

Notes and statistics on vaccination in Burma.

Contributors

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NOTES AND STATISTICS
ON
VACCINATION IN BURMA
FOR THE YEAR 1929-30



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1930
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NOTES AND STATISTICS

ON

Vaccination in Burma

For the year 1929-30.

1. *Establishment.*—The following table gives the strength of the vaccination staff actually employed in the Province during the year 1929-30, and the two preceding years :—

Years.		District Superintend- ents of Vaccination.	Part-time Supervising Officers.	Inspectors of Vaccination.	Head Vaccinators.	Vaccina- tors.
(1)		(2)	(3)	(4)	(5)	(6)
1927-28	...	41	S.A.S. 28 P.H.I. 11	43	1	384
1928-29	...	41	31	42	3	385
1929-30	...	41	31	40	3	392

The number of Inspectors of Vaccination decreased by two. This is due to the employment solely on general sanitation duty of 3 Sanitary Inspectors who carried out verification of vaccination in the previous year in the Insein District, and to the appointment of one Inspector of Vaccination in the Northern Shan States.

Seven more vaccinators were employed during the year,—one each in the districts of Prome, Henzada and Magwe ; 2 in the district of Thaton ; and one each in the towns of Kyaikto and Pyawbwè.

Ten temporary vaccinators were employed to cope with local outbreaks of small-pox,—one each in the towns of Akyab, Moulmein and Myingyan ; and 3 in Akyab District, one in Amherst, one in Upper Chindwin and 2 in Myingyan Districts.

2. *General Review.*—It is satisfactory to note that the number of persons vaccinated and re-vaccinated each year in the Province has increased steadily during the last decade. This is the natural result of a gradual realization on the part of the people of the value of vaccination, and their consequent willingness to accept it.

During the year under review the Vaccination Acts of 1880 and 1909 were extended to the areas under the District Councils of Lower Chindwin, Myingyan and Meiktila. Thanks are due to U Shwe Mya, Chairman of the Myingyan District Council for his strong support of this important and progressive measure which should have a far reaching effect in the heavily infected district of Myingyan.

For lack of funds to meet the cost of additional staff required for the proper working of the Acts, these could not be extended to the Yamethin District Council area this year, and the matter is still under consideration.

The map of Burma attached to this Report shows the area of Burma in which compulsory primary vaccination is in force.

Only in a few backward tracts such as the excluded areas of Mergui and Akyab, and to a certain extent in the Myingyan District, was there any opposition to vaccination, but parents in the hill tracts of the Bhamo and Katha Districts prefer vaccination of their children after the first year of life. Some parents in the backward areas of Mergui evaded vaccination of their children by removing them to the jungle on the vaccinator's and District Health Officer's visits. Chittagonians in the Akyab District are very difficult to vaccinate, and in that respect are a great contrast to the Arakanese who come forward readily.

Statement I. 3. *Total Number of Persons Vaccinated.*—Altogether 984,273 persons were vaccinated during the year under review, as compared with 946,761 in the previous year,—an increase of 37,512 persons. The above figures exclude secondary operations.

Statement I. 4. *Operations Performed.*—The total number of operations performed in the 41 districts, excluding dispensary and steamer vaccinations, but including both the Shan States and Rangoon City, during the year under review was 976,782 (primary 623,922 and re-vaccinations 352,860), as compared with 939,278 (primary 608,414 and re-vaccinations 330,864) in the previous year—an increase of 37,504.

An increase in total operations is returned from 25 districts and a decrease from 16. Amherst headed the list with an increase of 18,958, closely followed by Akyab with 15,776 operations. The increase in both these districts is made up mostly of re-vaccinations, due to the prevalence of virulent small-pox throughout the year, necessitating the employment of one additional vaccinator for a period of $3\frac{1}{2}$ months in the former district and of four for a total period of $14\frac{1}{2}$ months in the latter. Large increases are also returned from the districts of Meiktila (+8,280), Sagaing (+6,427), Pakokku (+5,178), Hanthawaddy (+4,108), Kyaukse (+3,798) and Bassein (+3,153).

Vaccination work in Meiktila District is reported to have been seriously hampered by obstructive tactics inspired by the late District Council Secretary, but with this officer's removal there is now an

apparently genuine desire for co-operation with the District Health Officer, who, ably assisted by the Assistant District Health Officer, has obtained creditable results under difficult circumstances. The District Health Officer has represented the need to apply the Re-vaccination Act (Act IV of 1928) to the District and Town of Meiktila. The Act is at present not applicable to rural areas.

Though the districts of Sagaing, Pakokku and Hanthawaddy were comparatively free from small-pox, vaccination work shows a decided improvement, due to special efforts of supervising officers and energetic work by the staffs concerned.

The continued prevalence of an epidemic of small-pox in Kyaukse District acted as a stimulus for more vaccination.

An unusual reason for the enhanced number of operations in Bassein District is given: "Burmese sages predicted an outbreak of small-pox in the year 1930-31 and the people resorted to vaccination as a means of protection against it." It is interesting to note that this prediction coincides with forecasts by several Health Authorities of a general small-pox pandemic about this time.

Of the 16 districts which report deficits over last year, Mandalay takes first place with -15,081, followed by Rangoon (-7,837), Shwebo (-6,112), Lower Chindwin (-4,833), Pegu (-4,229), Minbu (-3,867), Toungoo (-3,385) and Southern Shan States (-2,958).

Comparative freedom from small-pox is given as the cause for the decline in vaccination operations in Mandalay, Rangoon, Shwebo, Lower Chindwin, Pegu and Toungoo Districts, coupled with lack of proper supervision in Mandalay and Toungoo, and perhaps in others also. No satisfactory explanation is given for the decline in Minbu District.

For the fall-off in the Southern Shan States, Kengtūng Subdivision is entirely responsible by registering 7,881 less operations. Absence of small-pox, good work done during the last two years, and inaccessibility of most of the areas during the rains are stated to be the causes of the decline in this subdivision.

5. *Primary Vaccination.*—A total of 623,922 primary operations were recorded during the year, as compared with 608,414 operations during the previous year, resulting in an increase of 15,508. An increase is reported from 26 districts, prominent amongst which are Prome (+6,709), Akyab (+4,892), Yamèthin (+3,939), Sagaing (+3,472), Bassein (+2,860), Myaungmya (+2,531) and Tharrawaddy (+2,107). Statement I.

Strict supervision and enforcement of Vaccination Rules are stated to be the cause of improvement in Prome District.

Good work of the staffs under efficient supervision and co-operation of district authorities are responsible for the better outturn of work in Sagaing, Myaungmya and Tharrawaddy. The increase in Yamèthin Statement I.

District is attributable to the continuance of last year's small-pox outbreak, though in a lesser degree.

The improvement in primary vaccination in Akyab and Bassein Districts is in accordance with the general rise in vaccination, and has been commented on in paragraph 4.

Deficits are returned from only 15 districts, and in six of these a large fall-off was registered : Northern Shan States (−9,102), Southern Shan States (−4,098), Minbu (−3,830), Mandalay (−3,419), Meiktila (−2,170) and Toungoo (−2,062).

The decline in the Southern Shan States is caused by the big drop in the Kēngtūng Subdivision and that in the Mandalay District is mainly attributable to the reduction by 2,984 primary cases in the urban area.

The decrease in primary vaccinations in Toungoo District is due to the general decline in vaccination work, for reasons already given. No satisfactory explanation is given for the fall-off in the Northern Shan States and Minbu District. Probably lack of proper supervision agency, with difficulties in communication, account for the decline in the former ; and slackness of the staff, in the face of indifference on the part of the people, and absence of small-pox, account for the decline in the latter. Obstructive tactics referred to in paragraph 4 are probably the cause for the poor figure for primary vaccination in Meiktila District.

Statement I.

6. *Re-vaccinations*.—A total of 352,860 re-vaccinations is recorded during the year as compared with 330,864 in the previous year, resulting in an increase of 21,996 operations.

A large increase in re-vaccination work is reported from Amherst (+17,983), Northern Shan States (+11,329), Akyab (+10,884) and Meiktila (+10,450). The rise in the districts of Amherst and Akyab, and in the Northern Shan States, is due to prevalence of small-pox. The notable increase in Meiktila District is the result of special efforts made by officers and staff concerned. Other districts returning an appreciable increase are Pakokku (+4,399), Sagaing (+2,955), Hantawaddy (+2,314) and Kyaukse (+2,238).

Deficits were registered in 20 districts, prominent amongst which are Mandalay (−11,662) and Rangoon (−7,766). The great reduction by 12,149 cases in Mandalay Town is obviously the sole reason for the decline in this district, while the drop in Rangoon is probably attributable to a lower incidence of small-pox.

Other districts returning considerable decreases are Shwebo (−5,703), Prome (−4,681), Lower Chindwin (−3,636), Yamethin (−2,858), Pegu (−2,823), and Henzada (−2,231).

Statement I.

7. *Results of Vaccination*.—Of the 628,785 primary operations (including dispensary figures) 575,113 were successful as compared with 556,889 in 1928-29. Results of 34,335 primary operations were unknown

as compared with 42,045 in the previous year, leaving 19,337 failures as against 16,585 in 1928-29.

Of the total of 575,113 successful primary vaccinations, 166,766 were on infants under one year of age, and 312,378 on children of one to six years. The remaining 95,969 successful primary vaccinations were on persons over six years of age.

The percentage of success, in primary vaccinations of which the results were known, is 96.75, as compared with 97.11 in the previous year. The districts which return success rates over 99 per cent are Bhamo (100 per cent), Tharrawaddy (99.95 per cent), Myaungmya (99.95 per cent), Pegu (99.81 per cent), Henzada (99.48 per cent), Prome (99.17 per cent) and Maubin (99.05 per cent), and below 90 per cent are Chin Hills (75.37 per cent), Mergui (84.17 per cent), Hill District of Arakan (84.89 per cent), Myitkyina (89.29 per cent), and Sandoway (89.55 per cent). The remaining districts report success rates between 90 and 99 per cent.

Of the 356,459 re-vaccinations, 103,182 were successful, as against 99,118 in the previous year. The percentage of success in re-vaccinations of which the results were known is 34.55, as against 36.22 in the previous year.

8. *Vaccination in Towns.*—In the year under review the vaccination work performed in the 73 towns where compulsory vaccination is in force shows a decline of 1,661 operations, compared with the previous year, the total number being 129,044 for 1929-30 and 130,705 for the previous year. This is due to 1,980 fewer primary vaccinations during the year, which were not counterbalanced by the small increase of 319 revaccinations.

Notable increases in total vaccinations are reported from Moulmein (+17,143), Akyab (+5,502), and Syriam (+2,025); while large deficits are reported from Mandalay (−15,133), Rangoon (−7,837), and Monywa (−1,635).

A marked increase in primary vaccinations was recorded in the towns of Akyab (+836), Mergui (+541), Maubin (+296), Pakokku (+288), Chauk (+275), Kyaiklat (+139), Minbu (+132), Moulmein (+114), and Shwebo (+114).

A big decrease was recorded from Mandalay (−2,984), due to a large output of work during the previous year, when 4 additional vaccinators were employed for 3 months. Other towns returning deficits are Thonzè (−335), Myinmu (−333), Thayetmyo (−242), Allanmyo (−185), Myingyan (−162), Pyawbwe (−138), Pegu (−132), Henzada (−125), and Lashio (−115).

A notable increase in re-vaccinations is reported from Moulmein (+17,029), Akyab (+4,666) and Syriam (+2,077); while a considerable decrease is returned from Mandalay (−12,149), Rangoon (−7,766) and Monywa (−1,694).

In Moulmein and Akyab the presence of small-pox in a virulent form, and the employment of an additional vaccinator to cope therewith in the latter town, are the causes of the increased number re-vaccinated during the year. Good work by the staff with efficient supervision was probably the cause of the improvement in Syriam, which was free from small-pox during the year.

Comparative freedom from small-pox and an exceptionally large number operated upon during the previous year were the causes of the decrease in Monywa, and this year's figure 139 compares favourably with that of 1927-28 which was only 105.

Revaccination work in Rangoon has gradually decreased since 1927-28 when 82,992 operations were performed, against 29,253 in 1928-29 and 21,487 this year. Comparative freedom from small-pox was probably the cause.

9. *Results of Vaccination in Towns.*—Out of 50,523 primary operations 46,192 were successful, and out of 78,521 re-vaccinations 19,972 were successful. The percentage of successful cases to total known cases was 96.79 for primary operations and 33.64 for re-vaccinations as compared with 97.27 and 40.43 respectively during the previous year.

One hundred per cent success in primary cases is reported from 27 towns, and over 99 per cent from 8 towns. The towns returning low primary success rates, below 90 per cent, are Myingyan (87.39) and Sandoway (88.61).

One hundred per cent success in re-vaccinations is reported from 8 towns—Pegu, Tharrawaddy, Thonzè, Ngathainggyaung, Myaungmya, Kawkareik, Bhamo and Myitkyina; while low rates below 10 per cent are returned from Kanbè, Thingangyun, Minbu, Henzada, Thongwa, Shwedaung, Nyaung-U, Pyapon, Danubyu, Insein and Kyaiklat.

