Notes and statistics on vaccination in Burma.

Contributors

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ON

VACCINATION IN BURMA

FOR THE YEAR 1909-10

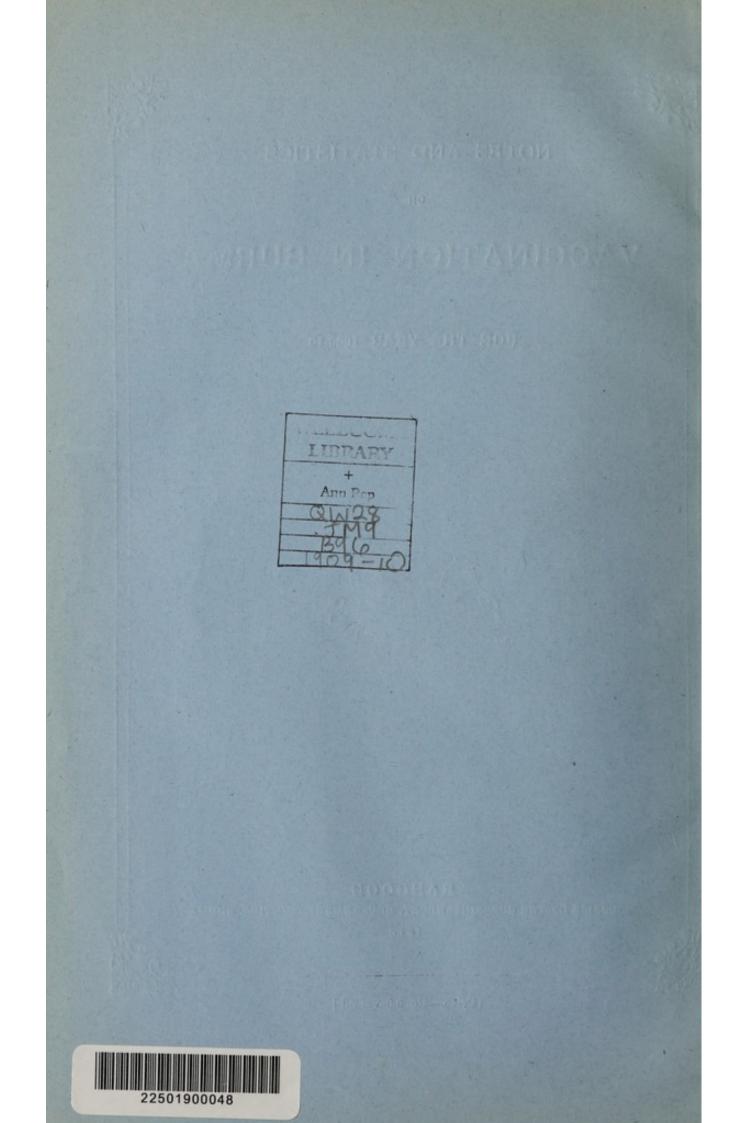


RANGOON

OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA

1910

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NOTES AND STATISTICS

ON

VACCINATION IN BURMA

FOR THE YEAR 1909-10



R A N G O O N OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA 1910

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NOTES AND STATISTICS ON IN BURMA

FOR THE YEAR 1909-10.

Establishment.—The number of vaccinators employed was 266, against Statement II.
 259 in the previous year. The number of Native Superintendents of Vaccination remained as in the previous year at 48.

The 7 additional vaccinators were employed in the following districts :-

Rangoon Town District (Municipal) 1, Hanthawaddy District 3, Pegu District 2, Pakôkku District 1.

A Native Superintendent has been sanctioned for Katha District, and will be trained during the current year.

2. Work performed during the year.—There was an increase in the total of Statements1. operations performed in towns and rural areas (excluding Dispensary Vaccination) of 10,144. There was a decrease of operations performed at Dispensaries amounting to 1,826. The total increase in the number of operations for the province was therefore 8,318 as compared with the returns of 1908-09.

3. District Vaccination.-Twenty-five districts show an increase on the work Statement I. of the previous year, and fifteen show a decrease.

Arakan Division.—In three out of the four districts of this division there was a falling off in the number of operations performed. In Akyab District the decrease was 2,699, in Kyaukpyu District 4,135. There was a creditable increase of 1,500 operations in Sandoway District. The decrease in the other districts is attributed by the Civil Surgeons to apathy on the part of the people and to the lack of the stimulus created in previous years by epidemics of small-pox.

Pegu Division.— There was a slight decrease amounting to 59 operations in Rangoon Municipality, and a decrease of 1,274 operations in Prome District, which was probably due to the prevalence of epidemic plague and cholera.

