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Contributors

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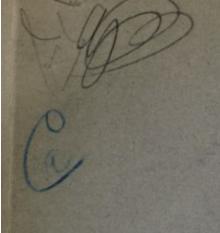
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TRIENNIAL REPORT

ON

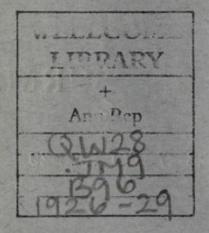
VACCINATION IN BURMA

FOR THE YEARS 1926-27 TO 1928-29



Rangoon
Supdt., Govt. Printing and Stationery, Burma
1929

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RESOLUTION

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For the Years 1926-27 to 1928-29.

Extracts from the Proceedings of the Government of Burma, Public Health Department,—No. 253S29 (R.N. 505), dated the 30th September 1929.

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The Triennial Report on Vaccination in Burma for the years 1926-27 to 1928-29.

RESOLVED THAT-

The Report be published.

By order.

F. H. STEAVENSON,

Secretary to the Government of Burma, Education Department.

RESOLUTION

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Triennial Report on Vigetination in Burma

For the Years 1986-27 to 1928-29.

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The Report to published.

By order

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Secondary to the Government of Burms, Kalmadian Department. [The maximum limit of the body of the Report is eleven pages,]

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TRIENNIAL REPORT

ON

Vaccination in Burma

For the years 1926-27 to 1928-29.

General Review.—It is a hopeful sign that while the deaths from Statement small-pox in the Province during the triennium under report are less than those recorded in the previous triennium, as will be seen from the figures noted below, the output of vaccination recorded exceeded that of the previous two periods :-

	Small-	pox.	Output of v	accination.	ing muchy es	
Years.	Attacks.	Deaths.	Primary.	Revaccina- tion (5)	Total.	
1924-25	 9,725 9,205 10,050	2,839 3,312 3,623	544,341 531,035 557,442	208,106 275,584 285,287	752,447 806,619 842,729	
Total	 28,980	9,774	1,632,818	768,977	2,401,795	
1927-28	 5,035 8,282 7,137	2,233 2 452 2,419	511,750 550,154 608,414	208,801 320,248 330,864	720,551 870,402 939,278	
Total	 20,454	7,104	1,670,318	859,913	2,530,231	

The incidence of small-pox during the present triennium is less than in the previous triennium. Thus in 1926-27, 2,233 deaths from smallpox were recorded. The deaths increased in the following year to 2,452 and in 1928-29 were slightly less than in the previous year 2,419 deaths. The output of vaccination work in the current triennium rose steadily year by year as is shown in the above table. The most satisfactory feature is that there is an increased output of both primary and re-vaccinations every year of the triennium, establishing a record during the year 1928-29.

The steady increase in the output during the six years (save 1926-27), is partly due to the extension of compulsory Vaccination Acts to rural areas and partly to better appreciation by the people of the benefits conferred by vaccination. Nowhere is there serious opposition to vaccination except in a few backward and primitive tracts and even in these areas, the people willingly submit to vaccination when faced with small-pox outbreaks. Several District Health Officers in Lower Burma have reported that vaccinations and revaccinations are more appreciated by Karens than by other classes; and that parents, specially in the

more remote areas are reluctant to have their children vaccinated before the end of the first year. With the increasing propaganda work now being carried out by the Public Health and Vaccination Staffs, there is some prospect of vaccination improving still further, but more efficient supervision of the work is greatly needed and must await the urgently needed development of a rural public health service.

During the triennium, the Vaccination Acts were extended to two more districts, viz. Mandalay from March 1927 and Shwebo from January 1929. These Acts have now been extended to the Lower Chindwin District from April 1929 and it is hoped that the District Council of Sagaing and others will follow suit. The beneficial results on deaths from small-pox of the extension of the Vaccination Acts are clearly brought out in the following table, which indicates the need for extension of these Acts to those districts whose Councils have not yet adopted compulsory primary vaccination and have therefore neglected to avail themselves of the means at their disposal for checking the ravages of this serious disease. Great credit is due to the District Councils of Tharrawaddy and Thayetmyo for their pioneer work in this respect.

Districts where Vaccination Act was extended in 1923. (Deaths from Small-pox).

5 years before extension.						5 years after extension.					NOTE !	rate.	
6161 2	© 1920.	₹ 1921.	€ 1922	© 1923.	S Total.	® Death	€ 1924	(c) 1925.	E 1926.	1927.	(13)	Total.	Death
11	12-	26	23	16	88		3	17	3	2	4	29	
			11		400	and		6 milet	14	29	74	255	
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Districts where Vaccination Act was not extended.

(Deaths from Small-pox).

Kyaukpyu	9	32	uo i	99		140	0.01	odi	33	o is	109.00	1	34	B 12 18
Sandoway	4	31	12	41	10	98		47	11	12	ac	6	76	
Pakôkku	74	30	5	11.2	109	218	1110	89	94	36	44	56	319	
Meiktila	57	36	26		61	180		96	151	21	22	8	298	B DE
Myingyan	362	130	53	22	64	631		192	613	550	83	100	1538	
Yamèthin	7	22	11	1	3	33	olos	28	88	20	20	87	243	Sit/us
Sagaing	259	49	31	21	17	377		144	284	180	44	100	652	***
Population—9	.977.	491 (5 yea	rs)	odin.	1677	:17	Por	oulatio		0,269 5 year		3160	31

Statement I

2. Total Operations,-The total number of operations performed during the triennium was 2,530,231, as compared with 2,401,795 in the previous triennium, an increase of 128,436 operations—and of 511,837 on that of the triennium 1920-21 to 1922-23. Out of 41 districts, 23 show an increase and 18 a decrease. The district which returned the largest increase is Akyab, in which 56,759 more operations were recorded than in the previous triennium, almost entirely re-vaccinations—the gain under this class of vaccination being 54,286. In this district the presence of small-pox was the inducement for the increase. In 1926-27 the number of deaths recorded from small-pox was only 34; it rose to 162 deaths in 1927-28, and was serious in 1928-29, when 526 deaths were registered. Simultaneously with the rise in small-pox deaths, the output of vaccination rose from 20,786 in 1926-27 to 46,351 in 1927-28 and 64,250 in 1928-29. The next district which returned a notable increase is Prome with an excess of 31,325 over the figure of the previous triennium. In this district also small-pox was present throughout the triennium and more prevalent than in the previous triennium. The Deputy Commissioner, Prome (Mr. Stanford) attributed the increase and improved state of vaccination to the appointment of an Assistant District Health Officer, Dr. Chit Twe, to the keenness of the District Health Officer, Major Hamlin, and to the supervision and great interest taken by both in vaccination and public health matters. ascertained that for six years previously, certain Mr. Stanford villages had not been visited by the vaccinators and that their diaries were falsified. The recent stimulus to vaccination in this district is largely due to his personal interest in vaccination as in all matters affecting the health of the people. The third place in which a large increase is noticed is Rangoon, where 25,018 more operations were performed than in the previous triennium, although the incidence of small-pox was less. The other districts which returned appreciable increases are Magwe (+23,414). Toungoo (+22,574) Amherst (+20,623) Southern Shan States (+ 19,509) Shwebo (+ 15,138), Yamethin (+ 14,643) and Pegu (+ 12,497). In all these districts small-pox was prevalent more or less constantly. This disease is the chief stimulant for people to submit to vaccination readily, as illustrated in the case of the districts mentioned above, and particularly in the case of the Magwe district. In this district (rural areas) there were three deaths from small-pox in 1926-27. In the month of March 1927, there was a sudden severe outbreak of small-pox in Taungdwingyi Town, resulting in 51 deaths from the disease in that month. The outbreak lasted up to June taking a toll of 190 deaths in four months and from this place it spread into the rural areas of the district, where 145 deaths occurred in different villages in 1927-28. This spread of the disease aroused the district authorities who appointed additional temporary Vaccination Staff in that year and vaccination and revaccination were carried out vigorously. The output of vaccination in the district rose from 19,616



in 1926-27 to 43,021 in 1927-28. In the last year of the triennium 1928-29 the out break subsided, only 51 deaths being registered and simultaneously the output of vaccination went down to 27,693.

Of the 18 districts which recorded a decrease, Pakôkku topped the list with a deficit of 23,004. The reasons furnished by the District Health Officer were a reduced incidence of small-pox and non-employment of additional temporary staff, whereas in the previous triennium small-pox was more prevalent and additional temporary staff was entertained to cope with it. The steady decline in this district since 1924-25 up to 1927-28 requires further elucidation. In 1923-24, the output recorded was 34,351; it went down to 26,914 in 1924-25 and from this year onwards the decline is continuous up to 1927-28. In 1925-26 the output was 24,822, in 1926-27, 20,780 and in 1927-28, 20,477. There was only a slight rise in 1928-29, viz. 21,826 or an increase of 1,349 over the previous year's output. A very unsatisfactory feature is the reduction in primary vaccination.

The next district which returned a large deficit is Upper Chindwin—20,358 fewer operations were recorded. Absence of serious outbreak of small-pox, economy exercised in lymph supply, difficulties of communications and of transport and unwillingness on the part of the people to submit to vaccination during non-epidemic years are stated to be the main causes of the decline; but as stated in the Notes and Statistics on Vaccination in Burma for 1927-28 and as pointed out by the District Health Officer and the Deputy Commissioner the inadequacy of Vaccination Staff may be another reason for the unsatisfactory state of vaccination work in this district. The area of the district is large, some 16,000 square miles, communication is very difficult and most of the people ignorant and backward. Here also there has been a falling off of primary vaccination as well, since the serious small-pox epidemic of 1925-26.

The other districts which recorded large deficits are Myingyan (-14,796) (mainly in re-vaccinations), Sagaing (-14,715) Minbu (-14,635) Ma-ubin (-9,983), Thatôn (-9,294) (all re-vaccinations—primary vaccinations showing an increase), Kyaukpyu (-7,394), Insein (-7,207), Kyauksè (-6,859) and Sandoway (-5,460); but it is encouraging to note that in nearly all these districts the output in the year 1928-29 was more than that of either of the previous years of the triennium. The deficit in other districts calls for no comment.

Statement I.

3. Primary Vaccination.—A total of 1,670,318 primary vaccinations was recorded during the triennium under report, as compared with 1,632,818 in the previous triennium or an increase of 37,500 operations. In 24 districts there is an increase and in 17 districts a decrease. In four districts only a marked increase occurred, viz., Prome (+ 19,394), Southern Shan States (+ 10,965), Toungoo (+ 10,273) and Amherst (+ 9,580). An increase of over 5,000 primary

operations was registered in the Chin Hills and Katha districts. In the remaining 18 districts the increase is not marked. The increase recorded in the Southern Shan States is commendable, in view of the fact that people in this area are very ignorant, there are difficulties in communication and the villages are widely scattered.

In the 17 districts from which a deficit is returned in primary operations, Mandalay stands at the top of the list with 9,095 fewer operations followed by the Upper Chindwin with a deficit of 7,685. A deficit of over 5,000 is reported from Insein and Henzada, over 4,000 from Kyaukpyu, Myaungmya and Ma-ubin and over 3,000 from Sandoway, Myingyan and Sagaing. The decrease in primary cases in Myaungmya, Pyapôn, Mergui and Lower Chindwin is covered by the increase in re-vaccination cases in these districts. In the remaining districts there is a decrease under both classes of vaccinations and these are the same districts in which a large deficit in total operations is recorded, as noted in paragraph 2 above.

4. Successful Primary Operations.—During the triennium, 1,509,029 Statemen L successful primary operations were recorded as compared with 1,538,221 in the previous period—a deficit of 29,192 successes. The decrease was solely due to unsatisfactory results obtained in 1927-28 in which year only 92.16 per cent. of primary cases were reported as successful.

With the exception of Akyab, Rangoon, Thatôn, Meiktila and Southern Shan States, the same districts which returned a decrease in primary operations also returned a decrease in successful cases. Akyab district which returned an increase of 2,473 in primary operations during the triennium, recorded a deficit of 2,834 in primary successes. Similarly Rangoon which recorded an increase of 196 in primary operations showed a deficit of 2,461 successes. Thatôn follows the above two places but the loss in successful cases is only 93. In the case of Minbu, a gain of 1,663 successes was recorded in contrast with a loss in primary operations of 2,186. Meiktila and Southern Shan States show fairly large deficits. The loss sustained in primary successes in the former district was 1,858 and in the latter 6,015.

The provincial percentage of success in primary cases in 1928-29 was 97'11, as compared with 92'16 in 1927-28 and 96'63 in 1926-27. With the exception of a few distant places, such as the Hill District of Arakan, Sandoway, Mergui and Chin Hills, the percentages of success recorded in the remaining districts in 1928-29 compare very favourably with those recorded in 1927-28. Myaungmya district returned cent. per cent. primary successes, closely followed by Tharrawaddy with 99'98 per cent. and Ma-ubin with 99'88 per cent. Other districts which recorded over 99 per cent. success rate are Prome, Henzada, Pyapôn, Amherst, Toungoo and Kyauksè. Over 98 per cent. of successes were reported from Rangoon, Bassein, Magwe, Sagaing, Katha and Northern

Shan States and a success rate below 98 per cent. but above 95 per cent. was recorded in Hanthawaddy, Insein, Thatôn, Tavoy, Minbu, Mandalay, Myingyan, Yamèthin, Shwebo and Southern Shan States. In the remaining districts which are not mentioned here, the success rates vary between 90 and 95 per cent. On the whole, the success rate obtained in 1928-29 in all the districts, with the exception of the four remote ones mentioned above, is very satisfactory.

The district which reported the lowest success rate is Chin Hills (82'75 per cent.), but the lymph takes ten days to reach there from Meiktila and hence the potency is partly lost during transit. The low success rate of 86'35 per cent. in Sandoway District is partly due to poor communications and partly to unwillingness on the part of the people to have three insertions on the arms of the children. The matter is receiving the attention of this Department and an Epidemic Sub-Assistant Surgeon has been detailed to the district to carry out vaccination propaganda work and also to supervise the work of vaccinators. Mergui also reported a low success rate of 85'76 per cent. Here also communications are bad.

Statement L.

5. Re-vaccination.—The total number of re-vaccinations recorded during the triennium was 859,913 as against 768,977 in the previous period—an increase of 90,936. Judging from this increase in spite of lessened incidence of small-pox during the period under report, it may be concluded that the people in general are beginning to realize the benefit of double vaccination—once at infancy and again at the age of about ten years,—as a means of protection from small-pox throughout life.

In 23 districts, there was an increase in re-vaccinations and in 18 a decrease. The increase in Akyab was the greatest in the Province, amounting to 54,286 cases. In this district the number of re-vaccinations rose from 3,525 in 1926-27 to 25,858 in 1927-28 and to 40,075 in 1928-29, making a total for the triennium of 69,458 as against only 15,172 in the previous period. The other districts which returned substantial increases are Rangoon with an excess of 24,822, Magwe (+21,522), Shwebo (+12,678), Toungoo (+12,301), Prome (+11,931), Yamèthin (+11,490), Amherst (+11,043) and Pegu (+9,999). An increase of over 8,000 cases was reported from Southern Shan States, over 7,000 from Northern Shan States, over 6,000 from Myaungmya and over 5,000 from Salween districts.