Appendix B.

10. *Infant Vaccination.*—A total of 40,180 births and 11,758 deaths among infants under one year of age, was registered during the year under report in the 74 towns in which the Vaccination Acts are in force. The number of survivors according to these records therefore is 28,422. During the year 30,622 infants under one year, however, were successfully vaccinated in these towns,—being 2,200 in excess of the estimated survivors for the year.

The reasons given for this apparent excess are the vaccination of infants brought into towns from rural areas or of infants within 5 miles radius of some towns, but the real cause in the majority of towns would seem to be defective registration of births. In 30 towns infants vaccinated were in excess of estimated survivors, and in 13 they were in excess of recorded births. Large excesses over births are found in the returns of Prome (353), Kyonpyaw (349), Pyapon (320) and Pegu (206). In the other 10 towns excesses are below 200.

On the other hand, very low proportions of infant survivors were vaccinated in Lashio, Ye-U, Taunggyi, Wakema, Minbu and Sandoway; while Kalaw registered 66 births and 5 deaths, but no vaccination was done. This is a sure indication that the Rules under the Vaccination Acts were not enforced in these towns, though whole-time town-vaccinators were employed in Taunggyi, Wakema and Minbu. This matter will be taken up with the authorities concerned.

11. *Dispensary Vaccination.*—The work done in dispensaries in the year under review shows a reduction by 982 operations,—the figure for the year being 8,462, and that for the previous year 9,444. As in previous years the bulk of the work was carried out in the Myitkyina District, where 3,986 operations were performed as against 3,069 in 1928-29. Meiktila District, the Hill District of Arakan and the Upper Chindwin District returned a notable increase of 854, 388 and 242 respectively, while the Northern Shan States (—702), the Southern Shan States (—686), Tharrawaddy (—578) and Bhamo (—428) reported deficits.

12. *Jail Vaccination.*—In the jails 30,386 prisoners were vaccinated. Of these 2,321 were primary operations and 28,065 re-vaccinations. Of the primary cases 1,635 were successful and of the re-vaccinations 13,967, yielding a success rate of 70·44 per cent and 49·77 per cent respectively.

13. *Vaccination by Private Practitioners.*—During the year private Medical Practitioners performed 665 primary and 388 re-vaccinations, of which 371 primary operations and 114 re-vaccinations were successful. The number of children primarily vaccinated under one year was 130 and between one and six years 102. The results of 289 primary operations and 37 re-vaccinations were unknown,—the success rates recorded in known cases being 55·79 per cent and 29·38 per cent respectively.

Summary
Statement
No. I.

14. *Steamer Vaccination.*—Under the provision of Section 9 of the Burma Vaccination Law Amendment Act of 1909, as amended by Burma Act No. IV of 1928, 216,854 steamer vaccinations were performed in the year under review by the Rangoon Corporation Vaccination Staff under the supervision of the Port Health Department, Rangoon. The figures for the previous two years are,—1928-29—186,966 and 1927-28—44,937. These operations are excluded from the provincial operation figures commented on in paragraph 4, as their results are unknown.

Under the same Section 2,218 vaccinations were performed at Akyab Port.

15. *Verification Work by Inspecting Officers.*—Of the total number of 984,273 persons vaccinated, District Health Officers and Assistant

Statement
IV.

District Health Officers inspected the result of 114,211 or 11·60 per cent which compares favourably with 10·45 per cent in the previous year.

Inspectors of Vaccination and other Inspecting Officers verified the results of 347,993 or 55·41 per cent of primary cases and 154,520 or 43·37 per cent of re-vaccinations, as against 50·84 and 39·23 per cent respectively during the previous year. The District and Assistant District Health Officers of Meiktila inspected 88·51 per cent of primary and 52·14 per cent of re-vaccinations. The District Health Officers of Tavoy (45·23 and 42·69), Sagaing (41·07 and 2·40), Northern Shan States (38·30 and 12·94), and Upper Chindwin (31·20 and 22·58) carried out high percentages of verification work, while those of Akyab, Kyaukpyn, Hanthawaddy, Prome, Myaungmya, Pyapon, Mandalay, Yamèthin, Shwebo and Lower Chindwin verified less than 4 per cent of primary vaccinations.

The procedure adopted in Sandoway District deserves mention. While vaccinated children were being collected by the village *Thugyi* (Headman), the District Health Officer made a house-to-house visit and induced parents to bring unprotected children, if found, to the *Thugyi's* house, at the same time taking a note of children who were protected as well as those who were under one year of age. The Vaccination Register was then checked with the names of the children collected, and unprotected children were vaccinated. The Birth Register was checked with the names of the infants under one year of age at the same time.

High percentages of verification of both primary and re-vaccinations are reported by the Inspectors of Vaccination in the Districts of Pegu, Maubin, Tavoy, Thayetmyo, Kyauksè, Meiktila, Upper Chindwin, and Southern Shan States.

The work of Inspectors of Vaccination in the following districts is poor :—2·87 per cent primary and 4·19 per cent re-vaccinations in Myitkyina ; 2·49 per cent primary and 1·94 per cent re-vaccinations in Sandoway, and below 30 per cent primary vaccinations in the Hill District of Arakan, Shwebo and Akyab Districts.

Statement II.

16. *Cost of the Department.*—The total cost of the department, as shown in Statement No. II is Rs. 4,63,938-7-4, as against Rs. 4,29,062-6-0 in 1928-29. If, however, the sum of Rs. 44,836-10-0 credited to Government on account of the sale of vaccine lymph be deducted from the total expenditure, the net cost of the department is reduced to Rs. 4,19,101-13-4 as against Rs. 3,92,846-11-0 in 1928-29. The average cost per successful vaccination calculated on the total expenditure shown in the statement is Re. 0-11-0 as against Re. 0-10-6 in the previous year, and calculated on the net expenditure (total expenditure less sale proceeds of lymph) is Re. 0-9-11, as against a corresponding figure of Re. 0-9-7 in the previous year.

17. *Small-pox Inoculation*.—Although the practice of inoculation is prohibited in the Province (except in the Districts of Myitkyina, Bhamo and Arakan Hill Tracts) inoculators are still found carrying on their trade in a few districts. Five inoculators were prosecuted in Tharrawaddy District of whom 3 were fined Rs. 15 each and 2 absconded. One inoculator in the Akyab District has not been traced. In Magwe District, 2 inoculators were sentenced to 2 months' Simple Imprisonment and the inoculated persons were fined. Particulars of inoculators detected in Myingyan District have been called for. A prosecution instituted against 5 inoculators in Prome District failed for want of evidence. Over 600 persons were reported as having been inoculated by 6 Burmese *Sayas* in Chaungzon Township, Amherst District and the inoculators and inoculated have been prosecuted and the case is pending in court. One *Sesaya* and 3 parents were fined Rs. 25 and Rs. 15 each respectively in Pyapon District for inoculation.

18. *Prosecutions under the Vaccination Acts*.—For refusal to submit to vaccination 60 persons were convicted and fined varying sums from Re. 0-4-0 to Rs. 5 in Minbu District, and 16 were convicted and fined Rs. 3 each in Pyapon District. Twenty-three prosecution cases are pending in court,—10 in Mergui and 13 in Amherst District.

19. *Vaccine Depot, Meiktila*.—The work of modernising the Depot has proceeded during the year, and included the installation of an improved system of water supply, and of a large G-20 Glacia ice plant in place of a G-10 type, the construction of a rabbit and guinea pig house, and provision of three fire extinguishers. Quarters for the Director are under construction, and funds for a post-scraping stable and for a new operation-room and stable have been allotted.

Output of Lymph.—Two hundred and ninety-seven cow-calves and 13 buffalo-calves were successfully vaccinated during the year. Six cow-calves either failed to take or yielded lymph of such poor quality that it had to be destroyed. The following table contrasts the output and issue of lymph during the year with that of the two previous years.

Year.	No. of calves.	Total yield.		Average yield per calf and buffalo.		Number of doses issued.
		oz.	grams.	grams.	grains.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1927-28	387 calves.	404.33	11,463	29.62	457.09	1,136,232
	10 buffaloes.	47.26	1,340	134.00	2,069.88	
1928-29	363 calves.	464.80	13,177	36.30	560.18	1,376,338
	15 buffaloes.	62.65	1,776	118.40	1,827.14	
1929-30	297 calves.	484.34	13,731	46.23	713.42	1,443,058
	13 buffaloes.	57.24	1,623	124.84	1,926.53	

The average yield per cow-calf increased from 36.30 grammes in 1928-29 to 46.23 grammes in 1929-30, and I desire to congratulate the Director of the Dépôt on this highly successful result.

There was an opening balance of 2,988 grammes of lymph carried over from the previous year, and 15,354 grammes were manufactured during the year. Out of this total of 18,342 grammes, 12,742 were issued, 1,180 used as seed lymph and a closing balance of 4,420 has been carried over to the year 1930-31.

Technique.—The seed lymph was passed through a modified Nijland cycle throughout the year,—(rabbit to cow-calf, cow-calf to buffalo-calf, and back to rabbit), which maintained potency at a high standard. Glycerinated lymphs were issued after the Cunningham potency test had been applied. The Calmette-Guerin test was also applied to more than half of the lymph issued.

Lymph Supply.—Of the 1,443,058 doses issued, 1,403,681 were supplied to Municipalities and districts on payment, and the balance of 39,377 doses was issued free of charge to Military (5,189), Jails (22,313), Government vaccinators at Kanpetlet (1,030) and Chin Hills (10,695) and to the Mental Hospital, Rangoon (150).

Results.—Out of 330,734 primary vaccinations, the results of which were reported to the Dépôt, a success rate of 95.59 per cent was obtained as against 99.09 per cent in 1928-29. In 148,806 re-vaccinations, percentage of success was 34.42 as compared with 35.76 in the previous year.

Finance.—The total maintenance expenditure of the Dépôt for the year under report is Rs. 45,619-8-0 and the total net income Rs. 44,836-10-0, leaving a net loss of Rs. 782-14-0, as against Rs. 374-6-7, in the previous year. A sum of Rs. 10,346-6-0 on account of sale of lymph was outstanding at the end of the year, as against a sum of Rs. 6,893-0-0 outstanding at the beginning of the year. The expenditure for building projects referred to in the beginning of this section is not included in the above account. Out of the total expenditure, a sum of Rs. 19,848-13-0 was expended on establishment, Rs. 5,098-14-0 on European Medicine and instruments, Rs. 9,774-7-0 on contingencies, Rs. 3,920-0-0 on hire and Rs. 2,468-0-0 on feeding of calves, Rs. 3,527-5-0 on menial servants, Rs. 797-3-0 on service postage and telegrams and Rs. 184-14-0 on petty construction and repairs.

The system of hiring calves, introduced on the 13th October 1928 was found to be satisfactory and economical as illustrated in the table below :—

Hire System (17th October 1928 to 16th October 1929).			Purchase System (1927-28).		
	Rs.	A. P.		Rs.	A. P.
Cost of hiring 302 cow-calves at Rs. 11-8-0 per calf and 3 at Rs. 15 per calf.	3,518	0 0	Cost of buying 305 cow-calves at Rs. 15-0-1 per calf.	4,576	9 5
Cost of hiring 14 buffalo-calves at Rs. 38 per calf.	532	0 0	Cost of buying 14 buffalo-calves at Rs. 54 per calf.	756	0 0
Feeding charges (Approximate).	1,026	12 6	Feeding charges (including wages to grazers).	1,747	13 8
...	...		Total	7,080	7 1
			Deduct—amount realised from sale of calves at Rs. 5-5-2 per calf, for 288 calves (No. of casualties being 31).	1,533	0 0
Net cost to Government	5,076	12 6	Net cost to Government	5,547	7 1
∴ Average Expenditure per calf.	15	14 8	∴ Average Expenditure per calf.	17	6 3

20. *Training Class*.—Eighty-seven students, including 3 ladies, were admitted to the Vaccinators' Training Class and all passed the qualifying examination. Two Sub-Assistant Surgeons of the Public Health Department, 36 Public Health Inspectors and 1 Inspector of Vaccination from the Northern Shan States also underwent training in vaccination during the year.

21. *General Remarks*.—Dr. G. H. Blaker, I.M.D., was Director of the Vaccine Depôt throughout the year. Assistant Director U Thaw Zan was relieved on the 9th July 1929 by U Myat Maung, who remained up to the end of the year. Visits to the Depôt were paid by Lieutenant-Colonel H. A. Williams, D.S.O., I.M.S., Officiating Inspector-General of Civil Hospitals, Burma; the Director of Public Health, Burma; and Dr. K. T. Jungalwalla, L.M. & S., D.P.H., Assistant Director of Public Health, Burma.

