Report on vaccination

Madras Presidency

1870—71

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No. 344.

OFFICE OF INSPECTOR-GENERAL,
INDIAN MEDICAL DEPARTMENT,
FORT SAINT GEORGE, *17th October* 1871.

From

E. G. BALFOUR, Esq.,
Actg. Inspector-General, Indian Medical Department,
Fort Saint George,

To

THE HONORABLE R. S. ELLIS, C.B.,
Chief Secretary to Government, Public Department,
Fort Saint George.

SIR,

I HAVE the honor to submit to Government the Report of the Superintendent-General of Vaccination, which, in consequence of the prescribed change from the calendar to the official year, embraces a period of fifteen months, viz., the first quarter of 1870 and the official year 1870-71. The returns for these two periods are given separately, and those for the first three months of 1870 are framed according to the old method, while those for 1870-71 have been drawn up according to the form ordered by the Government of India.

2. *Establishment.*—The establishment of the department, during the period under review, was always under the sanctioned strength, there having been an average deficiency of 9·2 per cent. during the first quarter of 1870, and of 6·86 per cent. throughout the official year. The deficiency existed chiefly in the grades of Vaccinators, and the usual difficulty was experienced in getting qualified men to fill up the vacancies. One Superintendent died of fever in the Hill Tracts of Ganjam, and one was discharged for incompetency. The casualties amongst the Vaccinators were twenty-five, and as follows:—

Desertions	7
Resignations	5
Dismissed	6
Died	7
Total ...	25

3. *Working of the Establishment.*—The Vaccinators were distributed over the several districts, one or more in each talook according to its size, and they prefer this to the old plan of working in gangs, as it renders them more independent of the Superintendents. Surgeon Shortt, while withholding a final opinion on this system until it has been tested by further experience, is not at present favorably impressed with it, and nearly all his administrative staff disapprove of it, on the ground that the operations of the Vaccinators cannot be so efficiently supervised. The Superintendent-General is, on the whole, satisfied with the manner in which his Superintendents conducted their duties. The Vaccinators, also, appear to have labored zealously.

4. *Supply of Vaccine Lymph.*—Great difficulty was experienced in getting and keeping up a due supply of lymph. Regarding this Surgeon Shortt says,* "the difficulties of procuring a supply in the most favored districts is increasing daily, and failure of lymph will put a stop to the work of the whole department, whether it be to work from arm to arm with fresh lymph, or to preserve it for the same purpose, so that it will soon become imperative that some legislative enactment be instituted to compel those who take advantage of vaccination to permit the extraction of vaccine lymph." In connexion with this, I would observe that the Superintendent-General has, as much as possible, been restricting the issue of batta,† which was formerly given to mothers to induce them to permit of lymph being extracted from their children's arms. This economy appears to me to have been the chief cause of the difficulty now complained of, and, I believe, that a return to the batta system will, in a great measure, obviate it without any legislative interference. The extra expense of batta would be but trifling, compared with the beneficial results that may be anticipated from its issue.

* Paragraph 24.

† Paragraph 25.

5. *Private Vaccination.*—The Superintendent-General has been endeavouring to encourage private vaccination, and there are at present seven private Vaccinators holding his certificates of qualification, and gaining a livelihood by the fees which they obtain for operating. The work of these men is open to the inspection of Superintendents, who are always ready to aid them with fresh lymph, and it is satisfactory to learn that, during 1870-71, they operated on 5,213 individuals. I am of opinion that every effort should be made to increase the numbers of these private Vaccinators.

6. *Numbers vaccinated.*—During the year, the total number vaccinated in this Presidency was 273,520. Of this aggregate, 205,293 operations were performed by the Vaccine Department, 15,304 by Medical Subordinates, 22,936 by Municipalities, 28,489 by Zemindaries, 635 by Civil Dispensaries, 835 by Price Vaccinators (Salem District), and 28 by Railway Apothecaries. Comparing the above figures with those of 1869, it appears that there has been a general increase in the numbers vaccinated to the extent of 17,835, of which 7,242 operations were performed by the Vaccine Department, 394 by Medical Subordinates, 10,846 by Municipalities, 423 by Zemindaries, and 18 by Railway Apothecaries. Civil Dispensaries show a decrease of 1,923, which is owing to the transfer of vaccination from two of these institutions to Municipalities. The number under one year of age and the relative proportions of the two sexes and of castes or races operated on by the Vaccine Department in 1870-71 are exhibited in Form I. in the Appendix of Surgeon Shortt's Report.

7. *Results of Operations.*—The per-centage of successful operations greatly varied, ranging from 97·56 in Chingleput to 58·53 in Tanjore. Last year the latter district showed the highest proportion of success amongst all the others; but, in the absence of explanation, it is difficult to assign any cause for the decline in 1870-71. The per-centages of success during the past three years for the department have been as follows:—

	Maximum	Minimum
1868	98·69	67·53
1869	97·99	84·23
1870-71	97·56	58·53

8. *Comparative Statement of Work in Districts.*—Most operations were performed in the Districts of South Canara, Tanjore, and South Arcot, and least in Kurnool, Vizagapatam, and Cuddapah. Kurnool occupied the same unfavorable position also in 1869, and it would be advisable to make a general relief of all the Vaccinators and the Superintendents in those three circles.

9. *Cost of the Department.*—The net charges connected with the department, during 1870-71, amounted to Rupees 72,444-14-10, and the cost of each successful operation ranged from Annas 1-11 in South Canara to Rupees 2-5-11 in Ganjam. The range of cost per operation during the past three years has, for the entire Presidency of Madras, been as per margin.

	Maximum.			Minimum.		
	RS	A.	P.	RS	A.	P.
1868 ...	3	8	6	0	1	10
1869 ...	1	3	7	0	2	6
1870-71...	2	[illegible]	11	0	3	11

10. *Zemindary Vaccination.*—There are thirty-six landed proprietors in this Presidency who employ seventy Vaccinators, and there has been a slight increase in the number of operations performed by them, as compared with the results of the previous year. Surgeon Shortt, however, is not satisfied with their work, but there seems to be some excuse for their want of energy, inasmuch as they are irregularly paid, and often do not receive the stipulated amount of salary. To remedy this, the Superintendent-General has thought of proposing the substitu-

tion of Government Vaccinators for these men, the owners of the estates being made to pay their salaries through the Collectors of the districts. While the present difficulty exists in recruiting the Government Vaccine Department, I cannot support either part of this proposition; but, I think, that some arrangement for ensuring the punctual pay of the salaries of Zemindary Vaccinators might be introduced advantage. Perhaps it would be sufficient for the Revenue Off of the districts to express to the landed proprietors, their hope that Vaccinators may be punctually paid.

11. *Municipal Vaccination.*—During the year under review thirty-nine Vaccinators were employed by Municipalities, and their work is said to have, on the whole, been satisfactory. Surgeon Shortt, however, thinks that better results would follow, were Government Vaccinators supplied to Municipalities, and the men placed under the supervision of the Civil Medical Officers of stations. It does not, at the present crisis, seem to me desirable to make such an innovation, and there is the objection to the scheme that such employment would probably interfere with the claims for pension of Vaccinators lent to Municipalities.

12. *General Remarks.*—On the whole, the department worked energetically and successfully during the year 1870-71, and I have to record my satisfaction with the able manner in which the Superintendent-General conducted his duties. Considering the opposition shown to vaccination in civilized countries, it seems matter for congratulation that the obstacles in this country are not greater than they now are. Time, perseverance, and the advance of education will, no doubt, cause them, in a great measure, to disappear. Surgeon Shortt notices favorably the efforts made by Mr. Price, in the Salem District, in behalf of vaccination, and the liberality of the Zemindar of Karvettinuggur which enabled him to publish, for gratuitous distribution amongst the people, 1,200 copies of a work showing the advantages of vaccination.

13. Surgeon Shortt recently submitted to me a scheme for the re-organization of his department, so as to assimilate it to the Vaccine Establishment in Bombay; but, as his proposals would have involved a great increase in cost, and as this would have fallen on provincial funds, I deemed it prudent, during the present changes, to defer forwarding it to Government.

I have the honor to be,

Sir,

Your most obedient servant,

EDWARD BALFOUR, Dy. Inspr.-Genl.,

Acting Inspector-General,

Indian Medical Department.

XTH ANNUAL REPORT OF VACCINATION

IN THE

MADRAS PRESIDENCY,

FOR THE YEAR 1870-71

I HAVE the honor, in submitting this Report, to state, in consequence of a change from the calendar to the official year ordered by the Government of India, that this Report embraces a period of fifteen months, viz., from the 1st January 1870 to the 31st March 1871; but the returns for the first three months of 1870 are separately given, so that the returns for the official year 1870-71 may be contrasted with that of the calendar year 1869.

The establishment comprised—

1 Superintendent-General.
23 Superintendents.
100 First-class Vaccinators.
155 Second-class Vaccinators.
3 Peons.
1 Sweeper.

2. The establishment has not been complete, giving an average of 6·86 per cent. below strength during the year under notice; and, in the like manner during the first quarter of 1870, it was 9·2 per cent. below strength.

3. In order to comply with the Resolution of the Government of India, no report was submitted for the first quarter of 1870, and the necessary information since called for was not forthcoming; the returns for the three months are given according to the old form only, showing the operations performed between the 1st January and 31st March 1870 separately, and the new forms are introduced with the official year 1870-71.

4. As usual, the incompleteness of the strength of the establishment existed chiefly among Vaccinators, and there has been the usual difficulty in procuring qualified candidates to fill up existing vacancies in the department. Seventy-five per cent. of the Vaccinators can now read and write and keep their registers in English.

5. There have been two casualties among the Superintendents. One Vaccinator, who was Officiating Superintendent in the Hill Tracts of Ganjam, succumbed to the fever of that pernicious locality; and a late Second Dresser of the Subordinate Medical Department was entertained in his stead; also the Superintendent of Vaccination of the Ga[illegible] District, after being repeatedly fined and warned, but without effe[illegible] dismissed the service. Of the four Vaccinators, who were offi[illegible] as Superintendents, two were confirmed, and the remaining two are officiating.

6. On the whole, the Superintendents have been working well, and giving satisfaction, exerting their interests in spreading the benefits of vaccination, although it must be mentioned that thirteen of the twenty-three Superintendents had to be fined, for neglect of duty and inattention to orders, in sums varying from 2 to 22 rupees, and the amount thus realized during the year under notice was 130 rupees.

7. The casualties among the Vaccinators comprised seven desertions, five resignations, six dismissals, and seven deaths, amounting to a total of twenty-five. Rupees 110-2-7 were recovered from the men who resigned the service by refunding half salary, and Rupees 326-3-9, being the amount realized by fines inflicted on the Vaccinators for neglect of work and other misconduct.

8. The present staff comprises—

Superintendents.		*Vaccinators.*	
East Indians	2	East Indians...	6
Hindoos...	14	Hindoos	174
Mahomedans	4	Mahomedans.	38
Native Christians	2	Native Christians	15
Brahmins	1	Brahmins	9
Total ...	23	Total ...	242

9. In the annexed table, particulars of the several districts, their Superintendents and Vaccinators, area, population, total number of operations of adults and infants under one year of age, with per-centage of success, cost of establishment, value of each operation, caste, and sex can be seen at a glance—*Vide* Appendix Form No. I.

10. From the above table it will be seen that the total of operations and per-centage of success in the several districts differ considerably, while the largest number of operations on this occasion is in the South Canara District, owing to a severe outbreak of an epidemic of small-pox, from which a large mortality has been occasioned. Tanjore, South Arcot, Madura, Bellary, Coimbatore, Kistna, and Godavery stand, in numerical order, as showing over 10,000 operations in each of these districts. The average number of operations in the twenty districts is 9,326$\frac{13}{20}$,

and the per-centage of success varied from 97·56, the highest in the Chingleput District, to 80·62, the lowest in the Godavery District.

11. The Vaccinators have been placed out for work in the several [illegible], one or more in each according to the number of talooks and size [illegible] district as a whole. The talook system has not worked well, but it is [illegible] soon to judge, and another year or two must elapse for the Vaccinators to settle down to work before a correct opinion can be given. The Vaccinators as a body prefer being placed out in talooks for being away from the Superintendents. They work when and how they please. On this account six of the Superintendents disapprove of the method, while three approve of the talook system, and fourteen are silent on the subject.

12. The numbers vaccinated during the past five years are given below:—

1866	194,509
1867	270,749
1868	264,696
1869	255,685
1870-71	273,520

The year under review shows a total of 273,520 operations. Of these, 205,298 were executed by the Government Vaccine Department, 15,394 by Medical Subordinates, 22,936 by Municipalities, 28,489 by Zemindaries, 635 by Civil Dispensaries, 835 by "Price Vaccinators," and 28 by Railway Apothecaries.

13. There is an increase of 17,835 operations over that of the previous year; 7,242 of these were operated on by Government Vaccinators, 394 by Medical Subordinates, 10,846 by the Municipalities, 423 by Zemindaries, and 18 by Railway Apothecaries, whilst the Civil Dispensaries show a decrease of 1,923 in consequence of the work of two Dispensaries (Combaconum and Mannargudy) having been transferred to Municipalities; and the "Price Vaccinators," whose work has only come into existence during the year under notice, show 835; thus making up the total of increase. The increase of the work in the Government Vaccine Department is due to the large numbers that were operated on by a double staff in South Canara, but chiefly so to the exertions of the Superintendent and Vaccinators of the district itself during the prevalence of the epidemic.

14. The Municipal Vaccinators show the following total of operations, but these returns, according to the new form, do not give the sex and caste.

15. The exclusive total of work by the Government Vaccine Department for the year comprises—

Nineteen Vaccine Districts	181,957
The Madras Collectorate and Vaccine Depôt ...	8,072
Military Cantonments	3,508
Private Vaccinators	5,213
Temporary Vaccinators	6,543
	205,293

16. Making an aggregate total of 205,293 operations fro ources during the year under notice.

17. The largest number of operations performed next to South Canara are Tanjore and South Arcot, whilst the smallest number vaccinated is in the Kurnool District, and the next in order are Vizagapatam and Cuddapah.

18. The Vaccinators in this department use their best endeavours to propagate vaccination; and, scattered as they now are over the district one in each talook, much difficulty was experienced by individual Vaccinators in maintaining working lymph: at first little or no work was done in some of the talooks; but, as the new men are settling down, they seem to meet with better success; yet the work performed by individual Vaccinators is comparatively small. The Superintendents visit all the officials, both Europeans and Natives, as well as other Europeans and Natives of respectability and position, as often as their duties will permit, to solicit their moral support in aid of vaccination.

19. Lists of the numbers vaccinated in each village are now left by the Vaccinators with the headman of the village visited, showing the numbers operated on in each. Through the liberality and kindness of Deva Maharajulau Garu, the Zemindar of Karvettinuggur, 1,200 copies of a treatise on vaccination in Tamil and 600 in Telugu were printed for gratuitous distribution in the districts in which these languages are spoken. In all 1,800 copies were distributed, and have been the means of doing much good. The Vaccinators continue to read and explain the contents of these treatises on vaccination in the different villages in which they work, with good effect.

20. J. F. Price, Esq., the Sub-Collector of Salem, has taken a very great interest in vaccination, and has succeeded in getting the people of the Talooks of Oossoor and Kistnagherry to subscribe according to their means so as to create a fund, the interest of which is to be paid to one or more Vaccinators for the purpose of conducting vaccination in these talooks. Mr. Price having himself presided at public meetings held for the purpose, a sum of Rupees 8,550-0-9, inclusive of Savings' Bank interest, was realized, and to this sum the Government contributed a grant of Rupees 1,948-8-0, making a total of Rupees 10,498-8-9, the money being invested in Government Promissory Notes at 5 per cent. to the value of Rupees 7,200, the cost of which was Rupees 8,000-5-2,

and the interest amounted to Rupees 360 per annum. From this sum three Vaccinators are employed on a salary of Rupees 10 each, and Mr. Price is in hopes of employing a fourth shortly. Mr. Price remarks in his letter as follows:—"The ravages committed by this disease (small-pox) during the years (1866, 1867, and 1868) of scarcity was appalling: whole villages were deserted, and it was a fact that amidst all this sickness, those who had been vaccinated almost always escaped, that mainly to the people coming forward with subscriptions as they did."

21. This is a very satisfactory testimony in favor of vaccination, and I am confident that if other gentlemen would take the trouble and evince the interest that Mr. Price has done in the matter of vaccination, equal success would be met with in most of the other districts.

22. To distinguish these from the Government, Municipal, Zemindary, and Civil Dispensary Vaccinators I have called them the "Price Vaccinators." They commenced work about the end of October 1870, and during the official year 1870-71, 835 operations were performed by them. Their work being limited to—

(1.) Kistnagherry.—Co-ordinate with the limits of the talook.

(2.) The Poliputs.—The Polliums of Thullagherry, Berike, and Bagalor in the Oossoor Talook.

(3.) Denkenicottah.—The Denkenicottah Division of the Oossoor Talook.

23. Mr. Price suggested that the Sub-Collector and Tahsildar should have a considerable voice in the management of these Vaccinators, as the representatives both of the persons who raised the fund, as well as being the officials who best know in what quarter vaccination is needed, and who can, owing to their being on the spot, and having greater local knowledge than the Superintendent of Vaccination can possibly have, ascertain more satisfactorily, more than any one else, whether the Vaccinators really work or not. To this view I could not agree—a divided authority was sure to clash—and I suggested that either the Sub-Collector and Tahsildar should have the entire management and control of the Vaccinators, submitting the usual returns to this office, or that the Vaccinators should be left entirely under the control and management of this department. The Sub-Collector has decided to retain the management and control in his own hands, to which proposal I had no objection to offer; but I fear that Mr. Price's successors may not take that interest which he has done, and it may be left to the native subordinates, who, from carelessness or want of attention, may allow the work to flag, and even bring it into disrepute by improper work, and thus destroy the confidence of the people in vaccination.

24. On the maintenance of a due supply of fresh vaccine lymph for arm-to-arm work greatly depends the success of this department; but the difficulties of procuring a supply in the most favored districts is

increasing daily, and failure of lymph will put a stop to the work of the whole department whether it be to work from arm to arm with fresh lymph, or to preserve it for the same purpose; so that it will soon become imperative that some legislative enactment be instituted to compel those who take advantage of vaccination to permit the extraction of vaccine lymph, so that the same blessings in which they participated should be freely propagated to others.

25. Attempts were made to try to do without the issue of batta to mothers, to permit their children to follow the Vaccinator for the purpose of furnishing vaccine lymph for arm-to-arm operation, and, although in some districts work has been carried on without batta, the difficulties are so great, and so much time is lost in endeavours to induce mothers to follow the Vaccinator, that batta will have to be paid for the future in most, if not all, the districts in this Presidency. During the year under notice batta has only been paid in four districts, and the amount so paid ranged from 6 annas to Rupees 14-8-0, and the total sum paid for batta during the year amounted to Rupees 19-9-1.

26. We are endeavouring to encourage private vaccination as much as possible, by encouraging some of the old Vaccinators to take up the work and receive such remuneration as the people may be induced to give of their own free will. At present there are seven Vaccinators registered as Private Practitioners, to whom, after due practical instructions, certificates to practise have been issued from this office. The work performed by private Vaccinators during the year under notice was 5,213; the work of these men is at all times open to the inspection of the Superintendent of Vaccination of the District, and they are always furnished with fresh vaccine lymph when sought for, and such moral support as we can is freely given to enable them to carry on their operations as Private Practitioners.