Of the 18 districts in which a reduction in re-vaccinations is recorded in the triennium, Pakkôku stands first, 20,295 fewer cases being reported. As the low output of work as a whole in this district has already been commented upon above, it is unnecessary here to make further comments.

The deficit in other districts in order of sequence is Upper Chindwin (-12,673), Minbu (-12,449), Thatôn (-12,127), Sagaing (-11,120), Myingyan (-11,110), Kyauksè (-8,775), Katha (-6,195) and Ma-ubin

(-5,630). In the above districts, with the exception of Thaton and Myingyan, the prevalence of small-pox was low and hence the reduction in re-vaccination.

In Thatôn district, although the number of deaths from small-pox recorded during the current triennium is slightly higher than that recorded in the previous period, re-vaccination work shows a marked decline.

In Myingyan district, the incidence of small-pox during the two periods is about the same, but re-vaccination work shows a serious falling off, with the result that the disease has apparently gained a strong foothold and is still prevalent, both in town and district. The Vaccination Acts are not in force in this district and the Local Authorities are reluctant to extend them, although the necessity for doing so has been urged on them by this Department. The District Council, in my opinion, must bear a share of responsibility for the serious outbreak of small-pox which has recently occurred.

The percentage of success in re-vaccination in 1928-29 was 36'22 as compared with 39'88 in 1927-28 and 35'97 in 1926-27. A high percentage of successful re-vaccinations was reported from Bassein town 95'80. It may be noted that in the Northern Shan States, vaccination work is carried out for only six months in the year from October to March. The District Health Officer suggests altering this system.

6. Vaccination in Towns.—In the 73 towns to which the Vaccination Acts have now been extended, as compared with 63 towns in the last triennium, a total of 401,691 operations was performed during the triennium. This compares with 363,414 in the previous period. Of the total operations, 148,217 were primary and 253,474 re-vaccinations, as against 138,923 and 224,491 respectively, in the previous triennium. The increase in primary vaccination was not very large, amounting to 9,294 operations, but in re-vaccination, an excess of 28,983 operations was recorded over that of the previous period. The percentage of success for the triennium in primary vaccinations was 95'20 and in re-vaccination 44'35, as compared with 98'80 and 51'60 respectively in the previous period.

The total number of operations performed in towns during 1928-29 was 130,705, i.e., 42,985 fewer operations were performed than in 1927-28. Only in 29 towns was there an increase. The decrease in the output during 1928-29 was chiefly due to a great falling off in re-vaccination work in Rangoon town, where only 29,253 re-vaccinations were done as against 82,992 in 1927-28 or a decrease of 53,739. The towns which showed a decrease in the output other than Rangoon in order of sequence were Moulmein (-2,083), Toungoo (-2,025), Taungdwingyi (-1,666), Syriam (-1,489) and Pegu (-1,274). In Moulmein and Syriam, the deficit was wholly due to fewer re-vaccinations. In Toungoo, Taungdwingyi and Pegu, the deficit is noticeable under both classes of vaccinations.

7. Re-vaccination in Towns.—78,202 re-vaccinations were performed in towns during 1928-29, as compared with 124,391 in 1927-28—a decrease of 46,189. The towns returning an excess are Mandalay, Mônywa and Meiktila.

It is gratifying to note that since the enactment of the Burma Vaccination Law Amendment (Amendment) Act of 1928 (Burma Act IV of 1928) enabling Municipal and Town Committees to frame rules for making re-vaccination compulsory in their respective areas, such rules have been framed by the Municipal Committees of Pegu, Prome, Mônywa and Syriam and the Town Committees of Zigôn, Thingangyun and Kanbe, and it is hoped that other Municipal and Town Committees will soon follow suit.

Appendix B.

8. Infant Vaccination in Towns.—In the 73 towns mentioned in the previous paragraph, the total number of births registered during 1928-29 is 37,593, out of which 11,306 infants died before attaining the age of one year, thus leaving 26,287 survivors available for vaccination. The total number of children under one year successfully vaccinated in these towns during the year was 32,707 or 6,420 children in excess of the available survivors for the year. The excess over the available survivors vaccinated in Rangoon and Mandalay towns was unusually large. In the former town 1,709 infants were thus vaccinated in excess of the surviving children and in the latter town 2,547.

In 18 towns, viz., Pegu, Nyaunglebin, Tharrawaddy, Thônzè, Minhla, Insein, Thamaing, Kamayut, Prome, Bassein, Ma-ubin, Danubyu, Pyapôn, Moulmein, Thayetmyo, Mandalay, Kyauksè and Myinmu (Sagaing District), the number of children under one year successfully vaccinated exceeded the total number of births registered. This may be due to defective registration of births, and careless upkeep of vaccination registers. The number of children successfully vaccinated exceeding the survivors available for vaccination was in Tavoy 136, in Meiktila 119, Pyinmana 120 and Myinmu 112.

In 34 towns, the number of infants successfully vaccinated was less than the survivors available; Ye-u town is the worst in this respect; of the 109 infants available for vaccination, only 9 were successfully vaccinated, thus leaving 100 children unprotected from small-pox by vaccination—a very unsatisfactory state of affairs. The next place is Myitkyina, in which 173 children were available for vaccination, and of which only 27 were successfully vaccinated, the rest (146 children) being left unprotected. The same remarks apply to Lashio and Taunggyi towns, but as to all these towns the Vaccination Acts were only very recently extended, perhaps the lack of powers is the chief reason for the smaller number of children submitted to vaccination. In Pyu town, 201 survivors were available for vaccination, of which only 43 were successfully vaccinated. The remaining cases were reported as either having left the town or vaccination postponed on medical grounds. In

Toungoo, only 269 children were successfully vaccinated out of 425 survivors and in Shwegyin only 59 were vaccinated out of 161. The reasons given were the same as for Pyu. In Akyab, 100 children were thus left unprotected, in Thôngwa 130 and in Thatôn 110. No reasons are forthcoming for the deficits in the vaccination reports submitted from these towns.

The various reasons for the excess or deficit in infant vaccinations noted above have been discussed in previous reports; the most important being defective registration of births, defective upkeep of vaccination registers, migration of children, postponement of vaccination on medical grounds and non-employment of proper vaccination and supervising staffs. The employment of whole-time Health Officers with adequate powers in these towns seems to be the only solution of the problem.

9. Dispensary Vaccination.—In previous years, vaccination operations performed in hospitals and dispensaries were shown separately in Appendices attached to the Annual Reports as Statement No. III. In the Report under review, these operations have been included in the main Statement No. 1 at the instance of the Government. In effecting this change, Public Health Department Circular No. 10, dated 31st December 1928, was issued to all District Health Officers and Health Officers giving instructions in the preparation of these statements.

During the triennium 23,859 operations were performed in hospitals and dispensaries, of which 17,082 were primary and 6,777 re-vaccinations, as compared with 23,884 (primary 14,474 and re-vaccination 9,410) in the previous triennium.

In the year 1928-29, dispensary vaccination figures were reported from 15 districts only. As in previous years the bulk of dispensary vaccination work was done in Myitkyina district, in which 3,371 operations were performed; while over 1,000 operations were reported from Tharrawaddy, Northern Shan States and Southern Shan States. The success rate in primary was 99'45 and in re-vaccination 43'31 per cent. This is an indication perhaps that dispensary vaccination is not popular or that the dispensary staff has no time for this work, which would be better done by whole-time vaccinators under the control of whole-time District Health Officers and Inspectors of Vaccination.

10. Jail Vaccination.—In Jails 32,585 operations were performed, of which 1,109 were primary and 31,476 re-vaccinations. Of primary cases, 897 were successful and of re-vaccinations 16,790, yielding success rates of 80'88 and 53'34 per cent. respectively.

11. Vaccination by Private Practitioners.—During 1928-29 medical practitioners performed 372 primary and 505 re-vaccinations, with a success rate in the former of 97.53 and in the latter of 26.75 per cent. The total number of children under one year successfully vaccinated by them was 192 and between one and six years—122.

Statement I (Summary).

12. Steamer Vaccination.—Under the provision of the Burma Vaccination Law Amendment Act of 1909 and the further Act of 1928, 186,966 labourers landing at the Port of Rangoon were vaccinated during 1928-29 by the Corporation Vaccination Staff under the supervision of Port Health Department, as against 44,937 in 1927-28. The results are unknown, as all of them were allowed to proceed to their destination after operation.

13. Verification work of Inspecting Officers.—During the year 1928-29, 946,761 persons were vaccinated. The District Health Officers and Assistant District Health Officers claimed to have inspected the results of 98,926 or 10'45 per cent. (or the average minimum expected-10 per cent.) as against 74,374 or 8'74 per cent. in 1927-28 and 60,661 or 8'38 per cent. in 1926-27; thus there was an improvement on the work of the previous two years by these officers. Out of 41 districts, the total number of cases inspected by the District Health Officers in 12 districts, viz., Pegu, Prome, Ma-ubin, Amherst, Tavoy, Magwe, Chin Hills, Mandalay, Meiktila, Sagaing, Katha and Northern Shan States is worthy of mention. Of these 12 districts, the number of cases inspected by the District Health Officer, Northern Shan States, topped the list with 11,681 or 28'00 per cent. of the total number of persons vaccinated in the district, followed by Magwe with 7,937 or 28.65 per cent. The work of the District Health Officer, Amherst, comes third, with 6,971 cases inspected or 13'53 per cent. The inspection work of the remaining nine District Health Officers in order of precedence of total number of persons inspected is Katha 5,553, Tavoy 5,086, Pegu 4,381, Ma-ubin 4,053. Meiktila 3,840, Chin Hills 3,584, Prome 3,086 and Mandalay 2,934. The work of the District Health Officer, Chin Hills District (Dr. Ottman) is highly commended by the Deputy Commissioner who writes "The district is fortunate in having a Civil Surgeon who devotes so much of his time to touring the villages and helping the people. Great improvement in vaccination is due to closer supervision and personal verification in his extensive tours by the Civil Surgeon." The inspection work done by the District Health Officers of Tavoy and Katha is especially commendable in view of many difficulties prevailing in these districts. In the former district, 60'68 per cent. of the total number of persons vaccinated and in the latter 38'36 per cent. were inspected. In Prome and Meiktila districts a large number of cases was inspected by the Assistant District Health Officers. In Myingyan district and Southern Shan States, no vaccination cases were inspected by the District Health Officers. The reasons for this are being enquired into. District Health Officers of districts having large hospitals to attend to and often large jails in addition, cannot be expected to do much touring in their districts, but whenever they do tour, vaccination inspection should form part of their work. The District Health Officer, Hill District of Arakan, inspected the results of only 56 out of a total of 2,069 cases.

El dependent II

Reviewing the work of Inspectors of Vaccination and other inspecting officers in rural areas of the districts, the work done in Tharrawaddy, Amherst, Magwe, Yamèthin, Sagaing and Lower Chindwin Districts is worthy of mention. In each of these districts, only a single Inspector of Vaccination is employed, yet they inspected a larger number of cases than the Inspectors of any other district. In Tharrawaddy, the results of 63'88 per cent. of the total vaccinations were inspected by the Inspector of Vaccination. The Inspector of Amherst inspected 32'45 per cent., Magwe 45'19 per cent., Yamèthin 40'13 per cent., Sagaing 62'29' per cent, and Lower Chindwin 46'70 per cent. In the districts in which two Inspectors are employed viz., Pegu, Insein, Hanthawaddy, Prome, Bassein, Henzada, Myaungmya, Ma-ubin, Pyapôn, Toungoo, Thatôn and Katha, the work done by the Inspectors of Pegu, Myaungmya, Ma-ubin and Pyapôn should be regarded as satisfactory as each inspected the results of over 10,000 vaccinations. In the Report for 1927-28, the work of the two Inspectors in Thatôn district has been criticised and in that year each of them verified the results of 5,294 vaccinations. During 1928-29, they inspected 6,531 each—an increase of 1,237. Comparing the work of Inspectors of districts mentioned above, the work done by the Inspectors in Hanthawaddy, Insein, Prome, Bassein, Henzada and Toungoo is inadequate. In Hanthawaddy, each Inspector verified 6,045, Insein 4,962, Prome 5,220, Bassein 5,918 and Henzada 7,643.

Considering the conditions under which the Inspectors have to do their work, those Inspectors employed in the Salween, Pakôkku, Chin Hills and Upper Chindwin Districts have done creditably, as they managed to verify a large percentage of the cases vaccinated. It may be mentioned here that the inspection work involves not only the actual inspection of the children vaccinated, but also of the various registers, forms and foils maintained by the Ward headmen and Vaccinators, of the equipment of the vaccinator and of the various methods employed for finding out unregistered and unvaccinated children.

The District Health Officer, Insein and Hanthawaddy, reports that though people are willing to have their children vaccinated, they consider it a nuisance to take them again for verification by the District Health Officer or Inspecting Officers, and that Ward-headmen have lost their influence and prestige and are indifferent to sanitary and public health matters.

An interesting system is followed by the District Health Officer, Pakôkku, who instructs his Vaccinators to make an entry of each case in the Headmen's Birth Registers and initial it with date, so as not to lose sight of any registered birth. One or other of the following entries is made—(1) successfully vaccinated, (2) vaccinated, but not successful, (3) sick, (4) died, (5) absent, (6) under age, (7) parents opposed to vaccination. At their next visit they have to search for and vaccinate all children under (2), (3), (5), (6) and 7.

Statement II.

14. Establishment.—The strength of the Vaccination Staff employed during the years of the two triennial periods is shown in the following Table:—

	Year.		District Superin- tendents	Part-tim vising C	e Super- officers.	Inspec- tors of	Vaccina	Vaccina
24 12 to			of Vacci- nation. (2)	S.A.S.	P.H.I. (4)	Vaccina- tion. (5)	tors.	(7)
1923-24 1924-25 1925-26			41 41 41	36 27 27	6 8	44 43 44	1 1 1	339 342 365
Average			41	30	5	44	1	349
1926–27 1927–28 1928–29			41 41 41	28 28 31	9 11 13	42 43 42	1 1 3	377 384 385
Average			41	29	11	'42	2	382

The number of Sub-Assistant Surgeons receiving vaccination allowance, and employed in the Department as part-time Supervising Officers in 1928-29, was 31, as against 28 in each of the two preceding years; and that of Public Health Inspectors 13, as compared with 11 in 1927-28 and 9 in 1926-27. The cadre of Inspectors of Vaccination was 42 as against 43 in the previous year. The decrease of one was due to the death of one Inspector of Vaccination in Bassein District, his place being filled by appointing a Public Health Inspector. During the year three Head vaccinators were employed as against one in the former year. The increase was due to the post of Head Vaccinator left vacant in Karenni State, having been filled by promoting a senior vaccinator and the creation of a new post in Loimwe Subdivision.