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Lieut.-Colonel, I.M.S.,
Offg. Director of Public Health, Burma

The system of hiring calves introduced on the 13th October 1928 was found to be satisfactory and economical as illustrated in the table below:—

This System (1928-29)	Old System (17th October 1928 to 13th October 1929)
<p>Cost of hiring 302 calves at Rs. 15-4 per calf = 4,530 0 0</p> <p>Cost of hiring 14 calves at Rs. 24 per calf = 336 0 0</p> <p>Feeding charges (including wages to attendants) = 1,026 11 0</p> <p>Total = 5,892 11 0</p>	<p>Cost of hiring 302 calves at Rs. 15-0 per calf and 14 calves at Rs. 25 per calf = 4,538 0 0</p> <p>Cost of hiring 14 calves at Rs. 24 per calf = 336 0 0</p> <p>Feeding charges (including wages to attendants) = 1,026 11 0</p> <p>Total = 5,899 11 0</p>
<p>Net cost to Government = 5,892 11 0</p> <p>Average expenditure per calf = 19 8 3</p>	<p>Net cost to Government = 5,899 11 0</p> <p>Average expenditure per calf = 19 14 8</p>

30. *Vaccination Camp*.—Eighty-seven students including 3 ladies, were admitted to the Vaccination Training Camp and all passed the following examinations. Two Sub-Assistant Surgeons of the Public Health Department, 30 Public Health Assistants and 1 Inspector of Vaccination from the Northern States were also present and attended the vaccination during the year.

31. *General Remarks*.—Dr. G. H. Huxley, M.B., was Director of the Vaccine Plant throughout the year. Assistant Director E. Thaw, M.B., was in charge of the Vaccine Plant from the 1st July 1928 to the 31st March 1929. Dr. H. A. Williams, D.S.O., I.M.S., Officiating Inspector-General of Civil Hospitals, was the Director of Public Health, Burma; and Dr. R. T. Huxley, M.B., was the Assistant Director of Public Health, Burma.

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 Off. Director of Public Health, Burma.

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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 vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
					Males.	Females.	Total.
	ARAKAN DIVISION.						
1	Akyab District ...	576,430	142	13	45,455	34,571	80,026
	Rural ...	539,861	...	11	34,987	32,210	67,197
	Urban ...	36,569	...	2	10,468	2,361	12,829
2	Hill District of Arakan ...	20,914	14	3	3,227	1,495	4,722
3	Kyaukpyu District ...	199,873	46	6	6,651	5,225	11,876
	Rural ...	195,989	...	6	6,560	5,175	11,735
	Urban ...	3,884	...	...	91	50	141
4	Sandoway District ...	112,029	30	4	2,939	2,573	5,512
	Rural ...	108,267	...	3	2,852	2,489	5,341
	Urban ...	3,762	...	1	87	84	171
	PEGU DIVISION.						
5	Rangoon ...	345,505	4,487	22	24,393	6,985	31,378
6	Pegu District ...	445,620	109	9	13,665	14,004	27,669
	Rural ...	419,355	...	7	11,606	12,482	24,088
	Urban ...	26,265	...	2	2,059	1,522	3,581
7	Tharrawaddy District ...	492,429	172	13	17,695	18,660	36,355
	Rural ...	449,000	...	8	16,468	17,688	34,156
	Urban ...	43,429	...	5	1,227	972	2,199
8	Hanthawaddy District ...	364,624	195	9	12,835	10,652	23,487
	Rural ...	340,935	...	7	7,802	10,026	17,828
	Urban ...	23,689	...	2	5,033	626	5,659
9	Insein District ...	289,540	152	9	8,290	8,242	16,532
	Rural ...	254,031	...	6	6,866	6,994	13,860
	Urban ...	35,509	...	3	1,424	1,248	2,672
10	Prome District ...	371,575	127	14	14,806	15,331	30,137
	Rural ...	322,246	...	10	13,493	14,166	27,659
	Urban ...	49,329	...	4	1,313	1,165	2,478
	IRRAWADDY DIVISION.						
11	Bassein District ...	489,473	119	16	15,414	15,125	30,539
	Rural ...	434,904	...	12	13,201	13,422	26,623
	Urban ...	54,569	...	4	2,213	1,703	3,916

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1929-30 (Paragraphs 1, 2, 3, 4 and 5).

Average number of persons vaccinated by each vaccination.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
6,171	29,067	4,200	14,808	26,151	1,635	1
6,109	27,426	3,710	14,565	24,636	1,635	
6,415	1,641	490	243	1,515	...	2
1,404	† 1,703	24	558	1,185	307	
1,979	9,678	1,055	4,246	8,110	805	3
1,956	* 9,583	1,006	4,218	8,021	803	
...	95	49	28	89	2	4
1,378	3,810	1,010	1,767	3,196	241	
1,780	3,683	944	1,724	3,087	237	
171	127	66	43	109	4	
1,401	† 9,891	6,198	1,423	7,930	1,826	5
3,074	17,427	5,734	7,952	15,986	1,411	6
3,441	15,490	4,561	7,585	14,343	1,118	7
1,791	1,937	1,173	367	1,643	293	
2,757	† 24,752	7,288	14,521	24,014	727	
4,211	† 23,164	6,437	13,963	22,472	692	8
430	† 1,588	851	558	1,542	35	
2,610	16,840	5,114	8,557	15,710	408	
2,547	16,205	4,742	8,328	15,092	408	9
2,830	635	372	229	618	...	
1,837	13,617	3,974	7,074	12,989	362	
2,310	11,768	3,072	6,183	11,142	361	10
891	1,849	902	891	1,847	1	
2,153	28,611	8,428	18,178	28,029	346	
2,766	26,436	6,865	17,665	25,904	323	11
620	2,175	1,563	513	2,125	23	
1,876	23,957	5,220	13,281	23,066	464	11
2,219	21,266	3,490	12,516	20,402	443	
847	2,691	1,730	765	2,664	21	

operations included.
agencies and Dispensaries included.

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in the

No.	Divisions and Districts.			Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
				Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)			(13)	(14)	(15)	(16)	(17)	(18)
ARAKAN DIVISION.									
1	Akyab District	...	...	50,959	18,027	4,998	95'33	39'22	76'64
	Rural	...	...	39,771	12,634	3,195	95'52	34'54	69'04
	Urban	...	...	11,188	5,393	1,803	92'32	57'46	188'90
2	Hill District of Arakan	...	...	† 3,019	1,100	912	84'89	52'21	109'26
3	Kyaukpyu District	...	...	2,224	769	417	91'40	42'56	44'42
	Rural	...	...	2,178	759	414	91'36	43'03	44'80
	Urban	...	...	46	10	3	95'70	23'26	25'49
4	Sandoway District	...	...	1,702	133	283	89'55	9'37	29'72
	Rural	...	...	1,658	116	280	89'58	8'42	29'58
	Urban	...	...	44	17	3	88'62	41'46	33'49
PEGU DIVISION.									
5	Rangoon	...	...	† 21,487	3,062	9,786	98'33	26'17	31'81
6	Pegu District	...	...	10,242	1,860	3,002	99'81	25'69	40'05
	Rural	...	...	8,598	1,317	2,444	99'80	21'40	37'34
	Urban	...	...	1,644	543	558	99'94	50'00	83'23
7	Tharrawaddy District	...	...	† 11,603	3,716	3,478	99'95	45'74	56'31
	Rural	...	...	† 10,992	3,496	3,375	100'00	45'90	57'84
	Urban	...	...	† 611	220	103	99'29	43'31	40'57
8	Hanthawaddy District	...	...	6,647	1,565	391	95'61	25'02	47'38
	Rural	...	...	1,623	376	83	95'54	24'42	45'37
	Urban	...	...	5,024	1,189	308	97'32	25'21	76'28
9	Insein District	...	...	2,915	347	220	97'99	12'88	46'06
	Rural	...	...	2,092	270	216	97'68	14'39	44'92
	Urban	...	...	823	77	4	99'95	9'40	54'18
10	Prome District	...	...	1,526	399	131	99'17	28'60	76'51
	Rural	...	...	1,223	300	100	99'20	26'71	81'32
	Urban	...	...	303	99	31	98'75	36'40	45'09
IRRAWADDY DIVISION.									
11	Bassein District	...	...	† 6,582	2,384	1,764	98'18	49'48	51'99
	Rural	...	...	5,357	1,963	1,168	97'98	46'86	51'43
	Urban	...	...	† 1,225	421	596	99'78	66'93	56'53

† Work done by other

DEPARTMENT.

Province of Burma during the year 1929-30—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
5.62	9.81	25,057	43.47	148	0.26	1
5.96	8.03	...	...	...	...
7.00	16.12	...	...	...	...
18.03	30.21	1,271	60.76	...	...	2
8.32	18.75	9,454	47.30	7	0.03	3
8.38	17.01	...	...	...	...
2.11	6.52	...	...	...	...
6.33	16.63	4,554	40.65	15	0.14	4
6.43	16.89	...	...	...	...
3.15	6.82	...	...	...	...
18.46	45.54	24,832	71.87	270	0.78	5
8.10	29.31	17,195	38.59	159	0.36	6
7.22	28.43	...	...	...	...
15.13	33.94	...	...	...	...
2.94	29.98	22,817	46.34	20	0.04	7
2.99	30.70	...	...	...	...
2.20	16.86	...	...	...	...
2.42	5.88	17,224	47.24	54	0.15	8
2.52	5.11	...	...	...	...
...	6.13	...	...	...	...
2.66	7.55	12,396	42.81	49	0.17	9
3.07	10.33	...	...	...	...
0.05	0.49	...	...	...	...
1.21	8.58	21,021	56.57	87	0.23	10
1.22	8.18	...	...	...	...
1.06	10.23	...	...	...	...
1.94	26.80	22,158	45.27	35	0.07	11
2.08	21.80	...	...	...	...
0.78	48.65	...	...	...	...

agencies and Dispensaries 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 vaccinators employed throughout the year.	Total number of persons vaccinated.		
					(6)		
(1)	(2)	(3)	(4)	(5)	Males.	Females.	Total.
IRRAWADDY DIVISION—concl'd.							
12	Henzada District ...	550,920	192	15	15,341	16,498	31,839
	Rural ...	512,412	...	12	14,535	15,682	30,217
	Urban ...	38,508	...	3	806	816	1,622
13	Myaungmya District ...	370,551	140	15	16,616	18,615	35,231
	Rural ...	349,709	...	12	15,888	17,988	33,876
	Urban ...	20,842	...	3	728	627	1,355
14	Maubin District ...	330,106	201	12	14,752	14,535	29,287
	Rural ...	305,938	...	9	13,101	13,543	26,644
	Urban ...	24,168	...	3	1,651	992	2,643
15	Pyapon District ...	288,994	135	10	12,978	14,210	27,188
	Rural ...	271,661	...	8	11,944	13,231	25,175
	Urban ...	17,333	...	2	1,034	979	2,013
TENASSERIM DIVISION.							
16	Salween District ...	50,379	19	4	4,298	2,851	7,149
17	Thaton District ...	471,100	98	14	16,035	15,528	31,563
	Rural ...	448,841	...	12	14,857	15,112	29,969
	Urban ...	22,259	...	2	1,178	416	1,594
18	Amherst District... ..	417,910	59	11	40,383	29,989	70,372
	Rural ...	350,022	...	8	24,419	24,431	48,850
	Urban ...	67,888	...	3	15,964	5,558	21,522
19	Tavoy District ...	156,786	30	6	3,773	4,362	8,135
	Rural ...	129,306	...	4	3,276	3,831	7,107
	Urban ...	27,480	...	2	497	531	1,028
20	Mergui District ...	135,465	14	5	6,064	5,690	11,754
	Rural ...	117,057	...	4	4,515	4,420	8,935
	Urban ...	18,408	...	1	1,549	1,270	2,819
21	Toungoo District ...	381,883	62	13	13,635	13,562	27,197
	Rural ...	350,117	...	10	12,538	12,797	25,335
	Urban ...	31,766	...	3	1,097	765	1,862
MAGWE DIVISION.							
22	Thayetmyo District ...	255,406	54	8	5,628	5,784	11,412
	Rural ...	233,419	...	6	4,793	5,131	9,924
	Urban ...	21,987	...	2	835	653	1,488
23	Minbu District ...	274,302	83	7	4,524	4,499	9,023
	Rural ...	262,065	...	5	4,258	4,214	8,472
	Urban ...	12,237	...	2	266	285	551

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1929-30—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
2,122	† 30,053	9,246	17,826	29,540	360	12
2,518	28,873	8,266	17,635	28,360	360	
536	+ 1,180	980	191	1,180	...	
2,323	† 27,110	5,295	13,719	26,286	811	13
2,790	† 26,009	4,920	13,288	25,201	802	
452	1,101	375	431	1,085	9	
2,436	22,508	4,843	15,698	21,973	324	14
2,960	21,137	4,140	15,176	20,648	280	
861	1,371	703	522	1,325	44	
2,719	20,733	6,383	13,756	20,357	159	15
3,147	19,248	5,704	13,025	18,915	132	
1,007	1,485	679	731	1,442	27	
1,787	* 3,900	79	558	2,767	955	16
2,255	20,930	5,768	10,418	18,811	1,518	17
2,497	20,301	5,303	10,314	18,207	1,509	
797	629	465	104	604	9	
6,389	† 23,327	5,898	9,785	21,992	968	18
6,102	† 21,268	4,061	9,710	20,057	939	
7,153	* 2,059	1,837	75	1,935	29	
1,356	* 7,899	4,664	2,829	7,555	9	19
1,777	† 6,916	3,811	2,750	6,611	9	
514	983	853	79	944	...	
2,351	8,975	1,335	3,670	6,961	705	20
2,234	7,426	848	3,126	5,491	673	
2,819	1,549	487	544	1,470	32	
2,087	† 15,590	2,929	7,358	14,650	654	21
2,528	† 14,463	2,386	6,956	13,570	641	
621	* 1,127	543	402	1,080	13	
1,427	9,347	2,727	5,236	8,847	250	22
1,654	8,203	2,155	4,880	7,776	216	
744	1,144	572	356	1,071	34	
1,289	* 9,011	2,491	5,589	8,100	340	23
1,694	8,472	2,278	5,812	7,610	318	
276	539	213	277	490	22	

operations included.
agencies and Dispensaries included.