27. I shall now review the reports of my Assistants, the Superintendents of Vaccination in the several districts, and instead of giving, as hitherto, extracts from their reports separately, will, in my review, notice any facts deserving attention.

1.—BELLARY DISTRICT.

I have not been able to inspect this district. Small-pox is reported to have prevailed in some of the villages of the Bellary, Hindoopoor, Madakasira, Anantapore, and Tadputri Talooks, but no returns of mortality were received. The Superintendent complains that since the posting of the Vaccinators to the several talooks the scriptory work of his office has greatly increased, as the Vaccinators find it difficult to

conduct vaccination singly in the talooks, and are constantly writing for instructions, and thus, from the necessity of replying to these repeated communications, his work is much interfered with. This complaint is general among the Superintendents. The conduct of the staff was, on the whole, good; but the want of efficient assistance from the Native Officials is complained of; as also the expense incurred by the conveyance of records, stationery, &c., during tours of inspection, for which no allowance is made. An increase of 1,550 operations is reported over that of the previous year.

2.—CHINGLEPUT.

I have not inspected this district. The Superintendent was ordered to meet me in the Ponari Talook; but, having misunderstood the orders, he failed to do so. I inspected the work of the Vaccinator of the talook only, and was well satisfied with all I saw in the village of Goomoodypundy. The Superintendent reports a decrease of 987 operations, which he accounts for by the dispersion of the Vaccinators over the different talooks, and the staff found considerable difficulties, which can only be gradually overcome. In the vicinity of Poonamallee the people object to vaccination, and even assaulted the Vaccinators when out at work They were subsequently prosecuted before a Magistrate, when they were convicted and punished. The staff has not been complete; their conduct was good.

3.—COIMBATORE DISTRICT.

I visited the Coimbatore District on the 20th December 1870, and the Superintendent of Vaccination met me at the Pothanore Station, where I examined his records, and was fully satisfied with all I saw. As it was not feasible to see the Vaccinators, from their being located in the several talooks scattered over the district, I went the next day to the town of Coimbatore, and saw some of the vaccine lymph in use; I also made several suggestions to the Civil Surgeon for the improvement of the Municipal Vaccinators' work. There is a decrease of 2,463 operations in this district, which the Superintendent accounts for by the scattering of the Vaccinators to the different talooks, and the withdrawal of three Vaccinators for emergent work in the South Canara District for the last four months of the year under review. On the whole the staff conducted themselves well, though one 1st-class Vaccinator had to be degraded to the 2nd class, and some were fined

for carelessness, &c. The Superintendent was seriously ill at the close of the year from disease contracted in the discharge of his duties, and was not expected to recover.

4.—CUDDAPAH DISTRICT.

I had no opportunity to visit this district during the past year. There has been a trifling increase of 404 operations over that of the previous year, and the Superintendent believes that had the old system continued in operation, a larger amount of work would have been shown. There has been much sickness among the staff. The Superintendent further observes that, while the Vaccinators worked together, they experienced many obstacles and interruptions, and that, consequently, the persuations of a single Vaccinator could scarcely be expected to be more effective than that of the whole staff. There was no small-pox in the district, but cholera prevailed to some extent during the year. The Superintendent remarks that from personal observation he finds that almost all the village officials are unvaccinated, and this he believes to be the chief reason for their not co-operating with the Vaccinators in their work, besides setting a bad example to the people at large. He then suggests that village servants in Government employ should be required to produce certificates of vaccination prior to their being entertained in the service, similar to other Uncovenanted Civil Servants. The lymph in use was good and effective throughout the year; the character of the staff was also good; and no money was paid as batta to mothers for supplying vaccine lymph.

5.—GANJAM DISTRICT.

I visited this district in July 1870. Having left Madras by one of the coasting steamers on the 19th, I landed at Gopaulpore on the 23rd where I was received by the Superintendent of the district, and pr[illegible] with him to Berhampore the same evening. On the 25th I inspected the [illegible]accinators of the district. The Superintendent of Vaccination of Ganjam was new to the district, having joined on the 1st June 1870. His pre[illegible]cessor was dismissed from the department. During suspension and dismissa[illegible] of the one, and the joining of the other Superintendent, the Vaccinators [illegible] idle, and allowed the working lymph to fail, for which neglect two of the senior Vaccinators were degraded to the 2nd class, and most of the o[illegible] fined, in various

small sums. The Superintendent was now directed to distribute the Vaccinators to the several talooks, and to be prepared to accompany me through the district. On the night of the 28th we left Berhampore and marched on to Chicacole, visiting Kimedy and several of the other Zemindaries on our way. I inspected most of the Government Vaccinators and their work with the lymph in use. We reached Chicacole on the 7th August. Vaccination is extremely backward in the Ganjam District, and small-pox inoculation is much in vogue. At the village of Cassibogah I observed that every individual above five years of age had marks of small-pox inoculation on their forearms; there were above 200 individuals, both old and young, that I inspected. The people were very obstinate and greatly averse to vaccination, notwithstanding which we managed to vaccinate six young subjects in the village, and proceeded on to Chicacole. Here I inspected the lymph in use with the Municipal Vaccinator, and found it good; and, having issued final instructions to the Superintendent, I entered the Vizagapatam District on the 10th August. Inclusive of Government, Municipal, and Zemindary there are thirty-seven Vaccinators under the orders of the Superintendent. There is a decrease of 1,542 operations below that of the previous year, which the Superintendent accounts for chiefly from the difficulty in obtaining arm lymph, as the subjects refuse to allow lymph to be taken from them, as well as to the difficulty in procuring fresh subjects at the proper time. Owing to these causes, the lymph in use failed on more than one occasion, and was renewed with great difficulty. The practice of small-pox inoculation is also inimical to vaccination. For about five months the staff of Vaccinators was not complete, and there were four vacancies, caused by transfer, resignation, &c. Under the present system of a Vaccinator to each taluk, the work progresses badly: knowing, as most of the people do, that vaccination is optional, and that the best way to avoid it is by repeated evasions, it is very discouraging to observe the persistent and impertinent duplicity, which directs the Vaccinator to come at a certain time, but only to be laughed at and deluded with false hopes of undergoing the operation on some future and more convenient occasion. The consequence is that the ready arm lymph fails, for the preserved lymph does not always prove satisfactory. This is not to be condoned as the offsprings of ignorance and superstition, for the people are aware of the benefits of vaccination, at least the majority are, and it is painful to observe that careless procrastination and even apathy, which postpones the operation till they become victims to small-pox.

Hill Tracts of Ganjam.

I inspected the staff of the Hill Tracts at Ganjam. The Superintendent is new to the work; he came up with me from Madras to fill the

vacancy caused by the death of the late Officiating Superintendent, and I started the staff for the Hill Tracts; their head-quarters is to be at Russulcondah, and they will take the field with the Assistant Agent and work among the Hill Tribes. The previous Superintendent died of fever contracted on the hills, and although he only officiated as Superintendent, he conducted the duties satisfactorily. There is a decrease of 1,157 operations, accounted for by the sickness among the staff, and that the population is scattered and small also, as the people are somewhat wild and uncivilized, it requires much time and patience to overcome their prejudices, and prevent them fleeing into the jungles with their little ones.

6.—GODAVERY DISTRICT.

I entered this district at Tuni on the 20th August 1870, where the Superintendent joined me, and we marched on to Coconada, where I inspected some of the Vaccinators and their work, and reached Rajahmundry on the 27th. From there, I went out eighteen miles into the interior to see the Vaccinators work and examine the lymph in use. I then returned to Rajahmundry and inspected the records, &c., of the Superintendent, and on the 30th I left for Ellore and arranged for work on the next day. On the 1st September I went out to a village, eight miles distant, where I inspected the vaccine lymph in use with the Vaccinator of the talook, and, finding both work and lymph bad, I degraded him from the 1st to the 2nd class. The Superintendent was not well, and at the time of my visit he was an invalid, suffering from fever and rheumatism. There is an increase of 1,813 operations in this district during the year under notice. There has been some sickness in the staff; two Vaccinators died, one from fever and the other from cholera, one Vaccinator resigned refunding one half of the salary he received. Cholera and fever prevailed epidemically in the district and interfered greatly with the working of the Vaccinators during the months of April, May, June, and July.

7.—KISTNA DISTRICT.

I entered this district from Ellore proceeding by canal to Bezwarrah, which I reached on the 3rd September; and, after examining the Vaccinator stationed there, I proceeded on to Masulipatam, which I reached on the 4th; inspected subjects with good eighth day vaccine vesicles and the Vaccinator's equipments. Started again on the 7th, *viâ* Bezwarrah, for Guntoor, after inspecting several lymph subjects with vaccine

vesicles and the registers and equipments of five Government and Zemindary Vaccinators at Bezwarrah. On the evening of the 9th I entered Guntoor, and the next morning I inspected the equipments and lymph in use with the Municipal Vaccinator. On the 11th I went to a village three miles from town, and examined the lymph in use with the Government Vaccinators, together with their equipments, and on the evening of the 12th I started for the village of Incole, where the Superintendent and a couple of Vaccinators joined me; but, as the country around was completely under water, it was with difficulty that we waded our way into Incole, and, as it was not feasible to go out to see the work, I transacted some office work with the Superintendent and left on the evening of the 12th for the Nellore District.

8.—KURNOOL.

I had not the opportunity of visiting this district during the year. The Superintendent reports a small increase of 355 operations over that of the previous year. In consequence of a complaint from the Collector, the previous Superintendent was removed to Ganjam, and the present one has since entered on his duties. The Superintendent, who had been removed, represented to this office that a Gomastah of a talook Cutcherry obstructed the Government Vaccinators in their work and used very obscene language to them, in consequence of which the Superintendent prosecuted the said Gomastah before a Sub-Magistrate, and had him convicted and fined one rupee. Whilst the case was under investigation, the Gomastah and his friends assembled together, and, in open Court, used insulting language to the Superintendent, and when the latter retaliated, a counter action was brought against the Superintendent, and every possible means was resorted to by the Gomastah and his friends to obtain a conviction. After an inquiry the charge was dismissed by the Magistrate. The Superintendent represented matters to this office, showing the difficulty he had to contend with, when his work was interrupted by the Government Subordinates themselves, and I brought the same to the notice of the Collector of the district. In reply to my representation, the Collector complained of the conduct of the Superintendent, calling him "hasty and hot-tempered," and that there was a private quarrel between the Superintendent and Gomastah, but that nothing like a conspiracy against vaccination can be shown. However, for departmental reasons, I thought it best to remove the Superintendent to another district. The Collector, in a subsequent representation to Government, complains of the conduct of the Superintendent for the backwardness of vaccination in the Kurnool District,

whereas I can testify from personal knowledge that Kurnool is the most backward district in the Presidency, and the late Deputy Superintendent, Mr. T. Ward, repeatedly brought to my notice the difficulties he had to contend with, and how he had left village after village without performing a single operation—*vide* Annual Report of Vaccination for 1866, page 72, Report for 1867, page 71, and Superintendent Meer Muzzerally's Report for 1868, page 51. These reports prove at once the difficulties met with in regard to vaccination in the Kurnool District, and every allowance must be made for the unavoidable backwardness when insurmountable difficulties are placed in their way by the rude inhabitants of the rural districts, who are ready to assault the Vaccinators if the subject is pressed on them. Six such cases of assault against the Vaccinators were successfully prosecuted during 1868. The Superintendent complained of was apparently in constant communication with the Collector of the district, from whom he obtained a certificate (testimonial) on leaving the district, and it was only after my report to the Collector, complaining of the conduct of the native officials, that the Collector represented the conduct of the Superintendent to be hasty and hot-tempered, and I consider it my duty to enter thus fully into the matter, and exonerate an intelligent and well-behaved young man from the sweeping charge made against him to relieve the native officials from blame.

9.—MADRAS.

I have repeatedly been out with the Superintendent of Vaccination and staff in the town and suburbs of Madras, and I regret to state that much opposition exists both in the town and parcherries around Madras, and I would here especially name Thondiarapett and Cassimoda Coopum. These places are filled with unprotected subjects, who refuse to have anything to do with vaccination, and are extremely rude and abusive towards the Vaccinators. I paid several visits to these localities without being able to do much, for the people will neither converse nor listen to anything we have to say on the subject. Small-pox has been prevalent, to some extent, during the year under notice, and on the receipt of the weekly Mortuary Reports from the Municipal Sanitary Inspector, showing the localities in which deaths from small-pox have occurred, the staff are immediately sent to the locality to vaccinate as many of the unprotected as possible, and thus limit the spread of the disease. However, in many instances, even the educated carelessly procrastinate till they are actually overtaken by small-pox itself, when they regret their apathy, and prove in the main rather wholesome examples to the others, who, after the example they

have witnessed, often come forward to undergo the operation. There is a decrease of 908 operations when contrasted with that of the previous year, and the work is anything but satisfactory as to the numbers operated on when compared with the population; but all that the staff can legitimately do, in urging the operation from street to street and door to door, is strictly carried out.

Vaccine Depôt, Madras.

At this institution also there is a small decrease of 976 operations, and the work is entirely dependent on the abundance or scarcity of grain. If the season be bad and rice scarce, the batta offers a tempting bribe to the indigent, whereas, on the contrary, if rice be abundant, they postpone the operation for a more convenient season. 863 mercalls and three seers of rice were expended as batta, amounting to Rupees 1,092-15-9. The daily average of the issue of rice was made to nine persons, and the daily average of operations was a fraction over nine. 166 capillary tubes, three glass-plates, and nine ivory points charged with fresh vaccine lymph were supplied by this institution, besides 106 scabs and thirty-seven subjects sent out to Medical and other Officers. 670 certificates were granted to vaccinated candidates, who appeared for the Uncovenanted Civil Service Examination. The conduct of the staff on the whole was not satisfactory, and the Superintendent reverts immediately to the Medical Department, to which his services have been transferred.

10.—MADURA.

I have not been able to visit this district during the year. The Superintendent shows a large increase of 2,875 operations over that of the previous year. He complains of the backwardness of vaccination in the Pulney Talook, and also to some slight extent of other parts of the district. Many of the Nattamgars, from official pressure, recommend vaccination to others, but seldom resort to the operation themselves, or introduce it among their own household. The Superintendent suggests that a vaccination certificate should be required of all village officials. Unfortunately no such certificates are required from candidates for the Matriculation Examination of the Madras University, and as such under-graduates are eligible for Government employ, no vaccination certificate is solicited from them. The exertions of the Superintendent have done much good, yet he himself admits that the proportion of persons protected by vaccination is very small indeed when compared with the numbers that are unprotected, and there is nothing to prevent an extensive spread of small-pox, if the fell disease

should happen to appear among them. Small-pox prevailed to some extent in Madura and other villages, and Vaccinators were at once despatched to those localities to stamp out the disease. Among the staff there have been some changes, and one Vaccinator fell a victim to cholera. The conduct of the staff has been good, and lymph in use with them is also good. The Superintendent, who was but officiating, has been confirmed in his appointment.

11.—MALABAR.

I visited the Malabar District in January 1871. The Superintendent of Vaccination joined me at Shoranore on the 7th January, and we proceeded to Calicut, where we arrived the same evening. On the 8th I examined some good cases of vaccine lymph exhibited by one of the Vaccinators, and three fresh subjects were vaccinated; on the evening of the 10th I proceeded to Buddagera, where a Vaccinator was to meet me the next morning. The Vaccinator having duly presented himself, I examined his register and equipments, and at the last moment was disappointed in getting bearers to go some distance into the interior to inspect the lymph in use, and under these circumstances I went on to Tellicherry, where I arrived on the 12th; saw the Municipal Vaccinator, who had no working lymph to show me, and in the forenoon the Government Vaccinator presented himself. I examined his equipments and five subjects with excellent vaccine vesicles, then visited the officials, and afterwards left by steamer for Mangalore on the forenoon of the 15th. The Superintendent shows a small decrease of 559 operations, accounted for from changes among the staff, and in the withdrawal of three Vaccinators for emergent work in South Canara for three months. The Superintendent reports the existence of caste prejudices in many parts, and some few cases of small-pox are said to have appeared in some parts of the district.

12.—NELLORE.

The Superintendent of Vaccination of this district met me at Nagoolapaud as I entered it from the Kistna District on the 14th September 1870; but the weather was so wet, and the country under water, that no work could be done, so we proceeded on at once to Ongole, where the Superintendent arrived at 2 P.M., and we arranged for work for the next day. I examined a number of vaccine vesicles, and finding the work badly done, I reprimanded the Vaccinator. On the

15th I examined other subjects, and three others were operated on in my presence. I then left for Ramapatam on the 15th, and arrived there the same evening, where I was met by a couple of Vaccinators, with whom I arranged for work for the next day. The 17th was a rainy morning, so I examined the equipments and registers and a few subjects on whom they had operated. These operations were bad and carelessly done, I fined the senior Vaccinator, and left in the evening for Nellore, where I arrived on the morning of the 19th and was engaged with office work. On the 20th I went out to an adjacent village four miles from Nellore, and inspected a large number of subjects with excellent vaccine vesicles in various stages of progress; the Vaccinators then operated on several subjects in my presence, when I returned to Nellore, and left again that evening for Sooloorpett, where I arrived on the evening of the 22nd instant. Here two Vaccinators met me, and I inspected the lymph in use, and had two subjects operated on in my presence. I next examined their equipments and register, and then left the district. The Superintendent reports a large decrease of 5,119 operations, which can only be accounted for by the dispersion of the Vaccinators to the different talooks; in fact, for a time, the work was at a stand still, as the Vaccinators could not singly persuade the people to accept vaccination or furnish arm lymph. Small-pox prevailed to some extent in different parts of the district, and the people were averse to receive vaccination during the prevalence of the disease.

13.—NORTH ARCOT.

I have not visited this district during the official year, but inspected them in February 1870. The Superintendent reports a large decrease of 8,829 operations, which he attributes, chiefly, to the dispersion of the Vaccinators in the different talooks and the prevalence of much fever and cholera in the district during the year under notice. The vaccine lymph in the district is good. Twenty vaccination certificates were granted by the Superintendent to candidates going up to the Uncovenanted Civil Service Examination. Vaccinators were sent out to localities where small-pox prevailed, and every exertion was made by the staff to spread the benefits of vaccination in the district.

14.—SALEM.

I visited this district on the 15th December 1870, and again in March 1871, when the records were inspected. I went to Sunkerydroog,

Trichengode, and Macdonald's Choultry to inspect the working lymph, which I found good. The Superintendent reports a decrease of 2,344 operations, which is accounted for by the withdrawal of three Vaccinators for emergent work in South Canara and changes arising from misconduct among the staff. One Vaccinator died and two were dismissed for bad conduct, another resigned by refunding half his salary. Much sickness, in the way of cholera, prevailed in this district, interfering greatly with the work of the Vaccinators. These various causes satisfactorily account for the decrease shown in the returns. The Superintendent, also, reports much dissatisfaction among the Vaccinators, owing to the smallness of their salaries and the difficulties they have to contend with, from the dearness of provisions, and the cost of travelling constantly. Much discontent exists among them on this account.

15.—SOUTH ARCOT.