Hanthawaddy and Tharrawaddy Districts show a distinct improvement in the work done, with 1,200 and 1,813 operations respectively in excess of the previous year. Pegu shows a small increase of 477 only.

Irrawaddy Division.—All districts show an increase in the work done. The increase in Ma-ubin District is triffing, being only 33, while in Henzada it is 938, and in Myaungmya 761. The Civil Surgeons of these two districts deserve credit for improving the position of Vaccination among communities who have in recent years shown themselves to be very backward in receiving the operation.

Tenasserim Division — Four districts, Amherst, Mergui, Toungoo and Thatôn show increased work, the increase in Thatôn being 3,087. There was a falling off in Tavoy District of 4,066 operations, and in Salween District of 128. The decrease in Tavoy is attributed by the Civil Surgeon to excessive zeal on the part of the vaccinators in previous years. This does not however satisfactorily explain the decrease of 978 in primary operations, since the birth-rate is maintained at a high level, and infant mortality is exceptionally low.

Mandalay Division.—Four districts, Mandalay, Bhamo, Katha and Ruby Mines show an increase. In Myitkyina District there was a falling off of 109 operations. The increases in Mandalay (3,292), and in Katha (3,751), show that the greater interest displayed by the Superintendents of Vaccination in these districts is bearing fruit.

Sagaing Division.—All four districts of this division show a decrease in the work done. In Sagaing District the deficit amounts to 2,014, and was confined to re-vaccinations; in Lower Chindwin District it was 2,478. The explanation

NOTES AND STATISTICS ON VACCINATION IN BURMA FOR THE YEAR 1909-10.

offered by the Civil Surgeons of these districts that the decrease was due to the wide-spread prevalence of plague and cholera during the year must be accepted as correct. The influence of the plague epidemic was felt in Upper Chindwin, where there was a serious decrease in the number of operations for vaccination caused by the belief entertained by the people in the truth of rumours emanating from the Lower Chindwin District, to the effect that Government were spreading plague by means of vaccination.

Magwe Division.—Thayetmyo District alone shows a decrease amounting to 1,388 cases. Pakôkku, on the other hand, shows an increase of 5,347 cases and Magwe of 2,183. The decrease in Thayetmyo is attributable to rumours arising in connection with the plague outbreak, and partly to the apathy of the people.

Meiktila Division.-- Yamèthin District shows a decrease of 413 cases. Myingyan declares an increase of 861.

In the Northern Shan States there was an increase of 2,203 cases, and in the Chin Hills of 985. In the Southern Shan States there was a decrease of 2,857.

The serious instances of decrease in the number of operations performed in the districts of Akyab, Kyaukpyu, Tavoy, Prome, Thayetmyo, Sagaing and Lower Chindwin have all been enquired into, and except in the case of the three firstnamed districts the pleas advanced by the Civil Surgeons are more or less convincing. The large increases in the outturn of work in the Mandalay, Pakôkku, Magwe, Katha and Thatôn Districts, and in the Northern Shan States are very encouraging. Appreciable progress was also shown in the Henzada, Myaungmya, Han hawaddy, Tharrawaddy, Sandoway and Myingyan Districts. However there is still very great room for improvement in all the districts of the Pegu Division excepting Prome, and in the Ma-ubin and Pyapôn Districts. In some of these districts the number of primary operations performed appears almost ludicrous when the outlay on Establishments is considered. The apathy of the people presents, undoubtedly a serious obstacle to progress in popularizing the operation.

Statement III. 4. Dispensary Vaccination.—The total number of persons vaccinated was 12,261, against 14,087 in 1908-09. The falling off was mainly among persons over six years of age submitting to primary operation. The total decrease of successful cases was 981. There was a decrease in successful operations in infants of only ten and in children under six years of 91. In revaccinations there was an increase of 261 operations and of 558 successful results. The percentage successes were in primary operations 94'87 per cent. and in re-vaccinations 70'03 against 94'24 and 64'25 in the previous year, a definite improvement. The decrease in operations performed in dispensaries was 1,820, the major share in this decrease occurring in the Arakan Division (1,017). In the Pegu Division there was an increase in the number of operations of 1,766. In the Irrawaddy Division the decrease was 165, mainly at Bassein and Henzada, while Myaungmya and Ma-ubin show an increase. Tenasserith Division shows a decrease of 137. Mandalay Division an increase of 1 case. Sagaing Division an increase of 66 operations. Magwe Division-a decrease of 731, affecting all districts. In Meiktila Division the decrease was 357, all in Meiktila District In the Chin Hills there was a decrease of 1,289, and in the Shan States a small increase.

