	...	1,482	487	56	91.1	34.1	42.9	...	3.8	947	31.3	24	0.9
405	1,924	112	860	656	59	88.6	79.9	47.9	4.9	6.7	2,122	39.5	46	0.8
218	411	2	66	31	...	72.6	46.9	40.7	0.3	...	311	28.6	9	0.8
39	317	4	188	156	7	89.04	86.2	19.6	1.1	3.7	537	22.3	20	0.8
1,500	4,023	117	2,558	1,685	186	89.7	71.03	47.4	2.5	7.3	5,282	43.7	127	1.1
550	1,578	70	1,835	843	193	74.8	67.5	56.6	3.2	10.7	2,108	47.3	21	0.5
53	221	1	8	...	4	81.9	...	21.6	0.4	50.0	213	20.8	21	2.1
67	372	18	351	216	44	88.8	70.3	26.9	4.1	12.5	695	31.8	38	1.8
12,459	43,605	1,153	45,723	26,499	2,406	88.1	61.2	54.8	2.3	5.3	66,273	51.8	1,882	1.6
196,490	413,883	71,860	153,024	62,405	18,394	80.8	46.3	28.9	12.3	12.02	406,869	24.7	12,495	0.7
497,674	1,014,880	155,812	325,502	110,680	45,065	79.2	34.0	26.6	10.9	13.8	1,033,751	24.5	31,237	0.7

SUMMARY OF STATEMENT NO. I.

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A—VACCINE DEPARTMENT—cont.

Statement No. 11 showing the Cost of the Department in the Madras Presidency for the official year 1922-23.

Expenditure.

[illegible]

A—VACCINE DEPARTMENT—cont.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

Number.	Districts.	Circles.	Expenditure—cont.				Paid from				Number of all successful primary vaccination and re-vaccination.	Average cost of each successful case.
			Travelling allowance.	Contingencies.	Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Total.		
			17	18	19	20	21	22	23	24	25	26
...	...	Agency Division ...	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	...	...
			9,100 3 11	1,558 13 6	35,519 15 8	...	25,220 10 4	10,329 5 4	...	35,549 15 8	46,674	0 12 1
		NORTHERN RANGE—cont.										
1		Asaka circle	1,357 6 7	150 6 2	4,416 3 3	...	1,749 6 4	2,663 12 11	...	4,416 3 3	6,303	0 11 3
2		Berhampur do.	1,404 7 5	174 13 9	4,549 13 0	...	1,353 13 7	3,165 15 5	...	4,549 13 0	6,966	0 10 5
3		Chicacole do.	1,350 2 7	300 15 10	4,714 0 4	...	1,486 3 8	3,227 12 8	...	4,714 0 4	8,009	0 9 5
4		Gumacoor do.	140 6 0	18 0 0	292 0 0	...	171 0 0	121 0 0	...	292 0 0	810	0 5 0
5		Parlakimedi do.	1,508 12 1	258 15 1	5,273 2 1	...	1,655 13 1	3,317 5 0	...	5,273 2 1	7,805	0 10 10
6		Parushottapur do.	1,163 13 0	160 8 10	4,127 15 9	...	1,782 11 5	2,345 4 4	...	4,127 15 9	6,336	0 10 5
		Total of district	6,724 15 8	1,072 11 8	23,373 2 6	...	8,629 0 1	14,844 2 4	...	23,373 2 5	30,259	0 10 4
7		Amulapur circle	759 6 9	173 10 6	3,853 6 9	...	2,059 6 0	1,894 0 9	...	3,953 6 9	7,048	0 9 0
8		Cocanada circle	1,029 10 6	289 8 7	4,932 11 11	...	1,688 8 9	3,244 3 2	...	4,932 11 11	8,687	0 9 1
9		Poddipar do.	901 13 6	329 11 3	3,995 0 11	...	1,739 12 2	2,255 4 9	...	3,995 0 11	10,177	0 6 3
10		Rajahmundry do.	816 10 3	197 15 3	3,411 5 11	...	1,716 6 2	1,694 15 9	...	3,411 5 11	5,956	0 9 1
		Total of district	3,507 9 0	990 13 7	16,292 9 6	...	7,204 1 1	9,088 8 5	...	16,292 9 6	31,808	0 8 2
11		Bapatla circle	1,319 6 0	268 14 0	4,281 6 0	...	1,487 2 6	2,794 3 6	...	4,281 6 0	7,665	0 8 11
12		Guntur do.	1,445 5 2	137 10 0	5,080 10 3	...	1,631 0 9	3,399 9 6	...	5,080 10 3	11,114	0 7 4
13		Narasaraopet circle	1,509 14 0	525 1 3	5,426 9 3	...	2,013 8 3	3,413 1 0	...	5,426 9 3	7,873	0 11 0
14		Vinnakonda do.	838 2 9	291 3 3	3,547 6 0	...	1,603 6 0	1,944 0 0	...	3,547 6 0	5,574	0 10 2
		Total of district	4,842 11 11	1,022 12 6	18,335 15 6	...	6,785 1 6	11,550 14 0	...	18,335 15 6	32,256	0 9 1

15	Nellore.	Atmakur circle	1,070 4 4	138 15 5	3,742 13 5	...	1,019 1 6	2,123 11 11	...	3,742 13 5	4,438	0 13 6
16		Gudur do.	846 13 5	190 6 2	3,457 5 3	...	1,353 2 0	2,104 3 3	...	3,457 5 3	6,553	0 8 5
17		Kanigiri do.	856 0 9	212 4 0	3,845 6 8	...	1,566 12 4	1,888 10 4	...	3,845 6 8	4,483	0 13 9
18		Kavali do.	932 14 4	156 6 9	4,233 4 9	...	2,045 15 6	2,187 5 3	...	4,233 4 9	6,141	0 11 0
19		Nellore do.	892 3 8	214 4 5	3,964 14 8	...	2,462 4 2	1,502 10 6	...	3,964 14 8	6,713	0 9 5
		Total of district	4,598 4 6	912 4 9	19,423 12 9	...	9,337 3 6	9,906 9 3	...	19,423 12 9	28,368	0 10 10
20	Kistna.	Bezwada circle	1,140 0 7	121 11 8	4,824 4 5	...	1,618 10 5	3,205 10 0	...	4,824 4 5	10,084	0 7 8
21		Ellore circle	1,115 4 2	224 7 0	4,375 3 5	...	1,888 6 6	2,486 12 11	...	4,375 3 5	8,436	0 8 4
22		Masulipatam circle	1,164 0 0	93 9 3	4,495 12 3	...	1,610 12 3	2,885 0 0	...	4,495 12 3	10,401	0 6 11
23		Narasaraopet circle	1,045 13 10	98 7 6	3,632 11 11	...	1,997 5 5	1,635 6 6	...	3,632 11 11	7,118	0 6 11
24		Tanuku circle	967 12 10	365 4 6	3,735 10 10	...	1,828 12 6	1,906 14 4	...	3,735 10 10	8,388	0 8 5
		Total of district	5,422 15 5	903 7 5	21,063 10 10	...	8,913 15 1	12,119 11 9	...	21,063 10 10	44,427	0 7 7
25	Vizagapatnam.	Babbili	445 12 3	130 1 0	3,925 1 1	...	1,771 1 3	1,253 15 10	...	3,925 1 1	9,765	0 4 11
26		Chilparupalle circle	1,011 9 7	126 15 6	3,194 6 7	...	1,302 7 11	1,291 14 8	...	3,194 6 7	12,987	0 4 2
27		Narasaraopet do.	692 2 0	98 6 0	3,250 12 6	...	1,787 0 0	1,103 12 6	...	3,250 12 6	11,480	0 4 7
28		Vizagapatnam do.	816 15 0	106 1 8	3,833 8 8	...	2,401 12 2	1,437 12 6	...	3,833 8 8	8,509	0 7 3
29		Vizianagaram do.	658 0 3	92 9 0	3,081 10 10	...	1,634 12 2	1,446 14 8	...	3,081 10 10	11,000	0 4 6
		Total of district	3,624 7 1	554 1 2	16,391 7 8	...	9,497 1 6	6,894 6 2	...	16,391 7 8	33,141	0 4 11
		Total of circles in the Northern Range	28,720 15 7	5,456 3 1	1,14,700 10 8	...	50,296 6 9	64,404 3 11	...	1,14,700 10 8	226,319	0 8 1
1	Municipalities.	Anakapalle	...	30 13 10	417 0 10	...	...	...	417 0 10	417 0 10	742	0 9 0
2		Bezwada	...	...	477 6 6	...	...	...	477 6 6	477 6 6	1,302	0 5 10
3		Bhimilipatam	...	8 5 0	272 5 0	...	...	...	272 5 0	272 5 0	429	0 10 2
4		Ellore	...	2 0 0	660 8 0	...	...	...	660 8 0	660 8 0	1,170	0 9 0
5		Borhanpur	...	8 15 6	368 15 6	...	...	...	368 15 6	368 15 6	1,013	0 5 10
6		Chicacole	...	19 10 2	483 10 2	...	...	...	483 10 2	483 10 2	585	0 13 3
7		Chicacole	...	1 12 5	202 0 5	...	...	...	202 0 5	202 0 5	12	21 13 4
8		Cocanada	...	103 9 8	942 4 2	...	...	...	942 4 2	942 4 2	2,301	0 6 7
9		Guntur	...	50 3 7	877 4 5	...	...	...	877 4 5	877 4 5	1,444	0 9 9
10		Masulipatam	...	171 8 8	907 0 8	...	...	...	907 0 8	907 0 8	2,774	0 5 3
11		Narasaraopet	...	24 1 0	294 1 0	...	...	...	294 1 0	294 1 0	260	1 2 1
12		Nellore	...	19 2 4	750 1 10	...	...	...	750 1 10	750 1 10	1,299	0 9 2
13		Ongole	...	6 5 9	241 3 8	...	...	...	241 3 8	241 3 8	489	0 7 11
14		Palacole	...	10 13 9	504 13 9	...	...	...	504 13 9	504 13 9	269	1 14 0
15		Parlakimedi	...	223 12 0	503 8 0	...	...	...	503 8 0	503 8 0	464	1 1 4
16		Peddapur	...	1 5 0	244 11 9	...	...	...	244 11 9	244 11 9	444	0 8 10
17		Rajahmundry	...	6 14 2	605 10 4	...	...	...	605 10 4	605 10 4	2,760	0 3 6
18		Tenali	...	368 12 8	895 8 7	...	...	...	368 12 8	368 12 8	560	0 10 6
19		Vizagapatnam	...	31 8 7	895 8 7	...	...	...	895 8 7	895 8 7	1,247	0 12 8
20		Vizianagaram	...	15 4 0	443 6 0	...	...	...	443 6 0	443 6 0	1,815	0 3 11
		Total of Municipalities in the Northern Range.	1 0 0	744 14 1	10,520 5 3	...	...	...	10,520 5 3	10,520 5 3	21,379	0 7 11
		Asst. Director of Public Health, Pay Rs. 7,200	2,724 8 0	...	9,924 8 0	...	9,924 8 0	...	...	9,924 8 0	...	...
		Grand Total of Northern Range	31,446 6 7	6,201 1 2	1,35,145 7 11	...	60,230 14 9	64,404 3 11	10,520 5 3	1,35,145 7 11	247,698	0 8 1