I have been unable to visit this district during the year. The Superintendent reports a small decrease of 645 operations, which he accounts for from the changes among the staff, by the promotion of some, and the entertainment of new members who take some time to settle down to work. One Vaccinator was dismissed for bad conduct and persistent disobedience of the orders of his superior. The Superintendent complains of the difficulty to secure arm lymph, as the people steadily refuse to allow lymph to be taken from the arms of their children, and both rich and poor are very determined, the former by their arrogant bearing and stout denial, and the latter by equivocations and concealment of their children. To some slight extent sickness, in the form of fever and cholera, interfered with the work of the Vaccinators. Small-pox partially prevailed in the district during the year, and a mortality of 1,065 deaths are reported from this cause. The Superintendent remarks that wherever small-pox prevailed the *Komari* or epizootic aptha (foot and mouth disease) also prevailed at the same time among cattle, and he has been confounding this disease with genuine cattle-pox, believing that men and animals suffered from the same, the one taking it from the other. From the confusion of names, false alarms of small-pox were often given, when the disease was chicken-pox, and deaths from measles are also confounded with small-pox in most districts. After holding a consultation with some of the wealthiest and most influential Natives of the district, the Superintendent believes that vaccination will not succeed, except it be made compulsory. The lymph in use is reported good, and the conduct of the staff satisfactory.

16.—SOUTH ARCOT.

I landed at Mangalore on the 17th January 1871, and, on my arrival, was met by the Superintendent of Vaccination, with whom I immediately arranged for work. Small-pox had been prevalent in this district for some time, and in consequence of a representation from the Collector, some Vaccinators from Salem, Coimbatore, and Malabar were transferred for temporary employment, so as to meet this emergency, and, in this manner, the staff of Vaccinators was double the ordinary complement allotted to this district, as Vaccinators were sent to all the infected villages to vaccinate as many of the unprotected as possible. I had been in frequent communication with the Collector, Zillah Surgeon, and Superintendent of the District during my stay of a fortnight in Mangalore, and also visited, with the staff of Vaccinators, as many parts of the town as were infected. I quitted Mangalore on the 2nd February and took the Mercara route, visiting both the villages through which I passed, and some of the adjacent ones, in examining the lymph in use and inducing the unprotected to get vaccinated. During my stay in the district, between the 17th January and 8th February 1871, I myself witnessed nearly a thousand operations carried out in my presence. The lymph in use is of the best quality, and the adult population generally show very fair evidence of vaccination from the marks on their arms. The Superintendent of Vaccination prefers the former plan of working the Vaccinators together, instead of the present one of assigning a Vaccinator to each talook, as in the latter case, there is no direct check on the work done by the Vaccinators in consequence of the distance of the Superintendent from them, which, of course, renders the Vaccinators careless and to work as they please. The people were averse to vaccination during the prevalence of the small-pox, and much trouble was experienced in overcoming their prejudices. The Superintendent details instances during the epidemic prevalence of small-pox where vaccinated subjects took the disease a few days after the operation, due to a previous exposure to the contagion, by which the disease had already been taken into the system, and was in a stage of incubation when the subject was vaccinated. Both small-pox and vaccination progressed together, and the Superintendent believes that vaccination did, to some extent, modify the disease, and helped to eliminate the poison from the system; in some rare instances when death supervened the cause was attributed to vaccination, and not to the small-pox poison, thus bringing the former into unmerited disrepute. Much opposition still exists in many parts of this district to vaccination, and where it is known the practice is optional, the people are still more determined.

17.—TANJORE.

I have not visited this district during the year under notice. The Superintendent shows a slight increase of 414 operations over that of the previous year. Small-pox, to some slight extent, prevailed in this district, chiefly among those who were opposed to the practice of vaccination, and the Superintendent suggests that the operation be made compulsory. The only ill-effects witnessed by vaccination were produced by ulcers at the seat of the vesicles, caused by the parents themselves applying ground Neem leaves and saffron to the vesicles. The lymph in use is reported to be good, the conduct of the staff satisfactory.

18.—TINNEVELLY.

I have not visited this district during the year. The Superintendent shows a large increase of 3,260 operations over that of the previous year, notwithstanding which, much opposition exists in many parts. The resistence, partly from ignorance, and partly from the example set by the more intelligent and well educated (who also refuse vaccination), is stubborn and often unmitigating. The Moraver Tribe, an ignorant class, urged by the Lubbays, a class of Mahomedans, offer a very determined resistence; but of late some good has been achieved by kindness and conciliation. Small-pox is reported to have prevailed in most parts of this district, but in the Talooks of Tenkassee and Tinnevelly it showed itself more as an epidemic and caused some mortality. Small-pox inoculation seems to be in practice. The vaccine lymph in use was good, and the Superintendent reports that much assistance had been received from the Revenue Officials, and he attributes the large increase to their assistance in the work. Three desertions occurred among the staff, and, with this exception, their conduct was fair.

19.—TRICHINOPOLY.

I have not visited this district. The Superintendent of Vaccination reports an increase of 2,012 operations over that of the previous year. He is in favor of the present plan of work of placing the Vaccinators out in the different talooks. The Superintendent states that the hindrance to the spread of vaccination exists among the people themselves from their indifference to its advantages, due, as he believes, to the absence of small-pox from the district for some years. Difficulties also arise

in procuring lymph for transfer, which forms a great feature in the success of operations. He was glad to observe that the Revenue Officials afforded their moral support in the cause of vaccination. There has been no changes among the staff, and their conduct is reported to be good.

20.—VIZAGAPATAM.

I entered this district from Ganjam on the 11th January 1870, and was joined by the Superintendent at Vizianagrum. I inspected a few Vaccinators comprising the staff of this district, the register and equipments of the Municipal Vaccinator, and also the lymph in use, which was excellent. On the 13th I left for Bimlipatam, where I inspected a couple of Zemindary Vaccinators and their equipments, as also the Municipal Vaccinator. I also examined three subjects that the Municipal Vaccinator had produced, and found that the vesicles were ill-formed, and had not the character of genuine vaccination. Leaving the same night, I entered Vizagapatam the next morning. On the 15th I visited the Jail and saw some excellent cases among the prisoners, the work of the Municipal Vaccinator. On the 16th I left Vizagapatam and arrived at Cossimcottah on the 17th, where the Superintendent joined me. Here I inspected several Government and Zemindary Vaccinators with their registers and equipments, went into the village in the evening, and saw twenty-eight subjects operated on by the staff. Leaving the same night I got to Nursapatam the next morning, where, in the course of the day, I examined over 100 subjects, chiefly among some of the Hill (Gudaba) Tribes in the vicinity, and also examined the lymph in use; saw the officials of the place, and left in the evening for Nuccapilly accompanied by the Superintendent. On the 19th I inspected the rest of the Government and Zemindary Vaccinators, and had a large number of subjects operated upon, as there happened to be a fair in the vicinity. Here the report of the death of a Vaccinator from one of the outposts was received; after giving the Superintendent the necessary instructions, I entered the Godavery District the next morning. The Superintendent shows a large decrease of 1,338 operations, for which he accounts by the great obstruction met with in many parts of the district, and in some places the Vaccinators were even assaulted while out at work. The Superintendent acknowledges much assistance from the several Sub-Magistrates of the district in the spread of vaccination. Small-pox prevailed in some of the Zemindary tracts, and steps were immediately taken to stamp out the disease by vaccinating the unprotected. The lymph in use has been excellent, and the conduct of the staff good.

JEYPORE PROVINCE.

On the 10th August 1871 I inspected the work and staff of this province, in the Zemindary village of Shairmahomedpooram, and was perfectly satisfied with the work, register, and equipments of the staff. The lymph was good, and the work was well and successfully executed. The Superintendent and staff accompanied me through several of the Zemindary Estates, and left me at Cassimcottah on the 17th August. The Superintendent reports a decrease of 1,162 operations, which is accounted for by the separation of the Zemindary work from that of the Province of Jeypore, the work in Jeypore itself being small, as the people are rude and uncivilized, and in many villages the women, at the sight of the Vaccinators, flee with their little ones to the hills and jungles. The climate also is inimical to the health of the inhabitants of the plains, in consequence of which, they are very loth to proceed to this province, thus leaving vaccination here in a very backward state. Small-pox prevailed in many parts of the district during the year under notice.

28. Owing to the severe outbreak of small-pox in the South Canara District the Government, on my application, were pleased to sanction the employment of twelve temporary Vaccinators additional to the staff in that district; but, as Vaccinators were already withdrawn emergently from other districts and sent to South Canara, the temporary Vaccinators were sent to Malabor, Coimbatore, and Salem to take the place of the men who were withdrawn from those districts. There has been a difficulty in securing eligible candidates, and some of those who were appointed resigned their posts after joining the districts; at an average there were nine temporary Vaccinators employed during the last quarter of the year under notice.

29. The estimate of the cost of the whole establishment has been Rupees 83,187.

The actual cost of the year, Rupees 73,011-5-2.

Recovered by fines from Superintendents, Rupees 130.

Recovered by fines from Vaccinators, Rupees 326-8-9.

Amount refunded on resignation of Vaccinators, Rupees 110-2-7.

Contingent expenses, Rupees 6,542-14-11.

Net cost of the establishment, deducting the above, Rupees 72,444-14-10.

MILITARY CANTONMENTS.

1.—BANGALORE.

In this cantonment two Vaccinators worked with some slight interruptions during the year; the work was interrupted owing to the desertion of one Vaccinator and the dismissal of another, and a third was sent to South Canara in consequence of an outbreak of small-pox in that district. Owing to this a small decrease of 243 operations is shown in the returns.

I have paid this cantonment about four visits during the year, and on each occasion making a stay of three to seven days, and during that time inspecting the Vaccinators, their equipments, registers, and work, and in going out into the bazaars and parcherries to verify work; one Vaccinator, detected with bad, careless work, was dismissed; the work is small from being confined to the Municipal limits.

2.—SECUNDERABAD.

No reports have been received from this cantonment; the returns show a decrease of 608 operations. There has been a change in the staff. The 2nd-class Vaccinator was promoted and the Senior Vaccinator was removed, and another 2nd-class Vaccinator appointed in his stead. These Vaccinators work under the orders of the Medical Officer in charge of the Civil Dispensary.

3.—KAMPTEE.

No reports received from this cantonment. Either a 2nd-class Vaccinator works under the orders of the Medical Officer in charge of the Civil Dispensary. There is a small decrease of eighteen operations shown in the returns.

The following table gives the particulars of work in these three cantonments—*Vide* Appendix Form No. II.

ZEMINDARIES.

There are thirty-six Zemindary and other landed proprietors of estates, who employ between them seventy Vaccinators for work on their

several domains under the supervision of this department, the particulars of which, as to the district in which they are situated, number of Vaccinators employed, total of operations, caste, sex, &c., is given in a tabular form—*Vide* Form No. III. in the Appendix. On comparison with the last report a small increase of 423 operations is shown by the returns. The work of the Zemindary Vaccinators is very unsatisfactory indeed, and is not amenable to control from the irregularity by which they are paid, and in many instances the Vaccinators do not receive the stipulated salary, and in others their salaries are in arrears for several months together, so that fines imposed have no effect as of [illegible] [illegible]. The work is irregular and the whole scheme unsatisfactory altogether both to the Superintendent who controls the work and to the Vaccinators themselves, leading to ceaseless representations to the Collector of the District and constant references to the proprietors of estates. I have had it in contemplation to suggest the employment of Government Vaccinators to these estates, and the Zemindars and proprietors of the several estates on which Vaccinators are so employed be required to pay in the equivalent of the Vaccinators' salaries to Government through the Collectors of the Districts, as is done when the Police are employed by Municipalities and others; but now, that the Local Fund Boards are about being established, all Zemindars and other proprietors of estates will contribute to the local funds, and they will no doubt be relieved of the charge of vaccination for the future, when Government Vaccinators will be employed and the Local Fund Board pay their salaries into Government.

CIVIL DISPENSARIES.

The only Civil Dispensary that employs Vaccinators now is in that of Cuddalore, where two Vaccinators are employed, one by the Parent and the other by the Branch Dispensary. The Parent Dispensary shows a large decrease of 170, whilst the Branch shows an increase of 121 over that of the previous year; on the whole the work is progressing satisfactorily. The particulars are tabulated in the Appendix—*Vide* Form No. IV.

MUNICIPALITIES.

There are thirty-five Municipalities in this Presidency who employ between them thirty-nine Vaccinators, and their work is confined within Municipal limits. The work on the whole is not satisfactory, considering that it does not extend beyond the limits of a few miles and the Vaccinators resident among the people, whilst the inhabitants of towns containing Municipal Associations are, on the whole, believed to be more enlightened and intelligent than the rural population, and yet vaccination makes but slow progress in these Municipal Towns. The particulars of Municipal work are given in a tabular form in the Appendix—*vide* Form No. V. The work is unsatisfactory, and arises from the want of proper supervision in most instances. I would beg to suggest that Government Vaccinators should occupy the different Municipalities, and work under the direct orders of the Civil Medical Officer, and the Municipalities credit Government with their salaries, when they would be paid at a uniform rate: at present salaries from 7 to 18 rupees a month are paid to Vaccinators, and this difference of pay leads to much heartburnings, generally among Vaccinators employed in the different Municipalities.

MADRAS RAILWAY.

Nine Returns were received from the Apothecaries of the Madras Railway through the Acting Consulting Physician J. Urquhart, Esq., M.D. They show a total of 28 operations, of which 21 proved successful, 5 unsuccessful, and two unknown, thus showing a per-centage success of 75. Eleven children under one year of age were vaccinated. The total shows a small increase of 18 operations over the previous year. The following comprise the caste and sex :—

	Males.	Females.
Europeans and East Indians	2	6
Hindus	7	9
Mahomedans	3	1
	12	16

Report on Vaccination by Medical Subordinates for the year 1870-71.

The number of operations performed by the Medical Subordinates during the year under report has been 15,304, showing an increase of 864 over the previous year. The per-centage of success has been 68·32. The largest number of operations is shown in the Southern, next follows in the Presidency and Northern Division, whilst the Pegu Division shows the smallest. The following Medical Subordinates show the largest number of operations. N. Govindarajooloo, No. 556, stands first: he gives 457 operations, of which 390 were successful; next to him

comes C. S. Ramaswamy, who shows a total of 455. There is still a great falling off in the work of the Medical Subordinates, and it does not come up to the work of former years :—

Rank and Names.	General No.	Stations.	Number vaccinated.	Successful.	Ratio Percentage of success.
2nd-class Hospl. Asst. N. Govindarajooloo.	556	Police Hospital, Cuddalore.	457	394	85·33
1st-class do. C. S. Ramaswamy..	327	Revenue Survey, Palamcottah. ...	455	392	86·15
3rd-class do. D. Bastian... ...	704	District Jail, Trichinopoly.	420	286	68·09
1st-class do. Appavoo	217	Jail, Chingleput ...	417	168	40·28
Apothecary R. Stewart	...	Collector's Department, Salem	375	334	89·06
1st-class Hospl. Asst. Bandah ...	251	Jail, Rajahmundry...	364	212	58·24
3rd-class do. I. Rajahgopaul ...	735	District Jail, Bellary.	338	68	20·11
Apothecary James Thomas...	...	Bangalore	264	176	66·66
3rd-class Hospl. Asst. G. Veeraswamy Moodelly	131	Civil Dispy., Shically.	198	126	63·64
2nd-class do. P. Venkatasawmy.	397	...	185	33	17·83
1st-class do. P. Perusaramoodoo.	151	Jail, Kurnool ...	185	73	39·45
2nd-class do. Narainsawmy ...	502	Civil Dispensary, Madura.	184	107	58·15
Do. do. Shaik Madar ...	639	31st Regiment, Burhampore	170	82	48·23
3rd-class do. D. Venkatasawmy..	918	Jail, Guntoor ...	166	102	61·44
2nd-class do. C. Rapu	447	Police Hospital, South Arcot.	144	115	79·91
1st-class do. Chuttersing ...	224	Civil Dispensary, Vellore.	142	115	80·98
2nd-class do. C. Rahmany ...	576	Jail, Calicut ...	139	80	57·55
Apothecary S. B Kemph	...	Police, Russulcondah.	132	70	53·03
2nd-class Hospl. Asst. Teroomaliah Naidu.	461	Civil Dispensary, Combaconum.	110	96	87·27
Hospl. Asst. Vurdarajooloo...	...	Jail, Chittoor ...	106	88	83·01
3rd-class Hospl. Asst. F. Ambrose ...	740	39th Regiment, N.I., French Rocks.	106	96	90·56
Do. do. P. Ponumbiam	783	Police Hospital, Mangalore.	104	77	74·03

JOHN SHORTT, M.D., Surgeon,
Supt.-General of Vaccination,
Madras Presidency.

APPENDIX.

FORM

Districts.	Superintendents.	No. of Vaccinators.	Area.	Population.	Total of Operations. Males.	Total of Operations. Females.
1	2	3	4	5	6	
Madras Collectorate.	Loganatha Paroo maul Doss	11	27	450,000	2,498	2,078
Vaccine Depôt ...		1			1,332	2,164
Chingleput District.	Goolam Mowlah ...	12	2,786	804,283	3,586	2,729
North Arcot ...	C. Seetharamiah ...	10	3,959	1,181,807	3,327	2,713
South Arcot ...	M. Ramasawmy ...	9	4,779	1,222,803	7,980	6,439
Trichinopoly ...	Mr. E. J. Good ...	11	3,565	1,006,826	5,436	4,244
Tanjore	C. Aroomooga Chetty.	11	3,735	1,731,703	7,655	6,870
Madura	M. Aroomoogum Pillay.	12	4,882	1,146,711	7,475	6,327
Tinnevelly	O. Cundasawmy ...	9	3,810	1,518,489	7,084	5,027
Cuddapah	Ramalingum Pillay...	11	9,177	1,144,757	2,287	1,950
Kurnool	V. Durmalingum ...	11	7,470	770,857	1,475	1,121
Bellary	B. Puttaby	15	11,351	1,291,932	6,095	5,625
Salem	Syed Abdool Azis ...	11	7,605	1,619,233	3,825	3,516
Coimbatore ...	J. Ramiah ...	12	8,470	1,430,738	5,455	5,172
Malabar	Ponnoosawmy ...	11	6,360	1,856,378	7,366	1,451
South Canara ...	P. A. Mausillaw Pillay	11	4,206	893,688	13,127	8,950
Nellore	Mr. A. Stewart ...	10	4,546	755,395	4,537	4,133
Kistna	C. Singaravaloo ...	11	6,692	1,041,092	5,633	4,786
Godavery	K. Parthasarathy ...	11	6,720	1,222,339	6,599	4,817
Vizagapatam ...	F. Chinnasawmy ...	11	3,081	178,225	1,400	1,337
Jeypore Vizagapatam	N. Balasundrum ...	6	15,855	1,756,333	805	670
Ganjam	Meer Muzerally ...	12	1,941	504,074	869	735
Hill Tracts of Ganjam	T. Iyasawmy ...	8	2,246	731,716	851	526

FORM

Military Cantonments.	Officer in charge.	No. of Vaccinators.	Area.	Population.	Total Operations. Males.	Total Operations. Females.
Bangalore ...	Supt. of Vaccination, Salem District.	2	...	...	793	470
Secunderabad ...	Medical Officer in charge of Civil Dispensary.	2	...	...	1,087	579
Kamptee ...	Do.	1	...	...	321	258

No. I.