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in the

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
IRRAWADDY DIVISION—concl'd.							
12	Henzada District ...	† 1,786	187	216	99·48	11·91	53·96
	Rural ...	1,344	161	215	99·46	14·26	55·66
	Urban ...	† 442	26	1	100·00	5·90	31·32
13	Myaungmya District ...	† 8,121	2,113	1,595	99·95	32·38	76·64
	Rural ...	† 7,867	2,045	1,509	99·98	32·16	77·91
	Urban ...	254	68	86	99·36	40·48	55·32
14	Maubin District ...	† 6,779	768	330	99·05	11·91	68·89
	Rural ...	5,507	553	155	99·00	10·33	69·30
	Urban ...	† 1,272	215	175	99·85	19·60	63·72
15	Pyapon District ...	6,455	1,027	480	98·95	17·19	73·99
	Rural ...	5,927	979	446	98·95	17·86	73·23
	Urban ...	528	48	34	98·90	9·72	85·96
TENASSERIM DIVISION.							
16	Salween District ...	* 3,275	816	778	93·96	32·68	71·12
17	Thaton District ...	10,633	1,759	1,734	96·90	19·77	43·66
	Rural ...	9,668	1,271	1,575	96·89	15·70	43·40
	Urban ...	965	488	159	97·42	60·55	49·06
18	Amherst District ...	† 47,081	5,819	6,198	98·36	14·23	66·55
	Rural ...	† 27,582	2,627	1,962	98·66	10·25	64·81
	Urban ...	† 19,499	3,192	4,236	95·32	20·91	75·52
19	Tavoy District ...	260	117	24	95·75	49·58	48·93
	Rural ...	215	86	24	95·71	45·03	51·79
	Urban ...	45	31	...	96·03	68·89	35·48
20	Mergui District ...	2,779	948	210	84·17	36·90	58·38
	Rural ...	1,509	337	97	81·31	23·87	49·79
	Urban ...	1,270	611	113	96·90	52·81	113·05
21	Toungoo District ...	11,610	1,808	1,357	98·09	17·63	43·10
	Rural ...	10,872	1,573	1,330	98·18	16·49	43·25
	Urban ...	738	235	27	96·95	33·05	41·40
MAGWE DIVISION.							
22	Thayetmyo District ...	2,065	551	96	97·25	27·98	36·80
	Rural ...	1,721	414	31	97·36	24·50	35·09
	Urban ...	344	137	65	96·49	49·10	54·94
23	Minbu District ...	18	5	4	93·41	35·71	29·55
	Rural ...	6	1	2	93·33	25·00	29·04
	Urban ...	12	4	2	94·78	40·00	40·37

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1929-30—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
1.20	12.09	27,376	49.69	35	0.06	12
1.25	16.00	...	...	...	...
...	0.23	...	...	...	...
2.99	19.64	25,182	67.96	35	0.09	13
3.08	19.18	...	...	...	...
0.82	33.86	...	...	...	...
1.44	4.87	21,020	63.68	49	0.15	14
1.32	2.81	...	...	...	...
3.21	13.76	...	...	...	...
0.77	7.44	18,439	63.80	61	0.21	15
.69	7.52	...	...	...	...
1.82	6.44	...	...	...	...
24.49	23.76	4,076	80.90	...	...	16
7.25	16.31	19,091	40.52	78	0.17	17
7.43	16.29	...	...	...	...
1.43	16.48	...	...	...	...
4.15	13.16	21,639	51.78	66	0.16	18
4.42	7.11	...	...	...	...
1.41	21.72	...	...	...	...
0.11	9.23	7,104	45.31	1	0.01	19
0.13	11.16	...	...	...	...
...	
7.86	7.56	5,455	40.27	9	0.06	20
9.06	6.43	...	...	...	...
2.07	8.90	...	...	...	...
4.19	11.69	16,342	42.79	139	0.36	21
4.43	12.23	...	...	...	...
1.15	3.66	...	...	...	...
2.67	4.65	10,387	40.67	79	0.31	22
2.63	1.80	...	...	...	...
2.97	18.90	...	...	...	...
3.77	22.22	11,401	41.56	36	0.13	23
3.75	33.33	...	...	...	...
4.08	16.67	...	...	...	...

operations included.
agencies and Dispensaries 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 vaccinators employed throughout the year.	Total number of persons vaccinated.		
					(6)		
(1)	(2)	(3)	(4)	(5)	Males.	Females.	Total.
MAGWE DIVISION—concl'd.							
24	Magwe District ...	423,252	115	11	15,257	14,101	29,358
	Rural ...	393,995	...	7	14,408	13,422	27,830
	Urban ...	29,257	...	4	849	679	1,528
25	Pakokku District ...	465,771	75	9	13,461	13,543	27,004
	Rural ...	446,264	...	8	12,553	13,105	25,658
	Urban ...	19,507	...	1	908	438	1,346
26	Chin Hills District ...	110,079	14	5	5,591	5,107	10,698
27	Pakokku Hill Tracts ...	20,043	6	1	720	195	915
MANDALAY DIVISION.							
28	Mandalay District ...	356,621	166	11	9,520	9,429	18,949
	Rural ...	187,707	...	5	3,470	3,824	7,294
	Urban ...	168,914	...	6	6,050	5,605	11,655
29	Kyaukse District ...	142,677	111	5	5,410	5,426	10,836
	Rural ...	136,570	...	4	5,137	5,191	10,328
	Urban ...	6,107	...	1	273	235	508
30	Meiktila District ...	289,897	127	6	12,248	14,057	26,305
	Rural ...	281,029	...	5	11,290	13,496	24,786
	Urban ...	8,868	...	1	958	561	1,519
31	Myingyan District ...	442,008	161	9	12,763	10,548	23,311
	Rural ...	415,983	...	7	12,162	9,971	22,133
	Urban ...	26,025	...	2	601	577	1,178
32	Yamethin District ...	323,189	77	8	21,307	23,925	45,232
	Rural ...	294,730	...	5	19,426	22,596	42,022
	Urban ...	28,459	...	3	1,881	1,329	3,210
SAGAING DIVISION.							
33	Bhamo District ...	112,960	16	4	2,797	1,936	4,733
	Rural ...	105,219	...	3	2,030	1,731	3,761
	Urban ...	7,741	...	1	767	205	972
34	Myitkyina District ...	146,074	13	3	4,080	3,008	7,088
	Rural ...	141,118	...	3	3,893	2,960	6,853
	Urban ...	4,956	...	...	187	48	235
35	Shwebo District ...	380,016	68	12	10,857	11,814	22,671
	Rural ...	366,669	...	11	10,457	11,426	21,883
	Urban ...	13,347	...	1	400	388	788

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1929-30—contd.

Average number of persons vaccinated by each vaccinator. (7)	Primary Vaccination.					No. (1)
	Total. (8)	Successful.			Unknown. (12)	
		Under one year. (9)	One and under six years. (10)	Total of all ages. (11)		
2,668	*16,666	6,729	9,306	15,906	433	24
3,976	15,360	6,027	8,778	14,805	379	
379	* 1,306	702	528	1,101	54	
3,000	16,091	5,672	7,496	14,139	613	25
3,207	15,251	5,260	7,272	13,342	587	
1,346	840	412	224	797	26	
2,140	*9,863	38	3,285	6,495	1,245	26
915	577	1	133	415	127	27
1,718	*†13,662	7,215	4,709	12,606	533	28
1,459	*6,417	1,644	3,382	5,482	523	
1,934	*†7,245	5,571	1,327	7,124	10	
2,164	*†7,207	3,684	2,844	6,849	271	29
2,578	*†6,872	3,469	2,755	6,540	263	
508	*335	215	89	309	8	
4,241	†9,261	1,789	4,939	7,407	1,384	30
4,802	†8,832	1,539	4,785	6,989	1,373	
1,439	†429	250	154	418	11	
2,590	15,081	7,498	5,383	13,705	775	31
3,162	14,451	7,123	5,260	13,194	712	
589	630	375	123	511	63	
5,654	23,681	6,229	8,235	21,374	1,515	32
8,404	22,137	5,504	7,695	20,000	1,394	
1,070	1,544	725	540	1,374	121	
1,102	†3,495	484	2,081	3,052	443	33
1,145	3,207	356	1,961	2,774	433	
972	288	128	120	278	10	
1,034	†5,442	395	1,359	2,401	2,753	34
956	†5,295	331	1,327	2,256	2,751	
...	147	64	32	145	2	
1,889	17,922	4,497	10,251	15,806	1,176	35
1,989	17,340	4,074	10,189	15,287	1,145	
788	582	423	62	519	31	

operations included.
agencies and Dispensaries included.

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in the

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
MAGWE DIVISION—concl'd.							
24	Magwe District ...	†12,821	3,143	2,205	97·99	29·61	45·01
	Rural ...	12,470	2,987	2,176	98·83	29·02	45·16
	Urban ...	†351	156	29	87·94	48·45	42·96
25	Pakokku District ...	10,913	1,123	381	91·35	10·66	32·77
	Rural ...	10,407	1,061	326	90·98	10·52	32·27
	Urban ...	506	62	55	97·91	13·75	44·04
26	Chin Hills District ...	837	294	37	75·37	36·75	61·67
27	Pakokku Hill Tracts ...	338	64	129	92·22	30·62	23·90
MANDALAY DIVISION.							
28	Mandalay District ...	†5,673	2,181	167	96·02	39·61	41·46
	Rural ...	1,158	577	137	93·01	56·51	32·28
	Urban ...	†4,515	1,604	30	98·47	35·76	51·67
29	Kyaukse District ...	*†3,671	1,533	507	98·75	48·45	58·75
	Rural ...	*†3,470	1,456	483	98·96	48·74	58·55
	Urban ...	*201	77	24	94·50	43·50	63·21
30	Meiktila District ...	†17,044	6,084	4,956	94·03	50·33	46·54
	Rural ...	†15,954	5,962	4,769	93·70	53·30	46·08
	Urban ...	1,090	122	187	100·00	13·51	60·89
31	Myingyan District ...	*8,355	1,811	1,361	95·80	25·89	35·10
	Rural ...	*7,807	1,791	1,291	96·03	27·49	36·02
	Urban ...	548	20	70	90·12	4·18	20·40
32	Yamethin District ...	21,551	6,612	3,354	96·43	36·34	86·59
	Rural ...	19,885	6,129	2,668	96·42	35·60	88·65
	Urban ...	1,666	483	686	96·56	49·29	65·25
SAGAING DIVISION.							
33	Bhamo District ...	*†1,248	568	580	100·00	85·03	32·05
	Rural ...	*†564	317	147	100·00	76·02	29·38
	Urban ...	684	251	433	100·00	100·00	68·34
34	Myitkyina District ...	†1,646	560	876	89·29	72·73	20·27
	Rural ...	†1,558	472	876	88·68	69·21	19·33
	Urban ...	88	88	...	100·00	100·00	47·01
35	Shwebo District ...	4,749	2,211	665	94·39	54·14	47·41
	Rural ...	4,543	2,110	637	94·39	54·02	47·45
	Urban ...	206	101	28	94·19	56·74	46·45

* Secondary

† Work done by other

DEPARTMENT.

Province of Burma during the year 1929-30—contd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination.	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
2.60	17.20	16,830	39.76	108	0.26	24
2.47	17.45	...	...	...	...
4.13	8.26	...	...	...	...
3.81	3.49	13,277	28.51	110	0.24	25
3.85	3.13	...	...	...	...
3.10	10.87	...	...	...	...
12.62	4.42	4,226	38.39	...	...	26
22.01	38.17	688	34.33	...	...	27
3.90	2.94	19,037	53.38	158	0.44	28
8.15	11.83	...	...	...	...
0.14	0.66	...	...	...	...
3.76	13.81	6,985	48.96	21	0.15	29
3.83	13.92	...	...	...	...
2.39	11.94	...	...	...	...
14.94	29.08	8,630	29.77	64	0.22	30
15.55	29.89	...	...	...	...
2.56	17.16	...	...	...	...
5.14	16.29	14,051	31.79	353	0.80	31
4.93	16.54	...	...	...	...
10.00	12.77	...	...	...	...
6.40	15.56	15,861	49.08	80	0.25	32
6.30	13.42	...	...	...	...
7.84	41.18	...	...	...	...
12.68	46.47	4,451	39.39	...	...	33
13.50	26.06	...	...	...	...
3.47	63.30	...	...	...	...
50.59	53.22	3,041	20.82	...	...	34
51.95	56.23	...	...	...	...
1.36	...	...	...	...	...
6.56	14.00	17,965	46.18	79	0.20	35
6.60	14.02	...	...	...	...
5.33	13.59	...	...	...	...

operations included.
agencies and Dispensaries included.