A—VACCINE DEPARTMENT—cont.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

Expenditure.															
Number.	Districts.	Ranges.	Deputy Inspectors.				Vaccinators.				Peons, etc.		Total pay of establishment.		
			Inspector of Vaccination and Deputy Sanitary Commissioner.	Pay.	First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.		Number.	
1	10	3	4	5	6	7	8	9	10	11	12	13	14	15	16
CENTRAL RANGE.															
1	Anantapur.	Anantapur circle	..	..	1	..	..	1,110 13 6	1	1	1	1,248 10 5	1	140 6 0	2,499 13 11
2		Penukonda do.	..	..	1	..	..	1,142 8 0	1	3	1	1,453 3 0	1	140 7 3	2,736 2 3
3		Gooty circle	..	..	1	..	..	1,635 0 0	..	3	1	1,094 14 9	1	135 5 10	2,865 4 7
4		Dharmavaram circle	..	..	1	..	..	595 0 0	..	3	1	1,413 5 9	1	144 0 0	2,552 5 9
		Total of district	..	..	4	..	..	4,883 5 6	2	10	4	5,210 1 11	4	560 3 1	10,653 10 6
5	Bellary.	Bellary circle	..	..	1	..	..	1,131 12 0	..	3	1	1,484 8 2	1	140 8 0	2,756 12 2
6		Adoni do.	..	..	1	..	..	1,297 14 0	1	2	1	1,730 4 5	1	144 0 0	3,172 5 5
7		Hospet circle	..	..	1	..	..	789 0 0	..	2	2	1,318 3 6	1	144 0 0	2,261 3 6
8		Rayachoti circle	..	..	1	..	..	936 11 0	..	2	2	952 0 0	1	144 0 0	2,052 11 0
		Total of district	..	..	4	..	..	4,175 5 0	1	9	5	5,485 0 1	4	572 8 0	10,232 12 1
9	Chingleput.	Chingleput circle	..	..	1	..	..	1,357 8 0	2	2	..	1,607 8 0	1	144 0 0	3,609 6 0
10		Siddipet do.	..	..	1	..	..	1,380 0 0	1	3	..	1,496 15 8	1	144 0 0	3,650 15 8
11		Ponneri do.	..	..	1	..	..	800 1 0	1	1	4	2,035 6 0	1	144 0 0	3,039 7 0
12		Madurāntakam circle	..	..	1	..	..	1,333 9 0	2	2	..	1,357 15 3	1	144 0 0	3,495 8 3
		Total of district	..	..	4	..	..	5,491 2 0	6	8	4	7,097 12 11	4	576 0 0	13,162 12 11
13	Chittoor.	Chittoor circle	..	..	1	..	..	1,146 4 0	2	1	1	2,087 7 2	1	144 0 0	3,377 11 2
14		Karvetnagar do.	..	..	1	..	..	1,050 9 6	2	3	1	2,420 11 0	1	144 0 0	3,615 4 6
15		Madanapalle do.	..	..	1	..	..	902 10 6	1	2	3	2,145 14 10	1	144 0 0	3,192 9 4
			Total of district	..	..	3	..	..	3,099 8 0	5	6	5	6,654 1 0	3	432 0 0

16	Cuddapah.	Cuddapah circle	...	...	1	...	...	1,405 8 0	...	3	1	1,565 7 0	1	144 0 0
17		Rajampet do.	...	...	1	...	...	866 14 0	...	1	3	912 8 1	1	140 2 0
18		Rayachoti do.	...	...	1	...	...	989 15 11	...	2	2	1,289 0 2	1	144 0 0
19		Jammalamadugu circle	...	...	1	...	...	1,365 8 9	...	...	3	787 8 0	1	147 0 0
		Total of district	...	...	4	...	...	4,627 14 8	...	6	9	4,554 7 3	4	575 2 0
20	North Arcot.	Vellore circle	...	...	1	...	...	1,269 13 0	1	1	1	1,506 5 10	1	150 4 0
21		Kānipettai do.	...	...	1	...	...	1,140 0 0	2	1	1	1,842 15 0	1	144 0 0
22		Pōlur do.	...	...	1	...	...	943 7 4	1	2	2	2,808 8 8	1	144 0 0
23		Jalarpet do.	...	...	1	...	...	1,540 14 0	2	1	1	1,387 13 8	1	144 0 0
24		Cheygar do.	...	...	1	...	...	956 11 0	1	1	1	1,325 10 2	1	144 0 0
		Total of district	...	...	5	...	...	5,850 13 4	7	6	6	9,081 5 4	5	726 4 0
25	Salem.	Salem circle	...	...	1	...	...	1,470 0 0	1	3	1	1,735 7 11	1	141 4 8
26		Sankari do.	...	...	1	...	...	956 11 0	1	1	4	1,332 10 6	1	143 4 0
27		Dharmapuri do.	...	...	1	...	...	1,140 0 0	...	1	4	1,167 3 1	1	144 0 0
28		Hosur do.	...	...	1	...	...	1,440 12 0	...	...	4	918 7 5	1	135 7 9
29		Nāmakkal do.	...	...	1	...	...	1,353 8 0	...	...	4	1,131 8 0	1	144 0 0
		Total of district	...	...	5	...	...	6,360 15 0	2	5	17	6,485 4 11	5	708 0 5
30	South Arcot.	Cuddalore circle	...	...	1	...	...	1,405 0 0	2	2	...	1,743 14 9	1	144 0 0
31		Chidambaram do.	...	...	1	...	...	1,109 6 0	1	2	1	1,602 12 0	1	144 0 0
32		Tirukkōylūr do.	...	...	1	...	...	1,051 10 0	2	2	1	2,415 14 4	1	144 0 0
33		Tindivanam do.	...	...	1	...	...	1,057 12 11	1	1	2	1,423 10 5	1	144 0 0
		Total of district	...	...	4	...	...	4,623 12 11	6	7	4	7,132 3 6	4	576 0 0
34	Total of Circles in the Central Range.		...	...	12	...	...	6,212 11 0	2	14	2	4,863 8 3	5	708 7 0
			...	...	45	...	...	45,355 7 5	31	71	56	56,633 13 2	38	5,434 8 6
1	Municipalities.	Adoni	...	...	...	...	...	...	1	...	...	546 0 0	...	546 0 0
2		Anantapur	...	...	...	...	...	...	...	...	...	270 0 0	...	270 0 0
3		Bellary	...	...	...	...	...	...	...	...	...	837 7 4	...	837 7 4
4		Chidambaram	...	...	...	...	...	...	...	...	...	282 15 2	...	282 15 2
5		Chingleput	...	...	...	...	...	...	...	...	...	292 10 7	...	292 10 7
6		Chittoor	...	...	...	...	...	...	...	...	...	297 14 3	...	297 14 3
7		Conjeevaram	...	...	...	...	...	...	...	...	...	978 4 3	...	978 4 3
8		Cuddalore	...	...	...	...	...	...	...	...	...	300 0 0	...	300 0 0
9		Cuddapah	...	...	...	...	...	...	...	...	...	330 14 2	...	330 14 2
10		Gudiyāttam	...	...	...	...	...	...	...	...	...	228 14 4	...	228 14 4

N.B.—The average cost of each successful case was calculated on the total number of successful vaccinations performed by the special staff only, i.e., Local Fund and Municipal staff. (Vide G.O. No. 1158 L., dated 4th September 1911.)