Caste. Europeans and East Indians.	Caste. Hindus.	Caste. Mahomedans.	Under one year of age. Males.	Under one year of age. Females.	Per-centage of Success.	Cost of Establishment. Rs.	A.	P.	Value of each Successful Operation. Rs.	A.	P.
7			8		9	10			11		
237	3,969	370	344	294	69·54	2,291	13	7	0	8	3
83	3,327	86	224	239	95·76	1,591	15	5	0	7	3
94	5,963	258	285	241	97·56	2,377	4	10	0	6	2
25	5,056	959	370	300	94·76	2,298	9	11	0	6	5
338	13,545	536	511	468	92·78	2,307	10	10	0	2	9
...	9,587	93	822	835	96·52	2,524	0	0	0	4	3
10	14,090	425	768	786	58·53	2,504	12	9	0	3	1
646	12,823	333	1,288	1,222	93·21	2,522	11	2	0	3	1
1	11,937	173	579	527	93·02	2,237	1	6	0	3	2
1	3,775	463	136	132	88·25	2,423	12	7	0	11	2
9	2,210	377	174	171	87·86	1,994	14	7	0	13	11
17	1,004	10,699	1,673	1,716	89·29	3,832	7	6	0	5	10
11	6,741	549	638	584	93·46	2,511	10	3	0	5	10
31	10,372	224	829	821	89·60	2,906	9	8	0	4	10
45	6,424	2,348	14	13	86·44	1,988	0	7	0	4	2
1,563	15,723	4,791	475	392	92·23	2,542	2	11	0	1	11
100	8,251	319	376	336	91·24	2,313	9	0	0	4	8
1	9,574	794	658	640	91·002	2,440	5	2	0	4	1
·8	11,306	102	547	399	80·62	2,301	11	8	0	4	0
25	2,673	39	89	80	92·83	2,399	11	0	0	15	2
...	1,475	...	69	54	88·54	2,988	9	11	2	4	7
5	1,586	13	47	47	63·34	2,411	6	0	2	5	11
4	1,341	32	30	23	89·63	2,414	0	0	1	15	5

No. II.

Caste. Europeans.	Caste. Hindus.	Caste. Mahomedans.	Under one year of age. Males.	Under one year of age. Females.	Per-centage of Success.	Cost of Establishment. Rs.	A.	P.	Value of each Successful Operation. Rs.	A.	P.
94	1,020	149	160	139	90·81	333	13	9	0	4	7
15	1,460	191	529	300	82·65	336	0	0	0	3	10
11	353	215	191	149	84·97	120	0	0	0	3	10

FORM No. III.

Districts.	Names of Zemindaries or other Estates.	Name of Proprietor.	No. of Vaccinators.	Area.	Population.	Total of Operations. Males.	Total of Operations. Females.	Caste. Europeans.	Caste. Hindus.	Caste. Mahomedans.	Under One Year of Age. Males.	Under One Year of Age. Females.	Per-centage of Success.	Cost of Establishment. Rs.	A.	P.	Value of each Successful Operation. Rs.	A.	P.
Ganjam	...	...	25	...	...	4,844	4,184	...	9,024	4	281	...	93·62	2,524	0	0	0	4	10
Vizagapatam ...	...	...	28	...	...	4,028	3,293	39	7,243	39	450	...	87·07	2,635	12	0	0	0	9
Godavery	Pittapore	...	2	...	...	500	298	3	885	...	...	...	75·67	274	3	0	0	0	6
Kistna	Nuzeed	...	2	...	...	442	389	...	808	23	98	...	72·8	235	0	0	0	0	2
Nellore	Venketagherry ...	...	1	...	...	333	299	...	580	52	54	...	96·51	120	0	0	0	8	2
North Arcot	Poonganoor ...	...	1	...	...	216	180	...	336	10	29	...	97·94	280	1	0	0	4	6
	Karvettigur ...	...	1	...	...	259	231	...	484	6	67								
	Bungaroopalim ...	...	1	...	...	108	76	5	172	7	8								
Madura ...	Ramnad	...	3	...	...	2,364	2,108	...	4,307	165	704	...	96·62	360	0	0	0	1	4
	Shevagunga ...	...	3	...	...	1,168	928	...	2,004	92	625	...	84·72	456	0	0	0	5	8
Tanjore	Poodoocottah ...	...	3	...	...	1,101	1,100	2	2,155	44	295	...	86·68	456	0	0	0	3	10

FORM No. IV.

District.	Name of Civil Dispensary.	No. of Vaccinators.	Area.	Population.	Total of Operations.	Success.	Per-centage of Success.	Cost of Establishment. Rs.	A.	P.	Value of each Successful Operation. Rs.	A.	P.
South Arcot	Cuddalore	1	...	1,259,784	420	420	100	...	...	...	...	...	...
	Old Town, Cuddalore	1	...	37,000	215	185	86·04	...	...	...	...	...	...

FORM No. V.

District.	Municipality.	No. of Vaccinators.	Area.	Population.	Total of Operations.	Success.	Per-centage of Success.	Cost of Establishment. Rs.	A.	P.	Value of each Successful Operation. Rs.	A.	P.
Ganjam ...	Berhampore	1	...	...	174	167	95·97	105	2	7	0	10	0
	Bimlipatam	1	...	...	84	59	70·23	171	3	7	2	14	5
Malabar ...	Calicut	1	...	...	757	588	77·67	100	7	0	0	2	10
	Palghaut	1	...	...	923	881	95·44	120	0	0	0	2	2
Bellary	Bellary	2	...	...	1,078	982	91·09	250	0	0	0	3	11
Coimbatore ...	Coimbatore	1	...	...	1,068	951	89·04	144	0	0	0	2	5
Malabar	Cochin	1	...	...	525	269	51·23	120	0	0	0	7	2
Ganjam	Chicacole	1	...	...	179	126	70·39	114	0	0	1	2	3
Cuddapah	Cuddapah	1	...	...	258	180	69·76	120	0	0	0	10	8
Kistna	Guntoor	1	...	...	239	160	66·94	117	13	8	0	11	9
Madura	Dindigul	1	...	...	1,304	1,186	90·95	85	6	0	0	1	2
Bellary	Anantapore	1	...	...	102	97	95·09	74	5	4	0	12	3
Chingleput ...	Conjeveeram... ...	1	...	...	693	426	61·47	154	8	0	0	6	2
Tanjore	Combaconum ...	1	...	...	848	727	85·73	123	2	6	0	2	5
Tinnevelly...	Tinnevelly	1	...	...	444	404	90·99	120	0	0	0	4	9
	Tuticorin	1	...	...	221	203	91·85	150	0	0	0	11	10
Tanjore ...	Mayaveram	1	...	...	479	479	100	131	12	0	0	4	5
	Tanjore	2	...	...	1,118	1,031	92·21	300	0	0	0	4	8
North Arcot ...	Walajahpett	1	...	...	141	138	97·87	78	0	0	0	0	0
Kurnool	Kurnool	1	...	...	193	152	78·75	120	0	0	0	12	8
Tanjore	Negapatam	1	...	...	670	599	89·25	118	13	4	0		11

District.	Municipality.	No. of Vaccinators.	Area.	Population.	Total of Operations.	Success.	Per-centage of Success.	Cost of Establishment.			Value of each Successful Operation.		
								RS.	A.	P.	RS.	A.	P.
Vizagapatam	Vizagapatam...	2	...	...	243	203	83·53	250	0	0	1	3	8
	Vizianagram	1	...	...	381	356	93·43	110	0	0	0	4	11
Salem	Salem...	1	...	...	629	597	94·91	186	0	0	0	4	9
Bellary	Adoni...	1	...	...	969	931	96·07	133	10	8	0	3	2
Tinnevelly	Palamcottah	1	...	...	834	871	44·45	120	0	0	0	5	2
Tanjore	Mannargudy	1	...	...	513	490	95·71	120	0	0	0	3	11
Nellore	Nellore	1	...	...	1,155	1,102	95·40	162	7	5	0	2	4
North Arcot	Vellore	1	...	...	403	395	99·81	120	0	0	0	5	3
South Canara	Mangalore	1	...	...	789	630	79·84	163	13	4	0	4	2
Trichinopoly	Trichinopoly	2	...	...	1,336	1,065	79·71	307	4	0	0	4	1
Kistna	Masulipatam	1	...	...	843	715	86·00	162	2	0	0	3	5
Malabar	Cannanore	1	...	...	465	366	78·70	120	0	0	0	5	3
	Tellicherry	1	...	...	562	278	49·46	120	0	0	0	6	11
Madura	Madura	1	...	...	2,316	2,232	95·98	216	0	0	0	1	7

Annual Return of Vaccination of the different Districts of the Madras Presidency for the first Quarter of the Calendar year 1870.

Districts.	UNDER ONE YEAR OF AGE.									
	Europeans and East Indians.		Natives.				Grand Total		Result of Operations.	
			Hindus.		Mahomedans.					
	M.	F.	M.	F.	M.	F	M.	F.	Successful.	Unsuccessful.
Madras Town	25	19	59	53	19	10	103	82	183	2
Madras District ...	15	12	67	59	2	1	84	72	147	9
South Arcot	...	...	202	171	7	5	209	176	350	35
North Arcot	2	1	106	96	1	2	109	99	208	...
Tanjore	1	...	248	248	18	25	267	273	534	6
Trichinopoly	...	...	173	172	...	1	173	173	329	17
Madura	...	...	409	368	28	12	437	380	742	75
Tinnevelly	...	...	129	125	1	...	130	125	245	10
Godavery	3	3	209	207	3	1	215	211	400	26
Kistna	...	...	242	231	19	18	261	249	466	44
Ganjam	...	...	4	1	...	...	4	1	5	...
Vizagapatam	2	1	85	80	1	3	88	84	167	5
Kurnool	...	...	71	73	14	19	85	92	117	60
Bellary	...	...	370	303	54	41	424	344	683	85
Cuddapah	...	1	41	38	11	11	52	50	95	7
Nellore	1	...	112	111	11	10	124	121	242	3
Coimbatore	1	...	137	158	4	3	142	161	269	34
Salem	...	1	178	184	17	22	195	207	373	29
Malabar	...	...	3	2	...	3	3	5	8	...
South Canara	1	...	5	11	11	5	17	16	32	1
Ganjam, Hill Tracts of Orissa.	...	...	14	19	...	...	14	19	27	6
Vizagapatam, Jeypore...	...	...	7	15	...	...	7	15	19	3
Total ...	51	38	2,871	2,725	221	192	3,143	2,955	5,641	457
Vaccine Depôt, Madras.	6	4	69	57	1	3	76	64	139	1
Cantonment, Bangalore.	7	10	25	24	6	5	38	39	72	5
Do. Secunderabad.	...	4	123	68	26	6	149	78	209	18
Do. Kamptee ...	2	...	42	27	17	25	61	52	111	2
Total ...	15	18	259	176	50	39	324	233	531	26
Grand Total ...	66	56	3,130	2,901	271	231	3,467	3,188	6,172	483

Annual Return of Vaccination of the different Districts of the Madras Presidency for the first Quarter of the Calendar year 1870.

Districts.	Above one year of age.									
	Europeans and East Indians.		Natives.				Grand Total.		Result of Operations.	
			Hindus.		Mahomedans.					
	M.	F.	M.	F.	M.	F.	M.	F.	Successful.	Unsuccessful.
Madras Town	25	23	401	290	42	26	468	339	789	18
Madras District ...	16	4	640	539	30	31	686	574	1,205	55
South Arcot	...	...	2,313	2,000	81	47	2,394	2,047	4,067	374
North Arcot	3	1	803	723	15	8	821	732	1,538	15
Tanjore	...	...	1,373	1,423	66	52	1,439	1,475	2,858	56
Trichinopoly	...	...	761	629	10	5	771	634	1,322	83
Madura	...	...	1,342	1,253	93	53	1,435	1,306	2,125	316
Tinnevelly	...	...	1,168	831	8	9	1,176	840	1,863	153
Godavery	5	2	1,124	1,173	53	27	1,182	1,202	2,074	310
Kistna....	...	...	1,726	1,713	158	120	1,884	1,833	3,434	283
Ganjam	...	...	149	157	...	...	149	157	289	67
Vizagapatam	2	1	679	689	3	6	684	696	1,331	49
Kurnool	1	...	221	188	43	35	265	223	327	161
Bellary	...	...	753	706	103	80	856	786	1,429	213
Cuddapah	...	...	766	633	55	59	821	694	1,342	173
Nellore	1	...	1,213	1,191	34	37	1,248	1,228	2,460	16
Coimbatore	...	...	1,058	1,025	39	34	1,097	1,059	1,329	327
Salem	4	1	672	644	93	56	769	701	1,341	129
Malabar	27	27	1,184	283	571	51	1,782	861	1,924	219
South Canara... ...	23	17	360	278	294	194	677	484	1,074	87
Ganjam, Hill Tracts of Orissa.	...	...	148	108	...	...	148	108	176	86
Vizagapatam, Jaypore.	...	...	172	187	...	...	172	187	335	24
Total ...	107	76	19,026	16,860	1,791	930	20,924	17,866	35,378	3,215
Vaccine Depôt, Madras	3	15	213	375	22	9	238	399	620	17
Cantonment Bangalore	5	5	162	45	21	6	188	56	230	14
Do. Secunderabad	2	1	130	66	22	7	154	74	208	20
Do. Kamptee ...	1	...	45	32	15	11	61	43	84	20
Total ...	11	21	550	518	80	33	641	572	1,142	71
Grand total ...	118	97	19,576	17,178	1,871	963	21,565	18,238	36,517	3,286

Annual Return of Vaccination of the different Districts of the Madras Presidency for the first Quarter of the Calendar year 1870.—(Continued.)

DISTRICTS.	General Total.					
	Europeans and East Indians.		Natives.			
			Hindus.		Mahomedans.	
	Males.	Females.	Males.	Females.	Males.	Females.
Madras Town ...	50	42	460	343	61	36
Madras District ...	21	16	707	598	32	32
South Arcot ...	...	...	2,515	2,171	88	52
North Arcot ...	5	2	909	819	16	10
Tanjore	1	...	1,621	1,671	84	77
Trichinopoly ...	...	...	934	801	10	6
Madura	...	...	1,751	1,621	121	65
Tinnevelly	...	...	1,297	956	9	9
Godavery	8	5	1,333	1,380	56	28
Kistna	...	...	1,968	1,944	177	138
Ganjam	...	...	153	158	...	...
Vizagapatam ...	4	2	764	769	4	9
Kurnool	1	...	292	261	57	54
Bellary	...	...	1,123	1,009	157	121
Cuddapah	...	1	807	673	66	70
Nellore	2	...	1,325	1,302	45	47
Coimbatore ...	1	...	1,195	1,183	43	37
Salem	4	2	950	828	110	78
Malabar	27	27	1,187	285	571	54
South Canara ...	24	17	365	284	305	199
Ganjam, Hill Tracts of Orissa	...	...	162	127	...	...
Vizagapatam, Jeypore	...	...	179	202	...	...
Total ...	158	114	21,897	19,385	2,012	1,122
Vaccine Depôt, Madras	9	19	282	432	23	12
Cantonment of Bangalore...	12	15	187	69	27	11
Do. Secunderabad	2	5	253	134	48	13
Do. Kamptee ...	3	...	87	59	32	36
Total ...	26	39	809	694	130	72
Grand Total ...	184	153	22,706	20,079	2,142	1,194

Annual Return of Vaccination of the different Districts of the Madras Presidency for the first Quarter of the Calendar year 1870.—(Continued.)

DISTRICTS.	GENERAL TOTAL.					
	All Classes.		Successful.	Unsuccessful.	General Total of Males and Females.	Ratio per cent. of Success.
	Males.	Females.				
Madras Town ...	571	421	972	20	992	96·875
Madras District ...	770	646	1,352	64	1,416	95·480
South Arcot ...	2,603	2,223	4,417	409	4,826	91·525
North Arcot ...	930	831	1,746	15	1,761	99·148
Tanjore	1,706	1,748	3,392	62	3,454	98·204
Trichinopoly ...	944	807	1,651	100	1,751	94·288
Madura	1,872	1,686	3,167	391	3,558	89·011
Tinnevelly ...	1,306	965	2,108	163	2,271	92·822
Godavery	1,397	1,413	2,474	336	2,810	88 042
Kistna	2,145	2,082	3,900	327	4,227	92·264
Ganjam	153	158	244	67	311	78·456
Vizagapatam ...	772	780	1,498	54	1,522	96·520
Kurnool	350	315	444	221	665	66·766
Bellary	1,280	1,130	2,112	298	2,410	87·634
Cuddapah... ...	873	744	1,437	180	1,617	88·868
Nellore	1,372	1,349	2,702	19	2,721	99·338
Coimbatore ...	1,239	1,220	2,098	361	2,459	85·319
Salem	964	908	1,714	158	1,872	91·559
Malabar	1,785	366	1,932	219	2,151	89·818
South Canara ...	694	500	1,106	88	1,194	92·629
Ganjam, Hill Tracts of Orissa ...	162	127	197	92	289	68·166
Vizagapatam, Jeypore	179	202	354	27	381	92·913
Total ...	24,067	20,621	41,016	3,672	44,688	91·783
Vaccine Depôt, Madras	314	463	759	18	777	97·683
Cantonment of Bangalore...	226	95	302	19	321	94·093
Do. Secunderabad	303	152	417	38	455	91·648
Do. Kamptee ...	122	95	195	22	217	89·861
Total ...	965	805	1,673	97	1,770	94·519
Grand Total ...	25,032	21,426	42,689	3,769	46,458	91·672

TABLE OF AGES.

Return of Vaccination, during the 1st Quarter of the Calendar year 1870, *showing the Number below and above one year of age.*

DISTRICTS.	AGE.		DIFFERENCE.		Total Number vaccinated
	Under one year.	Above one year.	Under.	Above.	
Madras Town	185	807	...	622	992
Madras District	156	1,260	...	1,104	1,416
South Arcot...	385	4,441	..	4,056	4,826
North Arcot...	208	1,553	...	1,345	1,761
Tanjore	540	2,914	...	2,374	3,454
Trichinopoly	346	1,405	...	1,059	1,751
Madura	817	2,741	...	1,924	3,558
Tinnevelly	255	2,016	...	1,761	2,271
Godavery	426	2,384	...	1,958	2,810
Kistna	510	3,717	...	3,207	4,227
Ganjam	5	306	...	301	311
Vizagapatam	172	1,380	...	1,208	1,552
Kurnool	177	488	...	311	665
Bellary	768	1,642	...	874	2,410
Cuddapah	102	1,515	...	1,413	1,617
Nellore	245	2,476	...	2,231	2,721
Coimbatore	303	2,156	...	1,853	2,459
Salem	402	1,470	...	1,068	1,872
Malabar	8	2,143	...	2,135	2,151
South Canara	33	1,161	...	1,128	1,194
Ganjam, Hill Tracts of Orissa	33	256	...	223	289
Vizagapatam, Jeypore ...	22	359	...	337	381
Total ...	6,098	38,590	...	32,492	44,688
Vaccine Depôt, Madras ...	140	637	...	497	777
Cantonment of Bangalore ...	77	244	...	167	321
Do. Secunderabad	227	228	...	1	455
Do. Kamptee ...	113	104	9	...	217
Total ...	557	1,213	9	665	1,770
Grand Total ...	6,655	39,803	9	33157	46,458

ABSTRACT.

Vaccine Districts	6,098	38,590	...	32,492	44,688
Vaccine Depôt	140	637	...	497	777
Three Military Cantonments.	417	576	9	168	993
Total ...	6,655	39,803	9	33,157	46,458

General Return of Vaccination by Medical Subordinates for the 1st Quarter of the Calendar year 1870.