Seven new posts of vaccinator were created during the year, viz., one each in the districts of Pegu and Northern Shan States, two in Shwebo, one each in the towns of Chauk, Taunggyi and Thingangyun cum Kanbè. The six additional temporary vaccinators employed in Magwe district in 1927-28 were dispensed with in 1928-29.

Seventeen additional temporary vaccinators were employed for varying periods from one to six months in Amherst, Yamèthin, Meiktila, Myingyan, Shwebo and Lower Chindwin Districts, and in Mandalay and Rangoon towns.

During 1928-29, one Inspector in Toungoo district was invalided on medical grounds and two Inspectors—one in Sandoway and another in Bassein—died. Four vaccinators—one each in Myaungmya, Magwe, Myingyan and Bhamo—resigned the service and four vaccinators—one each in Tharrawaddy, Thatôn, Bhamo and Loimwe Subdivision of

Southern Shan States were removed or dismissed from the Service, while seven vaccinators, one each in Prome town and in the districts of Pegu, Thatôn, Pakôkku, Shwebo, Katha and Southern Shan States, died.

15. Cost of Department.-The cost of the Department shown in State- Statement II ment II as Rs. 4,29,062-6-0 includes Rs. 36,215-11-0 paid by Local Bodies as price of lymph supplied to them by the Vaccine Depôt, Meiktila. The expenditure of the Department on the production of the lymph is also added to this total so that duplication of cost has resulted. Deducting therefore Rs. 36,215-11-0 which was really a receipt by the Government Department, there was an expenditure of Rs. 3,92,846-11-0, as against Rs. 4,03,228-12-3 in 1927-28 and Rs. 3,86,245-10-1 in 1926-27. The increase under the head "Pay of the Establishment" was Rs. 9,621-2-2 due to increments of pay. There was a decrease of Rs. 3,264-10-6 under the head "Travelling Allowances" due to the introduction of the new travelling allowance rules.

The average cost per successful case of vaccination was Rs. 0-9-7 as compared with Rs. 0-11-1 in 1927-28 and Rs. 0-11-7 in 1926-27. The cost per successful case is highest in the Pakôkku Hill Tracts, viz., Rs. 2-9-3. The other districts and town which returned high rates are the Hill District of Arakan Rs. 1-6-8, Rangoon Town Rs. 1-6-0, Upper Chindwin District Rs. 1-3-7, Hanthawaddy and Salween Districts each Rs. 1-3-3, Insein District Rs. 1-1-6 and Mergui District Rs. 1-0-2. The high cost per case in undeveloped hill districts is inevitable, whilst in Insein and Hanthawaddy the paid Inspecting Staff is greater than elsewhere and their salary and travelling allowance swell the rate. In Rangoon, out of a total of 39,215 operations less than 10,000 were primary cases and nearly 30,000 were re-vaccinations. Only 7,324 of the re-vaccinations were recorded as successful. Besides, 186,966 immigrants were vaccinated at the wharf and the results of these are unknown, but a large staff has to be maintained for this purpose; their salaries and the heavy contingent expenditure on lymph, medicines etc., increasing the rate per successful case. In Mergui District 2,179, i.e., about a quarter of the cases vaccinated were re-vaccinations and of these only 816 were successful, while 510 were secondary vaccinations. A low cost per successful case was recorded from Yamèthin District (Rs. 0-5-0), Sagaing District (Rs. 0-5-1) and Akyab District (Rs. 0-5-5). In Meiktila District the cost was Rs. 0-6-0, Northern Shan States Rs. 0-6-3 and Prome Rs. 0-6-5.

16. Small-pox Inoculation.—Although the practice of small-pox inoculation is prohibited by law in all the districts in the Province, it is still occasionally found in certain districts resulting in outbreaks of small-pox. Thus in the Dedayè Township of Pyapôn District, one inoculator inoculated 86 persons, among whom 37 contracted small-pox and two died; and in Kyaiklat Township, another inoculator operated on 15 persons, all of whom contracted small-pox, while one died. These two inoculators

along with the parents of the inoculated children were prosecuted and the Saya who performed inoculation at Dedayè was sentenced to six week's rigorous imprisonment while the other Saya at Kyaiklat was fined Rs. 25. The six parents were fined Rs. 20 each. Another inoculation case was pending in the Court at the close of the year. In Henzada 145 prosecutions were launched for inoculation and 129 parents along with the inoculators were fined. The fines realized amounted to Rs. 900. Four Headmen were also fined Rs. 25 each, for connivance in inoculation. In Toungoo District 112 persons were prosecuted and all were fined except one. In Lower Chindwin District, the inoculator and the Headmen were fined Rs. 20 each. In Yamèthin District, three parents of inoculated children were prosecuted and two were fined Rs. 25 each and one Rs. 15. Cases of prosecution for small-pox inoculation in Tharrawaddy were pending in the Court at the close of the year and in Akyab the offenders escaped conviction for want of evidence.

17. Prosecutions under the Vaccination Acts.-The districts which reported prosecutions for infringement of Vaccination Acts were Hanthawaddy, Myaungmya, Pyapôn, Amherst, Thatôn and Mergui and the towns were Moulmein, Mandalay and Kawkareik. In all, 159 prosecutions were launched and most of the offenders were fined. In view of the vaccination prosecution cases from Pyapôn having been thrown out on appeal by the High Court because of the wrong application of certain sections of the Vaccination Acts, a Circular was sent to all District Health Officers and Health Officers, drawing their attention to the High Court judgment. For the same reason, revisions and amendments of the relevant forms have been undertaken and proposals sent up to Government for sanction. Some District Health Officers have drawn attention to the difficulties encountered in rural areas in enforcing the provisions of the Vaccination Act, 1880, regarding preliminary formalities prior to prosecution. In this connection, the Commissioner, Irrawaddy Division, strongly recommends that the Vaccination Acts should be consolidated and a Vaccination Manual issued.

18. Work of the Vaccine Depôt, Meiktila, during 1928-29.—The Calf Hospital attached to the Depôt was flyproofed and converted into a post-scraping stable. The dining room of the students hostel was enclosed with expanded metal to prevent theft. A thermosyphon heater was provided for the Benoid Gas Plant. A Glacia G—10 Ice Plant was installed during the year. With these exceptions, no other important alterations or additions were carried out at the Depôt. A new operation room, operation table and water supply system have been sanctioned for the Depôt, and funds have been provided for the building of a new rabbit house, all of which schemes are expected to be taken up during the financial year 1929-30.

Output of Lymph.—Three hundred and sixty-three cow-calves and fifteen buffalo-calves were successfully vaccinated during the year.

Fifteen cow-calves and four buffalo-calves either failed to take or yielded lymph of such poor quality that it had to be destroyed. The following Table compares the output and issue of lymph during the years of the triennium:—

6,803,6-9	n sun of Ra	Total	yield.	Average y	nulting uO	
Year.	Number of calves.	Oz.	Gms.	Gms.	Grs.	Doses issued,
1926-27	485	411 ⁻ 43 404 ⁻ 33	11,664	24.05	370°36 457°09	974,229
1927-28 1928-29	378 calves 10 buffalos 363 calves 15 buffalos	47.26 464.80 62.65	11,463 1,340 13,177 1,776	29.62 134.0 36.30 118.40	2069·88 516·18 1827·14	1,136,232

From the above Table, it will be seen that the average yield per cowcalf increased from 29'62 grammes during 1927-28 to 36'30 grammes during 1928-29. On the other hand, there was a drop in the yield from buffalo-calves. The average yield in 1927-28 from a buffalo was 134'0 grammes, but only 118'40 grammes during the last year.

There were in stock 2,378 grammes on the 1st April 1928, while 14,953 grammes were obtained during the year, of which 976 grammes were used as seed lymph. Owing to a broken bottle, 210 grammes were lost in 1928. On the 1st April 1929 there was a balance of 2,988 grammes sufficient for $2\frac{1}{2}$ months.

Technique.—Glycerinated lymph was used throughout the year and all lymph was subjected to bacteriological, animal, and Cunningham's potency tests before issue.

Lymph Supply.—Of the 1,376,338 do ses issued, 1,332,014 were supplied to Municipalities and districts on payment and the balance 44,324 doses were supplied free of charge to Military (3,281), Jails (28,643) and Government vaccinators at Kanpetlet and Chin Hills (12,400). For a few months in the year, there was difficulty in supplying the full demands, due to shortage of capillary tubes and to disease in calves.

Results.—Out of 265,842 primary vaccinations, the results of which were reported, a success rate of 99'09 per cent. was obtained in 1928-29 as against 90'32 in 1927-28 and 95'74 in 1926-27. In 116,845 re-vaccinations, the percentage of success was 35'76 as against 31'9.

Finance.—The gross income of the Depôt during the year 1928-29 excluding a sum of Rs. 6,893 due from Local Bodies at the close of the year was Rs. 37,322-11-6 of which Rs. 36,215-11-0 was realized from sale of lymph to Local Bodies and Rs. 1,107-0-6 from sale of vaccinated calves

The total expenditure of the Depôt for 1928-29 was Rs. 37,697-2-1 so that the net cost of the Depôt to Government during the financial year was Rs. 374-6-7 A sum of Rs. 16,683-2-0 was expended on establishment, Rs. 5,954 on purchase of calves and Rs. 4,283-12-6 as feeding

charges. On the 13th October 1928, a system of hiring calves for vaccination was introduced which has been found satisfactory and economical. The cost of Europe medicines and instruments was Rs. 3,717-13-7 and Rs. 195 was spent on petty construction and repairs. On contingencies including postage and telegrams a sum of Rs. 6,863-6-0 was expended.

There were severe outbreaks of rinderpest and toot-and-mouth disease among the calves towards the end of 1928, which caused great anxiety and financial loss. The advice of the Veterinary Department was obtained and special precautions taken to prevent future outbreaks. A quarantine stable is urgently required, and plans and estimates have been submitted and sent up to Government for sanction.

19. Training Class.—Seventy-seven apprentice vaccinators including six ladies were trained during the year and all passed the qualifying examination. Twenty-one Public Health Inspectors and six Sub-Assistant Surgeons also underwent training.

20. General Remarks.—Dr. G. H. Blaker, I.M.D., was Director of the Depôt with U Thaw Zan as Assistant Director throughout the year. Both these officers have carried out their work efficiently. I particularly desire to congratulate Dr. Blaker on his management of the Depôt which is being rapidly modernized. He has introduced many improvements in technique, has placed the Depôt on a sound financial basis, and has successfully met and overcome numerous difficulties. Major Bilderbeck and Dr. Anklesaria, Assistant Directors of Public Health, both visited the Depôt during the year 1928-29.

few mouths in the year, there was disculty in supplying the full

G. JOLLY, C.I.E., M.B., D.P.H., D.T.M.,

Lieut.-Colonel, I.M.S.,

Offg. Director of Public Health, Burma.

APPENDICES. PAGE STATEMENT No. I-Showing particulars of Vaccination in the Province of Burma during the year 1928-29 18 - 33STATEMENT No. II-Showing the cost of Vaccination Department in the Province of Burma during the year 1928-29. 36-43 STATEMENT No. III-Showing the number of persons primarily vaccinated and the number of those persons who were successfully vaccinated in the Province of Burma in each of the official years 1919-20 to 1928-29 STATEMENT No. IV-Showing particulars of Vaccination verified by Inspecting Officers during the year 1928-29 ... 46 & 47 APPENDIX A .- Showing the ratio per 10,000 successfully vaccinated and the mortality from small-pox by quinquennial periods 48 APPENDIX B .- Statistics relating to the number of children under one year of age in towns available for vaccination and the number of successful operations performed on them 49 & 50 APPENDIX C.—Diagram showing the proportion of population protected during the seven official years 1922-23 to 1928-29 and the death-rate from small-pox during the calendar year 1928 in districts where formal registration of vital statistics is in force 51

A.—VACCINATION
STATEMENT No. I—Showing the particulars of Vaccination in the

No.	Divisions and Districts.	Becording to Census of 1921	Average population per square mile.	Average number of vaccina- for the year.	Total	number of p vaccinated.	persons
		DIGI	1919191	plane are see	Males.	Females.	Total.
PAGE	tion to the Province of	HISTORY I	o melion	and but	o cipad	OK TH	
8-33	ARAKAN DIVISION,	1928-29	ng the ye	man Limit	18	on speak	Silber
81.18	Akyab District Rural	576,430 539,861	142	13 11	35,927 29,235	28,323 27,688	64,250 56,923
2	Urban	36,569 20,914	14	2 3	6,692 1,175	635 894	7,327 2,069
3	Kyaukpyu District	199,873	46	6	5,779	5,262	11,041
CP-1	Rural Urban	195,989	S. V.L.O. W	6	5,648	5,183	10,831
4	Sandoway District	112,029 108,267	30	4 3	3,100 3,039	2,677 2,628	5,777 5,667
	Rural Urban	3,762		1	61	49	110
48	PEGU DIVISION.	ocuesalul queun al	10,000 s	og olier o	dispungth dispund distinct re	Z A Z	APPEND APPEND
5	Rangoon Pegu District	345,505 445,620	4,487 109	22	30,771 15,242	8,444 16,656	39,215 31,898
181	Rural Urban	419,355 26,265	profiting (7 2	13,304 1,938	14,761	28,065 3,833
7	Tharrawaddy District Rural	492,429	172	13	16,619 15,090	17,809 16,284	34,428 31,374
16	Urban	43,429 364,624	195	5 9	1,529 9,994	1,525 9,385	3,054 19,379
8	Hanthawaddy District Rural	340,935		7	6,892	8,909	15,801
9	Urban Insein District	23,689 289,540	152	9	3,102 8,710	476 7,578	3,578 16,288
1100	Rural	254,031		6	7,306 1,404	6,387 1,191	13,693 2,595
10	Prome District	35,509 371,575	127	13	13,590	14,519	28,109
	Rural Urban	322,246 49,329		9 4	11,822	12,968 1,551	24,790 3,319
						,	
	IRRAWADDY DIVISION.						
11	Bassein District	489,473	119	16	13,680	13,617	27,297
	Rural Urban	434,904 54,569		12	11,387	11,910 1,707	23,297 4,000

^{*} Secondary opera † Work done by

DEPARTMENT.

Province of Burma during the year 1928-29 (Paragraphs 1, 2, 3, 4 and 5).