The decrease in dispensary vaccination is to a large extent apparent*rather than real. Orders were issued to Civil Surgeons during the year to cease including in the return of dispensary vaccination those operations performed by the town vaccinators at the dispensaries when these institutions were used as vaccination stations, and to include such operations in Table I. The increase on the previous year in the operations shown in Table I is therefore to this extent exaggerated.

The decrease in dispensary operations in Thayetmyo District is attributed by the Civil Surgeon to lack of interest on the part of the medical subordinates in charge of those institutions.

Statement V.

5. Verification.—A marked improvement in the work of verification of operations is shown in the reports from the districts for the year under review. The total number of primary operations verified was 215,730 as compared with 178,661 in the previous year, an increase of 37,069. The whole of this increase

is to the credit of the Native Superintendents of Vaccination. The total primary operations verified by Native Superintendents was 179,114 which is an increase of nearly 40,000 on the work of each of the two preceding years, of 120,000 on that of 1906-07, and of over 80,000 on that of 1905-06.

The number of re-vaccinations verified was 35,430 of which Civil Surgeons verified 9,254 and Native Superintendents of Vaccination 26,176. The work of the Civil Surgeons showed a falling off of 2,057 verifications, while that of the Native Superintendents of Vaccination showed an increase of 4,934.

Second only in importance to the great increase of work performed by Native Superintendents of Vaccination during recent years is the outstanding fact of the continuous decrease of verification work by Civil Surgeons. The number of primary operations verified by this agency has fallen steadily since 1905-06 from 75,650 in that year to 38,589 in 1908-09, with a slight recovery in the year under review. No doubt there is not the same necessity for the Civil Surgeon to see so large a proportion of the operations as before the institution of Native Superintendents of Vaccination. But the fall from 17.72 per cent. verifications of total primary operations in 1905-06 to 10.42 in the year under review is too rapid to give confidence that supervision of the work of the Native Superintendents of Vaccination is everywhere thorough. An average of 10 per cent. implies that the ratio is much less in some districts, and the low rate of 0.87 in Tharrawaddy requires explanation as also do the ratios for Shwebo (2.02). Ruby Mines (0.20), Magwe (1.48).

6. Infant Vaccination in Towns — The proportion of infants vaccinated out Appendix B. of the number available for vaccination in Municipal Towns where the Vaccination Act is in force was 19,721 out of 25,232. In previous years the number vaccinated has always equalled, if it has not exceeded, the survivors among children born during the previous twelve months.
7. Lymph Supply. - 1196'4 ounces of vaccine pulp, sufficient for 614,644

7. Lymph Supply. - 1196'4 ounces of vaccine pulp, sufficient for 614,644 operations were issued during the year, against 179'2 ounces equivalent to 529,189 operations in the preceding year. The average cost of lymph per case provided for was 3'2 pies against 2'8 pies in the previous year. This increased cost was mainly due to increased expenditure on apparatus and other Europe stores much of which is non-recurring, and to loss of calves by rinderpest and foot-and-mouth disease, and increased expenditure on feeding a large stock of calves which could not be disposed of during the continuance of the epidemics. Only Glycerinated lymph was issued. The quality of the lymph has been extremely good, successful operations averaging 95'00 per cent. against 93'00 in the previous year, and 91'2 per cent. in 1907-08.

In Thayetmyo District the percentage of success in primary cases increased from 88'41 in the previous year to 93'34 in the year under review; and in Mogôk from 82'44 to 96'25.

It was found that capillary tubes sealed by heat gave 3.5 per cent. better results than tubes sealed with wax. An experiment was initiated in the early months of 1910 for testing the keeping powers of lymph placed in cold storage in Rangoon. The lymph will be tested after successive intervals of three months.

The severe outbreaks of foot-and-mouth disease and rinderpest which were especial'y prevalent in March, April, and May 1909, resulted in the death of 91 calves. Much difficulty was experienced in maintaining the strain of vaccine lymph owing to the prevalence of these epizootics and the difficulty experienced in obtaining healthy calves for operation. Great credit is due to the successive Super intendents for the successful efforts made to overcome these difficulties.

An improved system of water-supply to the Depôt, and a larger class-room for the training of students are both urgently needed. Attention will be directed to the provision of these requirements during the current year.

8. Training School.—To avoid the inconvenience caused by students for training arriving at different dates, and the overlapping of periods of training, I have arranged that in future there will be two courses for the instruction of Native Superintendents of Vaccination commencing on the 1st January and the 1st July, and four courses for vaccinators commencing on the 1st of January, April, July, and October, respectively. A considerable strain has been thrown upon the teaching staff of the Depôt throughout the year by the advent of large numbers of vaccinators sent from Districts and Municipalities to undergo a short course of training followed by examination.