Divisions and Forces.	Town.		Regiment.		Regimental Lines.		Regimental Bazars.		Bazars.		Cantonments.		Purchery.		Jails.		Villages.		Total.		Successful.	Unsuccessful.	General Total Males and Females.	Ratio Per-centage of Success.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.				
Presidency & Northern Division ...	747	214	41	24	...	...	...	...	...	...	...	...	...	...	93	6	...	...	871	244	785	330	1,115	70·4
Southern Division...	379	254	64	42	...	...	...	...	...	...	...	...	...	...	389	47	...	...	823	343	867	299	1,166	74·35
Mysore Division and Ceded Districts ...	40	6	139	67	...	...	...	...	...	...	...	...	...	...	358	15	...	...	487	88	394	281	675	56
Hyderabad Subsidiary Force... ...	53	36	75	41	...	...	...	...	...	...	24	21	...	...	...	...	...	...	152	98	177	72	249	71·08
Nagpore Force ...	...	...	184	134	...	...	...	...	...	...	...	...	...	...	...	...	...	...	184	134	246	72	318	77·35
Pegu Division ...	...	...	12	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	2	8	6	14	57·14
Burmah and Straits.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1,218	510	[illegible]	310	...	...	...	...	...	...	24	21	...	...	731	68	...	...	2,478	909	2,377	1,010	3,387	70·186

Statement exhibiting the Strength and Pay of the Present Establishment of the Vaccine Department and Expenditure incurred on account of Batta, &c., during the 1st Quarter of the Calendar year 1870.

How employed.	Number of each.					Salary per mensem of each Grade.		Amount of Salary drawn during the year.			Rice issued.					Batta.		
Attached to the following Districts.	Supt.-General.	District Supts.	1st-class Vaccinators.	2nd-class Vaccinators.	Poons.		RS.	RS.	A.	P.	Marcalls.	Seers.	Value.	A.	P.	RS.	A.	P.
Superintendent-General of Vaccine, Madras Presy	1	...	...	...	...	Supt.-General ...	1,360	4,080	0	0	...	...	...	...	...	...	...	...
Madras Town ...	...	1	4	7	3	District Supt. ...	70	573	8	0	181	8	240	15	2	...	...	...
						1st-class Vaccinator	18											
						2nd do. ...	10											
						Peon	7											
Vaccine Depôt ...						Sweeper	3½	126	8	0								
Madras District	...	1	4	6	...	District Supt. ...	70	565	2	8	...	...	...	...	...	0	14	0
						1st-class Vaccinator	18											
						2nd do.	10											
South Arcot	...	1	3	8	...	Do. ...		607	1	3	...	...	...	...	...	...	...	...
North Arcot	...	1	4	5	...	Do. ...		574	3	11	...	...	...	...	...	0	2	0
Tanjore	...	1	4	7	...	Do. ...		631	13	0	...	...	...	...	...	...	...	...
Trichinopoly	...	1	4	7	...	Do. ...		590	4	7	...	...	...	...	...	...	...	...
Madura	...	1	5	5	...	Do. ...		567	6	10	...	...	...	...	...	...	...	...
Tinnevelly	...	1	4	6	...	Do. ...		611	13	0	...	...	...	...	...	...	...	...
Godavery	...	1	4	7	...	Do. ...		521	0	0	...	...	...	...	...	...	...	...
Kistna	...	1	4	7	...	Do. ...		586	5	8	...	...	...	...	...	...	...	...
Ganjam	...	1	4	6	...	Do. ...		578	1	9	...	...	...	...	...	...	...	...
Vizagapatam	...	1	4	6	...	Do. ...		576	0	0	...	...	...	...	...	1	8	0

Statement exhibiting the Strength and Pay of the Present Establishment of the Vaccine Department, &c.—(Continued.)

How employed.	Number of each.					Salary per mensem of each Grade.	Amount of Salary drawn during the year.			Rice issued.					Batta.		
Attached to the following Districts.	Supt.-General.	District Supts.	1st-class Vaccinators.	2nd-class Vaccinators.	Peons.		RS.	A.	P.	Marcalls.	Seers.	Value. RS.	A.	P.	RS.	A.	P.
Kurnool	...	1	4	6	...	District Supt. ... RS. 70; 1st-class Vaccinator 18; 2nd do. ... 10	608	9	7	...	...	...	...	...	...	...	...
						2nd Do. ...	767	13	0	...	...	...	...	...	...	...	...
		1	6	8	...	Do. ...	565	8	3	...	...	...	...	...	...	...	...
Bellary	...	1	4	6	...	Do. ...	576	12	1	...	...	...	...	...	...	...	...
Cuddapah	...	1	4	6	...	Do. ...	735	15	3	...	...	...	...	...	...	...	...
Nellore	...	1	6	6	...	Do. ...	675	7	10	...	...	...	...	...	0	13	6
Coimbatore	...	1	5	7	...	Do. ...	433	0	9	...	...	...	...	...	3	14	10
Salem	...	1	4	6	...	Do. ...	634	12	0	...	...	...	...	...	...	...	...
Malabar	...	1	5	6	...	Do. ...	703	4	0	...	...	...	...	...	...	...	...
South Canara	...	1	6	...	...	Do. ...	909	12	0	...	...	...	...	...			
Ganjam, Hill Tracts of Orissa	...	1	6	...	...												
Vizagapatam, Jeypore ...	...																
Supt. of Vacc, Sub-Collectorate, Bellary, now in charge of Supt.-General's Office.	...	1	...	...	...	Superintendent ... 70	210	0	0	...	...	...	...	...	...	...	...
Military Cantonments.																	
Bangalore...	...	...	1	1	...	.....	83	8	0	...	...	...	...	...	...	...	...
Secunderabad	...	...	1	1	...	.....	84	0	0	...	...	...	...	...	...	...	...
Kamptee	...	...	...	1	...	.....	30	0	0	...	...	...	...	...	...	...	...
Total ...	1	23	100	131	3	.....	18,207	11	5	181	8	240	15	2	7	4	4

Miscellaneous Returns of Vaccination in the Madras Presidency for the 1st Quarter of the Calendar year 1870.

Zemindaries, Dispensaries, Municipalities, &c.	Under one year of age.									
	Europeans and East Indians.		Natives.				Total.		Results of Operations.	
			Hindus.		Mahomedans.					
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Successful.	Unsuccessful.
Private Vaccinators	...	...	12	11	2	2	14	13	27	...
Zemindaries.										
Ramnad	1	...	38	35	6	11	45	46	86	5
Shevagunga	...	...	26	29	2	...	28	29	52	5
Poonganoor	...	...	12	14	...	...	12	14	26	...
Bungaroopalim	...	...	1	1	...	...	1	1	2	...
Pittapoor	1	...	3	2	...	...	4	2	5	1
Nuzeed	...	...	1	2	...	...	1	2	1	2
Carvettinuggur	...	...	5	13	...	...	5	13	18	...
Vizagapatam	2	1	93	88	1	1	96	90	167	19
Ganjam	...	...	29	25	...	...	29	25	53	1
Poodooccottah	...	...	18	22	2	3	20	25	36	9
Vencatagherry...	...	...	6	6	...	...	6	6	12	...
Total ...	4	1	232	237	11	15	247	253	458	42
Madras Railway	1	1	...	...	1	...	2	1	2	1
Dispensaries.										
Cuddalore	...	...	13	2	...	...	13	2	15	...
Negapatam	1	...	4	7	3	4	8	11	17	2
Manargoody	...	...	8	4	...	...	8	4	12	...
Old Town, Cuddalore	...	...	...	...	...	...	...	...	...	...
Total ...	1	...	25	13	3	4	29	17	44	2
Grand Total ...	6	2	269	261	17	21	292	284	531	45

Zemindaries, Dispensaries, Municipalities, &c.	ABOVE ONE YEAR.									
	Europeans and East Indians.		Natives.				Total.		Results of Operations.	
			Hindus.		Mahomedans.					
	Males.	Females	Males.	Females.	Males.	Females.	Males.	Females.	Successful.	Unsuccessful.
Private Vaccinators	...	...	88	55	5	2	93	57	140	10
Zemindaries.										
Ramnad	1	...	173	139	30	29	204	168	356	16
Shevagunga	...	...	147	122	1	1	148	123	260	11
Poonganoor	...	...	49	39	...	...	49	39	85	3
Bungaroopalim...	...	...	10	4	...	...	10	4	14	...
Pittapoor	...	...	152	60	1	...	153	60	178	35
Nuzeed	...	...	39	18	8	7	47	25	34	38
Carvettinuggur	...	...	63	42	...	...	63	42	104	1
Vizagapatam	1	...	970	895	15	13	986	908	1,723	171
Ganjam...	5	...	1,029	832	...	...	1,034	832	1,723	143
Poodoocottah	...	...	233	225	15	13	248	238	459	27
Vencatagherry...	...	...	78	71	5	2	83	73	149	7
Total ...	7	...	2,943	2,447	75	65	3,025	2,512	5,085	452
Madras Railway	...	...	3	2	1	1	4	3	4	3
Dispensaries.										
Cuddalore	...	...	51	55	...	...	51	55	106	...
Negapatam	...	...	61	43	19	21	80	64	137	7
Manargoody	...	...	27	37	...	...	27	37	58	6
Old Town, Cuddalore	...	...	14	12	9	9	23	21	31	13
Total ...	...	...	153	147	28	30	181	177	332	26
Grand Total ...	7	...	3,187	2,651	109	98	3,303	2,749	5,561	491

Miscellaneous Returns of Vaccination in the Madras Presidency for the 1st Quarter of the Calendar year 1870.—(Contd.)

Zemindaries, Dispensaries, Municipalities, &c.	GENERAL TOTAL.											
	Europeans and East Indians.		Natives.				All Classes.		Successful.	Unsuccessful.	General Total Males and Females.	Ratio per cent. of Success.
			Hindus.		Mahomedans.							
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.				
Private Vaccinators ...	...	...	100	66	7	4	107	70	167	10	177	94·35
Zemindaries.												
Ramnad...	2	...	211	174	36	40	249	214	442	21	463	95·46
Shevagunga	...	...	173	151	3	1	176	152	312	16	328	95·12
Poonganoor	...	...	61	53	...	...	61	53	111	3	114	97·36
Bungaroopalim	...	...	11	5	...	...	11	5	16	...	16	100
Pittapoor	1	...	155	62	1	...	157	62	183	36	219	83·51
Nuzeed...	...	...	40	20	1	7	48	27	35	40	75	46·66
Carvettinuggur	...	...	68	55	...	...	68	55	122	1	23	99·18
Vizagapatam	3	1	1,063	983	16	14	1,082	998	1,890	190	2,080	90·86
Ganjam	5	...	1,058	857	...	...	1,063	857	1,776	144	1,920	95·5
Poodoocottah	...	...	251	247	17	16	268	263	495	36	531	93·22
Vencatagherry	...	...	84	77	5	2	89	79	161	7	168	95·82
Total ...	11	1	3,175	2,684	86	80	3,272	2,765	5,543	494	6,037	91·81
Madras Railway... ...	1	1	3	2	2	1	6	4	6	4	10	60
Dispensaries.												
Cuddalore	...	...	64	57	...	...	64	57	121	...	121	100
Negapatam	1	...	65	50	22	25	88	75	154	9	163	94·47
Manargoody ...	...	...	35	41	...	...	35	41	70	6	76	21·1
Old Town, Cuddalore ...	...	...	14	12	9	9	23	21	31	13	44	70·45
Total ...	1	...	178	160	31	34	210	194	376	28	404	93·06
Grand Total ...	13	2	3,456	2,912	126	119	3,595	3,033	6,092	536	6,628	91·91

Statement showing the Work of the Municipalities in the Madras Presidency during the 1st Quarter of the Calendar year 1870.

Names of Municipalities.	Number of Vaccinators employed.	Number of Months in which Vaccination was performed.	Total Number of Persons vaccinated.	Successful.	Unsuccessful.	Doubtful.	Unknown.	Ratio per cent. of Success.
Berhampore ...	1	3	32	16	16	...	...	50·
Bimlipatam ...	1	3	20	15	5	...	...	75·
Vizagapatam ...	1	3	111	86	25	...	...	77·477
Cuddapah ...	1	3	82	53	29	...	...	64·634
Trichinopoly ...	2	3	236	182	38	...	16	77·118
Cochin	1	3	144	90	45	9	...	62·5
Guntoor	1	3	65	52	12	...	1	80·
Nellore	1	3	398	390	8	...	...	97·989
Bellary	2	3	333	289	12	32	...	86·786
Tanjore	2	3	297	285	12	...	...	95·95
Dindigul	1	3	181	160	21	...	...	88·397
Chicacole ...	1	3	43	23	16	1	3	53·488
Vellore	1	3	50	49	...	...	1	98·
Combaconum ...	1	3	197	160	17	...	20	81·218
Salem	1	3	129	118	11	...	...	91·472
Madura	...	...	...	...	...	...	...	...
Conjeveram ...	1	3	180	125	55	...	...	69·444
Coimbatore ...	1	3	167	118	18	19	12	70·658
Adoni	1	1	15	15	...	...	...	100·
Manargudy ...	1	3	119	110	3	2	4	92·436
Kurnool	2	3	53	50	3	...	...	94·339
Vizianagrum ...	1	3	73	71	2	...	...	97·260
Mayaveram ...	1	3	104	104	...	...	...	100·
Cannanore ...	1	3	111	94	2	...	15	84·684
Calicut	1	3	169	127	14	28	...	75·147
Palghaut ...	1	3	234	231	3	...	...	98·717
Tellicherry ...	1	3	136	86	50	...	...	63·235
Wallajahpett ...	1	3	18	9	2	2	5	50·
Tuticorin... ...	1	3	121	103	18	...	...	85·123
Palamcottah ...	1	3	144	83	32	7	22	57·638
Tinnevelly ...	1	3	148	143	5	...	...	96·621
Total ...	34	3	4,110	3,437	474	100	99	83·625

Table showing the Disbursements of Vaccine Lymph in the several Vaccine Districts of the Madras Presidency during the 1st Quarter of the Calendar year 1870.

Districts.	Vaccine Subjects.	Capillary Tubes.	Plates of Glass.	Ivory Points.	Crust.	Lymph Bottles.
Vaccine Depôt, Madras / Madras Town ...	32	38	8	...	...	...
Madras District ...	...	3	...	...	...	...
South Arcot	...	3	...	...	...	...
North Arcot	...	...	...	...	...	...
Tanjore	...	6	3	...	...	...
Trichinopoly... ...	...	...	...	...	...	...
Madura	...	4	2	...	...	...
Tinnevelly	...	...	...	...	...	...
Godavery	...	9	...	...	...	...
Kistna	...	12	...	...	...	...
Ganjam	...	...	...	...	...	...
Vizagapatam... ...	...	18	2	...	...	...
Kurnool	...	6	...	...	...	...
Bellary	...	...	20	...	23	...
Cuddapah	...	4	...	...	12	...
Nellore	...	...	10	...	...	...
Coimbatore	...	8	7	...	...	...
Salem	...	7	...	...	...	...
Malabar	...	9	...	...	...	...
South Canara ...	...	7	6	...	...	...
Ganjam, Hill Tracts of Orissa	...	...	...	...	...	...
Vizagapatam, Jeypore	...	...	...	...	...	...
Total ...	32	134	58	...	35	...

Table exhibiting the Casualties which occurred in the Department during the 1st Quarter of the Calendar year 1870.

Districts, &c.	Vaccinators resigned.	Vaccinators dismissed.	Vaccinators deserted.	Vaccinators died.
Vaccine Depôt, Madras ... ... / Madras Town	...	...	...	...
Madras District	...	...	1	...
South Arcot	...	...	...	...
North Arcot	1	...	...	...
Tanjore	...	...	...	...
Trichinopoly	...	...	...	...
Madura	...	...	1	...
Tinnevelly	...	...	1	...
Godavery	...	...	...	...
Kistna	...	...	...	...
Ganjam	1	...	...	1
Vizagapatam	...	...	...	...
Kurnool	...	...	...	...
Bellary	...	...	...	...
Cuddapah	...	...	...	...
Nellore	...	...	...	...
Coimbatore	...	...	...	...
Salem	...	...	...	...
Malabar	...	...	1	...
South Canara	...	...	...	...
Ganjam, Hill Tracts of Orissa ...	...	...	...	...
Vizagapatam, Jeypore	...	...	...	...
Total ...	2	...	[illegible]	1

General Abstract of Vaccination in the Madras Presidency for the 1st Quarter of the Calendar year 1870.

—	Total Number vaccinated		Result of Operation.		General Total Males and Females.	Ratio per cent. of Success.
	Males.	Females.	Successful.	Unsuccessful.		
Vaccine Districts	24,067	20,621	41,016	3,672	44,688	91·78
Vaccine Depôt	814	463	759	18	777	97·68
Three Military Cantonments...	651	342	914	79	993	94·51
Divisions and Forces... ...	2,478	909	2,377	1,010	3,387	70·18
Zemindaries	3,272	2,765	5,543	494	6,037	91·81
Railways	6	4	6	4	10	60
Civil Dispensaries	210	194	376	28	404	91·91
Private Vaccinators	107	70	167	10	177	94·35
Municipalities...	*Not known.		3,437	673	4,110	83·62
Total ...	31,105	25,368	54,595	5,988	60,583	90·11

No. 1.—*Statement showing Particulars of Vaccination in each District of*

Circle.	2	3		4		5		6		7	8
	Name and Rank of Superintendent.	Number of Native Superintendents.		Number of Vaccinators.		Total Number of Persons vaccinated.		Collectorate, Political Agency, or Native State in which Vaccinations were performed during the year.		Population of Area included in last Column.	Name of the District or Zillah.
		1870-71.	1869.	1870-71.	1869.	1870-71.					
	Loganatha Permaul Doss	1	1	12	11	8,699	4	Vaccine Depôt ...	27	450,000	Vaccine Depôt ... ...
						4,573	5	Madras Collectorate			Madras Collectorate ...
	Goolam Mowla	1	1	12	9	6,835	7	Chingleput District ...	2,786	804,285	Chingleput ... ...
	C. Seetharamiah	1	1	10	9	6,043	1	North Arcot	3,959	1,181,807	North Arcot ... ...
	A. Ramasawmy	1	1	9	9	14,419	15	South Arcot	4,779	1,222,803	South Arcot ... ...
	Mr. E. J. Good	1	1	11	9	9,820	7	Trichinopoly	3,565	1,006,826	Trichinopoly ... ...
	C. Arcoomogum Chetty...	1	1	11	12	14,525	1	Tanjore	3,735	1,731,703	Tanjore ... ...
	Arcoomogum Pillay	1	1	12	10	13,862	1	Madura	4,882	1,146,711	Madura ... ...
	O. Cundasawmy Reddi...	1	1	9	11	12,131	8	Tinnevelly	3,810	1,518,489	Tinnevelly ... ...
	Ramalingum Pillay	1	1	11	10	4,289	5	Cuddapah	9,177	1,144,759	Cuddapah ... ...
	Dhurmalingam Moodelly	1	1	11	11	2,568	9	Kurnool	7,470	770,857	Kurnool ... ...
	B. Puttaby	1	1	15	11	11,729	1	Bellary	11,351	1,291,932	Bellary ... ...
	Sied Abdool Azis	1	1	11	12	7,331	9	Salem	7,605	1,619,233	Salem ... ...
	J. Ramiah	1	1	12	11	10,627	1	Coimbatore	8,470	1,430,739	Coimbatore... ... ...
	Ponoosawmy	1	1	11	11	8,817	9	Malabar	6,360	1,856,378	Malabar ... ...
	P. A. Mausillaw Pillay	1	1	11	11	22,077	8	South Canara	4,206	839,888	South Canara ... ...
	Mr. A. Stewart	1	1	10	10	8,670	1	Nellore	4,546	755,305	Nellore ... ...
	C. Singaravaloo Moodelly	1	1	11	8	10,369	10	Kistna	6,692	1,041,092	Kistna ... ...
	K. Parthasardhi Naidoo	1	1	11	10	11,416	9	Godavery	6,720	1,222,339	Godavery ... ...
	F. Chinnasawmy	1	1	11	10	2,757	4	Vizagapatam	3,081	178,225	Vizagapatam ... ...
	N. Balasoondrum Moodelly	1	1	6	6	1,475	2	Jeypore, Vizagapatam ...	15,855	1,756,333	Jeypore, Vizagapatam ...
	Meer Muzzer Ally	1	1	12	10	1,604	3	Ganjam	1,941	504,074	Ganjam ... ...
	T. Iyasawmy	1	1	8	6	1,977	2	Hill Tracts of Ganjam ...	2,246	731,716	Hill Tracts of Ganjam ...
	Total ...	23	23	237	220	199,099	192	.....		.....	.....
											MILITARY
	Sied Abdool Azis	1	1	2	2	1,263	1	Bangalore		.....	Salem ... ...
	Medical Officer in charge of Civil Dispensary	1	1	2	2	1,856	2	Secunderabad		.....	.....
	Do. do. do. ...	1	1	1	1	579		Kamptee		.....	.....
	Total ...	...	...	5	5	3,598	4	.....		.....	.....
											TEMPORARY
	Loganatha Permaul Doss	1	1	1	...	55		Madras Collectorate		.....	Madras Collectorate ...
	Sied Abdool Azis	1	1	3	...	12		Salem		.....	Salem ... ...
	J. Ramiah	...	...	2	...	44		Coimbatore		.....	Coimbatore ... ...
	Ponoosawmy	...	...	1	...	18		Malabar		.....	Malabar ... ...
	P. A. Mausillaw Pillay	...	...	2	...	6,315		South Canara		.....	South Canara ... ...
	Total ...	...	...	9	...	6,543		.....		.....	.....
	Grand Total ...	23	23	251	225	209,039	196	.....		.....	.....