A—VACCINE DEPARTMENT—cont.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

Number.	Districts.	Ranges.	Expenditure—cont.			Paid from				Total.	Number of all successful primary vaccinations.	Average cost of each successful case.
			Travelling allowance.	Contingencies.	Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.			
			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.		
1	Anantapur.	...	764 1 4	230 12 6	3,494 11 9	...	1,702 8 3	1,792 3 6	...	3,494 11 9	4,081	0 11 11
2		...	1,132 9 6	282 0 6	4,150 12 3	...	1,740 11 3	2,401 1 0	...	4,150 12 3	7,384	0 9 0
3		...	1,024 11 8	166 2 0	4,056 2 4	...	2,274 6 1	1,781 12 3	...	4,056 2 4	4,513	0 14 0
4		...	1,051 11 3	220 11 0	3,824 12 0	...	1,674 0 8	2,150 11 4	...	3,824 12 0	6,092	0 9 2
5	Bellary.	Total of district	3,973 1 10	899 10 0	15,526 6 4	...	7,400 10 3	8,125 12 1	...	15,526 6 4	23,270	0 10 8
6		...	877 5 0	466 3 2	4,100 4 4	...	1,627 9 2	2,172 11 2	...	4,100 4 4	5,110	0 12 10
7		...	1,236 14 3	500 6 11	4,303 7 7	...	2,420 12 6	2,488 11 1	...	4,909 7 7	5,656	0 13 11
8		...	1,024 6 5	512 3 4	3,787 13 3	...	1,651 0 3	2,136 13 0	...	3,787 13 3	5,878	0 10 4
9	Chingleput.	...	744 4 0	357 12 6	3,154 11 6	...	1,663 11 6	1,491 0 0	...	3,154 11 6	4,574	0 11 0
10		Total of district	3,882 13 8	1,836 9 11	15,952 4 8	...	7,663 1 5	8,269 3 3	...	15,952 4 8	21,218	0 11 10
11		...	942 3 0	306 5 0	4,257 8 0	...	2,012 2 0	2,245 6 0	...	4,257 8 0	8,713	0 7 10
12		...	957 14 6	461 2 0	5,010 0 2	...	2,668 14 0	2,371 2 2	...	5,040 0 2	9,234	0 8 9
13	Chittoor.	...	1,056 6 0	419 7 9	4,515 4 9	...	1,688 12 0	2,826 8 0	...	4,515 4 9	10,994	0 6 7
14		...	990 0 0	335 9 9	4,830 2 0	...	2,066 4 0	2,763 14 0	...	4,830 2 0	9,751	0 7 11
15		Total of district	3,955 7 6	1,522 8 6	18,642 14 11	...	8,436 0 9	10,206 14 2	...	18,642 14 11	38,692	0 7 8
16		...	840 12 0	295 10 5	4,514 1 7	...	1,809 9 9	2,704 7 10	...	4,514 1 7	9,796	0 7 4
17	Chittoor.	...	1,179 3 4	180 3 6	4,924 11 4	...	1,784 4 4	3,110 7 0	...	4,924 11 4	14,870	0 5 4
18		...	1,081 9 3	291 2 9	4,565 5 4	...	1,716 3 4	2,819 2 0	...	4,565 5 4	11,489	0 6 4
19		...	3,101 8 7	717 0 8	14,004 2 3	...	5,510 1 5	8,694 0 10	...	14,004 2 3	36,165	0 6 2
20		Total of district	...	...	...	...	...	...	...	...	...	...

A—VACCINE DEPARTMENT—*cont.*

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—*cont.*

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

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A—VACCINE DEPARTMENT—cont.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

Number.	Districts.	Circles.	Expenditure—cont.				Paid from				Number of successful and re-vaccinations.	Average cost of each successful case.
			Travelling allowance	Contingencies.	Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.	Total.		
			17	18	19	20	21	22	23	24	25	26
			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
CENTRAL RANGE—cont.												
11		Hindupur*	...	...	...	...	...	...	...	...	...	...
12		Hospet	...	...	...	...	...	...	...	...	...	...
13		Kurnool	...	...	...	...	...	...	...	...	...	...
14		Madras	...	...	...	...	...	...	...	...	...	...
15		Nandyāl	...	...	...	...	...	...	...	...	...	...
16		Proddatur	...	...	...	...	...	...	...	...	...	...
17		Salem	...	...	...	...	...	...	...	...	...	...
18		Sidapet	...	...	...	...	...	...	...	...	...	...
19		Tadipatri	...	...	...	...	...	...	...	...	...	...
20		Tirupattur	...	...	...	...	...	...	...	...	...	...
21		Tirupati	...	...	...	...	...	...	...	...	...	...
22		Tiruvannamalai	...	...	...	...	...	...	...	...	...	...
23		Vaniyambādī	...	...	...	...	...	...	...	...	...	...
24		Vellore	...	...	...	...	...	...	...	...	...	...
25		Villupuram	...	...	...	...	...	...	...	...	...	...
26		Walajapet	...	...	...	...	...	...	...	...	...	...
		Total of Municipalities	154 14 8	3,377 0 4	31,701 15 3	...	...	...	...	31,701 15 3	47,559	0 10 9
		Bangalore Cantonment	240 0 0	...	576 0 0	576 0 0	...	...	...	576 0 0	500	1 0 9
		Secunderabad do.	180 0 0	1,063 0 5	4,654 2 6	...	...	4,652 12 0	...	4,654 2 6	6,281	0 11 10
		Total of Cantonments	420 0 0	1,063 0 5	5,230 2 6	576 0 0	...	4,652 12 0	...	5,230 2 6	6,841	0 12 3
		Total of Circles, Municipalities, Cantonments, Central Range, Pay of Assistant Director of Public Health, Central Range, Madras Pay Rs. 7,109-4-0.	35,970 0 4	15,865 11 5	1,91,166 11 2	576 0 0	73,464 10 2	81,852 11 3	32,273 5 9	1,91,166 11 2	349,150	...
		Grand Total of Central Range	38,349 11 4	15,865 11 5	2,00,846 10 2	576 0 0	82,944 9 2	84,502 11 3	32,273 5 9	2,00,846 10 2	349,150	0 8 1

SOUTHERN RANGE.												
1		Satyamangalam circle	1,395 15 9	389 9 2	4,829 15 11	...	2,127 0 7	2,702 15 4	...	4,829 15 11	8,353	0 9 3
2		Pollachi do.	1,041 14 11	361 0 0	4,504 6 2	...	1,821 14 6	2,682 7 8	...	4,504 6 2	7,741	0 9 4
3		Erode do.	1,124 10 8	439 5 4	5,009 2 5	...	2,379 3 9	2,629 14 8	...	5,009 2 5	14,198	0 5 8
4		Coimbatore do.	1,186 3 11	286 2 10	4,801 5 2	...	1,893 9 10	2,907 11 4	...	4,801 5 2	9,231	0 8 4
5		Tiruppur do.	1,200 5 9	481 11 0	5,575 2 5	...	2,262 8 11	3,312 9 6	...	5,575 2 5	11,095	0 8 0
6		Total of district	6,039 3 0	1,957 12 4	24,720 0 1	...	10,484 5 7	14,235 10 6	...	24,720 0 1	50,618	0 7 9
7		Madras circle	933 1 0	251 12 8	4,210 12 2	...	1,782 1 0	2,458 11 2	...	4,210 12 2	6,586	0 10 3
8		Dindigul do.	968 2 0	326 9 9	4,204 14 8	...	1,578 7 9	2,626 6 11	...	4,204 14 8	8,511	0 7 11
9		Palni do.	378 13 0	263 15 3	3,874 6 5	...	1,656 0 3	2,218 6 2	...	3,874 6 5	8,342	0 7 6
10		Periyakulam do.	1,070 13 3	267 5 3	4,822 14 5	...	1,742 12 3	3,080 2 2	...	4,822 14 5	9,677	0 8 0
11		Tirumangalam do.	1,090 13 6	287 2 6	4,845 0 3	...	1,933 8 0	2,911 8 3	...	4,845 0 3	11,985	0 8 0
12		Total of district	4,441 10 9	1,396 13 5	21,987 15 11	...	8,692 13 3	13,295 2 8	...	21,987 15 11	45,111	0 7 9
13		Malappuram circle	1,519 9 0	275 1 0	5,020 0 0	...	1,877 10 6	3,142 5 6	...	5,020 0 0	18,254	0 4 5
14		Palghat do.	1,921 10 6	322 14 0	6,288 1 6	...	2,054 9 6	4,231 8 0	...	6,288 1 6	19,092	0 5 3
15		Calicut do.	2,304 15 11	568 13 1	6,639 7 9	...	2,251 13 4	4,387 10 0	...	6,639 7 9	18,015	0 5 10
16		Tellicherry do.	1,521 8 0	227 8 0	5,219 4 0	...	2,129 14 0	3,089 6 0	...	5,219 4 0	14,195	0 5 11
17		Ponnani do.	1,633 2 0	344 12 0	5,629 15 3	...	2,527 14 0	3,102 1 3	...	5,629 15 3	21,022	0 4 3
18		Total of district	8,940 13 5	1,729 0 1	28,784 12 6	...	10,941 13 9	17,952 14 9	...	28,784 12 6	90,579	0 5 1
19		The Nilgiris circle	383 12 9	789 14 5	3,886 9 1	...	2,090 13 6	1,795 11 7	...	3,886 9 1	4,615	0 13 6
20		Total of district	383 12 9	789 14 5	3,886 9 1	...	2,090 13 6	1,795 11 7	...	3,886 9 1	4,615	0 13 6
21		Ramanād circle	1,607 7 6	419 1 0	7,014 0 10	...	2,750 12 0	4,293 4 10	...	7,014 0 10	13,662	0 8 3
22		Manamadurai do.	1,133 12 0	288 2 6	4,536 13 1	...	1,601 5 2	2,935 7 11	...	4,536 13 1	9,979	0 7 3
23		Tirupattur do.	216 11 6	440 15 3	5,039 0 9	...	2,146 14 3	2,852 2 6	...	5,039 0 9	5,083	1 0 0
24		Sivakāsi do.	412 6 2	383 0 6	3,423 1 3	...	1,734 7 8	2,188 9 7	...	3,423 1 3	9,700	0 6 6
25		Total of district	3,400 5 2	1,531 3 3	20,342 15 11	...	8,273 7 1	12,269 8 10	...	20,342 15 11	38,374	0 8 7
26		Coondapoor circle	908 11 0	286 9 6	3,390 4 6	...	1,661 5 4	1,728 15 0	...	3,390 4 6	9,149	0 5 11
27		Karaikal do.	1,035 15 11	589 7 2	4,712 14 4	...	2,525 12 7	2,187 1 9	...	4,712 14 4	9,441	0 8 0
28		Mangalore do.	1,176 7 4	549 13 9	4,468 3 10	...	1,903 14 0	2,502 5 10	...	4,468 3 10	10,366	0 6 11
29		Karkul	1,011 6 0	230 4 7	3,727 4 3	...	1,695 10 1	2,031 10 2	...	3,727 4 3	9,033	0 6 7
30		Total of district	4,132 8 3	1,656 3 0	16,396 10 11	...	7,546 10 2	8,450 0 9	...	16,396 10 11	37,979	0 6 10
31		Tanjore North circle	441 13 6	235 6 11	2,766 10 2	...	1,710 1 0	41,086 9 2	...	2,766 10 2	2,607	1 0 11
32		Do. South do.	538 5 10	233 5 11	8,271 0 3	...	2,371 15 11	899 0 4	...	8,271 0 3	3,042	...
33		Māyavaram do.	366 0 8	152 7 1	1,196 9 9	...	1,733 12 9	262 13 0	...	1,998 9 9	1,350	1 7 8
34		Negapatam do.	767 10 0	200 4 10	3,504 11 1	...	2,013 11 6	1,491 2 7	...	3,504 11 1	4,917	0 11 5
35		Pattukkottai do.	118 2 0	45 1 10	802 12 8	...	...	802 12 3	...	802 12 3	4,933	0 2 3
36		Papanasam do.	200 0 0	56 6 8	802 12 1	...	...	802 12 1	...	802 12 1	3,825	0 4 4