-	or persons tch vaccina-	Marine Ma Marine Marine Marine Marine Marine Marine Marine Marine Marine Ma Marine Marine Marine Marine Marine Ma Ma Marine Marine Marine Ma Ma Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Marine Ma Marine Ma Marine Ma Marine Ma Ma Marine Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	hilases/7-		Pri	mary	Vaccination	1.		and to proper of		
100	l by es				-	Suc	ccessful.			lies yould jo	N	lo.
(100)	Average number of a vaccinated by each for.		Total.	one	der year.	111	one and nder six years.	al	otal of l ages.	Unknown.	(1	1)
\$2.18 \$1.52 \$2.53 \$1.52	4,942 5,175 3,664 649 1,840 1,805 1,444 1,889 110	200000000000000000000000000000000000000	24,175 23,370 805 † 1,328 8,879 8,729 150 4,232 4,132 100	5,001 5,375 616 575 155 160 240 240	2,785 2,440 345 1 1,038 975 63 619 553 66	21	11,642 11,449 193 581 3,971 3,942 29 2,365 2,342 23		20,885 20,347 538 1,047 7,839 7,727 112 3,328 3,239 89	1,692 1,664 28 149 536 504 32 378 378	ASS Fore Hall Hall Rys Rus Sun Und Sun Und	1 2 3 4
14 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,749 3,544 4,009 1,917 2,564 3,811 569 2,153 2,257 1,789 1,810 2,282 865 2,162 2,754 830		† 9,962 18,833 16,816 2,017 † 22,869 † 20,628 † 2,241 15,046 14,448 598 12,272 10,407 1,865 21,902 19,678 2,224	9,959 4,115 3,017 498 3,283 3,283 454 48 464 2,335 416 48 69 804 0,327 48 48 48 48 48 48 48 48 48 48 48 48 48	6,702 6,208 5,085 1,123 6,077 4,800 1,277 4,105 3,750 355 3,767 2,943 824 5,766 4,300 1,466	The State of the S	1,273 8,807 8,468 339 14,223 13,553 670 7,892 7,685 207 6,077 5,110 967 15,067 14,458 609		8,197 17,544 15,863 1,681 22,447 20,229 2,218 14,073 13,506 567 11,582 9,726 1,856 21,460 19,283 2,177	1,661 1,156 924 232 418 398 20 257 257 345 337 8 303 278 25	Part District Pa	5 6 7 8 9
100 to 10	1,667 1,941 844		21,097 • 13,418 2,679	1,895	4,985 3,353 1,632	0 -	10,225 9,345 880		20,179 17,531 2,648	518 498 20	Harri Rosi Uril	11

tions included. other agencies included.

A.-VACCINATION STATEMENT No. I-Showing the particulars of Vaccination in the

			R	e-vaccinatio	n.	Percenta cessful which th were l	Persons success- fully vacci-	
No.	Divisions as		Total.	Successful.	Unknown.	Primary.	Re- vaccina-	nated p 1,000 o popula tion.
(1)	0 (37) (2) (1)	(13)	(14)	(15)	(16)	(17)	(18)
						Mades.		Total
	Arakan	Division.						
1	Akyab District Rural Urban		40,075 33,553 6,522	14,461 11,595 2,866	5,991 5,375 616	92°89 93°74 69°24	42:43 41:15 48:53	61°3 59°1 93°0
3	Hill District of Kyaukpyu Distr Rural Urban	rict	741 2,162 2,102 60	280 752 744 8	155 375 359 16	88:80 93:96 93:95 94:92	47.78 42.08 42.09 18.18	63°4 42°9 43°2 30°9
4	Sandoway Distr Rural Urban	rict	1,545 1,535 10	110 108 2	240 240 	86:35 86:28 89:00	8'43 8'34 20'00	30°0 30°9 24°1
	PEGU D	vision.						
5	Rangoon Pegu District Rural		† 29,253 13,065 11,249	7,324 2,902 1,868	9,959 4,115 3,617	98:75 99:25 99:82	37:96 32:42 24:48	44·9 45·8 42·2
7	Urban Tharrawaddy I Rural Urban	District	1,816 +11,559 +10,746 +813	1,034 3,558 3,217 341	498 3,536 3,283 253	94:17 99:98 100:00 99:86	78.45 44:35 43:10 60:89	103°3 52°8 52°2 58°9
8	Hanthawaddy I Rural Urban	District	4,333 1,353 2,980	1,204 303 901	464 48 416	95'16 95'17 94'82	31:12 23:22 35:14	41.9 40.5 61.9
9	Insein District Rural Urban	0,729.	4,016 3,286 730	570 475 95 1,655	2,333 2,327 6 864	97:11 96:58 99:95 99:36	33'87 49'53 13'12 30'98	41.9 40.1 54.9 62.2
0	Prome District Rural Urban-	10,285	6,207 5,112 1,095	1,444	639	99:40	32°28 24°25	64:3
	IRRAWADDY					V.00.01	50.05	
1	Bassein-District Rural Urban	11,021	6,386 5,065 †4,321	2,396 1,821 575	1,895 1,237 658	98:06 97:83 99:59	53°35 47°57 86°73	46·1 44·5 59·0

APPENDICES.

DEPARTMENT.

Province of Burma during the year 1928-29-contd.

The state of the s	Percentage of to tota	anknown cases I cases.	Average annua persons su vaccinated du five ye	ccessfully ring previous	deaths from	ual number of m small-pox previous years.	
-	tinaled, and	Sych Street	100	28	Districts.	Divisions and	No. 14
Total Ann	Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
1	(19)	(20)	(21) (4	(22)	(23)	(24)	(i)
	7.00 7.12 3.48 11.22 6.04 5.77 21.33 8.93	14.95 16.02 9.44 0.92 17.35 17.08 26.67 15.53	22,981 1,276 9,429 4,859	39°87 61°02 47°17 43°38	93	0·16 0·03	1 42 3 44 44 44 44 44 44 44 44 44 44 44 44 4
The state of the s	915	15.64	1 101	10, tb	Month of the control	MELSELVET	T SI
	16:67 6:14 5:49 11:50 1:83 1:93 0:89 1:71 1:78	34'04 31'50 32'15 27'42 30'59 30'55 31'12 10'71 3'55 13'96	25,311 16,410 22,277 17,456	73'41 36'83 45'24 47'87	267 161 21 53	0.78 0.36 0.04	7 8
	2 81 3 24 0 43 1 38 1 41 1 12	58·09 70·82 0·82 13·92 12·50 20·55	12,587 19,171 	43°36 51°59 	101 	0.15	10
	2'46. 2'70. 0'75	29.67 24.42 49.81	21,298	43:51	31	131	11 ES

other agencies included.

A.—VACCINATION
STATEMENT No. I—Showing the particulars of Vaccination in the

No.	(5) Population of districts (7) Average population per mile.		Average number of vaccina- to tors employed throughout the year.	Total number of persons vaccinated.			
	IRRAWADDY DIVISION—concld.				Males.	Females.	Total.
12	Henzada District Rural Urban	550,920 512,412 38,508	192	14 11 3	15,825 14,829 996	17,245 16,235 1,010	33,070 31,064 2,006
13	Myaungmya District Rural	370,551 349,709 20,842	140	15 12 3	15,547 14,594 953	17,384 16,557 827	32,931 31,151 1,780
14	Urban Ma-ubin District Rural Urban	330,106 305,938 24,168	201	12 9 3	14,611 13,295 1,316	14,619 13,942 677	29,230 27,237 1,993
15	Pyapôn District Rural Urban	288,994 271,661 17,333	135	10 8 2	11,657 10,728 929	13,005 12,134 871	24,662 22,862 1,800
	TENASSERIM DIVISION.						
16 17	Salween District Thatôn District Rural	50,379 471,100 448,841 22,259	19 98 	4 11 10 1	4,852 15,672 15,119 553	3,328 15,918 15,561 357	8,180 31,590 30,680 910
18	Urban Rural Urban	417,910 350,022 67,888	59	11 8 3	20,154 23,554 2,600	25,378 23,655 1,723	51,532 47,209 4,323
19	Tavoy District Rural	156,786 129,306	30	6 4 2	4,058 3,495 563	4,324 3,789 535	8,382 7,284 1,098
20	Urban Mergui District Rural	27,480 135,465 117,057	14	5 4	4,451 3,213	4,232 3,310	8,683 6,523
21	Urban Toungoo District Rural	18,408 381,883 350,117	62	1 13 10	1,238 15,884 14,659	922 15,055 14,077	2,160 30,939 28,736
	Urban MAGWE DIVISION.	31,766	1 230	3	1,225	978	2,203
22	Thayetmyo District Rural	255,406 233,419	54	8 6	6,419 5,219	6,580 5,726	12,999 10,945
23	Urban Rural Urban	21,987 274,302 262,065 12,237	83	2 7 5 2	1,200 6,272 6,085 187	854 6,379 6,213 166	2,054 12,651 12,298 353

* Secondary t Work done by

Province of Burma during the year 1928-29—contd.

	ch vaccina-		Prin	nary Vaccination		And the second s	
Average number of 5 vaccinated by each for.				nar enought.	No.		
		Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.	(1)
	2,362 2,824 609 2,161 2,560 563 2,430 3,026 642 2,466 2,858 900	29,062 27,818 1,244 †24,733 †23,678 † 1,055 †21,074 20,000 † 1,074 *19,209 *17,880 * 1,329	8,197 7,366 831 4,650 4,302 348 4,413 3,762 651 5,601 5,037 564	17,050 16,674 376 13,093 12,570 523 13,934 13,597 337 12,911 12,363 548	28,204 26,980 1,224 23,737 22,708 1,029 20,817 19,771 1,046 18,847 17,553 1,294	719 702 17 996 970 26 231 210 21 178 159	12 12 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
445 445 445 445 445 445 445 445 445 445	2,045 2,872 3,068 910 4,671 5,884 1,437 1,397 1,821 549 1,737 1,631 2,160 2,343 2,826 734	*3,996 20,616 20,017 599 †22,434 †20,543 *11,891 7,736 *6,794 942 *7,014 *5,990 *1,024 17,808 *16,602 *1,206	147 4,979 4,532 447 5,080 3,336 1,744 4,275 3,433 842 1,227 777 450 2,392 2,021 371	613 10,749 10,622 127 9,928 9,856 72 3,103 3,042 61 2,781 2,440 341 8,290 7,743 547	2,609 18,650 18,067 583 21,624 19,808 1,816 7,482 6,571 911 5,348 4,470 878 16,918 15,778 1,140	1,216 1,580 1,571 9 606 596 10 28 28 28 778 724 54 741 710 31	16 12 18 19 20
12. 0.07 0.07 0.07 0.07 0.07 0.07 0.07	1,625 1,824 1,027 1,807 2,460 177	10,101 8,530 1,571 12,841 •12,497 344	1,182 818 364 4,883 4,628 255	4,337 3,508 829 7,368 7,290 78	9,334 7,978 1,356 12,294 11,956 338	405 335 70 183 183	2:

operations included. other agencies included.

A.-VACCINATION

STATEMENT No. I-Showing the particulars of Vaccination in the

				Re-v	Re-vaccination.			Percentage of suc- cessful cases in which the results were known.		
No.	Divisions and Districts.			Charles &					nated per 1,000 of	
				Total. S	uccessful.	uccessful. Unknown.		Re- vaccina- tion	popula* tion	
(1)	(2)	(11)		(13)	(14)	(15)	(16)	(17)	(18)	
	IRRAWADDY DIVI	sion—con	cld.				tates	100		
12	Urban			4,008 3,246 762	683 620 63	664 644 20	99°51 99°50 99°76 100°00	20:42 23:83 8:49 37:50	52:43 53:86 33:42 70:62	
13	Urban			8,198 7,473 725 8,156	2,432 2,204 228 1,110	1,712 1,541 171 371	100.00	37:15 41:16 14:26	71°24 60°31 66°42	
14				7,237 † 919 5,486	961 149 1,043	221 150 425	99°90 99°34 99°03	13:70 19:38 20:61	67·77 49·45 68·82	
15	Pyapôn District Rural Urban		::	5,006 480	987	376 49	99.05	21.32	68:25 77:89	
	Tenasserim	Division								
16	Salween District Thatôn District Rural Urban	000.5		*4,251 10,974 10,663 311	871 2,620 2,518 102	1,417 2,051 1,934 117	93°85 97°97 97°95 98°81	30.73 29.36 28.85 52.58	69.08 45.15 45.86 30.77	
18	Amherst District Rural Urban			29,119 †26,666 2,453	4,529 5,421 1,108	3,539 3,109 430	99°07 99°30 96°54	17'71 14'52 54'77	62·58 66·36 43·07	
19	Tavoy District Rural Urban			853 697 156	354 289 65	98 4	97.07 97.12 96.71	47:14 48:25 42:76	49.98 53.05 35.52	
20	Urban			2,179 1,027 1,152	816 287 529	158 66 92	85.76 84.88 90.52	40°38 29°86 49°91	40.64 76.43	
21		E RICOL E TELL E E E E E E E E E E E E E E E E E E E	•••	13,135 †12,134 1,001	2,857 2,415 442	2,143 2,097 46	99°13 99°28 97°02	25'99 24'06 46'28	51.96	
22	MAGWE I			2,898	1,452	173	96:27	53128	42.23	
	T			2,415 483	1,305 147	114 59	97.35	56'71 34'67	39·77 68·36	
23	Minbu District Rural Urban			55 46 9	17 14 3	6	97:12	34'69 30'43 100'00	44.88	

* Secondary

DEPARTMENT.

Province of Burma during the year 1928-29-contd.

	n small-pox previous	Average annu deaths from during p five y	cessfully ing previous	Average annua persons suc vaccinated dur five ye	Percentage of unknown cases to total cases.				
No.	Divisions and	Districts	THE HOLD		To hetcok ov				
	· Ratio per 1,000.	Number.	Ratio per 1,000.	Number.	Re-vaccination.	Primary. Re-v			
(1,	(24)	(23)	(22)	(21)	(20)	9)	(1		
	Acous Divisi	hlanya—ze				. mints			
12	0.06	33	49.83	27,453	16:57 19:84	2'47			
13	0.11	42	66.97	24,814	2.62 20.88	1.37			
	12				20.62 23.59	4°10 2°46			
14	0.20	65	64.81	21,395	4·55 3·05	1.10			
15					16.32	1.96			
15	0.23	66	65.28	18,867	7·75 7·51	0.89			
	ANALUNAIL	. Schmarc			10.51	1.43			
	adatay, District	3 420.2		10001	THE STATE OF	1212			
16	autos Dierrio		78.15	3,937	33:33	30.43			
17	0.16	73	40.67	19,160	18.69 18.14	7.66 7.85			
M DE					37.62	150			
18	0.10	40	48.03	20,071	12.15	2·70 2·90			
19	0.01	2	45.76	7,175	17.53 11.96	0.53			
	held"District		CALLET !		14.06 2.56	0.41			
20	0.09	12	38.07	5,157	7.25	11.09	10,39		
					6·43 7·99	12.09 5.27			
21	0.12	56	39.55	15,103	16·32 17·28	4.16			
	DAUSONS IN	'KOISIAI			4.60	2.57			
33 B	anio District	***	112,000	21	2,029	909.1			
22	TI C COGO	70	Camina	10.764	F-07	4.01			
22	0.30	78	42.14	10,764	5·97 4·72	3.93			
23	0.53	145	43.29	11,875	12.22 10.91	4·46 1·43			
31	Nan		030,000		66.67	1.46			

operations included, other agencies included.