A.—VACCINATION

STATEMENT No. I—Showing the particulars of Vaccination in

No.	Divisions and Districts.	Population of districts according to Census of 1921.	Average population per square mile.	Average number of vaccinators employed throughout the year.	Total number of persons vaccinated.		
(1)	(2)	(3)	(4)	(5)	(6)		
	SAGAING DIVISION—concl'd.				Males.	Females.	Total.
36	Sagaing District ...	326,908	180	8	15,052	18,791	33,843
	Rural ...	315,050	...	6	14,130	17,862	31,992
	Urban ...	11,858	...	2	922	929	1,851
37	Katha District ...	233,706	30	6	6,318	6,663	12,981
38	Upper Chindwin District ...	179,245	11	6	4,971	4,660	9,631
39	Lower Chindwin District ...	354,148	99	8	8,759	9,588	18,347
	Rural ...	344,923	...	7	8,510	9,371	17,881
	Urban ...	9,225	...	1	249	217	466
	FEDERATED SHAN STATES.						
40	Northern Shan States ...	559,223	28	20	27,676	15,572	43,248
	Rural ...	555,775	...	20	27,416	15,529	42,945
	Urban ...	3,448	...	...	260	43	303
41	Southern Shan States ...	911,468	23	22	20,842	19,898	40,740
	Rural ...	901,282	...	21	20,658	19,738	40,396
	Urban ...	10,186	...	1	184	160	344
	Total for 1929-30 ...	13,169,099	56	392	517,026	467,247	984,273
	Rural ...	11,895,815	...	297	428,624	426,225	854,849
	Urban ...	1,273,284	...	95	88,402	41,022	129,424

* Secondary
† Work done by other

DEPARTMENT.

the Province of Burma during the year 1929-30—contd.

Average number of persons vaccinated by each vaccinator.	Primary Vaccination.					No.
	Total.	Successful.			Unknown.	
		Under one year.	One and under six years.	Total of all ages.		
(7)	(8)	(9)	(10)	(11)	(12)	(1)
4,230	20,609	9,180	10,075	19,493	738	36
5,332	19,818	8,828	9,666	18,721	728	
926	791	352	409	772	10	
2,164	*11,410	1,625	7,229	10,969	179	37
1,565	†7,731	1,043	4,704	6,857	251	38
2,293	*12,662	6,186	5,489	12,084	30	39
2,554	*12,326	5,970	5,424	11,796	3	
466	336	216	65	288	27	
2,140	†26,130	3,494	13,884	24,853	960	40
2,125	†26,085	3,489	13,855	24,809	960	
...	45	5	29	44	...	
1,813	†32,559	1,104	12,169	26,497	5,324	41
1,883	†32,268	985	12,010	26,207	5,323	
344	291	119	159	290	1	
2,489	*†628,785	166,766	312,378	575,113	34,335	
2,854	*†578,180	136,108	299,745	528,435	31,537	
1,348	*†50,605	30,658	12,633	46,678	2,798	

operations included.
agencies and Dispensaries included,

A.—VACCINATION

STATEMENT NO. I—Showing the particulars of Vaccination in

No.	Divisions and Districts.	Re-vaccination.			Percentage of successful cases in which the results were known.		Persons successfully vaccinated per 1,000 of population.
		Total.	Successful.	Unknown.	Primary.	Re-vaccination.	
(1)	(2)	(13)	(14)	(15)	(16)	(17)	(18)
	SAGAING DIVISION—concl'd.						
36	Sagaing District ...	13,234	4,660	3,301	98'10	46'91	73'88
	Rural ...	12,174	4,002	3,212	98'07	44'66	72'13
	Urban ...	1,060	658	89	98'85	67'77	120'59
37	Katha District ...	1,596	325	53	97'67	21'06	48'33
38	Upper Chindwin District ...	†1,900	1,061	122	91'67	59'67	44'17
39	Lower Chindwin District ...	5,816	4,128	103	95'66	72'26	45'78
	Rural ...	5,677	4,066	87	95'72	72'74	45'99
	Urban ...	139	62	16	93'20	50'41	37'94
	FEDERATED SHAN STATES.						
40	Northern Shan States ...	†17,118	14,939	515	98'74	89'98	71'16
	Rural ...	†16,860	14,734	515	98'74	90'14	71'15
	Urban ...	258	205	...	97'78	79'46	72'22
41	Southern Shan States ...	†8,181	2,605	75	97'29	32'14	31'93
	Rural ...	†8,128	2,599	75	97'26	32'27	31'96
	Urban ...	53	6	...	100'00	11'32	29'06
	Total for 1929-30 ...	*†356,459	103,182	57,791	96'75	34'55	51'51
	Rural ...	*†277,330	83,201	38,051	96'67	34'77	51'42
	Urban ...	*†79,129	19,981	19,740	97'64	33'64	52'35

* Secondary

† Work done by other

DEPARTMENT.

the Province of Burma during the year 1929-30—concl'd.

Percentage of unknown cases to total cases.		Average annual number of persons successfully vaccinated during previous five years.		Average annual number of deaths from small-pox during previous five years.		No.
Primary.	Re-vaccination	Number.	Ratio per 1,000.	Number.	Ratio per 1,000.	
(19)	(20)	(21)	(22)	(23)	(24)	(1)
3.58	24.94	20,355	62.27	143	0.44	36
3.67	26.38	...	...	...	...
1.26	8.40	...	...	...	...
1.57	3.32	11,599	49.63	...	...	37
3.25	6.42	10,275	57.32	...	...	38
0.24	1.77	15,981	46.30	97	0.28	39
0.02	1.53	...	...	...	...
8.04	11.51	...	...	...	...
3.67	3.01	26,723	47.79	...	...	40
3.68	3.05	...	...	...	...
...	
16.35	0.92	29,147	31.98	...	...	41
16.50	0.92	...	...	...	...
0.34	...	...	...	...	...
5.46	16.21	604,611	45.91	2,644	0.24	
5.45	13.72	...	...	...	...
5.53	24.95	...	...	...	...

operations included.
 agencies and Dispensaries included.

(1)	Total number of persons vaccinated		Total number of operations performed.		Percentage of successful cases in which results were known.	
	Primary. (2)	Re-vaccination. (3)	Primary. (4)	Re-vaccination. (5)	Primary. (6)	Re-vaccination. (7)
Vaccination by Special Staff ...	622,456	352,305	623,257	352,472	96.78	34.53
Dispensary Vaccination ...	4,853	3,596	4,863	3,599	87.96	37.55
Vaccination by other agencies ...	665	388	665	388	98.67	32.48
Total ...	627,984	356,289	628,785	356,459	97.08	34.55

A.—VACCINATION

STATEMENT NO. II—*Showing the cost of the Department in the*

No.	Divisions and Districts.	District Health Officers.	Ex		
			Pay.	Inspector of Vaccination.	Pay.
(1)	(2)	(3)	(4)	(5)	(6)
			Rs. A. P.		Rs. A. P.
ARAKAN DIVISION.					
1	Akyab ...	...	...	1	1,020 0 0
2	Hill District of Arakan ...	...	...	...	...
3	Kyaukpyu ...	...	...	1	951 2 0
4	Sandoway ...	...	...	1	119 3 0
PEGU DIVISION.					
5	Rangoon ...	...	...	1	...
6	Pegu ...	...	...	2	2,280 0 0
7	Tharrawaddy ...	...	...	6	1,627 7 0
8	Hanthawaddy ...	...	...	5	3,711 1 0
9	Insein ...	...	...	1	1,440 0 0
10	Prome ...	...	...	2	...
IRRAWADDY DIVISION.					
11	Bassein ...	...	...	5	2,713 11 0
12	Henzada ...	...	...	4	2,040 0 0
13	Myaungmya ...	...	...	5	2,704 1 0
14	Maubin ...	...	...	4	2,987 10 0
15	Pyapon ...	...	...	4	2,789 10 0
TENASSERIM DIVISION.					
16	Salween ...	...	...	1	1,077 0 0
17	Thaton ...	...	...	2	2,358 13 0
18	Amherst ...	...	...	4	2,640 0 0
19	Tavoy ...	...	...	1	1,440 0 0
20	Mergui ...	...	...	1	1,500 0 0
21	Toungoo ...	...	...	4	2,520 0 0
MAGWE DIVISION.					
22	Thayetmyo ...	...	...	2	701 5 0
23	Minbu ...	...	...	2	1,020 0 0
24	Magwe ...	...	...	4	1,242 8 0
25	Pakokku ...	...	...	1	1,478 11 0
26	Chin Hills ...	...	...	1	1,218 0 0
27	Pakokku Hill Tracts ...	...	...	...	...

DEPARTMENT.

Province of Burma during the year 1929-30 (Paragraphs 14 and 15).

penditure.

Vaccinators.	Pay.			Clerks.	Pay.			Peons, etc.	Pay.			Total Pay of Establishment.			Travelling Allowance.			No.
(7)	(8)			(9)	(10)			(11)	(12)			(13)			(14)			(15)
	Rs.	A.	P.		Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
13	6,450	4	0	...	...	...	...	...	...	...	...	7,470	4	0	3,303	4	0	1
3	1,774	10	0	...	...	...	...	...	...	...	...	1,774	10	0	433	4	0	2
6	2,649	1	6	...	...	...	...	...	...	...	...	3,600	3	6	1,550	2	0	3
4	1,059	11	0	...	...	...	...	...	...	...	...	1,178	14	0	735	12	0	4
22	24,503	13	0	...	...	...	...	2	457	0	0	24,960	13	0	1,411	5	6	5
9	4,810	8	0	...	...	...	...	...	...	...	...	7,110	8	0	4,971	15	0	6
13	5,928	14	3	...	...	...	...	1	176	2	0	7,732	7	3	3,619	14	11	7
9	4,833	1	0	...	...	...	...	...	...	...	...	8,544	2	0	6,118	5	6	8
9	5,365	4	7	...	...	...	...	1	150	0	0	6,955	4	7	3,193	5	0	9
14	6,483	11	0	...	...	...	...	...	...	...	...	6,483	11	0	3,211	7	9	10
16	7,195	8	6	...	...	...	...	...	...	...	...	9,909	3	6	4,342	15	0	11
15	7,902	14	0	...	...	...	...	...	...	...	...	9,942	14	0	4,112	14	0	12
15	6,471	11	0	...	...	...	...	...	...	...	...	9,175	12	0	5,181	13	0	13
12	5,390	12	0	...	...	...	...	...	...	...	...	8,378	6	0	2,914	0	0	14
10	4,513	14	0	...	...	...	...	1	32	0	0	7,335	8	0	3,317	13	0	15
4	1,819	2	0	...	...	...	...	...	...	...	...	2,896	2	0	2,014	1	0	16
14	6,247	13	6	...	...	...	...	1	...	...	...	8,606	10	6	4,527	14	0	17
11	5,934	14	0	...	...	...	...	...	180	0	0	8,754	14	0	3,636	12	0	18
6	2,795	6	0	...	...	...	...	...	...	...	...	4,235	6	0	3,126	6	0	19
5	2,634	8	0	...	...	...	...	...	...	...	...	4,134	8	0	1,685	15	0	20
13	5,958	7	0	...	...	...	...	...	...	...	...	8,488	7	0	4,212	4	0	21
8	4,059	4	0	...	...	...	...	...	...	...	...	4,760	9	0	1,592	2	0	22
7	3,010	6	0	...	...	...	...	...	...	...	...	4,030	6	0	1,848	12	0	23
11	4,962	5	0	...	...	...	...	...	...	...	...	6,204	13	0	2,541	12	0	24
9	4,286	6	0	...	...	...	...	1	148	13	0	5,913	14	0	4,001	2	0	25
5	2,598	0	0	...	...	...	...	...	...	...	...	3,816	0	0	1,927	0	0	26
1	537	12	0	...	...	...	...	1	270	0	0	807	12	0	484	8	0	27

A.—VACCINATION

STATEMENT NO. II—Showing the cost of the Department

No.	Divisions and Districts.	District Health Officers.	Pay.			Inspector of Vaccination.	Pay.			Ex
(1)	(2)	(3)	(4)			(5)	(6)			
			Rs.	A.	P.		Rs.	A.	P.	
MANDALAY DIVISION.										
28	Mandalay ... ..	...	...			1	1,325	0	0	
29	Kyaukse ... ..	...	...			1	1,020	0	0	
30	Meiktila ... ..	...	...			1	...			
31	Myingyan ... ..	...	...			3	1,120	0	0	
32	Yamethin ... ..	...	...			2	1,495	0	0	
SAGAING DIVISION.										
33	Bhamo ... ..	...	...			...	...
34	Myitkyina ... ..	...	...			...	...
35	Shwebo ... ..	...	...			4	1,203	9	0	
36	Sagaing ... ..	...	...			1	1,020	0	0	
37	Katha ... ..	...	...			2	2,974	4	0	
38	Upper Chindwin ... ..	...	...			1	1,988	7	0	
39	Lower Chindwin ... ..	...	...			1	1,500	0	0	
FEDERATED SHAN STATES.										
40	Northern Shan States ... ..	...	...			1	655	15	0	
41	Southern Shan States ... ..	...	...			4	4,080	0	0	
OTHERS.										
42	Meiktila Vaccine Depot	2	17,101	7	0	...	...	
43	Office of Director of Public Health, Burma. ... ..	...	...			...	...
TOTAL			2	17,101	7 0	(a) 87	59,962	5	0	

(a) This includes 28 Sub-Assistant Surgeons, 3 Private Medical Practitioners who are receiving vaccination
40 Inspectors of Vaccination, 3 Head

DEPARTMENT.

in the Province of Burma during the year 1929-30—contd.

penditure.