A—VACCINE DEPARTMENT—cont.

Statement No. II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

Expenditure.																	
Number.	Districts.	Circles.	Inspector of Vaccination and Deputy Sanitary Commissioner.	Deputy Inspectors				Vaccinators.				Peons.		Total pay of establishment.			
				Pay.	First grade.	Second grade.	Third grade.	Pay.	First class.	Second class.	Probationers.	Pay.	Number.		Pay.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
SOUTHERN RANGE—cont.																	
32	Tanjore.	Tirutturaiappundi circle	..	..	..	..	..	..	1	1	..	850 10 8	..	..	850 10 8	Es. A. P.	
33		Arantangi do.	..	..	..	..	..	..	..	2	..	720 0 0	..	..	720 0 0		
34		Shiyali do.	..	..	..	..	..	..	..	1	1	..	417 12 10	..	..		417 12 10
35		Mannargudi do.	..	..	..	..	..	..	..	1	2	..	744 0 0	..	..		744 0 0
36		Kumbakonam do.	..	..	..	..	..	..	..	1	1	..	887 5 9	..	..		887 5 9
37		Reserve do.	..	..	..	..	..	..	..	2	..	304 1 11	..	..	304 1 11		
		Total of district	..	..	..	..	4	5,441 10 10	7	17	..	7,783 15 5	4	577 15 0	18,803 9 3		
38	Tinnevely.	Tonkasi circle	..	..	..	..	1	1,076 0 0	2	2	1	1,820 15 0	1	144 0 0	3,040 15 0	Es. A. P.	
39		Nanguneri do.	..	..	..	..	1	853 15 0	2	1	2	1,973 11 10	1	144 0 0	3,071 10 10		
40		Kovilpatti do.	..	..	..	..	1	780 0 0	1	1	2	1,940 2 7	1	142 7 0	2,862 9 7		
41		Srivaikuntam do.	..	..	..	..	1	1,133 15 11	3	2	1	2,636 14 9	1	144 0 0	3,914 14 8		
		Total of district	..	..	..	..	4	3,943 14 11	8	7	7	8,371 12 2	4	574 7 0	12,880 2 1		
42	Trichinopoly.	Trichinopoly circle	..	..	..	..	1	1,395 4 0	1	..	1	1,449 2 0	1	188 0 0	3,072 6 0	Es. A. P.	
43		Musiri do.	..	..	..	..	1	1,137 8 0	1	1	..	1,204 15 2	1	144 0 0	2,486 7 2		
44		Ariyalur do.	..	..	..	..	1	1,019 4 0	1	1	..	1,308 9 0	1	166 0 0	2,493 13 0		
45		Kulittalai do.	..	..	..	..	..	..	1	1	..	630 0 0	..	..	630 0 0		
46		Jayaikulandam do.	..	..	..	..	..	..	..	1	1	..	351 8 0	..	..		351 8 0
47		Salgudi do.	..	..	..	..	..	..	..	2	..	648 2 0	..	..	648 2 0		
48		Perambalur do.	..	..	..	..	..	..	..	2	..	477 11 0	..	..	477 11 0		
49		Karur do.	..	..	..	..	..	..	1	..	2	676 0 0	..	..	676 0 0		
50		Turaiyur do.	..	..	..	..	..	..	..	..	2	330 5 0	..	..	330 5 0		
		Total of district	..	..	..	..	3	3,552 0 0	5	7	7	7,116 4 2	3	498 0 0	11,166 4 2		
		Total of circles in the Southern Range	..	..	..	..	35	42,035 7 9	45	98	63	70,572 11 4	35	5,091 9 0	1,17,689 12 1		

1	Bodinayakanur	..	..	..	..	..	..	..	..	..	..	361 2 0	..	..	361 2 0	Municipalities.
2	Calicut	..	..	..	..	..	..	..	..	..	..	660 0 0	..	..	660 0 0	
3	Cannanore	..	..	..	..	..	..	..	..	..	..	234 8 0	..	..	234 8 0	
4	Cochin	..	..	..	..	..	..	..	..	..	..	543 0 0	..	..	543 0 0	
5	Coimbatore	..	..	..	..	..	..	..	..	..	..	2,071 15 3	..	..	2,071 15 3	
6	Coonoor	..	..	..	..	..	..	..	..	..	..	458 4 2	..	..	458 4 2	
7	Dharmapuri	..	..	..	..	..	..	..	..	..	..	233 8 9	..	..	233 8 9	
8	Dindigul	..	..	..	..	..	..	..	..	..	..	390 0 0	..	..	390 0 0	
9	Erode	..	..	..	..	..	..	..	..	..	..	445 10 7	..	..	445 10 7	
10	Karur	..	..	..	..	..	..	..	..	..	..	445 7 0	..	..	445 7 0	
11	Kodaikanal	..	..	..	..	..	..	..	..	..	..	120 0 0	..	..	120 0 0	
12	Kumbakonam	..	..	..	..	..	..	..	..	..	..	750 2 0	..	..	750 2 0	
13	Madurai	..	..	..	..	..	..	..	..	..	..	1,905 15 7	..	..	1,905 15 7	
14	Mangalore	..	..	..	..	..	..	..	..	..	..	790 6 8	..	..	790 6 8	
15	Mannargudi	..	..	..	..	..	..	..	..	..	..	324 2 6	..	..	324 2 6	
16	Mayavaram	..	..	..	..	..	..	..	..	..	..	419 0 0	..	..	419 0 0	
17	Negapatam	..	..	..	..	..	..	..	..	..	..	680 14 3	..	..	680 14 3	
18	Ootacamund	..	..	..	..	..	..	..	..	..	..	494 11 6	..	..	494 11 6	
19	Palamcottah	..	..	..	..	..	..	..	..	..	..	746 5 7	..	..	746 5 7	
20	Palghat	..	..	..	..	..	..	..	..	..	..	90 13 2	..	..	90 13 2	
21	Palni	..	..	..	..	..	..	..	..	..	..	855 8 3	..	..	855 8 3	
22	Periyakulam	..	..	..	..	..	..	..	..	..	..	334 13 11	..	..	334 13 11	
23	Pollachi	..	..	..	..	..	..	..	..	..	..	352 8 0	..	..	352 8 0	
24	Sivakasi	..	..	..	..	..	..	..	..	..	..	378 0 0	..	..	378 0 0	
25	Srirangam	..	..	..	..	..	..	..	..	..	..	246 0 0	..	..	246 0 0	
26	Srivilliputtur	..	..	..	..	..	..	..	..	..	..	156 0 0	..	..	156 0 0	
27	Tanjore	..	..	..	..	..	..	..	..	..	..	720 0 0	..	..	720 0 0	
28	Tellicherry	..	..	..	..	..	..	..	..	..	..	340 0 0	..	..	340 0 0	
29	Tinnevely	..	..	..	..	..	..	..	..	..	..	532 8 0	..	..	532 8 0	
30	Trichinopoly	..	..	..	..	..	..	..	..	..	..	400 0 0	..	..	400 0 0	
31	Trivavalar	..	..	..	..	..	..	..	..	..	..	240 0 0	..	..	240 0 0	
32	Trichinopoly	..	..	..	..	..	..	..	..	..	..	1,437 7 5	..	..	1,437 7 5	
33	Tuticorin	..	..	..	..	..	..	..	..	..	..	452 10 5	..	..	452 10 5	
34	Udumalpet	..	..	..	..	..	..	..	..	..	..	242 12 0	..	..	242 12 0	
35	Virudupatti	..	..	..	..	..	..	..	..	..	..	877 3 1	..	..	877 3 1	
	Total of Municipalities	..	..	..	..	..	..	..	22	37	8	19,241 6 1	6	883 4 0	20,074 10 1	
	Total of Circles and Municipalities	..	..	..	..	..	..	..	67	135	71	89,514 1 5	41	5,924 13 0	1,37,774 6 2	
	Southern Range	..	..	..	..	..	..	..	..	..	..	..	..	..	8,000 4 0	
	Grand total of Southern Range	..	..	..	..	..	..	..	67	135	71	89,514 1 5	41	5,924 13 0	1,45,774 10 2	
	Grand Total	..	..	..	..	..	..	..	165	350	191	2,40,019 15 4	155	20,923 1 3	4,14,537 11 0	

* Medical officer with Vaccination allowances

N.B.—The average cost of each successful case was calculated on the total number of successful vaccinations performed by the special staff only, viz., Local Fund and Municipal staff (vide G.O. No. 1153 L, dated 4th September 1911).
Note.—In calculating the average cost of each successful case the pay and allowances of the Assistant Director of Public Health, Southern Range, have been excluded.