A.—VACCINATION
STATEMENT No. I—Showing the particulars of Vaccination in the

No.	Divisions and Districts.	Population of districts according to Census of 1921	Average population per square mile.	Average number of vaccina- for tors employed throughout the year.	Total number of persons vaccinated.			
	MAGWE DIVISION—concld	ı.				Males.	Females.	Total.
24	Magwe District		423,252 393,995	115	10 6	14,826 14,030	12,876 12,259	27,702 26,289
25	Urban Pakôkku District Rural Urban		29,257 465,771 446,264 19,507	75	4 9 8 1	796 10,726 10,091 635	617 11,041 10,740 301	1,413 21,767 20,831 936
26 27	Chin Hills District Pakôkku Hill Tracts		110,079 20,043	14	5	5,972 602	4,949 233	10,921 835
15	MANDALAY DIVISION.		15-25	TOP			50-04 08-05 88-1	
28	Mandalay District Rural Urban		356,621 187,707 168,914	166	11 5 6	17,680 3,274 14,406	16,458 3,719 12,739	34,138 6,993 27,145
29	Kyauksè District Rural		142,677 136,570	111	5 4	3,275 3,123	3,819 3,636	7,094 6,759
30	Urban Meiktila District Rural	•••	6,107 289,897 281,029	127	6 5	152 8,547 6,920	183 8,624 7,389	335 17,171 14,309
31	Urban Myingyan District	•••	8,868 442,008	161	1 9	1,627 10,477	1,235 10,020	2,862 20,497
-	Rural Urban		415,983 26,025	111	7 2	9,647 830	9,396 624	19,043 1,454
32	Yamèthin District Rural		323,189 294,730	77	7 5	20,794 18,919	23,357 21,476	44,151 40,395
	Urban		28,459		2	1,875	1,881	3,756
12	SAGAING DIVISION.		SK 10.	600				
33	Bhamo District Rural	•••	112,960 105,219	16	4 3	2,029 1,864	1,960 1,791	3,989 3,655
34	Urban Myitkyina District Rural	•••	7,741 146,074 141,118	13	1 3 3	3,681 3,433	2,628 2,510	334 6,309 5,943
35	Urban Shwebo District Rural		4,956 380,016 366,659	68	 12 11	248 13,421 13,004 417	118 15,362 15,062 300	366 28,783 28,066 717

* Secondary
† Work done by

DEPARTMENT.

Province of Burma during the year 1928-29—contd.

r of persons	ach vaccina-	Primary Vaccination,									
Average number of persons a vaccinated by each vaccinated tor.				Successful.	aphilia tr	Distritors gnd	No(1)				
		Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.					
	2,769 4,382 349 2,419 2,604 936 2,184 835	†15,490 *14,584 †906 15,312 *14,760 552 *9,240 481	6,327 5,810 517 5,264 4,982 282 78 18	6,126 5,837 289 7,611 7,513 98 4,807 172	14,815 13,980 835 13,687 13,185 502 7,515 389	454 410 44 482 454 28 158 55	24 25 26 27				
130% SEC. 130% S	3,101 1,399 4,520 1,409 1,678 335 2,861 2,862 2,858 2,277 2,720 727 6,307 8,079 1,878	†17,083 *6,421 *†10,662 5,660 *5,329 331 11,224 10,726 †498 13,784 12,989 795 19,742 18,054 1,688	10,104 1,770 8,334 2,748 2,486 262 2,031 1,747 284 6,488 6,032 456 5,962 5,277 685	5,072 3,321 1,751 2,614 2,567 47 6,438 6,265 173 4,429 4,306 123 7,771 7,149 622	15,916 5,429 10,487 5,434 5,106 328 8,989 490 12,066 11,457 609 17,517 16,016 1,501	601 599 2 194 191 3 1,500 1,494 6 1,441 1,305 136 1,604 1,466 138	28 29 30 31 32				
12 12 12 12 12 12 12 12 12 12 12 12 12 1	808 966 334 979 857 2,399 2,551 717	3,239 †3,025 214 5,440 †5,239 201 18,331 17,862 469	267 180 87 190 163 27 3,786 3,486 300	1,528 1,414 114 1,076 1,002 74 10,809 10,690 119	2,222 2,021 201 1,835 1,667 168 15,788 15,351 437	870 870 3,487 3,476 11 1,753 1,733 20	33				

operations included. other agencies included.

A.—VACCINATION
STATEMENT No. I—Showing particulars of Vaccination in the

		R	e-vaccinatio	n.	Percenta cessful which th were	Persons success*	
No.	Divisions and Districts.	Total.	Successful	Unknown.	Primary.	Re- vaccina- tion.	nated pe 1,000 of popula- tion.
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
24 25 26 27	Magwe Division—concld. Magwe District Rural Urban Urban Urban Chin Hills District Pakôkku Hill Tracts	12,220 11,713 507 6,514 6,130 384 1.839 354	2,908 2,669 239 870 827 43 783 57	2,597 2,512 85 391 351 40 137 116	98.53 98.63 96.87 92.29 92.16 95.80 82.75 91.31	30°22 29°01 56°64 14°21 14°31 12°50 46°00 23°95	41.87 42.26 36.71 31.25 31.40 27.94 75.38 22.25
28 29 30 31 32	Mandalay District Rural Urban Kyaukse District Rural Urban Meiktila District Rural Urban Myingyan District Rural Urban Myingyan District Rural Urban Yamethin District	17,304 652 †16,652 1,450 *†1,446 4 5,947 3,583 †2,364 6,811 *6,152 659 24,409 22,341 2,068	6,506 298 6,208 584 584 2,262 1,592 670 1,035 962 73 7,107 6,483 624	101 100 1 265 263 2 915 791 124 1,768 1,516 252 4,661 3,887 774	96.57 93.25 98.38 99.41 99.38 100.00 92.44 92.06 99.59 97.76 98.06 92.41 96.58 96.55 96.84	37·82 53·99 37·28 49·28 49·37 44·95 57.02 29·91 20·52 20·75 17·94 35·99 35·13 48·22	62.87 30.51 98.84 42.18 41.66 53.71 38.81 35.91 130.81 29.64 29.85 26.21 76.19 76.34 74.67
33 34 35	SAGAING DIVISION. Bhamo District	750 †630 120 869 †704 165 10,452 10,204 248	222 153 69 427 288 139 5,327 5,177 150	129 129 239 221 18 1,732 1,711 21	93:79 93:78 93:93 93:96 94:55 88:42 95:23 95:18 97:33	35.75 30.54 57.50 67.78 59.63 94.56 61.09 60.96 66.08	21'64 20'66 34'88 15'49 13'85 61'95 55'56 55'99 43'98

† Dispensary Vaccination and work

DEPARTMENT.

Province of Burma during the year 1928-29-contd.

	Perce	ntage of to tota		own cases	1 3	Average and persons raccinated of five	succe	ssfully previous	deaths from	ual number of m small-pox previous years.		-
-	Pris	mary.	Re-	vaccination.	Total Care	Number.	STREET STREET,	Ratio per 1,000,	Number.	Ratio per 1,000.	1	ξo.
		19)	_	(20)	-	(21)		(22)	(23)	(24)	(1)
1		2.93	11	21.25	2000	18,080		42.72	211	0.20	\$42 \$102 \$101	24
-	7,595	2.81 4.86 3.15 3.08	No. II	21:45 16:77 6:00 5:73	0000	14,202		30.49	122	0,26	ink ink ink	25
	2,110	5:07 1:71 11:43	,	10.42 7.45 32.77	1	3,197 739	-	29·04 36·89	SHERRY NA	ES GHWARA	110	26- 27
-		2.52	20	0:50	100	10.601	-	52.44	- 35	diera Shan Si	No.	60
-	43,979	3:52 9:33 0:02	20	0.28 12.34 0.01	15	18,691	-	52:41	162	0.45	IS Und	28
1		3·43 3·58 0·91	0	18.58 18.19 20.00	-	7,076		49.59	21,	0.15		29
		13:36 13:93 1:20		15'39 22'08 5'25	101	8,481		29.26	74	0.26		30
-	137.13	10:45 10:05 17:11		25.96 24.64 38.24	60	15,915		36.01	344	0.78		31
-	ALE BOX	8·12 8·12 8·18	5	19°10 17;40 37°43	488	13,830		42-79	50 82 72	0.16		32
-	CE NO	LHA	100		102			100801	1000	Ruval .		
-	Mana.	26.86 28.76		17:20 20:48	10	4,906	-	43:43		to AU		33
	TORIT	64:10 66:35 5:47	200	27:50 31:39 10:91	170	3,205		21;94,	26-27	Tool for I		34
-	78,060	9·56 9·70 4·26	0.	16:57 16:77 8:47	(31.	16,784		42.89	63	0;16		35
Ī	tono	160,55		Z19.76 TH	88	100		880,580,677		Urban		

operations included.
done by other agencies included.

A.—VACCINATION

STATEMENT No. I-Showing particulars of Vaccination in the

	be referent termine littered, acceptance more activate acceptance grands	districts sus of 1921.	on per	of vaccina- throughout			Tomat
No.	Divisions and Districts.	Population of districts according to Census of 1921.	Average population per square mile,	Average number tors employed the year.	Total	number of p vaccinated.	
(1)	(2)	(3)	(4)	(5)	(01)	(6)	017
	SAGAING DIVISION—concld.						00
.36	Sagaing District	215 050	180	8 6	11,961 10,996	15,455 14,489	27,416
40	Rural Urban	44 050	1.080	81 2	965	966	25,485 1,931
37	Katha District	233,706	30	6	7,177	7,298	14,475
38	Upper Chindwin District Lower Chindwin District	000000	11 99	6 8	3,920 11,073	3,675 12,138	7,595 23,211
.,	Rural	344,923		7	9,733	11,368	21,101
25	Urban	9,225	4.401	1	1,340	770	2,110
27	FEDERATED SHAN STATES.	54.04	395	178.4	UA ZE		
40	Northern Shan States	559,223	28	20	21,582	20,141	41,723
	Rural	555,775		20	21,286 296	20,009	41,295
41	Urban Southern Shan States	011 460	23	22	23,843	132 20,541	428 44,384
-	Rural	905,452		21	23,640	20,339	43,979
201	Urban	6,016		1	203	202	405
.02	Total for 1928-29	13,169,099	56	385	487,575	459,186	946,761
30	Rural	11,895,815		292	402,171	412,477	814,648
189	Urban	1,273,284		93	85,404	46,709	132,113
283	50 016	100	-	1000	62.86	SPER	1
	Total for 1927-28	13,169,099	56	384	468,978	399,536	868,514
7	Rural	11,912,411		293	344,506	350,772	695,278
133	Urban	1,256,688		91	124,472	48,764	173,236
PR.	Total for 1926-27	13,169,099	56	377	376,161	342,918	719,079
35	Rural	11,912,411	1,267	289	310,246	310,227	620,473
	Urban	1,256,688	T.	88	65,915	32,691	98,606

* Secondary
† Dispensary Vaccination and work

DEPARTMENT.

Province of Burma during the year 1928-29—contd.

1 91							-
Average number of persons vaccinated by each vaccina-			Pris	mary Vaccination		manifest of the second	
numbe ed by e				Successful.	altrial)	hok contaries	No.
Average	tor.	Total.	Under one year.	One and under six years.	Total of all ages.	Unknown.	
(7)		(8)	(9)	(10)	(11)	(12) "	(1)
					Alama-se	darse Davie	8
	3,427 4,248	17,137 15,969	7,403 6,991	8,792 8,107	16,320 15,189	527 509	36
2	966	1,168 12,992	412 2,417	7,162	1,131 12,571	18 227	37
1	1,266 2,901	6,004 13,859	866 6,901	2,780 5,489	5,555 13,132	96 33	38 39
3	3,014	•13,582 277	6,688	5,445	12,869	21 12	151
	2,110	211	213	44	263	HE GHTARIGE	F F
	2,029	36,005 †35,845	4,785 4,751	19,782 19,722	35,152 35,027	461 461	40
1	1,965	160 37,277	34	60	125		6
	2,039	†36,954	994 900	11,658 11,454	23,541 23,219	13,028 13,028	41
	405	323	94	204	322		20
	2,432	615,519	155,708	300,396	556,889	42,045	
G RD	2,761	562,355	123,001	286,964	507,792	39,344	
8782	1,401	53,164	32,707	13,432	49,097	2,701	
9719	2,253	550,154	140,728	252,996	482,304	26,807	
41.0	2,373	500,743	111,351	240,811	438,471	24,324	
210	1,866	49,411	29,377	12,185	43,833	- mad 2,483	
8100	1,906	511,750	142,552	244,546	472,368	101 10 22,924	
Tee .	2,146	464,728	113.595	233,125	429,543	21,124	
6779	1,115	47,022	28,957	11,421	42,825	1,800	

operations included.
done by other agencies included,

A.—VACCINATION

STATEMENT No. I-Showing particulars of Vaccination in the

				R	e-vaccinatio	n.	cessful which th	ge of suc- cases in e results mown.	Persons success- fully vacci-	
No.	Divisions a		AT III	Total (13)	Successful.	Unknown.	Primary (16)	Re- vaccina- tion.	nated per 1,000 of popula- tion,	
36 37 38 39 40	Sagaing District Urban Katha District Upper Chindy Rural Urban FEDERATED Northern Shar Rural	vin District vin District SHAN STATE		10,279 9,516 763 1,483 1,591 9,452 7,619 1,833	3,780 3,318 462 346 769 6,055 5,245 810 4,169 4,119	2,340 2,278 62 155 27 441 212 229	98°25 98°25 98°35 98°48 94°03 94°98 94°90 99°25	47.61 45.84 65.91 26.05 49.17 67.20 70.81 50.50	61'49 58'74 134'34 55'27 35'28 54'18 52'52 116'31	
41	Urban Southern Shan Rural Urban	25		268 7,107 7,025 82 333,203	50 1,915 1900 15 99,118	6 633 632 1 59,510	78·13 97·08 97·05 99·69 97·11	19·08 29·58 29·72 18·52 36·22	50.75 27.93 27.74 56.02 49.81	
	Urban Total fo	1927-28		79,168	25,801	15,406	97'29	40'46	58'82	
,	Rural	4,8,82		195,723	58,840	29,093,	92'03	35'31	41'66	
-	Urban Total for	r 1926-27		124,525	44,077. 61,531:	33,094	93'40	48'21 35'97	69'95	
	Rural	-023.54 0 +		156,482	41,422	25,870	96'83	34'01.	39'79	
	o Urban	• • • • • • • • • • • • • • • • • • • •		52,319	17,109	11,841	94'70	42'27	47'69	

DEPARTMENT.

Province of Burma during the year 1928-29-concld.