Superintendence in the Madras Presidency during the year 1870-71

9													10				11		12
PRIMARY VACCINATIONS.													RE-VACCINATIONS.				Per-centage of Successful Cases, excluding those Doubtful from the Total.		Average Number of Persons vaccinated by each Vaccinator.
A.		B.					C.					D.	A.	B.	C.	D.			
Sex.		Caste.					Age.		Results.				Results.						
Males.	Females.	Christian.	Hindu.	Mahomedan.	Parsee.	Other Castes.	Under one year.	Above one year.	Successful.	Unsuccessful, including Doubtful.	Unknown.	Total.	Successful.	Unsuccessful, including Doubtful.	Unknown.	Total.	In Primary Vaccination.	In Secondary Vaccination.	
1,332	2,164	83	3,327	86	...	...	463	3,033	3,348	64	84	3,496	...	...	...	...	95·76	...	3,496
2,498	2,078	237	3,968	370	...	1	638	4,438	4,415	129	29	4,576	11	3	2	15	69·54	73·3	418
3,386	2,729	94	5,064	258	...	...	556	5,789	6,151	109	55	6,315	...	2	...	2	97·58	...	525
3,327	2,713	25	5,056	959	...	...	676	5,378	5,724	99	217	6,040	...	...	...	...	98·76	...	601
7,360	6,339	328	13,515	836	...	...	976	13,418	13,354	540	715	14,609	15	7	...	22	92·78	68·18	1,368
5,456	4,244	...	9,587	93	...	...	1,667	8,023	9,244	336	...	9,680	...	...	...	...	96·52	...	889
7,655	6,870	10	14,090	425	...	...	1,554	13,971	12,868	517	1,140	14,525	24	10	7	41	88·75	58·53	1,330
7,475	6,327	646	12,823	333	...	...	2,505	11,297	12,865	505	432	18,802	...	...	...	...	93·21	...	1,150
7,084	5,027	1	11,937	173	...	...	1,106	11,695	11,266	590	255	12,111	...	...	...	...	93·02	...	1,345
2,339	1,350	1	3,564	463	...	211	269	3,971	3,741	325	173	4,239	...	...	...	...	88·35	...	835
1,475	1,121	9	2,165	377	...	45	345	2,251	2,281	159	156	2,596	...	...	...	...	87·86	...	236
6,095	5,625	17	1,004	10,699	...	...	3,389	8,331	10,466	808	447	11,720	22	13	2	37	89·29	59·45	781
3,825	3,516	11	6,743	549	...	38	1,222	6,119	6,841	290	210	7,341	39	12	10	61	93·16	63·93	667
5,455	5,172	31	10,372	224	...	...	1,650	8,977	9,522	514	591	10,627	...	...	...	...	89·60	...	885
7,366	1,451	45	6,123	2,348	...	1	27	8,790	7,628	367	822	8,817	...	...	...	...	86·44	...	801
13,127	8,959	1,563	14,917	1,791	...	806	867	21,210	20,353	728	997	22,077	...	...	...	...	92·23	...	2,007
4,537	4,133	100	8,251	819	...	...	712	7,958	7,911	424	835	8,670	42	21	...	63	91·24	68·25	867
5,638	4,736	1	8,089	794	...	1,485	1,298	9,671	9,136	628	810	10,369	...	...	...	...	91·002	...	942
6,599	4,817	8	11,306	102	...	...	943	10,470	9,294	1,454	738	11,416	...	...	...	...	89·62	...	1,037
1,400	1,337	23	2,560	30	...	113	169	2,568	2,540	142	55	2,737	1	...	...	1	92·83	100	248
865	670	...	840	...	...	635	128	1,352	1,306	165	4	1,475	...	...	...	...	88·54	...	245
869	735	5	1,586	13	...	...	94	1,510	1,016	367	221	1,604	...	1	...	1	88·34	...	133
851	526	4	1,341	32	...	...	58	1,324	1,225	150	2	1,377	9	4	...	13	89·63	69·25	172
106,609	83,250	3,254	159,457	28,983	...	3,335	21,338	168,791	172,313	9,395	8,069	190,029	164	72	21	257	90·94	63·81	801
CANTONMENTS.																			
799	426	31	1,020	149	.	.	299	954	1,147	77	32	1,263	...	...	...	...	90·81	...	681
1,057	576	15	1,468	151	...	...	829	887	1,377	83	247	1,666	...	...	...	...	82·65	...	832
821	258	11	558	215	...	...	340	239	492	4	2	579	...	...	...	...	84·97	...	872
2,291	1,307	120	2,535	515	...	...	1,463	1,040	3,016	224	288	3,507	...	...	...	...	85·97	...	791
VACCINATORS.																			
37	23	13	30	1	...	...	11	43	50	5	...	55	...	...	...	...	90·90	...	55
6	6	...	12	...	...	...	...	12	8	4	3	12	...	...	...	...	66·66	...	4
29	29	...	51	2	...	...	1	52	25	...	18	53	...	...	...	...	52·08	...	26
68	...	...	23	45	...	...	...	58	58	4	4	66	...	...	...	...	89·39	...	3,177
4,038	2,377	303	4,587	1,164	...	313	794	5,101	5,204	177	274	6,355	...	...	...	...	98·80		
4,173	2,373	316	4,714	1,213	...	313	805	5,277	5,635	187	301	6,343	...	...	...	...	81·16	...	727
113,073	87,007	3,758	167,003	28,771	...	3,553	23,972	177,105	181,887	9,616	8,577	200,050	164	72	21	257	90·94	63·81	797

A.

No. II.—Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
District of Superintendence.	Months.	District in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average Percentage Successful, excluding those Doubtful.
	1871.							
	August	Tanjore District ...	1,062	929	42	91	1,062	87·47
	September	Do. ...	1,028	931	32	65	1,028	90·56
	October	Do. ...	1,179	1,079	33	67	1,179	91·51
	November	Do. ...	1,177	1,042	28	107	1,177	88·53
	December	Do. ...	1,191	1,087	16	88	1,191	91·27
	January	Do. ...	1,400	1,296	19	85	1,400	92·57
	February	Do. ...	1,431	1,317	48	66	1,431	92·03
	March	Do. ...	1,537	1,382	31	124	1,537	89·91
		Total ...	14,525	12,868	517	1,140	14,525	88·75
	April	Madura District ...	826	720	48	58	826	87·16
	May	Do. ...	792	736	56	...	792	92·92
	June	Do. ...	861	758	84	19	861	88·03
	July	Do. ...	901	778	73	50	901	86·34

	August	Do. ...	1,043	916	49	78	1,043	87·82
	September	Do. ...	853	785	27	41	853	92·02
	October	Do. ...	1,116	1,021	45	50	1,116	91·48
	November	Do. ...	1,317	1,238	34	45	1,317	94·
	December	Do. ...	1,206	1,116	29	61	1,206	92·53
	January	Do. ...	1,612	1,577	21	14	1,612	97·82
	February	Do. ...	1,469	1,454	14	16	1,469	98·97
	March	Do. ...	1,806	1,766	25	15	1,806	97·78
		Total ...	13,802	12,865	505	432	13,802	93·21
	April	Tinnevelly District ...	703	666	34	3	703	94·73
	May	Do. ...	1,115	1,050	51	14	1,115	94·17
	June	Do. ...	949	883	40	26	949	93·04
	July	Do. ...	1,003	895	85	23	1,003	89·23
	August	Do. ...	1,377	1,300	59	18	1,377	94·4
	September	Do. ...	1,302	1,190	76	36	1,302	91·39
	October	Do. ...	1,161	1,003	95	63	1,161	86·39
	November	Do. ...	998	906	48	44	998	90·78
	December	Do. ...	900	853	28	19	900	94·77
	January	Do. ...	948	919	25	4	948	96·94
	February	Do. ...	809	785	20	4	809	97·03
	March	Do. ...	846	816	29	1	846	96·45
		Total ...	12,111	11,266	590	255	12,111	93·02
	April	Cuddapah District ...	131	102	16	13	131	77·86
	May	Do. ...	224	193	26	5	224	86·16
	June	Do. ...	221	144	46	31	221	65·15
	July	Do. ...	223	176	35	12	223	78·92
	August	Do. ...	369	320	33	16	369	86·72
	September	Do. ...	519	470	28	21	519	90·55

No. II.—Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
District of Superintendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average Percentage Successful excluding those Doubtful.
	1871.							
	October	Cuddapah District ...	305	283	11	11	305	92·78
	November	Do. ...	402	366	28	18	402	91·04
	December	Do. ...	358	333	19	6	358	93·01
	January	Do. ...	302	276	19	7	302	91·39
	February	Do. ...	494	444	31	19	494	89·87
	March	Do. ...	691	634	38	19	691	91·75
		Total ...	4,239	3,741	325	173	4,239	88·25
	April	Kurnool District ...	70	40	19	11	70	57·14
	May	Do. ...	68	40	14	14	68	58·82
	June	Do. ...	216	171	22	23	216	97·16
	July	Do. ...	161	125	25	11	161	77·63
	August	Do. ...	199	175	14	10	199	87·93
	September	Do. ...	177	157	15	5	177	88·7
	October	Do. ...	278	249	15	14	278	89·56
	November	Do. ...	268	233	13	22	268	86·94
	December	Do. ...	210	192	7	111	210	91·43
	January	Do. ...	247	232	5	10	247	93·92
	February	Do. ...	327	305	7	15	327	93·27
	March	Do. ...	375	362	3	10	375	96·53
		Total ...	2,596	2,281	159	156	2,596	87·86
	April	Bellary District ...	611	502	78	31	611	82·16
	May	Do. ...	628	567	44	17	628	90·28
	June	Do. ...	510	428	53	29	510	83·92
	July	Do. ...	1,279	1,118	93	68	1,279	87·41
	August	Do. ...	1,067	931	76	60	1,067	87·25
	September	Do. ...	872	801	47	24	872	91·85
	October	Do. ...	918	803	83	32	918	87·47
	November	Do. ...	1,134	1,029	67	38	1,134	90·74
	December	Do. ...	1,161	1,076	56	29	1,161	92·67
	January	Do. ...	1,080	978	57	45	1,080	90·55
	February	Do. ...	1,157	1,054	77	26	1,157	91·09
	March	Do. ...	1,303	1,178	77	48	1,303	90·4
		Total ...	11,720	10,465	808	447	11,720	89·29
	April	Salem District	483	427	31	25	483	84·4
	May	Do. ...	730	685	26	19	730	93·83
	June	Do. ...	574	520	19	35	574	90·59
	July	Do. ...	714	682	12	20	714	95·51
	August	Do. ...	816	760	29	27	816	93·13
	September	Do. ...	826	795	21	10	826	96·24
	October	Do. ...	692	656	26	10	692	94·79

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No. II.—*Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year* 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
District of Superintendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average Per-centage. Successful, excluding those Doubtful.
	1871							
	November	Salem District ...	796	757	26	13	796	95·1
	December	Do. ...	488	470	11	7	488	96·81
	January	Do. ...	390	367	13	10	390	94·1
	February	Do ...	383	366	7	10	383	95·66
	March	Do ...	449	376	40	33	449	83·74
		Total ...	7,341	6,841	290	210	7,341	93·46
	April	Coimbatore District ...	630	524	70	26	630	83·17
	May	Do. ...	1,069	971	54	44	1,069	90·83
	June	Do. ...	833	759	42	32	833	91·11
	July	Do. ...	843	739	44	60	843	87·66
	August	Do. ...	941	845	40	56	941	89·79
	September	Do. ...	1,049	965	49	35	1,049	91·99
	October	Do. ...	1,134	1,039	49	46	1,134	91·62
	November	Do. ...	1,001	887	33	81	1,001	88·61
	December	Do. ...	627	583	19	25	627	92·98
	January	Do. ...	872	785	55	32	872	90·02
	February	Do. ...	814	720	44	50	814	88·45
	March	Do. ...	814	698	20	96	814	85·74
		Total ...	10,627	9,522	514	591	10,627	89·60
	April	Malabar District ...	726	625	29	72	726	86·17
	May	Do. ...	738	596	31	111	738	80·75
	June	Do. ...	926	766	66	94	926	82·72
	July	Do. ...	1,024	927	25	72	1,024	90·52
	August	Do. ...	1,024	902	67	55	1,024	88·08
	September	Do. ...	726	614	31	91	726	84·57
	October	Do. ...	767	662	40	65	767	86·31
	November	Do. ...	665	599	21	45	665	90·07
	December	Do. ...	585	436	33	66	535	81·49
	January	Do. ...	543	493	7	43	543	90·79
	February	Do. ...	549	488	6	55	549	88·88
	March	Do. ...	594	520	21	53	594	87·54
		Total ...	8,817	7,628	367	822	8,817	86·44
	April	South Canara District ...	364	309	36	19	364	84·89
	May	Do. ...	452	437	9	6	452	96·68
	June	Do. ...	317	259	56	2	317	81·7
	July	Do. ...	445	390	41	14	445	87·64
	August	Do. ...	677	625	38	14	677	92·31
	September	Do. ...	903	836	48	19	903	92·58
	October	Do. ...	802	747	34	21	802	93·14
	November	Do. ...	999	908	43	48	999	90·89
	December	Do. ...	1,441	1,278	58	105	1,441	88·68

A.

No. II.—*Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year* 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
District of Superintendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average per-centage Successful, excluding those Doubtful.
	1871.							
	January	South Canara District ...	3,590	3,403	76	111	3,590	94·79
	February	Do. ...	5,562	5,100	139	323	5,562	91·69
	March	Do. ...	6,525	6,060	150	315	6,525	92·87
		Total ...	22,077	20,352	728	997	22,077	92·23
	April	Nellore District ...	484	416	54	14	484	85 95
	May	Do. ...	658	589	47	22	658	89·51
	June	Do. ...	846	689	52	105	846	81·44
	July	Do. ...	470	376	60	34	470	80·
	August	Do. ...	787	741	28	18	787	94·15
	September	Do. ...	581	544	12	25	581	93·63
	October	Do. ...	651	621	25	5	651	95·39
	November	Do. ...	666	590	31	45	666	88·58
	December	Do. ...	610	575	24	11	610	94·26
	January	Nellore District	842	794	18	30	842	94·29
	February	Do. ...	810	749	44	17	810	92·46
	March	Do. ...	1,265	1,227	29	9	1,265	96·99
		Total ...	8,670	7,911	424	335	8,670	91·24
	April	Kistna Districts	1,106	1,002	68	36	1,106	90·59
	May	Do. ...	1,015	930	70	15	1,015	91·62
	June	Do. ...	1,200	1,114	61	25	1,200	92·83
	July	Do. ...	1,005	939	44	22	1,005	93·43
	August	Do. ...	973	889	68	16	973	91·36
	September	Do. ...	296	225	50	21	296	76·01
	October	Do. ...	534	490	34	10	534	91·76
	November	Do. ...	658	574	46	38	658	87·23
	December	Do. ...	675	594	43	38	675	88·
	January	Do. ...	787	710	44	33	787	90·21
	February	Do. ...	1,172	1,083	57	32	1,172	92·4
	March	Do. ...	948	886	38	24	948	93·45
		Total ...	10,369	9,436	623	310	1,0369	91·062
	April	Godavery District ...	980	793	129	58	980	80·91
	May	Do. ...	1,405	1,166	141	98	1,405	82·98
	June	Do. ...	1,550	1,326	161	63	1,550	85·54
	July	Do. ...	871	806	90	75	871	92·53
	August	Do. ...	1,018	767	180	71	1,018	75·34
	September	Do. ...	440	364	66	10	440	82·72
	October	Do. ...	700	545	138	17	700	77·85
	November	Do. ...	852	653	127	72	852	76·64
	December	Do. ...	910	700	138	72	910	76·92
	January	Do. ...	776	663	90	23	776	85·43
	February	Do. ...	822	643	70	109	822	78·22
	March	Do. ...	1,092	878	124	90	1,092	80·4
			11,416	9,204	1,454	758	11,416	80·62

No. II —Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
District of Super-intendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average per-centage Successful, excluding those Doubtful.
	1871.							
	April	Vizagapatam District ...	154	143	9	2	154	92·85
	May	Do. ...	128	123	1	4	128	96·09
	June	Do. ...	124	121	1	2	124	97·58
	July	Do. ...	396	373	21	2	396	94·19
	August	Do. ...	216	160	33	23	216	74·07
	September	Do ...	336	323	12	1	336	96·13
	October	Do. ...	280	262	11	7	280	93·57
	November	Do. ...	205	190	12	3	205	92·68
	December	Do. ...	270	259	5	6	270	95·92
	January	Do. ...	168	153	14	1	168	91·07
	February	Do. ...	271	260	8	3	271	95·94
	March	Do. ...	189	174	14	1	189	92·06
		Total ...	2,737	2,540	142	55	2,737	92·83
	April	Jeypore, Vizagapatam ...	102	84	18	...	102	82·35
	May	Do. ...	124	109	14	1	124	87.9
	June	Do. ...	98	96	2	...	98	97·95
	July	Do. ...	133	128	5	...	133	96·24
	August	Do. ...	118	108	8	2	118	91·52
	September	Do. ...	95	70	25	...	95	73·68
	October	Do. ...	107	77	30	...	107	71·96
	November	Do. ...	101	86	15	...	101	85·14
	December	Do. ...	129	117	12	...	129	90·69
	January	Do. ...	134	124	10	...	134	92·53
	February	Do. ...	157	147	10	...	157	93·63
	March	Do. ...	177	160	16	1	177	90·39
		Total ...	1,475	1,306	165	4	1,475	88·54
	April	Ganjam District	26	26	...	...	26	100
	May	Do. ...	38	13	25	...	38	34·21
	June	Do. ...	15	8	4	3	15	53·33
	July	Do. ...	74	18	39	17	74	24·32
	August	Do. ...	38	10	25	3	38	26·31
	September	Do. ...	47	33	13	1	47	70·21
	October	Do. ...	70	33	15	22	70	47·14
	November	Do. ...	100	59	23	18	100	59
	December	Do. ...	112	97	13	2	112	86·6
	January	Do. ...	286	205	44	37	286	71·67
	February	Do. ...	381	177	141	63	381	46·45
	March	Do. ...	417	307	55	55	417	73·62
		Total ...	1,604	1,016	367	221	1,604	63·34
	April	Hill Tracts, Ganjam ...	57	55	2	...	57	96·49
	May	Do. ...	37	29	8	...	37	78·37

A.