Vacci- nators.	Pay.			Clerks.	Pay.			Peons, etc.	Pay.			Total Pay of Establish- ment.			Travelling Allowance.			No.
(7)	(8)			(9)	(10)			(11)	(12)			(13)			(14)			(15)
	Rs.	A.	P.		Rs.	A.	P.		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
11	7,605	2	0	...	...	...	...	...	...	...	...	8,930	2	0	2,056	8	0	28
5	2,091	10	0	...	...	...	...	...	...	...	...	3,111	10	0	1,392	14	0	29
6	2,549	13	0	...	...	...	...	...	...	...	...	2,549	13	0	1,159	15	0	30
9	4,266	12	0	...	...	...	...	...	...	...	...	5,386	12	0	1,870	14	0	31
8	4,183	9	0	...	...	...	...	...	...	...	...	5,678	9	0	2,246	14	0	32
4	1,893	12	0	...	...	...	...	...	...	...	...	1,893	12	0	730	4	0	33
3	1,970	3	0	...	...	...	...	...	...	...	...	1,970	3	0	662	11	0	34
12	5,978	8	0	...	...	...	...	...	...	...	...	7,182	1	0	2,928	11	6	35
8	3,983	10	0	...	...	...	...	...	...	...	...	5,003	10	0	1,946	4	0	36
6	3,106	2	0	...	...	...	...	...	...	...	...	6,080	6	0	2,071	13	0	37
6	3,628	2	0	...	...	...	...	...	...	...	...	5,616	9	0	2,223	14	0	38
8	3,778	3	0	...	...	...	...	1	180	0	0	5,458	3	0	2,351	2	0	39
20	8,796	8	0	...	...	...	...	1	240	0	0	9,692	7	0	5,080	8	6	40
22	9,137	0	0	...	...	...	...	7	1,866	2	0	15,083	2	0	6,430	7	0	41
...	...	...	...	3	1,834	0	0	16	4,348	0	0	23,283	7	0	92	11	0	42
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43
392	2,03,176	11	4	3	1,834	0	0	33	8,048	1	0	2,90,122	8	4	1,13,262	1	8	

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

A.—VACCINATION

STATEMENT NO. II—Showing the cost of the Department

No.	Divisions and Districts.	Expenditure.									Deputy Com- missioner's Local Funds.	Provincial Funds.		
		Contingencies.			Total Cost.									
		(15)	(16)	(17)	(18)									
(1)	(2)	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
ARAKAN DIVISION.														
1	Akyab	3,264	14	3	14,038	6	3	948	11	0	...	...	...
2	Hill District of Arakan	...	...	...	...	...	...	...	...	...	...	...	...
3	Kyaukpyu	417	1	0	5,567	6	6	5,345	6	6	...	...	...
4	Sandoway	421	6	0	2,336	0	0	2,336	0	0	...	...	...
PEGU DIVISION.														
5	Rangoon	4,876	11	9	31,248	14	3	...	...	...	800	0	0
6	Pegu	1,102	3	0	13,184	10	0	...	...	...	...	...	...
7	Tharrawaddy	1,057	14	0	12,410	4	2	...	...	...	...	...	...
8	Hanthawaddy	1,024	12	6	15,687	4	0	...	...	...	...	...	...
9	Insein	929	1	0	11,077	10	7	...	...	...	...	...	...
10	Prome	95	8	0	9,790	10	0	...	...	...	...	...	...
IRRAWADDY DIVISION.														
11	Bassein	1,824	0	0	16,076	2	0	2,370	7	0	...	...	...
12	Henzada	542	13	0	14,598	9	0	...	...	...	...	...	...
13	Myaungmya	1,674	2	6	16,031	11	6	...	...	...	...	...	...
14	Maubin	895	0	6	12,187	6	6	...	...	...	...	...	...
15	Pyapon	993	4	0	11,646	9	0	...	...	...	...	...	...
TENASSERIM DIVISION.														
16	Salween	...	...	...	4,910	3	0	4,910	3	0	...	...	...
17	Thaton	185	12	0	13,220	4	6	...	...	...	...	...	...
18	Amherst	3,022	2	0	15,413	12	0	2,998	14	6	...	...	...
19	Tavoy	...	...	...	7,361	12	0	132	4	0	...	...	...
20	Mergui	580	2	0	6,400	9	0	682	8	0	...	...	...
21	Toungoo	1,134	8	0	13,835	3	0	1,934	8	0	...	...	...
MAGWE DIVISION.														
22	Thayetmyo	540	8	0	6,893	3	0	853	6	0	...	...	...
23	Minbu	527	13	0	6,406	15	0	1,525	9	0	...	...	...
24	Magwe	...	...	...	8,746	9	0	...	...	...	...	...	...
25	Pakokku	1,138	7	0	11,053	7	0	2,793	3	0	...	...	...
26	Chin Hills	10	0	0	5,753	0	0	...	...	...	5,753	0	0
27	Pakokku Hill Tracts	3	12	0	1,296	0	0	...	...	...	1,296	0	0

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

DEPARTMENT.

in the Province of Burma during the year 1929-30—contd.

Paid from				Number of all successful vaccinations and re-vaccinations by special staff only.	Average cost of each successful case.*	No.
District Council Funds.	Municipalities.	Federated Funds.	Total.			
(19)	(20)	(21)	(22)	(23)	(24)	(1)
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
11,378 6 3	1,711 5 0	...	14,033 6 3	44,178	0 5 1	1
...	...	...	2,538 2 0	2,132	1 2 10	2
...	222 0 0	...	5,567 6 0	8,879	0 10 0	3
...	...	...	2,336 0 0	3,329	0 11 3	4
...	30,448 14 3	...	31,248 14 3	10,679	2 14 10	5
11,812 1 0	1,372 9 0	...	13,184 10 0	17,846	0 11 10	6
9,314 13 2	3,095 7 0	...	12,410 4 2	27,613	0 7 2	7
14,722 15 0	964 5 0	...	15,587 4 0	17,275	0 14 0	8
8,337 8 7	2,740 2 0	...	11,077 10 7	13,336	0 13 3	9
7,499 2 9	2,291 8 0	...	9,790 10 9	28,428	0 5 6	10
...
10,782 8 0	2,923 3 6	...	16,076 2 6	25,450	0 10 1	11
12,720 0 0	1,878 9 0	...	14,598 9 0	29,721	0 7 10	12
14,279 11 0	1,752 0 0	...	16,031 11 6	28,060	0 9 2	13
10,483 9 6	1,703 13 0	...	12,187 6 6	22,741	0 8 7	14
10,276 8 0	1,370 1 0	...	11,646 9 0	21,384	0 8 9	15
...
...	...	...	4,910 3 0	3,583	1 5 11	16
12,325 3 6	995 1 0	...	13,320 4 6	20,570	0 10 4	17
7,351 0 6	5,063 13 0	...	15,413 12 0	27,779	0 8 11	18
5,972 11 0	1,256 13 0	...	7,361 12 0	7,672	0 15 4	19
4,881 3 0	836 14 0	...	6,400 9 0	7,949	0 12 11	20
9,778 9 0	2,122 2 0	...	13,835 3 0	16,398	0 13 6	21
...
4,756 2 0	1,283 11 0	...	6,893 3 0	9,398	0 11 9	22
3,710 6 0	1,171 0 0	...	6,406 15 0	8,105	0 12 8	23
6,407 9 0	2,339 0 0	...	8,746 9 0	19,047	0 7 4	24
7,412 11 0	847 9 0	...	11,053 7 0	15,262	0 11 7	25
...	...	...	5,753 0 0	6,780	0 13 7	26
...	...	...	1,296 0 0	479	2 11 3	27

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

A.—VACCINATION

STATEMENT NO. II—Showing the cost of the Department

No.	Divisions and Districts.	Expenditure.									Deputy Com- missioner's Local Funds.	Provincial Funds.		
		Contingencies.			Total Cost.									
(1)	(2)	(15)			(16)			(17)			(18)			
	MANDALAY DIVISION.													
28	Mandalay ...	871	1	0	11,857	11	0	917	9	0	636	0	0	
29	Kyaukse ...	384	13	0	4,889	5	0	119	2	0	...			
30	Meiktila ...	1,030	11	0	4,740	7	0	...			...
31	Myingyan ...	1,025	0	0	8,282	10	0	...			...
32	Yamethin ...	1,529	6	0	9,454	13	0	...			...
	SAGAING DIVISION.													
33	Bhamo ...	317	11	0	2,941	11	0	2,387	5	0	...			
34	Myitkyina ...	...			2,632	14	0	2,632	14	0	...		
35	Shwebo ...	...			10,110	12	6	...			...
36	Sagaing ...	...			6,949	14	0	...			...
37	Katha ...	511	11	10	8,663	14	10	8,663	14	10	...			
38	Upper Chindwin ...	570	2	0	8,410	9	0	8,410	9	0	...			
39	Lower Chindwin ...	1,051	4	0	8,860	9	0	...			...
	FEDERATED SHAN STATES.													
40	Northern Shan States ...	2,014	5	0	16,787	4	6	...			...
41	Southern Shan States ...	1,370	8	0	22,884	1	0	...			...
	OTHERS.													
42	Meiktila Vaccine Depot ...	22,243	6	0	45,619	8	0	...			45,619	8	0	
43	Office of Director of Public Health, Burma.	1,071	15	0	1,071	15	0	...			1,071	15	0	
	TOTAL ...	60,553	13	4	4,63,938	7	4	52,470	7	10	55,176	7	0	

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

DEPARTMENT.

in the Province of Burma during the year 1929-30—concl'd.

Paid from				Number of all successful vaccinations and re-vacci- nations by special staff only.	Average cost of each successful case.*	No.
District Council Funds.	Municipalities.	Federated Funds.	Total.			
(19)	(20)	(21)	(22)	(23)	(24)	(1)
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.	
4,927 5 0	5,376 13 0	...	11,857 11 0	14,774	0 12 10	28
4,405 9 0	364 10 0	...	4,889 5 0	8,379	0 9 4	29
4,167 5 0	573 2 0	...	4,740 7 0	13,111	0 5 9	30
6,925 10 0	1,357 0 0	...	8,282 10 0	15,516	0 8 6	31
7,618 7 0	1,836 6 0	...	9,454 13 0	27,986	0 5 5	32
...	554 6 0	...	2,941 11 0	3,527	0 13 4	33
...	...	...	2,632 14 0	2,273	1 2 6	34
9,510 12 6	600 0 0	...	10,110 12 6	18,017	0 9 0	35
5,977 14 0	972 0 0	...	6,949 14 0	24,153	0 4 7	36
...	...	...	8,663 14 10	11,294	0 12 3	37
...	...	...	8,410 9 0	7,880	1 0 10	38
8,421 3 0	439 6 0	...	8,860 9 0	16,212	0 8 9	39
...	...	16,787 4 6	16,787 4 6	39,533	0 6 10	40
...	391 0 0	22,493 1 0	22,884 1 0	28,680	0 12 9	41
...	...	...	45,619 8 0	...	...	42
...	...	...	1,071 15 0	...	...	43
2,36,156 12 3	80,854 6 9	39,280 5 6	4,63,938 7 4	6,75,377	0 11 0	

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

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

Establishments.	Persons prima									
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
	1920-21.		1921-22.		1922-23.		1923-24.		1924-25.	
(1)	(2)		(3)		(4)		(5)		(6)	
Government.	165,491	152,910	174,549	160,011	196,950	180,625	180,455	168,357	6,806	4,997
Municipal	35,519	33,224	40,478	38,460	41,884	39,932	41,977	39,974	49,378	47,231
Local Funds.	272,949	256,940	262,388	247,532	270,396	256,235	274,439	261,999	424,954	402,000
Federated States.	7,280	5,155	10,234	8,695	10,643	10,559	45,671	43,552	48,476	44,673
Dispensary	2,016	1,565	3,601	3,068	2,883	2,178	4,534	3,673	6,116	5,175
Other Agencies.	267	217	3,589	3,285	1,007	857	974	695	537	523
Total ...	483,522	450,011	494,839	461,051	523,763	490,386	548,054	518,250	536,267	504,599

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

rily vaccinated.

Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Establishments.
1925-26.		1926-27.		1927-28.		1928-29.		1929-30.		
(7)		(8)		(9)		(10)		(11)		(12)
5,673	3,850	5,141	3,745	7,770	5,922	10,137	8,478	10,972	7,444	Government.
45,781	43,895	45,208	41,841	47,479	42,732	51,565	47,819	49,272	45,680	Municipal.
436,679	411,970	419,711	387,665	432,745	380,584	473,466	440,571	504,704	469,318	Local Funds.
67,872	64,245	39,998	38,864	60,034	52,837	71,051	57,133	57,508	50,481	Federated States.
3,759	2,789	3,574	1,890	6,368	2,157	7,105	2,532	4,863	1,819	Dispensary.
287	260	280	253	253	229	372	356	665	371	Other Agencies.
560,051	527,009	513,912	474,258	554,649	484,461	613,696	556,889	627,984	575,113	Total.

STATEMENT NO. IV—*Showing particulars of Vaccination verified*

No.	Districts.	Total number of persons vaccinated.		Total number inspected			
				By Assistant Director of Public Health or District Health Officer.		By Inspectors of Vaccination or other Inspecting Officers.	
		Primary.	Re-vaccinations.	Primary.	Re-vaccinations.	Primary.	Re-vaccinations.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Akyab ...	29,067	50,959	1,088	1,704	8,695	22,708
2	Hill District of Arakan	1,703	3,019	137	426	250	328
3	Kyankpyu	9,652	2,224	174	135	3,795	995
4	Sandoway	3,810	1,702	928	370	95	33
5	Rangoon	9,891	21,487	1,620	2,644	6,373	9,065
6	Pegu	17,427	10,242	2,819	818	14,598	6,010
7	Tharrawaddy	24,752	11,603	1,068	69	18,383	6,065
8	Hanthawaddy	16,840	6,647	551	508	13,104	1,180
9	Insein	13,617	2,915	970	5	7,916	1,168
10	Prome	28,611	1,526	1,090	25	13,980	124
11	Bassein	23,957	6,582	3,262	532	11,270	2,510
12	Henzada	30,053	1,786	1,487	1	13,868	320
13	Myaungmya	27,110	8,121	590	190	11,960	3,315
14	Maubin	22,508	6,779	3,477	272	19,752	5,138
15	Pyapon	20,733	6,455	687	471	13,428	3,273
16	Salween	3,888	3,261	247	153	2,607	2,080
17	Thaon	20,930	10,633	1,677	395	8,714	3,347
18	Amherst	23,291	47,081	1,442	9,068	9,961	13,819
19	Tavoy	7,875	260	3,562	111	6,475	121
20	Mergui	8,975	2,779	1,424	1,116	5,749	1,212
21	Toungoo	15,587	11,610	848	580	8,747	6,385
22	Thayctmyo	9,347	2,065	744	147	7,885	1,500
23	Minbu	9,005	18	942	...	3,505	14
24	Magwe	16,537	12,821	1,432	1,042	8,459	7,062
25	Pakokku	16,091	10,913	2,176	548	6,600	4,739
26	Chin Hills	9,861	837	2,881	240	5,285	540
27	Pakokku Hill Tracts	577	338	...	...	...	...
28	Mandalay	13,276	5,673	411	130	6,008	1,211
29	Kyaukse	7,186	3,650	1,731	386	6,336	2,071
30	Meiktila	9,261	17,044	8,197	8,887	8,069	10,586
31	Myingyan	15,081	8,230	3,527	2,032	7,240	6,127
32	Yamethin	23,681	21,551	413	155	12,224	11,219
33	Bhamo	3,495	1,238	824	577	...	...
34	Myitkyina	5,442	1,646	362	222	156	69
35	Shwebo	17,922	4,749	689	276	3,825	1,538
36	Sagaing	20,609	13,234	8,464	318	14,913	5,009
37	Katha	11,385	1,596	1,753	225	6,176	773
38	Upper Chindwin	7,731	1,900	2,412	429	6,262	1,251
39	Lower Chindwin	12,531	5,816	475	200	7,139	4,913
40	Northern Shan States	26,130	17,118	10,008	2,215	10,378	2,457
41	Southern Shan States	32,559	8,181	...	...	27,813	4,245
TOTAL		627,984	356,289	76,589	37,622	347,993	154,520

by Inspecting Officers during the year 1929-30 (Paragraph 15).

Percentage of inspections to total number vaccinated				Percentage of cases found successful of total number inspected				Percentage of success reported by persons performing Vaccinations.		No.
By Assistant Director of Public Health or District Health Officers.		By Inspectors of Vaccination or other Inspecting Officers.		By Assistant Director of Public Health or District Health Officers.		By Inspectors of Vaccination or other Inspecting Officers.				
Primary.	Re-vaccinations.	Primary.	Re-vaccinations.	Primary.	Re-vaccinations.	Primary.	Re-vaccinations.	Pri- mary.	Re-vaccina- tions.	
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
3.74	3.34	29.91	44.56	85.57	10.97	89.75	25.16	95.33	39.22	1
8.04	14.11	14.68	10.86	59.85	36.62	81.60	62.50	84.89	52.21	2
1.80	6.07	39.32	44.74	89.08	21.48	73.49	22.21	91.40	42.56	3
24.36	21.74	2.49	1.94	92.46	13.78	98.95	36.36	89.55	9.37	4
16.38	12.31	64.43	42.19	99.01	28.52	99.26	25.46	98.33	26.17	5
16.18	7.99	83.77	58.68	99.72	32.40	98.34	20.83	99.81	25.69	6
4.31	0.59	74.27	52.27	100.00	37.68	99.97	36.64	99.95	45.74	7
3.27	7.64	77.81	17.75	94.37	15.55	96.02	21.02	95.61	25.02	8
7.12	0.17	58.13	40.07	91.75	80.00	99.52	18.58	97.99	12.88	9
3.81	1.64	48.86	8.13	98.90	32.00	99.45	31.45	99.17	28.60	10
13.62	8.08	47.04	38.13	89.48	37.59	98.07	38.73	98.18	49.48	11
4.95	0.06	46.15	17.92	96.91	...	98.86	10.63	99.48	11.91	12
2.18	2.34	44.12	40.82	40.68	70.00	97.86	30.95	99.95	32.38	13
15.45	4.01	87.76	75.79	99.54	23.53	99.92	11.48	99.05	11.91	14
3.31	7.30	64.77	50.70	99.85	7.22	99.13	19.74	98.95	17.19	15
6.35	4.69	67.05	63.78	89.47	28.10	95.13	28.32	93.96	32.68	16
8.01	3.71	41.63	31.48	95.71	28.61	97.18	16.88	96.90	19.77	17
6.19	19.26	42.77	29.35	92.51	9.93	97.95	5.98	98.36	14.23	18
45.23	42.69	82.22	46.54	97.89	72.97	92.83	45.45	95.75	49.58	19
15.87	40.16	64.06	43.61	96.00	57.97	79.51	22.28	84.17	36.90	20
5.44	5.00	56.12	55.00	92.57	11.03	98.90	13.74	98.09	17.63	21
7.96	7.12	84.36	72.64	95.03	43.54	82.56	49.73	97.25	27.98	22
10.46	...	38.92	77.78	95.97	...	83.31	21.43	93.41	35.71	23
8.66	8.13	51.15	55.08	59.88	22.55	96.89	31.73	97.99	29.61	24
13.52	5.02	41.02	43.43	95.08	11.86	91.71	14.94	91.35	10.66	25
29.22	28.67	53.59	64.52	75.84	32.08	77.03	45.56	75.37	36.75	26
...	...	...	...	...	...	...	...	92.22	30.62	27
3.10	2.29	45.25	21.35	99.27	61.54	92.43	47.32	96.02	39.61	28
24.09	10.58	88.17	56.73	99.02	72.02	98.93	50.46	98.75	48.45	29
88.51	52.14	87.13	62.11	96.97	47.34	95.74	39.43	94.03	50.33	30
23.39	24.69	48.01	74.45	95.35	19.83	95.55	16.86	95.80	25.89	31
1.74	0.72	51.62	52.06	91.77	34.84	97.05	33.96	96.43	36.34	32
23.58	46.61	...	...	97.09	35.36	...	...	100.00	85.03	33
6.65	13.49	2.87	4.19	84.81	81.98	94.23	78.26	89.29	72.73	34
3.84	5.81	21.34	32.39	92.45	25.72	92.44	54.23	94.39	54.14	35
41.07	2.40	72.36	37.85	98.39	25.79	97.10	44.36	98.10	46.91	36
15.40	14.10	54.25	48.43	95.55	17.78	96.36	17.46	97.67	21.06	37
31.20	22.58	81.00	65.84	83.79	38.46	84.30	38.61	91.67	59.67	38
3.79	3.44	56.97	84.47	94.95	76.00	95.83	72.07	95.66	72.26	39
38.30	12.94	39.72	14.35	99.84	97.07	99.36	88.12	98.74	89.98	40
...	...	85.42	51.89	...	...	91.11	35.59	97.29	32.14	41
12.20	10.56	55.41	43.37	95.06	32.82	95.33	28.75	96.75	34.55	

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.	Calendar Year.	Ratio per 10,000 of mortality from small-pox.	Quinquennial mean.
(1)	(2)	(3)	(4)	(5)	(6)
1914-15	332.06	353.56	1914	.26	.51
1915-16	330.70		1915	.22	
1916-17	365.25		1916	.72	
1917-18	347.10		1917	.57	
1918-19	392.57	451.86	1918	.76	2.32
1919-20	524.21		1919	3.99	
1920-21	443.70		1920	2.90	
1921-22	408.22		1921	.92	
1922-23	431.94	459.11	1922	1.34	2.44
1923-24	456.24		1923	2.63	
1924-25	466.23		1924	2.31	
1925-26	477.33		1925	3.56	
1926-27	407.11	515.07	1926	2.16	1.70
1927-28	446.76		1927	1.57	
1928-29	498.14		1928	2.61	
1929-30	515.07		1929	1.70	

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).