Percentage of to tota	unknov l cases.	vn cases	Average annu persons su vaccinated du five y	ccessfully ring previous	Average annu- deaths from during p five yo	small-pox revious	
(1)	(3)	No.	100	(0) 1000		tis	No.
Primary.	Re-va	ecination.	Number.	Ratio per 1,000,	Number•	Ratio per 1,000.	
(19)	979	(20)	(21)	(22)	(23)	(24)	(1)
(19)		orac	201,5 01	2/10	1207		
Te er			Contract Contract	Children Children		SPI-	inpensar
3.08	no.	22:76	20,528	62:80	126	.39	36
319 154		23·94 8·13					
1.75		10.45	10,918	46'72			37
1'60		1.70	10,858	60.57		·	38
0124		4.67	15,485	45.16	71	'21	39
0115 4:33		2·78 12·49					
433		12 49		1.			
			1				
1,00		3.06	22,478	40'19	Ale and a second		40
1'28 1'29		3.10	22,470	40 19			
	10	2.24					- 20
34195	1 1 1	8.91	29,378	32.23			41
35125		9.00					
		1.55					
6'83		17'86	593,576	45'07	2,648	0'24	
7'00		17'36					
5'08		19'46					
4'87		19'42	585,441	44'46	2,595	0°24	
4'86		14'86					
5'03		26'58					
4'48	*	18'06	585,415	44'45	2,325	0*22	
4'55	2	16'53	SULAR S	THE TOTAL	· ice	Piccol Intol	
3.83		22'63					

SUM

7.	To redoma ke		Total nu persons v	imber of accinated.	Total no	umber of s performed.	Percentage of suc- cessful cases in which results were known.		
			Primary.	Re-vacci- nation.	Primary.	Re-vacci- nation.	Primary.	Re-vacci- nation.	
.031	(1)		(2)	(3)	(4)	(5)	(6)	(7)	
	1,000 mm		1993		William 174	- Mariana	1700	examples.	
Vaccination	by Special S	taff	606,219	330,221	608,042	330,359	97:10	36.21	
-	Vaccination		7,105	2,339	7,105	2,339	99.45	43:31	
Vaccination	n by other age	encies	372	505	372	505	97.53	26.75	
₹£ 8£ 00	ie v.	77	25,00	. 13	0,01 8,01 4-21	1900	00	THE REAL PROPERTY.	
						STATE OF THE PARTY			
OF			01,09		22.4	776	11 85	7031	
10			1000	1 281	29,3	1000 1000 1000 1000 1000	70		
	te'a	2.610	- V9724		100	375			
					-,10	96.65	021	+19	
			100			0.46	Sim	27	
	0.51	2002	0010	100	.060	20'02	100	. 414	
	Mary .		1			10.01	ist	40	
	liren		1000		114	82.60	10.5		
	22°0 To	otal	613,696	333,065	615,519	333,203	97:11	36.22	
	Total for 1927	-28	554,649	323,095	556,522	323,110	92.16	40.01	
	Total for 1926	-27	513,912	210,317	515,359	210,377	96.54	36.00	

MARY (Paragraphs 9 and 11).

ns vacciby each inator.	Under one year. (10) 155,057 459 192	One year ar under six year (11) 298,62 1,65	end and ars.	·22	4,29,062 6 0	No. of the second
	192	1,65	53	·22	4,29,062 6 0	O 9
	192	1,65	53	·22	ARAKUM DE ARAKUM DE ROMAN PEGO DIV RECAU DIV RECAU DIV	PART OF SAME SAME SAME SAME SAME SAME SAME SAME
	192	12	22	·04	ARAK'AN DE	S Z O Z S S S S S S S S S S S S S S S S
			***		cyab R District of Arr radigyu m overav Preces Div Ricawaldy a m bawaddy i	S Z O Z S S S S S S S S S S S S S S S S
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		134			Landaka adak in bira bira bira bira bira bira bira bira	S Z O Z S S S S S S S S S S S S S S S S
		134			Pricon Div	S Z O Z S S S S S S S S S S S S S S S S
		134			at oon granddy a harddy a hard	PA PER SERVICE
		134			at oon granddy a harddy a hard	PA PER SER
		134			git mrcawuddy g uxhawaddy u	PA PER SER
		134			intrawaldy 8	THE REAL PROPERTY NAMED IN
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			1		16 11 1 100	nei 0
		100	1			
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	-10	1 100	***			976 O
			_			
2,432	155,708	300,3	96	49.81	MAGWE DE	
	- 101				decourse.	67 8
	1	1	20		1000	
2,253	141,157	254,1	39	44.68		19 10
Mary Mary				and the same	801	8D K
					THE RESERVE TO SHAPE TO SHAPE TO	
	2,432	2,432 155,708 2,253 141,157	2,432 155,708 300,3 2,253 141,157 254,1	2,432 155,708 300,396 2,253 141,157 254,139	2,432 155,708 300,396 49°81 2,253 141,157 254,139 44°68	2,432 155,708 300,396 49'81 2,253 141,157 254,139 44'68

A.—VACCINATION
STATEMENT No. II—Showing the cost of the Department in the

Buto d	Letoré la tron?	etaT entropies bets	control or both	0000000 00	photos in undirect	4,000 (00 to to	to be been Ex
No.	Note leave	s and Districts.	many .	District Health	Aur so while	COLUMN DOS	
No.	Division	s and Districts.		Officers.	Pay.	Inspector of Vaccination.	Pay.
.11.4							
(1)	6 0.0 50	(2)		(3)	(4)	(5)	(6)
		tt.		1,053	Rs. A. P.		Rs. A. P.
	ARAKA	N DIVISION.		152	200	1057	
1	Akyab					1	990 0 0
2	Hill District	of Arakan	•••				951 1 0
3 4	Kyaukpyu Sandoway					1 1	951 1 0 984 0 0
1	Sandoway	7"					,,,,,
	PEGU	Division.		2.			
5	Rangoon					1	
6	Pegu			•••		2	2,220 0 0 1,667 6 7 3,797 8 0
7 8	Tharrawadd	у				6 5	1,667 6 7 3,797 8 0
9	Hanthawadd Insein					4	3,753 15 0
10	Prome					2	
	IRRAWA	DDY DIVISION.					
11	Bassein					. 5	1,766 10 0
12	Henzada		•••	•••		4 5	1,979 15 0 2,535 3 0 2,425 1 0
13 14	Myaungmya Ma-ubin	***		•••		4	2,425 1 0
15	Pyapôn	1				4	2,568 10 0
	TENASSE	RIM DIVISION.					
16	Salween	'				1	1,041 0 0
17	Thatôn		•••			2	2.298 14 0
18	Amherst					2 4 1	3,371 12 0
19 20	Tavoy Mergui	1	***			1	3,371 12 0 1,434 12 0 1,260 0 0
21	Toungoo					4	2,517 10 3
	MAGW	E DIVISION.			207.020	Was 1	
22	Thayetmyo					2	900 0 0
22 23						2 2 4	900 0 0 1,830 0 0 1,631 2 0 1,480 5 0
24	Magwe		•••	100000	Section 1		1,631 2 0
25	Ракокки					1 1	1,480 5 0 1,176 0 0
26 27	Chin Hills Pakkôku Hil	1 Tracts				1	1,170 0 0
21	Takkoku Hii	Tracts				1	Total Control

APPENDICES.

DEPARTMENT.

Province of Burma during the year 1928-29 (Paragraphs 14 and 15).

penditure					7		1 7	
Vaccinators.	Pay.	Clerks.	Pay. (10)	Peons, etc.	Pay.	Total Pay of Establish- ment.	Travelling Allowance.	No.
	-			1111			100	(1)
100	Rs. A. P.	11	Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.	
13 3 6 4	5,962 11 0 1,252 10 0 2,789 7 0 1,481 9 0					6,952 11 0 1,252 10 0 3,740 8 0 2,465 9 0	3,359 6 0 436 4 0 2,123 15 0 802 15 0	
22(9 13 9 9	a)5,981 6 0 5,246 11 0 5,367 2 7 5,496 6 10 4,731 5 6 6,334 5 0			2 1 	486 0 0 180 0 0	6,467 6 0 7,466 11 0 7,214 9 2 9,293 14 10 8,485 4 6 6,334 5 0	293 5 0 5,090 3 0 3,341 5 0 6,936 11 0 4,536 8 3 2,864 5 0	6 7 8
16 14 15 12 10	6,642 6 0 7,423 9 0 6,165 10 0 5,461 11 0 4,350 5 0		••• ••• •••		 16 0 0	8,409 0 0 9,403 8 0 8,700 13 0 7,886 12 0 6,934 15 0	3,759 1 9 4,214 6 0 4,828 10 0 3,185 3 0 4,302 4 0	12 13 14
4 11 11 6 5 13	1,611 13 0 6,305 5 0 5,818 15 0 2,672 15 0 2,678 4 0 5,621 14 0			::	Power	2,652 13 0 8,604 3 0 9,190 11 0 4,107 11 0 3,938 4 0 8,139 8 3	1,440 3 0 4,527 0 0 3,901 15 6 3,228 6 0 1,861 4 0 3,758 11 0	18 19 20
8 7 10 9 5	2,995 6 0 2,961 15 0 4,866 2 0 4,208 5 0 2,698 0 0 524 13 0		1 11	 i 	135 7 0 270 0 0	3,895 6 0 4,791 15 0 6,497 4 0 5,824 1 0 3,874 0 0 794 13 0	1,918 2 0 2,294 8 0 2,723 10 0 4,092 8 0 2,182 0 0 355 0 0	24 25 26

A,—VACCINATION

STATEMENT No. II—Showing the cost of the Department

Division						1	1		L	7	1000	Ex
Division									1	12		
	ns and Districts.	Pace	Distric Health Officers	h	Pay.		Inspe	ector e	of i.	Pa	ıy.	
(113	(2)	(1)	(3)		(4)			(5)		(5)	
Mandai	LAY DIVISION	A .5	-		Rs.	А. Р.			ad	Rs.	A.	P.
Mandalay Kyauksè Meiktila Myingyan Yamèthin			 				market as a second		300	1,29 99 1,08 1,25	0 0	0
Bhamo Myitkyina Shwebo Sagaing Katha Upper Chino	or Division.			The state of the s	·		10 10	2	88	68 99 2,90 1,98	00 0 04 13 13 11	0 0 0 0 0 0
Northern Sh	an States	res.						4000	4			0
Meiktila Vac	orners.	 Public	Section 1	2	11,411	13 0		No. of the last	100	100	8 3	
				2	11,411	13 0	(b)	89	000	60,58	9 15	10
	Shwebo Sagaing Katha Upper Chind Lower Chind FEDERATE Northern Sh Southern Sh O Meiktila Vac Office of D Health, Bu	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin FEDERATED SHAN STATE Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Health, Burma.	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin Lower Chindwin FEDERATED SHAN STATES. Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma.	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin FEDERATED SHAN STATES. Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma.	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin FEDERATED SHAN STATES. Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma.	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin Total Total	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin Lower Chindwin FEDERATED SHAN STATES. Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma. Total Total 2 11,411 13 0	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma. Total 2 11,411 13 0 (b)	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma. TOTAL 2 11,411 13 0 (b) 89	Shwebo Sagaing Katha Upper Chindwin Lower Chindwin Northern Shan States Southern Shan States OTHERS. Meiktila Vaccine Depôt Office of Director of Public Health, Burma. Meiktila Vaccine Depôt Office of Director of Public Health, Burma.	Shwebo	Shwebo

DEPARTMENT.

in the Province of Burma during the year 1928-29—contd.

enditure			own to	april .	1			
Vacci- nators.	Pay.	Clerks.	Pay.	Peons, etc.	Pay.	Total Pay of Establish- ment.	Travelling A llowance.	No.
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(1)
29 400	Rs. A. P.	PAN .	Rs. A. P.	Cart of	Rs. A. P.	Rs. A. P.	Rs. A. I	2.
11 5 6 9 7	8,274 2 0 1,854 2 0 2,767 0 0 3,692 4 0 3,668 6 0	00 10 00 10 00 10		:::::::::::::::::::::::::::::::::::::::		9,569 2 0 2,844 2 0 2,767 0 0 4,772 4 0 4,918 6 0	1,142 4 1,086 4 1,686 11	0 28 0 29 0 30 0 31 0 32
4 3 12 8 6 6 8	1,520 2 0 1,572 14 0 5,740 6 0 3,466 4 0 2,898 3 0 3,704 1 0 3,883 4 0		12 000 11 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	5	180 0 0	1,520 2 0 1,572 14 0 6,426 1 0 4,456 4 0 5,803 0 0 5,687 12 0 5,503 4 0	517 3 2,827 6 1,975 3 1,912 6 1,954 3	0 33 0 34 0 35 0 36 0 37 0 38 0 39
20 22	8,416 1 0 9.238 3 0	1000	1 0 EALA!	1 7		8,656 1 0 14,749 5 0	4,493 7 6,572 5	
	50 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	1,509 6 0	13	3,655 11 () 16,576 14 (106 4	
	16 E 20 1	19 1	1 500 6 6	7 8	7.204 4	ACCEPTATE OF	Winyelm	17.0
	1,78,346 1 11	-	1,509 6 0 2,476 14 0			0 2,59,141 8 9	7 1,16,627	-
	1,73,182 7 10		2,476 14 (-	10000		4 1,15,221	

A. -VACCINATION

STATEMENT No. II-Showing the cost of the Department

-			Expen	diture.		- mir/heigi
No.	Divisions and Districts.	-	Contingencies.	Total Cost.	Deputy Com- missioner's Local Funds.	Provincial Funds,
(1)	(2)	(50)	(15)	(16)	(17)	(18)
	ARAKAN DIVISION.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1 2 3 4	Akyab Hill District of Arakan Kyaukpyu Sandoway		1,664 2 0 111 4 0 25 14 0	5,864 7 0	1,800 2 0 5,641 7 0	
5 6 7 8 9 10	PEGU DIVISION. Rangoon Pegu Tharrawaddy Hanthawaddy Insein Prome IRRAWADDY DIVISION.	:::::::::::::::::::::::::::::::::::::::	135 3 0 749 15 0 2,133 10 6	21,114 15 0 12,692 1 0 11,305 13 2 18,364 4 4 13,287 11 9 9,315 4 6	## S A C A C A C A C A C A C A C A C A C A	840 0 0
11 12 13 14 15	Bassein Henzada Myaungmya Ma-ubin Pyapôn	0 0	818 14 0	13,350 3 9 14,436 12 0 14,463 1 0 11,071 15 0 11,237 3 0	1,940 5 0 	
16 17 18 19 20 21	Tenasserim Division. Salween Thatôn Amherst Tavoy Mergui Toungoo		1,530 2 0 5 8 0 421 1 0	4,185 6 8 13,131 3 0 14,622 12 6 7,341 9 0 6,220 9 0 12,863 13 9		
22 23 24 25 26 27	Magwe Division. Thayetmyo Minbu Magwe Pakôkku Chin Hills Pakôkku Hill Tracts	::	354 7 3 .381 13 0 737 9 0 57 0 0	7,468 4 0 9,220 14 0 10,654 2 0	853 10 3 1,458 2 0 2,811 15 0	6,113 0 0 1,149 13 0

The average cost in column 24 is calculated on the total number of successful

DEPARTMENT.

in the Province of Burma during the year 1928-29-contd.