A—VACCINE DEPARTMENT—cont.

Statement No II showing the Cost of the Department in the Madras Presidency for the official year 1922-23—cont.

Number.	Districts.	Circles.	Expenditure—cont.				Paid from				Total.	Number of all successful primary vaccination.	Average cost of each successful case.
			Travelling allowance.	Contingencies.	Total cost.	Imperial funds.	Provincial funds.	Local funds.	Municipal funds.				
			17	18	19	20	21	22	23	24	25	26	
SOUTHERN RANGE—cont.													
32	Tanjore.	Tirutturappandi circle	209 4 0	48 4 10	1,148 3 6	...	...	1,148 3 6	...	1,148 8 6	3,684	0 5 0	
33		Arantangi do.	324 14 10	48 12 0	1,093 10 10	...	...	1,093 10 10	...	1,093 10 10	2,418	0 7 8	
34		Shiyah do.	115 6 9	41 14 9	175 2 4	...	...	575 2 4	...	575 2 4	4,126	0 2 3	
35		Nannargudi do.	297 1 8	40 15 0	1,082 0 8	...	...	1,082 0 8	...	1,082 0 8	4,557	0 3 10	
36		Kumbakonam do.	212 12 6	67 10 8	1,167 12 11	...	...	1,167 12 11	...	1,167 12 11	4,057	0 4 7	
37		Reserve do.	176 2 2	...	480 4 1	...	...	480 4 1	...	480 4 1	...	...	
		Total of district	3,817 9 11	1,170 9 9	18,791 12 11	...	7,824 9 2	10,962 3 9	...	18,791 12 11	42,844	0 7 0	
38	Tinnevely.	Tenkasi circle	972 15 10	262 5 9	4,276 4 7	...	1,716 8 9	2,559 11 10	...	4,276 4 7	9,205	0 7 5	
39		Nanguneri do.	847 1 3	278 6 9	4,197 2 10	...	1,663 13 9	2,533 5 1	...	4,197 2 10	12,005	0 5 7	
40		Kovilpatti do.	1,052 14 11	371 3 6	4,286 12 0	...	1,468 10 6	2,818 1 6	...	4,286 12 0	9,727	0 7 1	
41		Sivakuntam do.	1,087 2 6	397 10 9	5,389 11 11	...	1,890 8 8	3,509 3 3	...	5,389 11 11	12,627	0 6 10	
		Total of district	3,960 2 6	1,309 10 9	18,159 15 4	...	6,739 9 8	11,420 5 6	...	18,159 15 4	43,564	0 6 9	
42	Trichinopoly.	Trichinopoly circle	855 8 5	219 8 6	4,147 6 11	...	2,112 1 3	2,035 5 8	...	4,147 6 11	5,088	0 13 2	
43		Musiri do.	662 4 0	166 9 9	3,315 4 11	...	1,764 11 6	1,550 9 5	...	3,315 4 11	5,345	0 9 11	
44		Ariyalur do.	852 11 9	258 6 3	3,604 15 0	...	1,828 6 11	1,776 8 1	...	3,604 15 0	5,428	0 10 7	
45		Kulittalai do.	210 0 0	...	840 0 0	...	...	840 0 0	...	840 0 0	3,987	0 8 4	
46		Jayankondam do.	187 0 0	39 5 3	577 13 3	...	...	577 13 3	...	577 13 3	5,401	0 1 9	
47		Laligudi do.	222 14 0	69 10 2	940 10 2	...	...	940 10 2	...	940 10 2	4,883	0 3 1	
48		Perambalur do.	202 13 0	...	880 8 0	...	...	880 8 0	...	880 8 0	4,669	0 2 4	
49		Karur do.	219 2 5	...	895 2 5	...	...	895 2 5	...	895 2 5	5,566	0 2 7	
50			Turaiyur do.	194 9 0	...	524 14 0	...	...	524 14 0	...	524 14 0	4,121	0 2 0
		Total of district	3,306 14 7	753 7 11	15,826 10 8	...	5,705 3 8	9,821 7 0	...	15,826 10 8	44,438	0 5 7	
		Total of circles in the Southern Range	38,713 0 4	12,294 10 11	1,68,707 7 4	...	68,504 5 10	1,00,203 1 6	...	1,68,707 7 4	398,121	0 6 9	

1	Bodinayakanur	16 15 1	378 1 1	1,006 15 5	378 1 1	1,006 15 5	628 0 9 8
2	Calicut	264 8 0	82 7 5	1,006 15 5	1,006 15 5	10,610 0 1 6	
3	Cannanore	...	22 12 1	257 4 1	257 4 1	1,703 0 3 5	
4	Cochin	...	...	543 0 0	543 0 0	2,607 0 3 4	
5	Coimbatore	...	...	2,117 9 5	2,117 9 5	1,783 1 3 0	
6	Conoor	...	45 10 2	517 14 8	517 14 8	725 0 11 5	
7	Dharapuram	...	59 10 6	239 13 10	239 13 10	647 0 15 11	
8	Dindigul	...	6 5 1	542 14 11	542 14 11	1,016 0 8 7	
9	Erode	7 5 0	30 6 1	493 5 8	493 5 8	605 0 13 0	
10	Karur	...	21 11 2	467 2 2	467 2 2	376 1 3 10	
11	Kodaikanal	...	1 0 0	121 0 0	121 0 0	166 0 11 8	
12	Kumbakonam	...	2 13 0	752 15 0	752 15 0	1,725 0 7 0	
13	Madurai	...	1,201 7 5	3,107 7 0	3,107 7 0	15,271 0 3 3	
14	Mangalore	...	24 13 10	959 4 6	959 4 6	2,365 0 6 6	
15	Mannargudi	...	50 12 7	374 15 1	374 15 1	676 0 8 10	
16	Mayavaram	60 0 0	10 5 0	489 5 0	489 5 0	1,067 0 7 4	
17	Negapatam	...	121 15 11	802 14 2	802 14 2	4,434 0 2 11	
18	Ootacamund	...	131 11 6	626 7 0	626 7 0	1,009 0 9 11	
19	Palacottah	...	5 13 1	879 10 8	879 10 8	1,612 0 8 9	
20	Palghat	...	33 8 6	889 0 9	889 0 9	2,181 0 6 6	
21	Palni	18 8 0	70 1 8	179 6 10	179 6 10	238 0 12 1	
22	Periyakulam	...	29 3 0	364 0 11	364 0 11	592 0 6 6	
23	Pollachi	...	...	352 8 0	352 8 0	203 1 11 9	
24	Sivakasi	...	20 11 4	398 11 4	398 11 4	557 0 11 5	
25	Srirangam	...	50 2 6	296 2 6	296 2 6	734 0 6 5	
26	Srivilliputtur	...	76 1 6	232 1 6	232 1 6	562 0 6 7	
27	Tanjore	...	11 1 0	731 1 0	731 1 0	2,159 0 5 5	
28	Tellicherry	...	2 13 0	473 13 0	473 13 0	1,785 0 5 1	
29	Tinnevely	...	148 6 11	824 14 11	824 14 11	2,580 0 5 1	
30	Tirupur	...	21 2 11	421 2 11	421 2 11	442 0 15 3	
31	Tiruvallur	60 0 0	18 0 0	318 0 0	318 0 0	473 0 11 0	
32	Trichinopoly	...	181 6 11	1,618 14 4	1,618 14 4	5,708 0 4 6	
33	Tuticorin	13 10 6	109 12 8	718 13 7	718 13 7	2,521 0 4 6	
34	Udumalpet	...	31 8 9	274 4 9	274 4 9	221 1 3 10	
35	Virudunagar	...	23 6 0	400 9 1	400 9 1	588 0 10 11	
	Total of Municipalities	423 15 6	2,672 15 6	23,171 9 1	23,171 9 1	70,270 0 5 3	
	Total of Circles and Municipalities	39,136 15 10	14,967 10 5	1,91,579 0 5	1,91,579 0 5	468,391 0 6 7	
	Southern Range	2,726 10 0	...	10,726 14 0	10,726 14 0	...	
	Grand Total of Southern Range	41,863 9 10	*14,967 10 5	*2,02,505 14 5†	2,02,505 14 5	468,391 0 6 11	
	Grand Total	1,20,817 0 8	38,593 4 6	5,73,948 0 2	5,73,948 0 2†	1,111,913 0 7 10	

* Excludes cost of lymph supplied from the King Institute of Preventive Medicine, Guindy, during 1922-23.

† Includes the pay and allowances drawn by the Assistant Director of Public Health, Northern, Central and Southern Ranges.

N.B.—The pay and travelling of District Health officers, the establishment charges of the members who were posted from cholera parties and the pay of the persons of those District Health Inspectors, have not been shown in this statement.—Vide D. No. 79 P.H., dated 16th May 1923, of the District of Public Health, Madras.