No. II.—*Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year* 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
Districts of Superintendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average Per-centage Successful, excluding those Doubtful.
	1871.							
	June	Hill Tracts of Ganjam ...	72	58	14	...	72	86·55
	July	Do. ...	94	77	17	...	94	81·91
	August	Do. ...	119	99	20	...	119	83·1
	September	Do. ...	110	100	10	...	110	90·9
	October	Do. ...	93	84	9	...	93	90·32
	November	Do. ...	207	189	18	...	207	90·46
	December	Do. ...	253	235	18	...	253	92·88
	January	Do. ...	76	72	2	2	76	94·73
	February	Do. ...	218	206	12	...	218	94·49
	March	Do. ...	41	30	11	...	41	73·17
		Total ...	1,377	1,225	150	2	1,377	89·63
		Grand Total ...	190,029	172,816	9,205	8,008	190,029	90·94

		Military Cantonments.						
	April	Bangalore ...	79	72	7	...	79	91·13
	May	Do. ...	91	91	...	...	91	100
	June	Do. ...	98	96	...	2	98	97·95
	July	Do. ...	113	112	1	...	113	99·11
	August	Do. ...	69	63	2	4	69	91·3
	September	Do. ...	157	126	25	6	157	80·25
	October	Do. ...	194	180	14	...	194	92·78
	November	Do. ...	63	45	1	17	63	71·42
	December	Do. ...	78	68	7	3	78	87·17
	January	Do. ...	105	98	3	4	105	93·33
	February	Do. ...	100	91	9	...	100	91
	March	Do. ...	116	105	8	3	116	90·51
		Total ...	1,263	1,147	77	39	1,263	90·81
	April	Secunderabad ...	145	123	...	22	145	84·82
	May	Do. ...	165	144	2	19	165	87·27
	June	Do. ...	194	151	2	41	194	77·83
	July	Do. ...	169	143	...	26	169	84·61
	August	Do. ...	153	123	6	24	153	80·39
	September	Do. ...	148	122	12	14	148	83·43
	October	Do. ...	143	116	3	24	143	81·11
	November	Do. ...	151	111	10	30	151	73·5
	December	Do. ...	Return not received.					
	January	Do. ...	142	125	8	9	142	88·02
	February	Do. ...	146	130	6	10	146	89·04
	March	Do. ...	110	89	13	8	110	80·9
		Total ...	1,666	1,377	62	227	1,666	82·65

A.

No. II.—*Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year* 1870-71.—(Continued.)

1	2	3	4	5			6	7
				Results.				
District of Superintendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Successful.	Unsuccessful and Doubtful.	Unknown.	Total.	Average Percentage Successful, excluding those Doubtful.
	1871.							
	April	Kamptee ...	57	52	4	1	57	91·22
	May	Do. ...	62	57	5	...	62	91·93
	June	Do. ...	64	58	5	1	64	90·62
	July	Do. ...	31	21	10	...	31	67·74
	August	Do. ...	21	1	20	...	21	4·76
	September	Do. ...	20	13	7	...	20	65·
	October	Do. ...	54	48	6	...	54	88·88
	November	Do. ...	45	38	7	...	45	84·44
	December	Do. ...	57	52	5	...	57	91·22
	January	Do. ...	56	52	4	...	56	92·85
	February	Do. ...	55	49	6	...	55	89·09
	March	Do. ...	57	51	6	...	57	89·47
		Total ...	579	492	85	2	579	84·97
		Grand Total ...	3,508	3,016	224	268	3,508	85·97

		Temporary Vaccinators.						
	April	Madras Collectorate ...	...	...	...	...	...	...
	May	Do. ...	...	...	...	...	...	...
	June	Do ...	...	...	...	...	...	...
	July	Do. ...	...	...	...	...	...	...
	August	Do. ...	...	...	...	...	...	...
	September	Do. ...	...	...	...	...	...	...
	October	Do. ...	...	...	...	...	...	...
	November	Do. ...	...	...	...	...	...	...
	December	Do. ...	...	...	...	...	...	...
	January	Do. ...	...	...	...	...	...	...
	February	Do. ...	...	...	...	...	...	...
	March	Do. ...	55	50	5	...	55	90·90
		Total ...	55	50	5	...	55	90·90
	April	Salem District ...	...	...	...	...	...	...
	May	Do. ...	...	...	...	...	...	...
	June	Do. ...	...	...	...	...	...	...
	July	Do. ...	...	...	...	...	...	...
	August	Do. ...	...	...	...	...	...	...
	September	Do. ...	...	...	...	...	...	...
	October	Do. ...	...	...	...	...	...	...
	November	Do. ...	...	...	...	...	...	...
	December	Do. ...	...	...	...	...	...	...
	January	Do. ...	...	...	...	...	...	...
	February	Do. ...	...	...	...	...	...	...
	March	Do. ...	12	8	1	3	12	66·66
		Total ...	12	8	1	3	12	66·66

A.

No. II.—*Statement showing the Monthly Number and Results of the Vaccinations performed in each District of Superintendence in the Madras Presidency for the year* 1870-71.—(Continued.)

1	2	3	4	5				6	7
District of Superintendence.	Months.	Districts in which Operations chiefly conducted in each month.	Total Number Vaccinated.	Results.				Total.	Average Percentage Successful, excluding those Doubtful.
				Successful.	Unsuccessful and Doubtful.	Unknown.			
	1871.								
	April...	Coimbatore District ...	...	...	...	...		...	
	May	Do. ...	...	...	...	...		...	
	June	Do. ...	...	...	...	...		...	
	July	Do. ...	...	...	...	...		...	
	August	Do. ...	...	...	...	...		...	
	September	Do. ...	...	...	...	...		...	
	October	Do. ...	...	...	...	...		...	
	November	Do. ...	...	...	...	...		...	
	December	Do. ...	...	...	...	...		...	
	January	Do. ...	...	...	...	...		...	
	February	Do. ...	...	...	...	...		...	
	March	Do. ...	53	35	18	...		53	66·03
		Total ...	53	35	18	...		53	66·03
	April...	Malabar District ...	...	...	...	...	...	...	
	May	Do. ...	...	...	...	...	...	...	
	June	Do. ...	...	...	...	...	...	...	
	July	Do. ...	...	...	...	...	...	...	
	August	Do. ...	...	...	...	...	...	...	
	September	Do. ...	...	...	...	...	...	...	
	October	Do. ...	...	...	...	...	...	...	
	November	Do. ...	...	...	...	...	...	...	
	December	Do. ...	...	...	...	...	...	...	
	January	Do. ...	...	...	...	...	...	...	
	February	Do. ...	...	...	...	...	...	...	
	March	Do. ...	68	58	4	10	68	85·29	
		Total ...	68	58	4	10	68	85·29	
	April...	South Canara District ...	...	...	...	...	...		
	May	Do. ...	...	...	...	...	...		
	June	Do. ...	...	...	...	...	...		
	July	Do. ...	...	...	...	...	...		
	August	Do. ...	...	...	...	...	...		
	September	Do. ...	...	...	...	...	...		
	October	Do. ...	...	...	...	...	...		
	November	Do. ...	...	...	...	...	...		
	December	Do. ...	...	...	...	...	...		
	January	Do. ...	...	...	...	...	...		
	February	Do. ...	3,589	3,384	89	116	3,589	94·28	
	March	Do. ...	2,766	2,520	88	158	2,766	94·1	
		Total ...	6,355	5,904	177	274	6,355	92·90	
		General Total...	6,543	6,055	187	301	6,543	91·16	
		Grand Total ...	200,080	181,887	9,616	8,577	2,00,080	90·94	

A.

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendence in the Madras Presidency during the year* 1870-71.

1		2 Sanctioned.			3 Expended.			4 Total Number Vaccinated.	5 Per centage of Successes excluding those unknown from the Total.	6 Cost of each Successful Case.		
		RS.	A.	P.	RS.	A.	P.			RS.	A.	P.
	A.—Paid by Government.											
Superintendent-General ...	Salary at Rupees 1,050 per mensem	12,600	0	0	12,600	0	0					
	Office Establishment at Rupees 60 per mensem... ...	720	0	0	720	0	0					
	Travelling Allowance at Rupees 150 do.	1,800	0	0	1,800	0	0					
	House-rent at Rupees 100 per mensem	1,200	0	0	1,200	0	0					
	Total ...	16,320	0	0	16,320	0	0					
Vaccinn Depôt ...	1 1st-class Vaccinator at Rupees 18 per mensem ...	216	0	0	216	0	0					
	3 Peons at Rupees 7 each per mensem	252	0	0	240	15	8					
	1 Sweeper at Rupees 3-8-0 per mensem	42	0	0	42	0	0					
	Rice issued to mothers of vaccinated children	2,400	0	0	1,092	15	9					
	Tin cases, glass squares, &c., for despatch of lymph ...	50	0	0	...	...	...					
	Total ...	2,960	0	0	1,591	15	5	3,496	95·75	0	7	3
Madras Collectorate	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	838	0	0					
	3 1st-class Vaccinators at Rupees 18 each do. ...	648	0	0	620	4	10					
	9 2nd-class do. at Rupees 10 each do. ...	1,080	0	0	833	8	9					
	3 2nd-class do. for special duty at Rs. 10 each ...	360	0	0	...	...	...					
	Contingencies	50	0	0	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	3,028	0	0	2,291	13	7	4,576	69·54	0	8	3
Chingleput District... ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	799	12	4					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	795	9	10					
	9 2nd-class do. at Rupees 10 each do. ...	1,080	0	0	781	14	8					
	Contingencies	20	0	0	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,854	0	0	2,377	4	10	6,315	97·56	0	6	2
North Arcot Dist..	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	793	12	9					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	807	14	8					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	694	7	6					
	Contingencies	50	0	0	2	1	0					
	Batta to mothers of vaccinated children	50	0	0	0	6	0					
	Total ...	2,644	0	0	2,298	9	11	6,040	94·76	0	6	5
South Arcot Dist.	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	840	0	0					
	3 1st-class Vaccinators at Rupees 18 each do. ...	648	0	0	648	0	0					
	8 2nd-class do. at Rupees 10 each do. ...	960	0	0	818	6	10					
	Contingencies	...	...	...	1	4	0					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,498	0	0	2,307	10	10	14,419	92·78	0	2	9

A.

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendence in the Madras Presidency during the year* 1870-71.—(Continued.)

1		2			3			4	5	6		
	—	Sanctioned.			Expended.			Total Number Vaccinated.	Percentage of Success, excluding those unknown, from the Total.	Cost of each Successful Case.		
		RS.	A.	P.	RS.	A.	P.			RS.	A.	P.
Trichinopoly Dist.	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	840	0	0					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	864	0	0					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	820	0	0					
	Contingencies	...	...	...	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,594	0	0	2,524	0	0	9,680	96·52	0	4	3
Tanjore District...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	813	11	4					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	864	0	0					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	825	1	5					
	Contingencies	50	0	0	2	0	0					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,644	0	0	2,504	12	9	14,525	58·53	0	3	1
Madura District ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	542	3	4					
	5 1st-class Vaccinators at Rupees 18 each do. ...	1,080	0	0	1,061	14	4					
	8 2nd-class do. at Rupees 10 each do. ...	960	0	0	798	9	6					
	Allowance to 2 Vaccinators to work on the Pulney Hills at Rupees 5 each per mensem	120	0	0	120	0	0					
	Contingencies	50	0	0	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	3,100	0	0	2,522	11	2	13,802	93·21	0	3	1
Tinnevelly District	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	808	13	10					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	840	5	6					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	587	5	2					
	Contingencies	...	...	...	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	3	9	0					
	Total ...	2,594	0	0	2,237	1	6	12,111	93·02	0	3	2
Cuddapah District.	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	835	0	0					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	838	1	7					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	748	5	0					
	Contingencies	50	0	0	2	6	0					
	Batta to mothers of vaccinated children	100	0	0	...	...	...					
	Total ...	2,694	0	0	2,423	12	7	4,239	88·25	0	11	2
Kurnool District..	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	330	11	11					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	853	0	0					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	810	10	8					
	Contingencies	...	...	...	0	8	0					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,594	0	0	1,994	14	7	2,596	87·86	0	13	11

A.

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendence in the Madras Presidency during the year* 1870-71.—(Continued.)

1		2			3			4	5	6		
	—	Sanctioned.			Expended.			Total Number Vaccinated.	Per-centage of Success, excluding those unknown from the Total.	Cost of each Successful Case.		
		RS.	A.	P.	RS.	A.	P.			RS	A.	P.
Bellary District...	2 Superintendents' salary at Rupees 70 each per mensem.	1,680	0	0	1,640	1	6					
	6 1st-class Vaccinators at Rupees 18 each do. ...	1,296	0	0	1,296	0	0					
	10 2nd-class do. at Rupees 10 each do. ...	1,200	0	0	893	8	4					
	Contingencies	50	0	0	2	14	0					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	4,276	0	0	3,832	7	6	11,720	89·29	0	5	10
Salem District...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	813	11	4					
	5 1st-class Vaccinators at Rupees 18 each do. ...	1,080	0	0	1,038	0	0					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	614	14	6					
	Allowance to 1 Vaccinator working on the Shevaroy Hills at Rupees 5 per mensem	60	0	0	43	8	5					
	Contingencies	50	0	0	1	8	0					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,920	0	0	2,511	10	3	7,341	93·46	0	5	10

Coimbatore District... ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	797	5	6					
	6 1st-class Vaccinators at Rupees 18 each do. ...	1,296	0	0	1,177	12	5					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	811	7	9					
	Allowance to 2 Vaccinators working on the Neilgherry Hills at Rupees 5 each per mensem...	120	0	0	120	0	0					
	Contingencies	50	0	0	...	...	...					
	Batta to mothers of vaccinated children	100	0	0	...	...	...					
	Total ...	3,246	0	0	2,906	9	8	10,627	89·60	0	4	10
Malabar District.	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	322	8	10					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	862	2	2					
	7 2nd-class Vaccinators at Rupees 10 each do. ...	840	0	0	798	12	1					
	Contingencies	50	0	0	2	2	8					
	Batta to mothers of vaccinated children	100	0	0	2	6	10					
	Total ...	2,694	0	0	1,988	0	7	8,817	86·44	0	4	2
South Canara District ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	789	11	0					
	5 1st-class Vaccinators at Rupees 18 each do. ...	1,080	0	0	1,022	2	6					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	655	13	5					
	Allowance to a Vaccinator working on the Ammindivi Islands at Rupees 5 per mensem	60	0	0	60	0	0					
	Contingencies	...	...	...	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	14	8	0					
	Total ...	2,870	0	0	2,542	2	11	22,077	92·23	0	1	11
Nellore District...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	680	7	4					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	886	7	5					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	746	10	3					

A.

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendence in the Madras Presidency during the year* 1870-71.—(Continued.)

1		2			3			4	5	6		
		Sanctioned.			Expended.			Total Number Vaccinated	Per-centage of Successes excluding those unknown from the Total.	Cost of each Successful Case.		
		RS.	A.	P.	RS.	A.	P.			RS	A.	P.
Nellore District.—(*Continued*)	Contingencies	...	...	...	...	...	...					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,594	0	0	2,313	9	0	8,670	91·24	0	4	8
Kistna District ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	837	0	0					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	864	0	0					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	738	5	2					
	Contingencies	50	0	0	1	0	0					
	Batta to mothers of vaccinated children	100	0	0	...	...	...					
	Total ...	2,694	0	0	2,440	5	2	10,369	91·002	0	4	1
Godavery District.	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	638	5	0					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	828	11	2					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	833	12	6					
	Contingencies	50	0	0	0	15	0					
	Batta to mothers of vaccinated children	50	0	0	...	...	...					
	Total ...	2,644	0	0	2,301	11	8	11,416	80·62	0	4	0
Vizagapatam Dist.	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	813	11	4					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	838	0	0					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	744	14	5					
	Contingencies	...	...	...	0	13	0					
	Batta to mothers of vaccinated children	25	0	0	2	4	3					
	Total ...	2,569	0	0	2,399	11	0	2,737	92·83	0	15	2
Jeypore, Vizagapatam District ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	812	4	0					
	6 1st-class Vaccinators at Rupees 18 each do. ...	1,296	0	0	1,246	13	11					
	Contingencies	...	...	...	...	...	...					
	Batta to mothers of vaccinated children	25	0	0	...	...	...					
	Travelling Allowance	1,620	0	0	929	8	0					
	Total ...	3,781	0	0	2,988	9	11	1,475	88·54	2	4	7
Ganjam District ..	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	979	0	0					
	4 1st-class Vaccinators at Rupees 18 each do. ...	864	0	0	710	9	7					
	7 2nd-class do. at Rupees 10 each do. ...	840	0	0	721	12	5					
	Contingencies	...	...	...	...	...	...					
	Batta to mothers of vaccinated children	25	0	0	...	...	...					
	Total ...	2,569	0	0	2,411	6	0	1,604	63·34	2	5	11

A.

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendence in the Madras Presidency during the year* 1870-71.—(Continued.)

1		2			3			4	5	6		
		Sanctioned.			Expended.			Total Number Vaccinated	Per-centage of Success, excluding those unknown from the Total	Cost of each Successful Cases.		
		RS.	A.	P.	RS.	A.	P.			RS	A.	P.
Hill Tracts of Ganjam. ...	Superintendent's salary at Rupees 70 per mensem ...	840	0	0	652	0	0					
	6 1st-class Vaccinators at Rupees 18 each do. ...	1,296	0	0	1,098	0	0					
	Batta to mothers of vaccinated children	50	0	0	..	...	...					
	Travelling Allowance	1,620	0	0	420	0	0					
	Contingencies	...	...	...	...	...	...					
	Supernumerary Vaccinators at Rupees 10 per mensem ...	...	...	...	244	0	0					
	Total ...	3,806	0	0	2,414	0	0	1,977	89·63	1	15	5
	Grand Total ...	83,187	0	0	72,444	14	10	1,90,029	90·94	0	8	0
	MILITARY CANTONMENTS.											
Bangalore ...	1 1st-class Vaccinator at Rupees 18 per mensem ...	216	0	0	236	5	9					
	1 2nd-class do. at Rupees 10 do. ...	120	0	0	97	8	0					
	Total ...	336	0	0	333	13	9	1,263	90·81	0	4	7
Secunderabad ...	1 1st-class Vaccinator at Rupees 18 per mensem ...	216	0	0	216	0	0					
	1 2nd-class do. at Rupees 10 do. ...	120	0	0	120	0	0					
	Total ...	336	0	0	336	0	0	1,666	82·65	0	3	10
Kamptee ...	1 2nd-class Vaccinator at Rupees 10 per mensem ...	120	0	0	120	0	0					
	Total ...	120	0	0	120	0	0	579	84·97	0	3	10
	General Total ...	792	0	0	789	13	9	3,508	85·97	0	4	2
	TEMPORARY VACCINATORS.											
Madras Collectorate.	1 2nd-class Vaccinator at Rupees 10 per mensem ...	10	0	0	16	0	0	55	90·90	0	8	2
Salem District ...	3 2nd-class Vaccinators at Rupees 10 each per mensem ...	30	0	0	3	13	11	12	66·66	0	11	9
Coimbatore do. ...	3 do. do. do. ...	30	0	0	15	2	6	53	66·03	0	6	11
Malabar do. ...	3 do. do. do. ...	30	0	0	6	7	3	68	85·29	0	1	9
South Canara District	2 2nd-class Vaccinators at Rupees 10 each per mensem, together with 1st and 2nd Class Vaccinators sent from other districts to work here temporarily	40	0	0	40	0	0	6,355	93·93	0	0	2
	Total ...	140	0	0	75	7	8	6,543	91·16	0	0	2
	PRIVATE VACCINATORS.											
	7 Vaccinators in different Districts	...	...	...	...	...	...	5,213	93·28	...	...	...
	Total ...	...	...	...	...	...	...	5,213	93·28	...	...	...