District Coun-	cil	Paid from	Federated	Total.	f all successful as and re-vacci- y special staff	Average cost of each successful case.	No.
(19)		(20)	Funds.	(22)	Number of : Salarians by only.	(24)	(1)
Rs. A.	Р.	Rs. A. P.	Rs. A. P.	Rs. A. P.	onu m	Rs. A. P.	
10,000 13	0	1,206 13 0 223 0 0 392 2 0	015 40 41 4 015 40 41 4 015 40 11 1 015 40 11 1 016 11 11 11 11 11 11 11 11 11 11 11 11 1	11,976 3 0 1,800 2 0 5,864 7 0 3,294 6 0	1,271 8,591	0 5 5 1 6 8 0 10 11 0 15 4	1 2 3 4
11,291 14 8,621 9 17,606 6 10,635 5 6,967 0	2 10 3	20,274 15 0 1,400 3 0 2,684 4 0 757 13 6 2,652 6 6 2,348 4 6	000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21,114 15 0 12,692 1 0 11,305 13 2 18,364 4 4 13,287 11 9 9,315 4 6	20,446 25,366 15,277 12,152	1 6 0 0 9 11 0 7 11 1 3 3 1 1 6 C 6 5	5 6 7 8 9 10
8,880 11 12,719 10 12,759 1 9,749 5 10,037 3	0	2,529 3 0 1,717 2 0 1,704 0 0 1,322 10 0 1,200 0 0	1000 E 1	13,350 3 9 14,436 12 0 14,463 1 0 11,071 15 0 11,237 3 0	28,887 25,675 21,925	0 9 6 0 8 0 0 9 0 0 8 1 0 9 0	11 12 13 14 15
12,091 1 7,147 15 6,058 12 4,706 2 9,174 2	0 0	1,040 2 0 4,788 1 0 1,208 13 0 890 15 0 1,793 1 9	100,700	4,185 6 8 13,131 3 0 14,622 12 6 7,341 9 0 6,220 9 0 12,863 13 9	21,270 26,034 7,836 6,164	1 3 3 0 9 11 0 9 0 0 15 0 1 0 2 0 10 6	16 17 18 19 20 21
5,314 5 5,210 15 7,036 14 7,102 7	0	799 3 0 2,184 0 0 739 12 0	515.00 0	6,167 15 3 7,468 4 0 9,220 14 0 10,654 2 0 6,113 0 0 1,149 13 0	12,311 17,718 14,557 8,298	0 9 2 0 9 8 0 8 4 0 11 8 0 11 9 2 9 3	22 23 24 25 26 27

vaccinations and re-vaccinations performed by special staff only (vide column 23).

A.-VACCINATION STATEMENT No. II-Showing the cost of the Department

-		Expen	diture.		
No.	Divisions and Districts.	Contingencies.	Total Cost,	Deputy Com- missioner's Local Funds,	Provincial Funds.
(1)	(2)	(15)	(16)	(17)	(18)
	MANDALAY DIVISION.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
28 29 30 31 32	Mandalay Kyauksè Meiktila Myingyan Yamèthin	969 10 0 229 14 0 377 1 0 638 8 0 655 2 0	4,230 5 0 7,091 7 0	663 9 0	636 0 0
33 34 35 36 37 38 39	SAGAING DIVISION. Bhamo Myitkyina Shwebo Sagaing Katha Upper Chindwin Lower Chindwin	231 10 0 439 9 0	2,090 1 0 9,253 7 0 6,431 7 0 7,715 6 0 7,741 5 0	7,715 6 0	100m 100m
40 41	FEDERATED SHAN STATES. Northern Shan States Southern Shan States OTHERS.	1,820 3 9 2,038 9 6	14,969 11 9 23,360 3 6	1005,1 10 1005,1 10 1005,1 10	00 000,8- 00 000,52 1 020,52 2 000,00 3 000,00
42 43	Meiktila Vaccine Depôt Office of Director of Public Health, Burma.	21,014 0 1 1,007 8 0	37,697 2 1 1,007 8 0	2010.1 10 2010.1 10 200.04 10 100.05 10 100.05 10	37,697 2 1 1,007 8 0
22 SE	TOTAL FOR 1927-28	37,081 0 8	† 4,29,062 6 0 4,03,228 12 3	43,619 10 7	
1-27	TOTAL, FOR 1926-27	34,077 0 0	3,86,245 10 1	41,327 14 0	37,095 13 9

The average cost in column 24 is calculated on the total number of successful

(a) No share of pay of 21 Assistant Registrar-Vaccinators of Rangoon
employed in Rangoon Cantonment

(b) This includes 28 Sub-Assistant Surgeons, 3 Private Medical Practitioners who are receiving vaccinations

42 Inspectors of Vaccination, 3 Head Vaccinators
† Includes Rs. 36,215-11-0 paid by Local Bodies

DEPARTMENT.

in the Province of Burma during the year 1928-29-concld.

			, Pa	id f	rom		日本質		_
The same of	District Cor Funds.	uncii	Municipalities		Federated Funds.	Total.	Number of all successful vaccinations and re-vaccinations by special staff. only.	Average cost of each successful case.	No.
1	Rs. A	. P.	Rs. A. 6,189 6	P. 0	Rs. A. P.	Rs. A. P.	22,399	Rs. A. P.	28
	3,820 3,702 6,003 6,255	2 0 5 0 7 0 8 0	●396 2	0000	OF ST. SECTION 3	4,216 4 0 4,230 5 0 7,091 7 0 7,652 0 0	5,995	0 11 3 0 6 0 0 8 8 0 5 0	29 30 31 32
200	8,653 5,503 8,101	7 0 7 0 5 0	544 15 600 0 928 0 350 6	0 0 0		2,229 6 0 2,090 1 0 9,253 7 0 6,431 7 0 7,715 6 0 7,741 5 0 8,451 11 0	2,206 21,115 20,100 12,917 6,324	0 15 2 0 15 2 0 7 0 0 5 1 0 9 7 1 3 7 0 7 1	33 34 35 36 37 38 39
			43 0 0	0	14,969 11 9 22,930 3 6	14,969 11 9 23,360 3 6		0 6 3 0 14 10	40 41
			:::	-		37,697 2 1 1,007 8 0	:::	:::	42 43
	2,29,873	7 0	66,308 1	3	37,899 15 3	4;29,062 6 0	6,52,694	0 9 7	
	2,26,320	2 11	55,195 1	4	33,232 9 11		5,84,121	0 11 1	
	2,24,857	13 7	49,523 2	9	33,440 14 0	3,86,245 10 1	5,33,458	0 11 7	

vaccinations and re-vaccinations performed by special staff only (vide column 23).

Corporation have been included in the cost. Out of 22 only 1 Vaccinator was paid by Government.

allowance, or who have been appointed as whole-time officers for supervising vaccination and vital statistics work, and 13 Public Health Inspectors.

for Government vaccine lymph.

COMPARATIVE STATEMENT No. III—Showing the number of persons vaccinated in the Province of Burma in

Total number.	Number success-	Total	Number		Number		Number		Number
	fully vacci- nated.	number.	fully vacci- nated.	Total number.	success- fully vacci- nated.	Total number.	success- fully vacci- nated.	Total number.	success- fully vacci- nated.
1919	-20.	1920)-21.	1921	-22.	1922	1-23.	1923	24.
. (:	2)	- 6	3),		4)	-	5)	(6)
179,204	162,448	165,491	152,910	174,549	160,011	196,950	180,625	180,459	168,357
38,604	35,973	35,519	33,224	40,478	38,460	41,884	39,932	41,977	39,974
	OLST	2 5	602			7 0 1 8	0.1	1 100	
257,218	239,580	272,949	256,940	262,388	247,532	270,396	256,235	274,439	261,999
9,177	5,045	7,280	5,155	10,234	8,695	10,643	10,559	45,671	43,552
7,220	4,781	2,016	1,565	3,601	3,068	2,883	2,178	4,534	3,673
	355.0	0 1	177	0 6 1	1 701		99	9 000	
398	371	267	217	3,589	3,285	1,007	857	974	695
	TODAY.	0 11 4	20 kg	0 21 0	0.122,0	0 0	E	The state of the s	
		2 5 1	00, 18 m	0 00	230			37,45	
	100.583 100.583	10 de 3	60,0214	E 27 0	80,780	1 1 80	E-83 0	operation of the same	
	38,604 38,604 257,218 9,177 7,220	38,604 35,973 257,218 239,580 9,177 5,045 7,220 4,781	(2) (6) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	(2) (3). 179,204 162,448 165,491 152,910 38,604 35,973 35,519 33,224 257,218 239,580 272,949 256,940 9,177 5,045 7,280 5,155 7,220 4,781 2,016 1,565	(2) (3) (6) 179,204 162,448 165,491 152,910 174,549 38,604 35,973 35,519 33,224 40,478 257,218 239,580 272,949 256,940 262,388 9,177 5,045 7,280 5,155 10,234 7,220 4,781 2,016 1,565 3,601	(2) (3) (4) 179,204 162,448 165,491 152,910 174,549 160,011 38,604 35,973 35,519 33,224 40,478 38,460 257,218 239,580 272,949 256,940 262,388 247,532 9,177 5,045 7,280 5,155 10,234 8,695 7,220 4,781 2,016 1,565 3,601 3,068 398 371 267 217 3,589 3,285	(2) (3) (4) (6) 179,204 162,448 165,491 152,910 174,549 160,011 196,950 38,604 35,973 35,519 33,224 40,478 38,460 41,884 257,218 239,580 272,949 256,940 262,388 247,532 270,396 9,177 5,045 7,280 5,155 10,234 8,695 10,643 7,220 4,781 2,016 1,565 3,601 3,068 2,883 398 371 267 217 3,589 3,285 1,007	(2) (3) (4) (5) 179,204 162,448 165,491 152,910 174,549 160,011 196,950 180,625 38,604 35,973 35,519 33,224 40,478 38,460 41,884 39,932 257,218 239,580 272,949 256,940 262,388 247,532 270,396 256,235 9,177 5,045 7,280 5,155 10,234 8,695 10,643 10,559 7,220 4,781 2,016 1,565 3,601 3,068 2,883 2,178 398 371 267 217 3,589 3,285 1,007 857	(2) (3) (4) (5) (6) 179,204 162,448 165,491 152,910 174,549 160,011 196,950 180,625 180,459 38,604 35,973 35,519 33,224 40,478 38,460 41,884 39,932 41,977 257,218 239,580 272,949 256,940 262,388 247,532 270,396 256,235 274,439 9,177 5,045 7,280 5,155 10,234 8,695 10,643 10,559 45,671 7,220 4,781 2,016 1,565 3,601 3,068 2,883 2,178 4,534 398 371 267 217 3,589 3,285 1,007 857 974

primarily vaccinated and the number of those persons who were successfully each of the undermentioned official years.

Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vaccis nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Establish ments.
1924		1925			5-27. 9)	1 4 8	7-28.	FeX	8-29.	
Ī			3,			- (1	0)		1)	(12)
6,806	4,997	5,673	3,850	5,141	. 3,745	7,770	5,922	10,137	8,478	Govern- ment.
49,378	47,231	45,781	43,895	45,208	41,841	47,479	42,732	51,565	47,819	Municipa
24,954	402,000	436,679	411,970	419,711	387,665	432,745	380,584	473,466	440,571	Local Funds.
48,476	44,673	67,872	64,245	39,998	38,864	60,034	52,837	71,051	57,133	Federate States.
6,116	5,175	3,759	2,789	3,574	1,890	6,368	2,157	7,105	2,532	Dispen- sary.
537	523	287	260	280	253	253	229	372	356	Other Agencies
800	125201	000	0.5	1 19				The same	1515 0,48	SS Chin
1,524	36870 00401 3,505	1160	otal mag					-	STATE OF THE STATE	
1000	1000	24 24 25 20 20 20 20 20 20 20 20 20 20 20 20 20	101 101					15072	pinds	MAN SE
138.00	52856 52856 4033	848	1200		01: 10 Since 10 More 14				0.20	
	Treat to the same	TO A	1	. 81		100		m State	All and	
Tage	00011	2000	100	1 24	ete N	200	1 1 1 1 1	mt.	97.5	

STATEMENT No. IV-Showing particulars of Vaccination verified

						Fotal number	er inspected	
No.	Districts.	TO FORM W	Total nui persons va		By Assistan of Public I Civil Sur	Health or	By Inspec Vaccination Inspecting	or other
		7000	Primary.	Re- vaccina- tions.	Primary.	Re- vaccina- tions.	Primary.	Re vaccina- tions,
(1)	(2)	-	(3)	(4)	(5)	(6)	(7)	(8)
						301		
1	Akyab		24,175	40,075	398	612	7,199	18,188
	Hill District of Arak		1,328	741	30	26	60	36
3 4	Kyaukpyu		8,879	2,162	1,216	26	2,841	723
	Sandoway	•••	4,232	1,545	604	166	1,986 7,447	386 18,981
5	Rangoon	***	9,962 18,833	29,253 13,065	1,271 3,403	5,771 978	16,120	7,584
6	Pegu Tharrawaddy	120226	22,869	11,559	1,255	229	16,614	5,377
7 8	Hanthawaddy		15,046	4,333	297	132	10,729	1,362
9	Insein		12,272	4,016	405	14	8,013	1,912
10	Prome	News most	21,902	6,207	3,028	58	9,881	559
11	Bassein	4 Las no	20,911	6,386	1,240	278	9,492	2,344
12	Henzada		29,062	4,008	1,071	59	14,161	1,126
13	Myaungmya		24,733	8,198	486	26	17,080	4,408
14	Ma-ubin	··· 52,837	21,074	8,156	3,761 1,818	292 257	18,726 16,454	5,110
15	Pyapôn		19,176 3,957	5,486 4,223	789	519	2,378	2,603
16 17	Salween Thatôn	***	20,616	10,974	1,819	595	9,366	3,696
18	Amhoret	Henry III	22,417	29,115	4,417	2,554	9,162	7,562
19	Tavoy	Distance In	7,529	853	4,749	337	6,357	664
20	Mergui		6,504	2,179	1.121	920	3,511	797
21	Toungoo		17,804	13,135	1,006	273	7,447	5,681
22	Thayetmyo	pec	10,101	2,898	189	74	2,885	1,130
23	Minbu		12,596	55	1,024	2.026	5,102 8,324	4,195
24	Magwe		15,482 15,253	12,220	4;901 783	3,036	6,093	3,290
25	Pakôkku Chin Hills		9,082	1,839	3,345	239	6,284	628
26	Pakôkku Hill Tracts		481	354				
28	Mandalay		16,834	17,304	2,589	345	10,402	765
29	Kyauksè		5,652	1,442	370	31	3,870	926
30	Meiktila		11,224	5,947	3,259	581	6,461	1,464
31	Myingyan		13,784	6,713		***	5,595	1,529
32	Yamèthin		19,742	24,409	913	793	9,397	8,323
.33	Bhamo		3,239	750 869	164	45 247		
34 35	Myitkyina Shwebo		5,440 18,331	10,452	783	189	5,443	3,241
36	O- solas		17,137	10,432	5,257	359	14,352	2,725
37	Katha		12000	1,483	4,705	848	5,856	851
38	Upper Chindwin		6,004	1,591	1,048	676	4,033	1,354
39	Lower Chindwin		13,759	9,452		1,044	6,582	4,258
40	Northern Shan Stat		36,005	5,718		1,837	1,003	134
41	Southern Shan Stat	es	37,277	7,107			15,293	2,746
	T	OTAL	613,696	333,065	74,239	24,687	311,999	130,674
			554,649	323,095		25,897	286,874	152,078
	TOTAL FOR 192	7-28	334,049	323,093	40,477		1000,000	Trace of
-	TOTAL FOR 192	6-27	513,912	210,317	45,208	15,453	271,222	100,77

APPENDICES.

by Inspecting Officers during the year 1928-29 (Paragraph 13).