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.			Unknown.	Total number of operations.	Successful.	Unknown.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.
						Under one year.	Over 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
AGENCY DIVISION.																
Local Fund Dispensary, Pottanghi.	...	...	8	...	8	...	...	2	...	...	...	...	25.0	...	...	...
NORTHERN RANGE.																
Ganjām ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gōdāvari ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Guntūr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kistna ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nellore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Vizagapatam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CENTRAL RANGE.																
Anantapur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bellary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chingleput ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chittoor ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuddapah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kurnool ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madras ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Arcot ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Arcot ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTHERN RANGE.																
Coimbatore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Madura (Municipal hospital, Kodalkūanal).	...	...	233	...	152	137	2	140	3	81	26	36	33.9	57.8	1.9	44.4
Malabar ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nilgiris, The ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rāmnād ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
South Kanara ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tanjore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tinnevely ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Trichinopoly ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	...	...	233	...	152	137	2	140	3	81	26	36	33.9	57.8	1.9	44.4
Grand Total ...	...	...	241	...	160	137	2	142	3	81	26	36	33.7	57.8	1.9	44.4

Persons primarily vaccinated.

In the Madras Presidency.

	1913-1914.		1914-1915.		1915-1916.		1916-1917.		1917-1918.		1918-1919.		1919-1920.		1920-1921.		1921-1922.		1922-1923.	
	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.	Total number.	Number success-fully vaccinated.
Government vaccinators ...	17,492	17,015	19,843	17,862	16,052	14,288	17,276	13,900	17,765	15,057	18,540	14,158	16,082	14,675	14,625	10,616	15,749	11,860	11,997	14,881
Local Fund do. ...	1,835,023	1,233,086	1,333,727	1,186,578	1,332,471	1,155,851	1,275,205	1,090,029	1,194,558	989,157	1,161,724	787,222	1,157,793	833,655	1,107,117	651,154	1,057,517	756,007	1,149,088	886,474
Cantonment do. ...	5,021	4,916	4,282	3,949	4,354	4,152	3,218	2,450	3,710	3,497	3,185	2,667	4,757	4,012	4,105	3,024	5,218	4,354	5,439	5,245
Zamindari do. ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Municipal do. ...	110,076	105,611	113,468	108,742	112,146	106,850	114,172	107,326	121,439	113,652	116,193	105,156	103,653	96,188	105,504	85,538	99,480	90,518	105,203	96,948
Dispensaries ...	6	6	1	..	89	86	148	145	181	189	167	155	131	128	115	118	124	115	152	140
Medical Subordinates ...	139	114	131	117	1,681	1,464	250	213	197	103	550	312	610	345	680	492	1,764	1,402	1,769	1,232
Total ...	1,467,757	1,351,748	1,471,392	1,317,277	1,466,805	1,282,676	1,410,269	1,214,563	1,387,860	1,121,655	1,200,377	909,670	1,283,026	949,004	1,281,146	753,635	1,179,862	904,266	1,273,028	1,015,620

Statement No. V showing particulars of Vaccination certified by Inspecting Officers in the Madras Presidency during 1922-23.

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.								
	By District Medical and Sanitary Officers and District Health Inspectors.				By District Medical and Sanitary Officers.				By District Medical and Sanitary Officers Civil Surgeons and District Health Inspectors.				By District Medical and Sanitary Officers Civil Surgeons and District Health Inspectors.					By District Medical and Sanitary Officers Civil Surgeons and District Health Inspectors.							
	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.	Primary vaccination.	Re-vaccination.		Primary vaccination.	Re-vaccination.						
AGENCY DIVISION.	65,590	10,021	2,081	523	59,494	8,571	...	...	...	...	3-2	5-2	91-1	85-5	...	...	74-7	67-1	73-4	43-1	...	...	70-2	367	
NORTHERN RANGE.	47,216	13,993	1,019	535	42,517	9,125	...	...	...	...	2-2	3-8	88-8	61-8	...	...	86-9	69-5	80-9	31-8	...	...	80-6	351	
Godavari ...	48,097	14,827	1,409	996	41,407	7,748	...	...	...	...	3-1	0-5	98-6	52-2	...	...	80-2	54-0	72-3	18-0	...	...	73-6	343	
Guntur ...	43,024	5,450	208	142	35,444	3,104	...	...	...	...	0-5	2-6	77-0	57-0	...	...	98-6	21-2	71-6	42-2	...	...	74-1	429	
Kistna ...	38,305	10,557	961	416	31,833	5,912	...	...	...	...	2-5	3-9	82-7	50-0	...	...	80-2	27-0	72-8	26-1	...	...	72-0	269	
Nellore ...	51,939	10,816	1,900	2	54,203	5,843	...	...	...	...	3-5	0-01	98-6	61-0	...	...	91-9	50-0	77-1	37-2	...	...	78-7	421	
Vizagapatam ...	74,227	23,572	189	87	67,156	14,817	...	...	...	...	0-3	0-4	90-4	62-0	...	...	87-8	33-3	68-8	18-9	...	...	70-5	196	
Total ...	309,063	79,235	5,770	2,118	272,500	46,549	...	...	...	...	1-9	2-7	88-2	58-8	...	...	88-4	50-3	73-7	26-1	...	...	74-7	308	
CENTRAL RANGE.	29,195	5,601	30	...	26,081	4,143	...	...	...	...	0-1	...	89-3	73-0	...	...	88-7	...	80-7	20-1	...	...	79-7	215	
Anantapur ...	28,570	4,839	1,195	1,527	26,653	2,038	...	...	...	...	4-2	31-6	93-3	42-1	...	...	77-1	49-9	77-6	9-8	...	...	79-4	301	
Chingleput ...	48,990	9,060	522	303	42,587	6,255	...	...	...	...	1-1	3-0	86-8	62-8	...	...	94-2	45-9	83-1	33-5	...	...	88-4	384	
Chittoor ...	43,597	3,578	152	...	35,433	2,204	...	...	...	...	0-3	...	89-6	61-6	...	...	100-0	...	89-0	19-4	...	...	88-7	203	
Cuddapah ...	23,327	2,480	452	56	20,730	1,450	...	...	...	...	1-9	2-3	88-9	58-5	...	...	98-0	17-8	74-0	25-9	...	...	72-6	288	
Kurduah ...	28,152	7,872	626	...	20,302	2,898	...	...	...	...	2-2	...	104-1	36-8	...	...	87-4	...	69-3	23-5	...	...	68-9	202	
Madras ...	17,626	28,140	1,141	...	52,308	3,042	...	...	...	...	...	...	79-8	61-3	...	...	94-3	4-0	89-9	32-4	...	...	96-3	427	
North Arcot ...	65,502	4,965	1,141	25	48,780	2,737	...	...	...	...	2-1	39-5	87-7	51-9	...	...	90-1	76-2	73-9	42-4	...	...	89-4	327	
Salem ...	55,612	5,263	1,168	102	47,924	2,271	...	...	...	...	2-4	2-6	89-5	59-0	...	...	95-1	97-1	83-7	32-3	...	...	76-0	552	
South Arcot ...	59,562	3,850	1,443	...	47,924	2,271	...	...	...	...	...	...	89-5	59-0	...	...	...	...	81-1	83-7	...	...	83-5	372	
Total ...	400,153	79,554	6,729	3,934	329,775	27,038	...	...	...	...	1-7	5-1	82-4	35-3	...	...	90-2	62-9	81-1	27-6	...	...	81-9	358	
SOUTHERN RANGE.	81,587	14,484	...	2,005	62,817	5,654	...	...	...	...	...	...	76-9	39-0	...	...	...	65-9	72-3	11-1	...	...	79-6	113	
Coimbatore ...	63,316	23,758	...	35	51,469	6,121	...	...	...	...	...	...	77-6	25-8	...	...	...	42-9	82-5	26-2	...	...	90-2	624	
Madurai ...	103,167	63,808	2,164	5,870	78,728	25,714	...	...	...	...	2-1	9-3	70-3	40-6	...	...	...	64-6	80-01	30-3	...	...	91-1	611	
Malabar ...	4,981	4,883	44	4	3,389	2,569	...	...	...	...	0-9	0-1	68-2	53-1	...	...	...	100-0	94-9	53-6	...	...	89-6	381	
Nilgiris, Tho ...	51,194	7,300	...	...	38,205	4,894	...	...	...	...	...	...	74-4	67-04	...	...	...	...	84-1	26-5	...	...	90-5	676	
Ramanathapuram ...	47,312	7,619	1,707	1,297	40,559	5,424	...	...	...	...	3-6	17-02	86-6	71-2	...	...	...	86-5	50-9	83-8	46-9	...	84-8	602	
South Kanara ...	58,985	6,786	1,368	343	51,682	8,121	...	...	...	...	2-3	5-1	87-6	46-9	...	...	...	82-4	34-8	79-1	49-9	...	90-9	557	
Tanjore ...	70,274	13,538	1,105	1,772	53,394	4,404	...	...	...	...	1-6	13-1	75-9	22-5	...	...	...	81-4	23-5	74-2	20-9	...	81-0	631	
Tinnevely ...	62,978	8,304	532	399	52,494	8,608	...	...	...	...	0-3	4-6	82-3	43-7	...	...	...	90-9	78-4	80-7	43-2	...	89-6	714	
Trichinopoly ...	646,791	150,030	7,055	11,726	438,178	61,509	...	...	...	...	1-3	7-8	79-2	41-04	...	...	...	85-2	57-9	80-4	35-1	...	...	88-1	612
Total ...	1,221,305	315,880	21,615	18,331	1,005,007	143,727	...	...	...	...	1-4	5-8	82-9	45-5	...	...	...	86-6	58-3	78-6	31-2	...	...	78-7	411

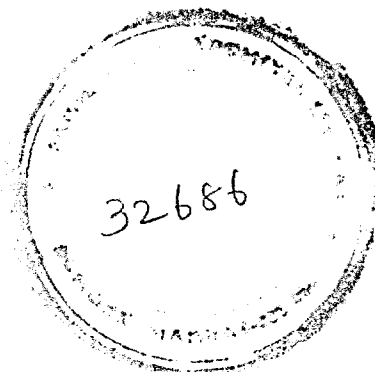
Statement No. VI showing the number of vaccinations performed in Municipal Towns on children under one year of age (G.O. Mis. No. 1534 L., dated 6th December 1909).