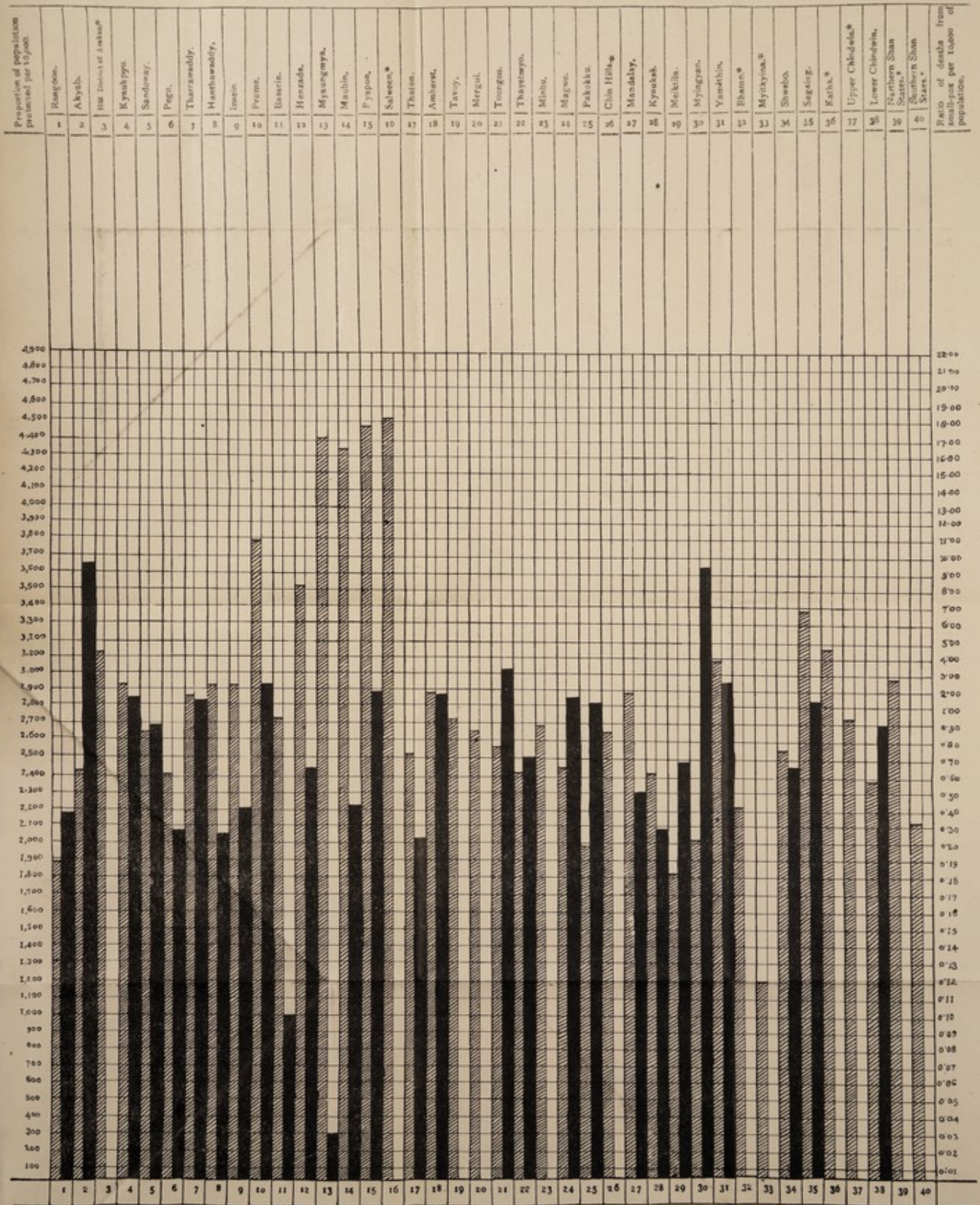
Towns.	Number of births during the year 1929-30.	Number of deaths among children under one year during the year.	Number of successful operations on children under one year during the year ending 31st March 1929.	Date of extension of Vaccination Act of 1880.	Date of extension of Vaccination Law Amendment Act of 1909.
(1)	(2)	(3)	(4)	(5)	(6)
Akyab ...	609	199	490	August 1883 ...	29th March 1910.
Kyaukpyu ...	108	27	49	April 1894 ...	Do.
Sadoway ...	123	17	66	September 1890 ...	Do.
Rangoon ...	8,253	2,587	6,198	April 1884 ...	1st May 1909.
Pegu ...	648	151	854	March 1893 ...	29th March 1910.
Nyaunglèbin ...	267	83	319	29th March 1910	Do.
Tharrawaddy ...	138	29	108	October 1897.	...
Thonzè ...	244	50	171	Do. ...	29th March 1910.
Zigon ...	155	49	98	11th May 1914 ...	9th Sept. 1915.
Letpadan ...	268	93	159	January 1897 ...	29th March 1910.
Gyobingauk ...	248	90	140	February 1897 ...	Do.
Minhla ...	78	4	62	11th May 1914 ...	9th Sept. 1915.
Nattalin ...	129	10	110	Do. ...	Do.
Syriam ...	328	63	253	29th January 1913	29th January 1913.
Thongwa ...	236	52	119	3rd March 1914	3rd March 1914.
Insein ...	312	103	397	14th March 1912	14th March 1912.
Thamaing ...	100	28	93	26th May 1926 ...	26th May 1926.
Thingangyun ...	110	31	128	Do. ...	Do.
Kanbe ...	150	29	132	Do. ...	Do.
Kamayut ...	119	33	152	Do. ...	Do.
Prome ...	863	175	1,216	June 1890 ...	29th March 1910.
Shwedaung ...	243	51	152	10th Sept. 1917.	...
Paungdè ...	243	74	195	August 1890 ...	29th March 1910.
Bassein ...	1,337	394	1,504	September 1888	Do.
Ngathainggyaung ...	134	35	83	February 1890 ...	Do.
Kyonpyaw ...	166	41	143	26th Dec. 1923.	...
Henzada ...	827	281	612	January 1889 ...	29th March 1910.
Myanaung ...	249	73	174	July 1889 ...	Do.
Kyangin ...	246	68	194	August 1894 ...	Do.
Myaungmya ...	208	66	127	June 1894 ...	Do.
Wakèma ...	295	74	108	27th April 1907 ...	Do.
Moulmeingyun ...	214	100	140	20th July 1925 ...	20th July 1925.
Maubin ...	193	85	335	October 1891 ...	29th March 1910
Yandoon ...	242	76	220	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—concl'd.

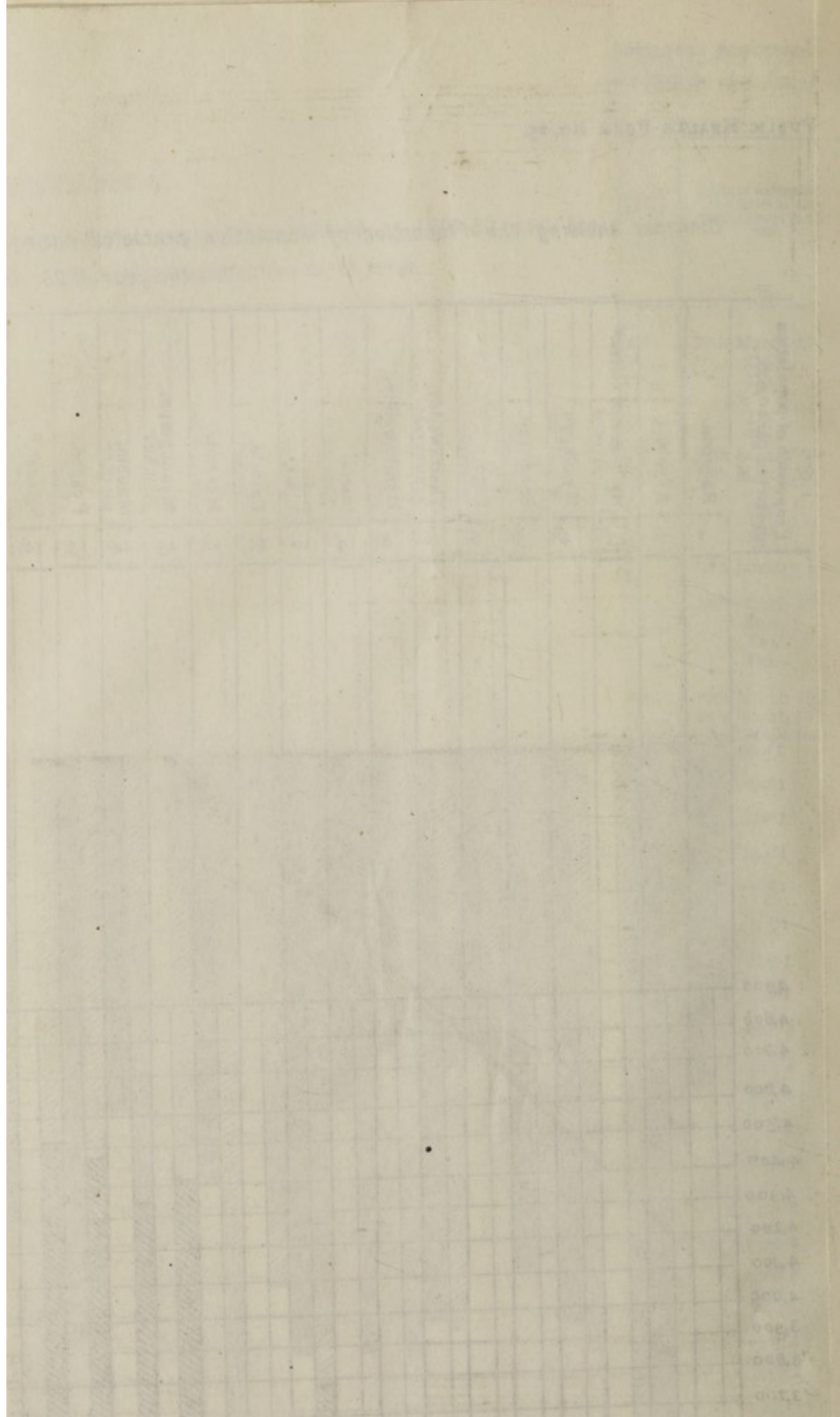
Towns.	Number of births during the year 1929-30.	Number of deaths among children under one year during the year.	Number of successful operations on children under one year during the year ending 31st March 1929.	Date of extension of Vaccination Act of 1880.	Date of extension of Vaccination Law Amendment Act of 1909.
(1)	(2)	(3)	(4)	(5)	(6)
Danubyu ...	203	43	148	9th July 1909.	
Pyapon ...	200	54	520	November 1904	29th March 1910.
Kyaiklat ...	202	72	159	15th Dec. 1904 ...	Do.
Thaton ...	568	117	309	October 1891 ...	Do.
Kyaikto ...	158	38	156	March 1897 ...	Do.
Moulmein ...	1,684	295	1,699	August 1885 ...	Do.
Kawkareik ...	321	144	138	September 1914	17th Sept. 1914.
Tavoy ...	972	150	853	December 1889	29th March 1910.
Mergui ...	614	145	487	October 1891 ...	Do.
Toungoo ...	492	74	300	May 1889 ...	Do.
Shwegyin ...	172	36	111	January 1890 ...	Do.
Pyu ...	215	34	132	January 1920 ...	17th January 1920.
Thayetmyo ...	298	85	385	May 1889 ...	29th March 1910.
Allanmyo ...	331	86	187	May 1901 ...	Do.
Minbu ...	199	66	87	March 1896 ...	Do.
Salin ...	179	90	126	Do. ...	Do.
Magwe ...	258	89	148	10th March 1913	10th March 1913.
Taungdwingyi ...	272	163	126	February 1893 ...	29th March 1910.
Yenangyaung ...	370	110	214	10th March 1913	10th March 1913.
Chauk ...	69	16	214	20th May 1929.	
Pakokku ...	771	232	412	April 1892 ...	29th March 1910.
Mandalay ...	7,704	2,415	5,142	August 1891 ...	Do.
Maymyo ...	727	145	396	October 1912 ...	22nd October 1912.
Kyaukse ...	219	83	215	May 1894 ...	29th March 1910.
Meiktila ...	362	112	250	June 1906 ...	31st July 1922.
Myingyan ...	705	358	255	September 1891	29th March 1910.
Nyaung-u ...	150	30	120	30th August 1921	30th August 1921.
Yamethin ...	314	91	170	February 1892 ...	29th March 1910.
Pyinmana ...	627	203	436	November 1891...	Do.
Pyawbwe ...	142	68	119	May 1912.	
Bhamo ...	178	29	128	26th October 1894	29th March 1910.
Myitkyina ...	151	29	64	6th May 1929.	
Shwebo ...	703	187	410	June 1894 ...	Do.
Ye-u ...	119	36	13	2nd April 1929.	
Sagaing ...	462	183	203	April 1894 ...	Do.
Myinmu ...	145	69	149	5th October 1926	5th October 1926.
Monywa ...	366	198	216	March 1893 ...	29th March 1910.
Lashio ...	138	30	5	25th July 1927 ...	25th July 1927.
Kalaw ...	66	5	...	Do. ...	Do.
Taunggyi ...	271	27	119	Do. ...	Do.
Total ...	40,180	11,758	30,622		

APPENDIX C.

Diagram showing the Proportion of Population protected during the seven official years from 1923-24 to 1929-30 and the Death-rate from Small-pox during the year 1929 in districts where full registration is in force.

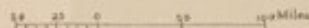


Indicates proportion of population protected per 10,000.
 Indicates ratio of deaths from small-pox per 10,000 of population.
 * Full registration of vital statistics is not carried out in these districts.



Scale: 1 inch = 64 Miles

Scale: 1 inch = 64 Miles



LAW IN BURMA.

Divisions and Districts.	Population of Respectively.	Representatives.
ARAKAN DIVISION.		
Akyah	1	13
Hill District of Arakan	1	3
Kyaukpada	1	4
Sandaway	1	4
Pegu Division.		
Rangoon	1	22
Pegu	2	9
Tharrawaddy	6	13
Hanthawaddy	5	9
Insein	1	9
Prome	2	14
Irrawaddy Division.		
Bassein	5	19
Henzada	4	15
Myingungya	5	15
Moulton	4	12
Pagone	4	10
TENASSERIM DIVISION.		
Salween	1	4
Thabein	2	14
Amherst	4	11
Tavoy	1	5
Mergui	1	5
Toungoo	4	13
MAGWE DIVISION.		
Thayetmye	2	8
Minba	2	7
Magwe	4	11
Pakokku	1	9
Chin Hills	1	5
Pakokku Hill Tracts	1	1
MANDALAY DIVISION.		
Mandalay	1	11
Kyaukse	1	5
Meiktila	1	6
Myingya	3	9
Yamethin	2	8
SAGAIING DIVISION.		
Bhamo	1	4
Myitkyina	1	3
Shwebo	4	12
Sagaing	1	8
Katha	2	6
Upper Chinwin	1	1
Lower Chinwin	1	8
FEDERATED SHAN STATES.		
Northern Shan States	1	20
Southern Shan States	4	22
Total	87	320

Boundary of provinces
Boundary of divisions
Boundary of districts
Boundary of Shan States
Headquarters of districts
Railway line
Districts in which the Burma Prohibition of Inoculation and Licensing of Vaccinators Act of 1908 is in force, shown thus
District in which the Vaccination Acts of 1880 and 1900 are in force. (Compulsory primary vaccination of children), shown thus
Districts in which the Vaccination Acts of 1880 and 1900 as well as the Burma Prohibition of Inoculation and Licensing of Vaccinators Act are in force, shown thus

MANILA

1914