Percenta	ge of inspec vaccir		l number	Percen	tage of case total numb	s found succ er inspected	cessful of	Percer	ntage of	
of Public	nt Director Health or Health ers.	* Vaccinatio	pectors of on or other g Officers.	of Public District	nt Director Health or Health cers.	Vaccinatio	ectors of on or other of Officers.	by pe perfo	reported rsons rming nations.	Ne
Primary.	Re- vaccina- tions.	Primary.	Re- vaccina- tions.	Primary.	Re- vaccina- tions.	Primary.	Re- vaccina- tions.	Pri- mary.	Re- vaccina- tions.	£ 10
(9)	(10)	_(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(1
	. 1 60		Tari Tari	4901		00	CEE	102	C.L.	his
1.65	1.53	29.78	45.38	64.07	19.44	80.55	25.31	92.89	42.43	
2.26	3.21	4.52	4.86	60.00	57.69	90.00	83.33	88.80	47.78	13
13:70	1.20	32.00	33'44	82.89	11.24	84.72	27.25	93.96	42.08	
14:27	10.74	46.93	24.98	89.90	18.07	90.58	10.36	86.32	8.43	
12.76 18.07	7.49	74·75 85·59	64·89 58·05	98·19 97·88	48.02	98.58	48.20	98.75	37.96	019
5.49	1.08	72.65	46.2	100.00	19.84	99.35	29°94 36°52	99.25	32.42	
1.97	3.05	71.31	31'43	95.29	28.79	94.78	20.15	99.98	44.35	E Ja
3.30	0.32	65:29	47.61	95.56	21.43	98.24	11.08	97.11	33.87	10
13.83	0.93	45.11	9.01	99:34	27.59	99.47	29.70	99.36	30.98	1
5.93	4.35	45:39	36.71	98.79	45.32	97.48	41.13	98.06	53.35	i
3.69	1:47	48'73	28:09	97:39	50.85	98.88	15.24	99.51	20.42	1
1.96	0°32 3°58	69:06 88:86	53.77	35.60	76.92	79.36	35.14	100.00	37.50	1
9.48	4.68	85.81	62.65	99.81	4.11	99.90	13.27	99.88	14.26	1
19.94	12.29	60.10	61'64	94.93	13·23 27·75	99.55	22.62	99:03	20.61	1
8.82	5.42	45.43	33'68	96'04	28:24	98.38	28·51 18·37	93.85	30.73	1
19.70	8.77	40.87	25'97	98.60	16.72	98.56	14.47	99.07	17.71	1
63.08	39.51	84.43	77'84	95'47	53.12	96'84	31.02	97.07	47.14	1
17.24	42.22	53.98	36'58	93'40	59.78	88.64	33.88	85.76	40.38	2
5.65	2.08	41.83	43'25	99.60	33.70	97.95	24.24	99.13	25.99	2
1.87	2.55	28.56	38.99	89:42	82.43	90'36	48.41	96.27	53.58	2
8.13	24.84	40°50 53°77	18.18	97.66 96.20	20:02	97.59	20.40	97:12	34.69	2
5.13	3:39	39.95	50.21	90.68	30·83 6·79	95.07	29.18	98.53	30.55	2
36.83	13.00	69.19	34.12	81.97	55.53	90°04 82°42	16.78 48.57	92.29	14.21	2
						02 42	40 3/	91.31	23.95	2
15.38	1.99	61.79	4.42	61.26	62.03	86:37	36.99	96.57	37.82	2 2
6'55	2.12	68.47	64'22	99'46	29.03	99.41	47.52	99:41	49.28	2
29.04	9.77	57:56	24.62	96.59	34.08	94.55	46.45	92.44	44.95	3
4.60	3.25	40.59	22.78	000	422	82.63	10.86	97.76		3
4·62 5·06	6.00	47.60	34.10	87.51 90.24	39:47	95.59	34.23	96.28	35.99	3
2.96	28:42			96.27	44·44 83·81			93.79	35'75	3
4.27	1.81	29.69	31.01	93.74	55.26	89.62	50.65	93 [.] 96 95 [.] 23	67.78	3
30.68	3.49	83.75	26.21	98.21	31.75	97.64	58.65 46.02	98.25	61.09	3
36.21	57'18	45.07	57:38	92.90	35.14	96.26	21.86	98.48	26.02	3
17:46	42.49	67.17	85.10	84.64	44.97	. 85.97	39.81	94.03	49.17	3
5.53	11:05	47.84	45.05	97.64	67.43	94.88	67.10	94.98	67.20	3
27:34	32:13	2.79	2:34	98.81	82.42	100.00	8.21	98.90	75.21	40
		41.03	38.64	335.43	***	23.12	1.57	97:08	29.28	41
16.75			1421		177			1	-	
						1111				
12.10	7,41	50:84	39:23	94.16	41.22	91.12	31.67	97.11	36.22	
8:74	8:02	51:72	47.07	92.08	47.75	91.37	37.91	92.16	39.88	
8.80	7:35	52:78	47.92	91:77	45:07					
000	100	3270	4, 72	91//	45.07	95.76	32.79	96.63	35.97	

APPENDIX A.—Statement showing the ratio per 10,000 successfully vaccinated and the mortality from Small-pox by quinquennial periods.

Official '	Year.	Ratio per 10,000 successfully vaccinated.	Quinquennial mean.	Calend	dar Year.	Ratio per 10,000 of mortality from small-pox.	Quinquennial mean,
(1)	remported.	(2)	(3)	1000	(4)	(5)	(6)
1913-14	7111	367:34	1	1913	u della	2.86	
1914-15	-	332.06	100	1914	100	.26	0
1915-16		330.70	348:50	1915	-	.55	93
1916-17		365.25	Systematics	1916	00.00	.72	
1917-18	11.00	. 347.10		1917	10.15	.57	J Contract
1918-19	00'98	392.57		1918	28.00	. 76	DE COSTA
1919-20	50-00 50-00 50-00	524:21	120,17	1919	1010	3.99	201-04 201-04 201-04
1920-21	***	443:70	439:47	1920	10 de 10 de 14 de	2.90	1 1 95
1922-23	•••	431.94		1922	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.34	Tank Tank
1923-24	289	456:24		1923	1000	2.63	1 00 18 61 00 61 0
1924-25	18-00	466123	10.00	1924	196	2.31	85.25
1925-26	1000	477:33	450)73	1925	8000	3.56	2:45
1926-27	01:00 04:25 08:25	407:11		1926	10	2.16	1 00°S
1927-28	2040	446;76.	j.	1927	80.38	1.57.	15 00 10 10 10 10 10 10 10 10 10 10 10 10
1928-29		498'14		1928	100.00	2.61	
1							-
	11 /6	VIII 61	72.10	OI NO	- THE STATE OF	MON	
	DISC	100. 100	ST ST ST ST	Milah	STPS II	TALES - STATE	200 B
1, 20050	Estaci	0725 072	THE A	Strip.	2058	1000	

APPENDIX B.—Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which Vaccination Act has been extended) on children under one year of age (Paragraph 8).

Towns.	Number of births during the year 1928-29.	Number of deaths among children under one year during the year.	Number of successful operations on children under one year during the year ending 31st March 1929.	Date of extension of Vaccination Act of 1880.	Date of extension of Vaccination Law Amendment Act of 1909.
(1)	(2)	(3)	(4)	(5)	(6)
Akyab	608	163	345	August 1883	29th March 1910.
Kyaukpyu	102	27	63	April 1894	Do.
Sandoway	114	20	66	September 1890	Do.
Rangoon	7,568	2,575	6,702	April 1884	1st May 1909.
Pegu	713	197	912	March 1893	29th March 1910,
Nyaunglèbin	170	106	211	29th March 1910	Do.
Tharrawaddy	141	29	178	October 1897.	29th March 1910.
Thônzè	345	57	427	Do	
Zigôn	171	45	152	11th May 1914	9th Sept. 1915.
Letpadan	275	65	195	January 1897	29th March 1910.
Gyobingauk	177	66	108	February 1897	Do.
Minhla	100		103	11th May 1914	9th Sept. 1915.
Nattalin	130	12	114	Do	Do.
Syriam	341	63	268	29th January 1913	29th January 1913.
Thôngwa	259	42	87	3rd March 1914	3rd March 1914.
Insein	314	99	413	14th March 1912	14th March 1912.
Thamaing	71	21	82	26th May 1926	26th May 1926.
Thingangyun	118	22	94	Do	Do.
Kanbe	127	45	126	Do	Do.
Kamayut	100	35	109	Do	Do.
Prome	793	96	1,160	June 1890	29th March 1910.
Shwedaung	232	54	126	10th Sept. 1917.	
Paungdè	269	41	180	August 1890	29th March 1910.
Bassein	1,342	446	1,429	September 1888	Do.
Ngathainggyaung	136	32	72	February 1890	Do.
Kyônpyaw	153	44	131	26th Dec. 1923.	
Henzada	703	216	534	January 1889	29th March 1910.
Myanaung	229	58	127	July 1889	Do.
Kyangin	219	48	170	August 1894	Do.
Myaungmya	183	66	116	June 1894	Do.
Wakèma	274	88	105	27th April 1907	Do.
Mawlamyainggyun	195	85	127	20th July 1925	20th July 1925,
Ma-ubin	211	81	217	October 1891	29th March 1910,
Yandoon	259	58	222	January 1892	Do.

APPENDIX B.—Statement showing the number of vaccinations performed in Municipal Towns and Notified Areas (to which Vaccination Act has been extended) on children under one year of age (Paragraph 8)—concld.

			3-11-07-112	c (ranagraph o)	concra.
Towns.	Number of births during the year 1928-29.	Number of deaths among children under one year during the year.	Number of successful operations on children under one year during the year ending 31st March 1929.	Date of extension of Vaccination Act of 1880.	Date of extension of Vaccination Law Amendment Act of 1909.
				(3)	(6)
Danubyu Pyapôn Kyaiklat Thatôn	158 176 204 515	36 60 78 110	212 454 110 295	9th July 1909. November 1904 15th Dec, 1904 October 1891	29th March 1910. Do. Do.
Kyaikto Moulmein Kawkareik Tavoy	191 1,629 296 898	57 359 158 192	152 1,657 87 842	March 1897 August 1885 September 1914 December 1889	Do. Do. 17th Sept. 1914. 29th March 1910.
Mergui Toungoo Shwegyin Pyu	558 498 188 234	157 73 27 33	450 269 59 43	October 1891 May 1889 January 1890 January 1920	Do. Do. Do. 17th January 1920.
Thayetmyo Allanmyo Minbu Salin	153 201 204 256	90 76 69 98	175 189 145 110	May 1889 May 1901 March 1896 Do	29th March 1910. Do. Do. Do.
Magwe Taungdwingyi Yenangyaung Chauk	205 269 329 73	101 138 126 53	178 86 214 39	10th March 1913 February 1893 10th March 1913 20th May 1929	10th March 1913. 29th March 1910. 10th March 1913.
Pakôkku Mandalay Maymyo Kyauksè	493 7,509 691 251	283 2,153 167 65	282 7,903 431 262	April 1892 August 1891 October 1912 May 1894	29th March 1910. Do. 22nd October 1912. 29th March 1910.
Meiktila Myingyan Nyaung-u Yamèthin	293 591 169 280	128 218 29 88	284 320 136 134	June 1906 September 1891 30th August 1921 February 1892	31st July 1922. 29th March 1910. 30th August 1921. 29th March 1910.
Pyinmana Pyawbwè Bhamo Myitkyina	496 173 220 213	197 67 35 40	419 132 87 27	May 1912. 26th October 1894 6th May 1929.	Do. 29th March 1910.
Shwebo Ye-u Sagaing Myinmu	453 144 386 134	182 35 152 63	291 9 229 183	June 1894 2nd April 1929. April 1894 5th October 1926	29th March 1910. 29th March 1910. 5th October 1926.
Mônywa Lashio Taunggyi	328 159 233	140 42 16	213 34 94	March 1893 25th July 1927 Do	29th March 1910. 25th July 1927. Do.
Total	37,593	11,306	32,707	185 (65	andoon noohins

APPENDIX C.

Diagram showing the Proportion of Population protected during the seven official years from 1922-23 to 1928-29 and the Death-rate from Small-pox during the year 1928 in districts where full registration is in force.

Diagran	4 2011	argeri n	y u		ropo	W 420					-							-20.	whe	re fi	ull i	regis	trati	ion i	s in	fore	e.		10.00							0223							
Proportion of population protected per 10,000.	- Rangoon.	Akyab.	Hill District of Arakan.	+ Kyaukpyu.	Sandoway.	O Deem		-	e Hanthawaddy.	o Insein.	O Prome.	-	Henrada.	-		G Pyapón.		Thatôn.	S Amherst.	5 Tavoy.	-		75 Thayelmyo.	-	Magne.		-		-	Northile			Bhamo.*	S Multipolos .	Shwebo.	Sagning.		4-	2 Chindwin.			Southern Shan States.	Ratio of deaths from small-pox per 10,000 of population.
		-	3	-	1	1	1	+			-		-					-	-			-			-			-	-	r	1	1	1	-	1	1	-	T	1				
4,900 4,800 4,700 4,600 4,500 4,400 3,900 3,800 3,700 3,500 3,500 3,400 3,500 2,900 2,900 2,900 2,900 2,900 2,100 2,200 2,100 1,900 1,000																																											22'00 21'00 20'00 19'00 18'00 18'00 11'00 12'00 11'00 10'00 9'00 8'00 7'00 6'00 5'00 4'00 3'00 2'00 0'10 0'80 0'70 0'60 0'50 0'40 0'13 0'12 0'11 0'15 0'14 0'13 0'12 0'11 0'10 0'09 0'08
	1	ı	1	3	4	5	6	7	8	9	10	0 1	1 1	2 1	3 1	4 1	5 1	6 1	7 11	8 1	9 2	0 2	1 2	2 2	3 2	4 2	5 2	6 2	7 2	8	29	30	31 3	32	33	34 3	35 3	36	37	38	39	40	1

Indicates proportion of population protected per 10,000.

Indicates ratio of deaths from small-pox per 10,000 of population.

* Deaths are not classified according to diseases in these Districts.