Municipalities.	Number of births available for vaccination during the year 1922-23.	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 1923.	Date of extension of compulsory vaccination to municipalities.	Municipalities.	Number of births available for vaccination during the year 1922-23.	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 1923.	Date of extension of compulsory vaccination to municipalities.
NORTHERN RANGE.									
Anakāpalle ...	574	96	318	1st Nov. 1891.	Ongole ...	496	108	153	1st Dec. 1855.
Berhampur ...	595	100	320	15th April 1891.	Palacole ...	291	49	25	1st Sep. 1914.
Bezavada ...	1,417	409	682	1st May 1892.	Parlākīmedi ...	524	110	235	1st Dec. 1890.
Bimlipatam ...	288	23	187	1st Jan. 1894.	Peddapur ...	305	48	147	1st April 1916.
Chicacole ...	436	78	230	1st Dec. 1890.	Rajahmundry ...	1,459	327	725	1st Jan. 1886.
Chirala ...	206	70	4	9th May 1920.	Tenali ...	567	133	254	1st April 1910.
Cocanada ...	1,632	258	689	1st June 1890.	Vizagapatam ...	1,438	270	617	1st Aug. 1890.
Ellore ...	1,433	515	462	1st June 1888.	Vizianagram ...	1,322	246	707	1st Jan. 1891.
Guntūr ...	1,763	320	519	1st Jan. 1914.					
Hasulipatam ...	1,100	179	513	1st May 1888.					
Narasaraopet ...	203	24	58	1st April 1916.					
Sellore ...	1,131	254	289	1st Aug. 1886.					
					Total ...	17,183	3,620	7,144	
CENTRAL RANGE.									
Adoni ...	785	131	438	1st Dec. 1886.	Nandyal ...	452	92	207	1st Jan. 1900.
Anantapur ...	355	37	116	1st Jan. 1886.	Proddatur ...	410	88	156	1st Sep. 1915.
Bellary ...	1,162	150	365	1st Jan. 1891.	Saidapet ...	672	58	312	1st April 1921.
Chidambaram ...	374	72	168	1st July 1887.	Salem ...	2,219	321	1,083	1st May 1891.
Chingleput ...	629	159	261	1st April 1897.	Tadpatri ...	337	79	65	1st Oct. 1921.
Chittoor ...	728	112	328	9th Jan. 1917.	Tirupattūr ...	634	134	252	1st July 1891.
Conjeevaram ...	2,196	528	845	1st Jan. 1891.	Tirupati ...	344	67	164	1st Mar. 1890.
Cuddalore ...	2,175	678	1,132	1st Aug. 1896.	Tiruvannāmalai ...	887	100	592	15th Dec. 1897.
Cuddapah ...	518	100	186	15th July 1888.	Vāniyambūdi ...	663	110	468	1st May 1889.
Cudiyāttam ...	562	102	313	1st June 1889.	Vellore ...	2,415	384	1,354	1st Jan. 1897.
Hindupur ...	392	15	171	1st May 1920.	Villupuram ...	653	79	335	1st Sep. 1919.
Kopet ...	520	78	203	1st April 1892	Walajapet ...	474	90	236	20th May 1892.
Kurnool ...	928	201	413	1st July 1891.					
Madras ...	21,261	4,015	9,940	1st June 1884.	Total	42,778	7,978	20,121	
SOUTHERN RANGE.									
Madinayakkanūr ...	611	105	433	19th Feb. 1916.	Periyakulam ...	936	239	568	1st Feb. 1891.
Malout ...	2,083	409	1,400	1st Oct. 1891.	Pollachi * ...	376	64	188	*Govt. have not yet declared vaccination compulsory in the town.
Mannanore ...	852	116	657	1st June 1891.					Do.
Madurai ...	854	183	148	1st Jan. 1894.	Sivakūsi ...	382	47	271	1st July 1888.
Madurai ...	2,017	570	739	1st Jan. 1889.	Srirangam ...	463	82	196	1st Jan. 1896.
Madurai ...	298	36	158	1st April 1887.	Srīvilliputtūr ...	1,154	158	453	1st Jan. 1893.
Madurai ...	542	78	143	1st Feb. 1916.	Tanjore ...	2,095	537	845	15th June 1892.
Madurai ...	1,242	276	720	16th July 1886.	Tellicherry ...	1,244	185	574	1st July 1896.
Madurai ...	522	94	207	1st April 1891.	Tinnovelly ...	2,613	872	1,036	1st Apr. 1918.
Madurai ...	419	22	67	1st Sep. 1900.	Tiruppur ...	197	21	34	1st Oct. 1913.
Kodaikūnal ...	177	28	137	1st April 1889.	Tiruvālūr ...	498	114	128	1st Aug. 1890.
Kumbakonam ...	1,591	467	639	1st Aug. 1889.	Trichinopoly ...	4,469	1,020	1,931	1st May 1892.
Ladura ...	5,585	1,372	2,724	1st Jan. 1890.	Tuticorin ...	1,833	480	785	1st Apr. 1918.
Madurai ...	1,346	172	737	1st Sep. 1891.	Udamalpet ...	385	111	112	1st Sep. 1915.
Madurai ...	631	117	294	1st Dec. 1890.	Virudunagar ...	901	140	304	
Madurai ...	865	196	426	1st Oct. 1886.					
Madurai ...	1,731	448	1,086	1st July 1886.					
Madurai ...	761	131	409	1st July 1887.					
Madurai ...	1,506	406	830	1st May 1886.					
Madurai ...	2,028	444	1,154	1st Jan. 1883.					
Madurai ...	620	144	109	1st Dec. 1891.					
					Total ...	43,738	9,842	20,647	
					Grand total ...	103,689	21,480	47,912	

Statement No. VII showing inspection on work done by the Deputy Inspectors of Vaccination during the year 1922-23—contd.

District.	Circle.	Number of inspecting officers.			Number of villages inspected.			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 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
AGENCY DIVISION.																		
Agency Division.	Bhadrachalam	1	..	..	338	..	..	4,695	216	4,385	..	..	..	2,282	52.04	93.59	..	..
	Ganjām Hill Tracts (North).	1	..	..	991	..	..	8,231	160	5,744	..	..	..	4,758	80.63	69.78	..	..
	Do. (South).	1	..	..	838	..	..	7,409	206	7,287	..	..	..	5,646	77.5	98.3	..	..
	Ganpur	1	..	..	664	..	..	12,639	236	11,539	..	..	..	8,102	70.21	91.29	..	..
	Hill Madgole	1	..	..	283	..	..	3,435	197	2,836	..	..	..	1,674	61.34	97.6	..	..
	Jeyore	1	..	..	1,197	..	..	10,003	254	10,351	..	..	..	6,956	67.2	97.6	..	..
	Koraput	1	..	..	1,078	..	..	10,011	220	8,834	..	..	..	7,001	70.0	98.08	..	..
	Nowrangapur	1	..	..	716	..	..	11,914	205	11,737	..	..	..	7,708	65.67	98.51	..	..
	Polavaram	1	..	..	451	..	..	6,374	158	5,352	..	..	..	3,098	57.88	83.97	..	..
	Total	9	..	..	6,556	..	..	75,311	1,852	68,065	..	..	..	47,227	69.3	90.4	..	..
NORTHERN RANGE.																		
Guntur	Aska	1	..	..	530	..	..	9,969	224	9,486	..	..	..	6,614	69.7	95.1	..	..
	Berhampur	1	..	..	881	..	..	12,506	200	10,078	..	..	..	7,186	71.3	80.6	..	..
	Chiccacole	1	..	..	753	..	..	12,823	203	10,694	..	..	..	8,111	75.9	83.3	..	..
	Gumtur	1	..	..	50	..	..	1,403	35	1,252	..	..	..	840	67.1	89.3	..	..
	Parlakimedi	1	..	..	801	..	..	12,220	214	11,745	..	..	..	8,315	70.8	96.1	..	..
	Perushottapur	1	..	..	701	..	..	10,577	228	8,387	..	..	..	6,243	74.1	79.3	..	..
	Annapur	1	..	..	211	..	..	12,611	229	10,791	..	..	..	6,622	61.4	85.6	..	..
	Cocanada	1	..	..	290	..	..	16,032	205	14,353	..	..	..	8,566	59.8	89.5	..	..
	Peddāpur	1	..	..	361	..	..	15,543	212	13,430	..	..	..	10,120	75.4	80.4	..	..
	Rajahmundry	1	..	..	139	..	..	12,128	178	10,581	..	..	..	6,033	67.0	87.2	..	..
Guntur	Rapatla	1	..	..	299	..	..	11,173	203	8,315	..	..	..	6,201	74.6	74.4	..	..
	Guntur	1	..	..	343	..	..	17,632	148	13,287	..	..	..	9,079	68.3	75.4	..	..
	Narasaraopet	1	..	..	410	..	..	12,412	231	8,701	..	..	..	5,868	67.4	70.1	..	..
	Vinukonda	1	..	..	309	..	..	9,315	245	8,242	..	..	..	5,580	64.7	88.5	..	..
	Masulipatam	1	..	..	91	..	..	4,118	169	3,412	..	..	..	2,185	64.0	82.8	..	..
	Divi	1	..	..	83	..	..	5,648	63	5,981	..	..	..	4,527	75.6	105.8	..	..
	Gudivada	1	..	..	71	..	..	2,464	46	1,709	..	..	..	971	77.1	74.8	..	..
	Kaikalur	1	..	..	75	..	..	4,310	67	3,109	..	..	..	1,102	62.3	71.8	..	..
	Bezavada	1	..	..	104	..	..	7,282	181	5,560	..	..	..	2,317	74.6	72.4	..	..
	Gannavaram	1	..	..	137	..	..	2,796	49	3,380	..	..	..	2,087	62.4	76.4	..	..
Kistna	Nandigama	1	..	..	66	..	..	1,976	84	2,441	..	..	..	1,761	61.7	120.8	..	..
	Tirur	1	..	..	73	..	..	6,404	166	6,308	..	..	..	4,953	72.0	123.5	..	..
	Ellore	1	..	..	152	..	..	6,653	74	4,972	..	..	..	3,780	78.5	98.5	..	..
	Kovvuru	1	..	..	83	..	..	..	..	..	..	..	..	..	76.0	74.7	..	..
	Aska	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Berhampur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chiccacole	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Gumtur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Parlakimedi	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Perushottapur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nellore	Annapur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Penugonda	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Narasapur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Bhimavaram	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Arnakur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Gudur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Kanichiri	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Kavali	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Nellore	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Narasaraopet	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatnam.	Y.-Ilamanchilli	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chodavaram	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Anakapalle	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Vizagapatnam	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Jami	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Bimlipatam	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Vizagapatnam	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Gajapatinagar	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chipurupalle	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Rajam	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Central Range.	Palkonda	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Paravatipur	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Bobbili	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Salen	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	48	..	..	11,727	..	..	386,323	6,863	319,109	..	..	..	213,065	68.6	82.6	..	..
	Aska																	