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendence in the Madras Presidency during the year 1870-71.*—(Continued.)

1	2			3			4	5	6		
—	Sanctioned.			Expended.			Total Number Vaccinated.	Percentage of Successes excluded from the Total.	Cost of each Successful Case.		
B.—Paid by Municipalities.											
	Rs.	A.	P.	Rs.	A.	P.			Rs.	A.	P.
1 Vaccinator at Berhampore at Rupees 10 per mensem.	120	0	0	105	2	7	174	95·97	0	10	0
1 do. at Bimlipatam at „ 13 do. ...	216	0	0	171	3	7	84	70·23	2	14	5
1 do. at Calicut at „ 10 do. ...	120	0	0	103	7	9	757	77·67	0	2	10
1 do. at Palghautt at „ 10 do. ...	120	0	0	120	0	0	923	95·44	0	2	2
2 Vaccinators at Bellary at „ 10 each do. ...	240	0	0	240	0	0	1,078	91·09	0	3	11
1 Vaccinator at Coimbatore at „ 12 do. ...	144	0	0	144	0	0	1,088	89·04	0	2	5
1 do. at Cochin at „ 10 do. ...	120	0	0	120	0	0	525	51·28	0	7	2
1 do. at Chicacole at „ 12 do. ...	144	0	0	114	0	0	179	79·89	1	2	3
1 do. at Cuddapah at „ 10 do. ...	120	0	0	125	0	0	258	69·76	0	10	8
1 do. at Guntoor at „ 10 do. ...	120	0	0	117	13	8	239	66·94	0	11	9
1 do. at Dindigul at „ 7 do. ...	84	0	0	85	6	0	1,375	90·95	0	1	2
1 do. at Anantapoor at „ 10 do. ...	120	0	0	74	5	4	102	95·09	0	12	3
1 do. at Conjeveram at „ 15 do. ...	180	0	0	164	8	0	693	61·47	0	6	2
1 do. at Combaconum at „ 10 do. ...	120	0	0	123	2	0	845	85·78	0	2	9
1 do. at Tinnevelly at „ 10 do. ...	120	0	0	120	0	0	444	90·99	0	4	9
1 do. at Tuticorin at „ 10 & 15 do. ...	150	0	0	150	0	0	221	91·95	0	11	10
1 do. at Mayaveram at „ 10,15,&c. do. ...	131	12	0	131	12	0	479	100	0	4	5
2 Vaccinators at Tanjore, one at Rupees 15 and the other at Rupees 10 per mensem...	300	0	0	300	0	0	1,118	92·21	0	4	8
1 Vaccinator at Wallajahpett at Rupees 10 per mensem...	120	0	0	78	0	0	141	97·87	0	9	0
1 do. at Kurnool at Rupees 10 do. ...	120	0	0	120	0	0	193	78·75	0	12	8
1 do. at Negapatam at Rs. 10,12, &c. do. ...	148	13	4	148	13	4	670	89·25	0	3	11
2 Vaccinators at Vizagapatam at Rupees 10,12,14, &c., each per mensem	250	0	0	250	0	0	243	88·53	1	3	8
1 Vaccinator at Vizianagrum at Rs. 8 & 10 per mensem.	110	0	0	110	0	0	381	93·43	0	4	11
1 do. at Salem at „ 15 do. ...	180	0	0	180	0	0	629	94·91	0	4	9
1 do. at Adoni at „ 10 do. ...	120	0	0	123	10	8	969	96·07	0	2	2
1 do. at Palamcottah at „ 10 do. ...	120	0	0	120	0	0	834	44·48	0	5	2
1 do. at Mannargudi at „ 10 do. ...	120	0	0	120	0	0	513	95·71	0	3	11
2 Vaccinators at Trichinopoly at Rupees 12 and upwards each per mensem	307	4	0	307	4	0	1,336	79·71	0	4	7
1 Vaccinator at Musulipatam at Rupees 10 per mensem.	120	0	0	162	2	0	843	86·00	0	3	7
1 do. at Nellore at „ 12 do. ...	144	0	0	162	7	5	1,155	95·40	0	2	4
1 do. at Vellore at „ 10 do. ...	120	0	0	120	0	0	403	90·81	0	5	3
1 do. at Tellicherry at „ 10 do. ...	120	0	0	120	0	0	562	49·46	0	6	11
1 do. at Mangalore on Rupees 10 & 15 for 10 months and 2 Vaccinators on 10 Rs. each for 2 months.	160	13	4	163	13	4	789	79·84	0	4	2
1 Vaccinator at Madura at Rupees 18 per mensem ...	216	0	0	216	0	0	2,316	95·98	0	1	7
do. at Cannanore at „ 10 do. ...	120	0	0	120	0	0	465	78·70	0	5	3
Total ...	5,266	10	8	5,156	15	8	22,936	85·00	0	4	2
C.—Paid by Native Chiefs or Landlords.											
Ganjam ... 1 1st-class Vaccinators at Rupees 18 per mensem ...	216	0	0	72	0	0					
1 do. do. 12 do. ...	144	0	0	144	0	0					
23 2nd. class Vaccinators at Rupees 10 each do. ...	2,760	0	0	2,308	0	0					
Total ...	3,120	0	0	2,524	0	0	9,028	93·02	0	4	10

A.

No. III.—*Statement showing Expenditure of Vaccine Department in each District of Superintendance in the Madras Presidency during the year* 1870-71.—(Continued.)

1		2			3			4	5	6		
	—	Sanctioned.			Expended.			Total Number Vaccinated.	Percentage of Successes, including those unknown from the Total.	Cost of each Successful Case.		
		RS.	A.	P.	RS.	A.	P.			RS.	A.	P.
Vizagapatam ...	28 Vaccinators at Rupees per mensem	3,714	0	0	2,695	12	0	7,321	87·07	0	6	9
Pittapoor ...	2 do. on 10 Rupees each in Pittapoor per mensem	240	0	0	274	3	0	888	75·67	0	6	3
Nuzeed	2 do. at Nuzeed at 10 Rupees each do. ...	240	0	0	235	0	0	831	72·8	0	6	2
Nellore	1 Vaccinator at Vencatageri at 10 Rupees do. ...	120	0	0	120	0	0	632	96·51	0	3	2
North Arcot ...	1 do. at Bungarupalim at 10 Rupees do. ... 1 do. at Carvettinaggur at Rupees 10 do. ... 1 do. at Poonganoor at Rupees 10 do. ...	360	0	0	280	1	0	1,020	97·94	0	4	6
Madura ...	1 1st-class Vaccinator at Sevagunga at Rs. 18 do. ... 2 2nd-class Vaccinators at do. ,, 10 each do...	216 240	0 0	0 0	216 240	0 0	0 0	2,096	94·72	0	3	8
	Total ...	5,130	0	0	4,061	0	0	12,788	88.03	0	5	9
Tanjore ...	1 1st-class Vaccinator at Poodoocotah at Rs. 18 per mensem 2 2nd-class Vaccinators do. ,, 10 each do ...	216 240	0 0	0 0	216 240	0 0	0 0					
	Total ...	456	0	0	456	0	0	2,201	86·68	0	3	10
Madura	3 2nd-class Vaccinators at Ramnad at Rupees 10 each per mensem	360	0	0	360	0	0	4,472	96·62	0	1	4
	Total ...	9,066	0	0	7,401	0	0	28,489	90·79	0	4	9
	Madras Railway	...	...	...	...	...	...	28	...	...	...	...
	D.—Paid by Natives in the Sub-Collectorate of Salem.											
	3 2nd-class Vaccinators at Salem at Rupees 10 each per mensem	140	0	0	108	11	1	835	95·68	0	2	2
	Total ...	140	0	0	108	11	1	835	95·68	0	2	2
	Grand Total ...	98,591	10	8	95,976	15	0	2,57,581	90·43	0	5	10

A.

No. IV.—*Statement showing Results of the year* 1870-71 *as compared with those of each of the previous four years in Madras Presidency.*

1	2	3	4	5				6			7			8			9		
Years.	Total Number of Persons Vaccinated.	Number Successful.	Ratio per cent. Success, for, excluding those unknown from the Total.	Number of Vaccinators. A. Paid by State.	B. Paid from other Sources.	C. Total.	D. Number previously employed as Occulators or Native Practitioners.	Cost of whole Establishment.			Cost of Travelling Allowance and contingencies.			Total Cost.			Cost of each successful case.		
								RS.	A.	P.	RS.	A.	A.	RS.	A.	P.	RS.	A.	A.
1866	194,504	168,057	86·38	138	...	138	...	67,200	2	5	227	1	2	67,427	3	7	0	6	5
1867	270,749	242,579	87·63	144	...	144	...	72,355	14	1	239	10	5	72,595	8	6	0	4	9
1868	264,696	236,817	89·46	211	...	211	...	68,827	6	6	2,147	7	9	70,974	14	3	0	4	9
1869	255,685	230,207	90·035	225	...	225	...	71,245	6	6	1,878	14	0	73,124	4	6	0	5	0
1870-71 ...	257,581	232,935	90·43	254	112	366	...	79,329	3	0	6,647	12	0	85,976	15	0	0	5	10

B.—Dispensary Vaccination.

No V.—*Statement showing Particulars of Vaccination in each District of Superintendence in the Madras Presidency during the year* 1870-71.

1	2	3		4		5		6	7	8	9																					10					11		12
											Primary Vaccination.																					Re-vaccination.					Per-centage of successful cases excluding those doubtful from the total.		
											A.		B.					C.					D.	A.	B.	C.	D.											
											Sex.		Caste.					Age.		Result.				Results.															
Circle.	Name and Rank of Superintendent of Vaccination.	No. of Native Supts. of Vaccination attached to the Dispensary. 1870-71.	1869.	No. of Vaccinators attached to the Dispensary. 1870-71.	1869.	Total No. of Persons Vaccinated. 1870-71.	1869.	Collectorate, Political Agency, or Native State for the population of which the Dispensary is provided.	Population of Area included in the last Column.	Name of Dispensary.	Males.	Females.	Christians.	Hindoos.	Mahomedans.	Parsees.	Other Castes.	Under one year.	Above one year.	Successful.	Unsuccessful & Doubtful.	Unknown.	Total.	Successful.	Unsuccessful, including those doubtful.	Unknown.	Total.	In Primary Vaccinations.	In Secondary Vaccinations.	Average Number of Persons Vaccinated by each Vaccinator.
	W. Wilson, M.-D., Civil Surgeon, Cuddalore.	...	...	1	1	420	590	South Arcot District.	1,259,794	Cuddalore	222	198	...	416	4	...	...	50	370	420	...	...	420	...	...	...	...	100	...	420
		...	...	1	1	315	94		37,000	Old Town, Cuddalore.	107	108	25	136	53	...	1	43	172	185	30	...	215	...	...	...	...	86·04	...	215
		...	...	2	2	735	684				329	306	25	552	57	...	1	93	542	605	30	...	635	...	...	...	...	93·27	...	317

General Return of Vaccination by Medical Subordinates for the year 1870-71.

Divisions and Forces.	Town.		Regiment.		Regimental Lines.		Regimental Bazar.		Canton.		Parcherry.		Jails.		Village		Total.		Successful.	Unsuccessful.	General Total Males and Females.	Ratio per-cent. of Success.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.				
Presidency and Northern Districts ...	1,587	512	739	42	...	...	...	...	...	...	...	...	1,626	85	...	...	3,952	1,029	3,275	1,706	4,981	65·74
Southern Division...	2,281	1,413	644	44	...	...	...	...	...	...	...	...	1,855	176	...	...	4,970	2,033	[illegible]	3,014	6,998	71·19
Mysore and Ceded Districts	181	68	769	37	...	...	...	...	...	...	...	...	770	54	...	...	1,720	509	1,410	819	2,229	63·25
Hyderabad Subsidiary Force ...	73	69	237	161	...	...	...	...	16	17	...	...	...	...	...	...	315	247	379	183	562	67·43
Nagpore Force ...	...	...	261	228	...	...	...	...	...	...	...	...	...	...	...	...	261	228	379	110	489	77·5
Pegu Division ...	...	...	40	10	...	...	...	...	...	...	...	...	...	...	...	...	40	10	35	15	50	70·0
Total ...	4,121	2,062	2,[illegible]	1,052	...	...	...	...	16	17	...	...	4,251	815	...	...	11,253	4,046	10,457	4,947	15,304	68·33

JOHN SHORTT, M.D., Surgeon,
Superintendent-General of Vaccination,
Madras Presidency.

PUBLIC DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read letter from the Inspector-General, Indian Medical Department :—

(Here enter 17th October 1871, No. 344.)

ORDER THEREON, 11th March 1872, No. 324.

The Inspector-General, Indian Medical Department, submits the Report of the Vaccine Department for a period of fifteen months, *i.e.*, from the 1st January 1870 to the 31st March 1871. The returns for the first three months of 1870 have been prepared in accordance with the forms formerly in use, while the returns for the official year 1870-71, *i.e.*, from April 1870 to March 1871, have been prepared according to the forms prescribed by the Government of India in their Resolution, dated the 3rd December 1869, No. 5,303, and 4th August 1870, No. 3,618.

2. The Vaccine Establishment during the year 1870-71 was 9·2 per cent. below its strength, consequent on the difficulty experienced in procuring qualified men to fill vacancies. One Superintendent died in the hill tracts of Ganjam and one was dismissed. Among the Vaccinators, seven deserted, five resigned, six were dismissed, and seven died.

3. The aggregate cost of vaccination during the year was Rupees 85,976-15-0, viz :—

	RS.	A.	P.
Paid by Government	73,310	4	3
Do. by Municipalities	5,156	15	8
Do. by Rajahs, Zemindars, &c., (chiefly in the Ganjam and Vizagapatam Districts.)	7,509	11	1
Total ...	85,976	15	0

4. The aggregate number of persons vaccinated was 273,520—

In Madras and the districts in the provinces...	196,572
Military Cantonments	3,508
By Medical Subordinates	15,304
By do. attached to Civil Dispensaries	635
By Private Vaccinators	5,213
By Municipal do.	22,936
By Vaccinators employed by Native Chiefs and others	29,324
By Apothecaries on the Madras Railway ...	28
Total ...	273,520

1867 ...	... 270,749
1868 ...	... 264,896
1869 ...	... 255,685
1870-71 ...	... 273,529

5. Compared with the work done in the three preceding years there was an increase, in 1870-71, in the number of persons vaccinated of 2,580, 8,633, and 17,644 respectively.

6. The per-centages of successful operations were in—

	Maximum.	Minimum.
1867	97·41	77·32
1868	98·69	67·53
1869	97·99	84·23
1870-71	97·56	58·53

7. The sex and caste of persons vaccinated by the Vaccine Establishment were as follow:—

Sex.

Males	113,073
Females	87,007
	200,080

Caste.

Christians	3,753	
Hindoos	167,003	
Mahomedans	25,771	
Other Castes	3,553	
		200,080

Similar information is not forthcoming from Municipalities and from Vaccinators employed by Native Chiefs, &c. The General Return of Vaccination by Medical Subordinates still gives merely the sex, although in paragraph 7 of G. O., dated the 11th January 1871, No. 31, it was directed that the caste should also be given. The attention of the Inspector-General, Indian Medical Department, will be drawn to the subject with a view to instructions being issued by him to ensure the required information being given in the return for 1871-72. The Municipalities and Local Fund Boards will also be moved to supply returns in accordance with those prescribed by the Government of India.

8. The cost of each successful case operated upon by the vaccine staff varies from Rupees 2-5-11 in the District of Ganjam to Rupees 0-1-11 in the District of South Canara. The average cost is 8 annas.

9. The cost per successful case by Vaccinators employed

in Military Cantonments was	0	4	2
By Temporary Vaccinators	0	0	2
By Municipal do.	0	4	2
By Vaccinators paid by Native Chiefs &c.	0	4	9
By do. paid by Natives in the Sub-Collectorate of Salem	0	2	2

The variations in the cost are remarkable. The attention of the Superintendent-General of Vaccination will be drawn to the subject.

10. The numbers vaccinated during 1870-71 in the several districts, compared with 1869, show that there was a decrease in vaccination in the Depôt at Madras and in ten districts in the provinces. In ten districts there was an increase, the largest being in South Canara.

	1869.	1870-71.
Vaccine Depôt	4,472	3,436
Madras Town	5,484	...
Madras District... ...	7,302	...
Madras Collectorate ...	...	4,576
Chingleput	...	6,315
North Arcot	14,396	6,040
South Arcot	15,064	14,419
Trichinopoly	7,668	9,680
Tanjore	13,650	14,525
Madura	10,927	13,802
Tinnevelly	8,851	12,111
Cuddapah	3,596	4,239
Kurnool	2,371	2,596
Bellary	10,170	11,720
Salem	9,685	7,341
Coimbatore	13,515	10,627
Malabar	9,376	8,817
South Canara	8,888	22,677
Nellore	13,789	8,670
Kistna	10,323	10,369
Godavery	9,603	11,416
Vizagapatam	4,075	3,737
Do. Hill tracts	2,539	1,475
Ganjam	3,328	1,604
Do. Hill tracts ..	2,632	1,877

11. The Government approve the issue of batta to the mothers of children from whom lymph is to be extracted, and who are required to follow the Vaccinators; but this, as well as other matters connected with the efficient working of the Vaccinators, will receive the consideration of the Municipal and Local Fund Boards who will provide in future the necessary charges in their respective Budgets.

12. The Government appreciate the efforts made by the Superintendent-General of Vaccination to encourage Private Vaccinators, as well as the liberality of the Kavetinagar Zemindar in aiding in the publication of a treatise on vaccination for gratuitous distribution.

13. The efforts made by Mr. Price to encourage vaccination in Salem were, it is observed, noticed in G. O., dated the 4th September last.

14. The Collectors of Districts where Zemindars employ Vaccinators will impress upon them the necessity of paying the men punctually on some fixed date. Dr. Shortt's suggestion to employ Government Vaccinators in Zemindaries, "the owners of the estates being made to pay the salaries through the Collector," does not commend itself to Government. They also agree with the Inspector-General that the independent action of Municipalities in the matter of appointing Vaccinators cannot be interfered with.

15. In conclusion, Collectors of Districts, in which large landed properties are situate, will endeavour to interest the Zemindars in the work of vaccination to a greater extent than is now perceptible.

Ganjam ..	25
Vizagapatam	28

Seventy Vaccinators are employed by Zemindars and Native Chiefs; and of these, all but seventeen appear in the lists for Ganjam and Vizagapatam. The Court of Wards are also invited to consider whether some establishment cannot be

allowed for this important purpose in the numerous estates under their charge, beyond what may be sanctioned at present, on which point the Government have no direct information, though they have reason to believe that very little has been done.

(True Extract.)

D. F. CARMICHAEL,
Acting Secretary to Government.

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