District.	Circle.	Number of inspecting officers.			Number of villages inspected.			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 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
CENTRAL RANGE—cont.																		
Salom	Salem	1	..	..	432	..	..	13,905	214	12,917	..	..	12,917	10,412	80.4	92.5	..	..
	Sankaridug	..	..	..	159	..	..	15,664	231	11,643	..	..	11,643	7,537	61.9	7.33	..	..
	Dharmapuri	1	..	..	751	..	..	10,036	181	9,086	..	..	9,086	6,660	73.3	90.5	..	..
	Hostur	1	..	..	217	..	..	8,406	190	6,755	..	..	6,755	5,655	81.1	83.0	..	..
	Namakkal	1	..	..	172	..	..	13,492	208	10,876	..	..	10,876	6,942	63.8	80.6	..	..
South Arcot	Cuddalore	1	..	..	473	..	..	17,691	178	14,899	..	..	14,869	12,577	84.6	84.64	..	..
	Chidambaram	1	..	..	512	..	..	15,958	180	13,619	..	..	13,619	12,065	88.5	85.3	..	..
	Tirukkoyilur	1	..	..	391	..	..	14,943	192	9,809	..	..	9,809	6,853	70.0	65.6	..	..
	Tindivanam	1	..	..	458	..	..	13,995	197	11,898	..	..	11,898	9,355	78.6	85.01	..	..
	Total	45	..	19	14,558	..	..	433,753	7,485	356,813	96,405	145,562	356,813	271,107	2,612.9	2,803.98	..	..
SOUTHERN RANGE.																		
Coimbatore.	Satyamangalam	1	..	..	219	..	..	14,435	180	11,888	..	..	..	7,958	66.9	82.3	..	..
	Pollachi	1	..	..	170	..	..	13,520	154	8,587	..	..	..	5,819	67.7	63.5	..	..
	Erode	1	..	..	246	..	..	24,789	196	16,630	..	..	..	11,707	70.4	67.1	..	..
	Coimbatore	1	..	..	159	..	..	17,320	208	14,310	..	..	..	9,115	63.7	82.6	..	..
	Thrippur	1	..	..	190	..	..	10,061	228	17,056	..	..	..	11,425	66.9	89.2	..	..
Madura	Madura	1	..	..	267	..	..	12,592	206	10,029	..	..	..	6,599	65.8	79.6	..	..
	Dindigul	1	..	..	391	..	..	12,928	259	11,735	..	..	..	9,170	78.1	90.8	..	..
	Palni	1	..	..	162	..	..	13,223	189	10,138	..	..	..	7,548	74.5	76.6	..	..
	Poriyakulam	1	..	..	85	..	..	14,305	211	10,623	..	..	..	8,644	86.2	70.1	..	..
	Trumangalam	1	..	..	311	..	..	18,968	184	15,675	..	..	..	12,118	77.3	82.9	..	..
Malabar	Malappuram	1	..	..	134	..	..	20,533	151	16,504	..	..	..	12,703	76.9	55.9	..	..
	Calicut	1	..	..	277	..	..	30,454	191	21,879	..	..	..	15,866	72.5	71.8	..	..
	Tellicherry	1	..	..	146	..	..	27,968	180	20,220	..	..	..	14,300	70.7	72.3	..	..
	Palghat	1	..	..	237	..	..	24,419	185	17,544	..	..	..	13,357	76.3	71.8	..	..
	Ponnani	1	..	..	103	..	..	29,416	193	28,295	..	..	..	21,821	77.1	96.1	..	..
Nilgiris	The Nilgiris	1	..	..	54	..	..	6,862	193	5,968	..	..	..	4,806	77.2	86.9	..	..
	Ramanad	1	..	..	930	..	..	29,728	197	16,115	..	..	..	11,939	74.1	77.7	..	..
	Manamadurai	1	..	..	654	..	..	12,413	221	11,681	..	..	..	9,916	85.6	83.3	..	..
	Trappattur	1	..	..	703	..	..	10,765	181	5,661	..	..	..	3,975	61.9	62.6	..	..
	Sivakasi	1	..	..	582	..	..	14,544	174	9,743	..	..	..	7,913	78.1	66.9	..	..
Ramanad	Coondapur	1	..	..	169	..	..	12,748	237	11,226	..	..	..	9,483	75.5	88.1	..	..
	Kasaragod	1	..	..	172	..	..	14,984	156	12,691	..	..	..	9,550	75.3	81.6	..	..
	Mangalore	1	..	..	226	..	..	13,761	214	12,614	..	..	..	10,356	81.9	91.9	..	..
	..	1	..	..	108	..	..	19,694	990	6,559	..	..	..	6,459	98.1	77.2	..	..
	Total	152	..	..	44,146	..	..	1,523,335	24,962	1,239,734	..	..	..	904,169	730	81.3	..	..
Tanjore	Shiyali	1	..	..	68	..	..	5,672	78	3,965	..	..	..	3,297	83.2	69.9	..	..
	Kumbakonam	1	..	..	178	..	..	6,728	95	3,322	..	..	..	2,023	74.4	52.3	..	..
	Papanasam	1	..	..	165	..	..	7,330	155	4,754	..	..	..	3,638	76.5	64.8	..	..
	Manavaru	1	..	..	171	..	..	7,524	107	4,308	..	..	..	3,260	75.7	57.2	..	..
	Tanjore, North	1	..	..	327	..	..	3,979	176	5,172	..	..	..	4,146	80.1	129.3	..	..
Tinnevely	Tanjore, South	1	..	..	126	..	..	4,783	88	2,850	..	..	..	2,308	80.9	59.6	..	..
	Pattukkottai	1	..	..	170	..	..	6,713	199	8,470	..	..	..	6,884	81.3	126.2	..	..
	Arantangi	1	..	..	52	..	..	3,464	105	2,375	..	..	..	1,789	75.3	68.6	..	..
	Tirutturaiappandi	1	..	..	74	..	..	5,354	231	3,474	..	..	..	2,694	77.9	64.4	..	..
	Negapatam	1	..	..	112	..	..	2,353	234	4,586	..	..	..	3,225	70.3	194.9	..	..
Trichinopoly	Nannilam	1	..	..	241	..	..	5,359	170	3,490	..	..	..	2,595	74.3	65.1	..	..
	Reserve	1	..	..	102	..	..	..	95	1,135	..	..	..	1,005	88.5	..	..	..
	Tenkasi	1	..	..	233	..	..	19,740	225	15,082	..	..	..	8,525	54.3	79.4	..	..
	Nanguneri	1	..	..	200	..	..	19,993	253	13,625	..	..	..	9,776	71.7	68.1	..	..
	Koyilpatti	1	..	..	233	..	..	15,903	241	11,001	..	..	..	8,407	76.4	63.2	..	..
Trichinopoly	Srivankuntam	1	..	..	314	..	..	18,230	258	17,490	..	..	..	13,840	79.1	95.9	..	..
	Trichinopoly	1	..	..	253	..	..	8,195	125	6,172	..	..	..	4,681	75.8	75.9	..	..
	Musiri	1	..	..	180	..	..	7,847	180	8,725	..	..	..	6,996	80.1	111.3	..	..
	Ariyalur	1	..	..	98	..	..	6,143	95	4,380	..	..	..	3,564	77.8	74.6	..	..
	Karur	1	..	..	117	..	..	7,635	156	7,195	..	..	..	5,512	77.03	91.4	..	..
Total	Kulittalai	1	..	..	73	..	..	6,929	107	4,620	..	..	..	3,265	70.7	66.7	..	..
	Laikudi	1	..	..	118	..	..	6,866	105	5,306	..	..	..	4,438	83.6	77.3	..	..
	Turaiyur	1	..	..	62	..	..	6,614	103	5,304	..	..	..	3,707	69.9	80.2	..	..
	Perambalur	1	..	..	127	..	..	7,339	129	5,714	..	..	..	4,371	60.1	78.3	..	..
	Jayakundam	1	..	..	184	..	..	9,068	136	8,506	..	..	..	7,386	86.8	93.8	..	..
Total		50	..	..	11,305	..	..	627,942	8,762	494,747	..	..	..	303,770	747	78.8	..	..
Grand Total		152	..	..	44,146	..	..	1,523,335	24,962	1,239,734	..	..	..	904,169	730	81.3	..	..



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