During the year 8 Native Superintendents of Vaccination and 38 Apprentice Vaccinators completed a full course of training at the Depôt.

Captain J. Good, I.M.S., held charge as Superintendent of the Vaccine Depôt and Training School from April 1st to November 26th, 1909. He devoted much time and attention to the training of students and several of the apprentices and Native Superintendents of Vaccination attained marked success in the examinations, which must be attributed to a great extent to his personal efforts towards their instruction. He was succeeded by Captain Walker, I.M.S., on 26th November, by Captain R. D. Saigol, I.M.S., on 26th February 1910, and by Captain H. A. Dougan, I.M.S., on 23rd March. All these officers have rendered excellent service in maintaining the high quality of the lymph prepared at the Depôt, and in supervising the training of students.

Statement II.

9. Expenditure.—The total expenditure from Provincial, Municipal, Native States and Local Funds on the Vaccination Department during 1909-10 was Rs. 1,80,784-3-3 against Rs. 1,49,847-3-4 in the previous year. The increase amounted to Rs. 30,936-15-11. The increase was distributed among the several funds as follows :— Provincial, Rs. 21,622-7-6; Local, Rs. 7,958-5-6; Municipal, Rs. 707-1-6; Native States Rs. 649-1-5.

The increased expenditure was mainly due to numerical increase of the establishment, to increased cost of travelling allowances, and of contingencies. The increase on contingencies at the Meiktila Vaccine Depôt has already been alluded to; it amounted to Rs. 3,940-13-1.

The actual increase under the headings of Establishment, Travelling Allowances and Contingencies, respectively, was Rs. 13,573-5-6, Rs. 10,764-7-11 and Rs. 6,599-2-6.

10. Re-organization and Legislation.—The Act for the prevention of inoculation passed in 1909, came into force in the Pegu and Hanthawaddy Districts on the 15th October of that year. A complete re-organization of the vaccination establishments of these two districts was effected during the year, and although it has been in force for too short a time for any marked effect to be produced yet there is evidence to show that energetic support of the vaccinators by the Civil and Medical authorities cannot fail to produce a large augmentation in the number of persons vaccinated annually.

11. During the year all Civil Surgeons were requested to map out their districts into circles with a view to systematising the tours of the vaccinators, and simplifying supervision, and considerable progress was made in carrying out this procedure.

12. Vaccination in the Port of Rangoon .- In the Port of Rangoon Section 9 of the Burma Vaccination Law Amendment Act came into force from the 24th of May 1909. The work of organizing a special vaccination staff and of carrying out the rules under this Act was performed by the Port Health Officer, Dr. F. A. Foy, in a most capable manner. Owing to insuperable difficulties associated with the provision of sufficient accommodation at the wharf connected with the vaccination station for the vast number of immigrant deck passengers who arrive at the Port of Rangoon every week, the application of the Act to the Port of Rangoon was restricted to passengers from Calcutta only, and the Act was brought into abeyance from the 15th October, in view of the increase of immigrants with the commencement of the busy shipping season. The number of deck passengers from incoming vessels inspected for the purposes of the Act was 32,968. Of these, 55'45 per cent. were found to be protected by vaccination, and 27 97 per cent. by previous small-pox, while the remaining 16.58 per cent. were unprotected. The total unprotected amounted to 5,466 persons of whom 5,017, or 15 22 of the total deck immigrants, were vaccinated by the Port Health Staff, 136 per cent. being considered unfit to undergo the operation, owing to old age or disease.

> C. E. WILLIAMS, M.D., D.P.H., Major, I.M.S., Superintendent-General of Vaccination, Burma.

RANGOON, 18th May 1910.

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districts where registration is in ferra	

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A .--- VACCINATION

STATEMENT NO. 1 .- Showing particulars of Vaccination in the

		Popula- tion of	* . Average	Average number of vacu-				Average number of per-		Разная	T VACCEN	ATION.	
No.	Circles and Districts.	district according to census of 1901.	popula- tion per square mile,	nators employ- ed through-		accinated.		sons vacci- nated by each			faccutfal, One and		
		or appra.		out the year.				vacci- nator,	Total.	Under one year.	under six years,	f all ages.	Un- known,
1			- 4	5		6		7	8	9	10	11	12
-	In our Deserves	1		1	Males	Females.	Total.	1		1	1	1	
	ARAKAN DIVISION.	481,666	94	10	6,380	5,497	11,877	1.188	*11,511	1,883	5,858	10,453	74
2	Hill Tracts, Northern	20,682		1	788	877	1,115	55.5	1,085	4	152	1,088	1
8	Arakan Kyaakpyu Sandoway	168,827 90,927	38 24	63	8,916 1,805	3,158 1,782	7,074 8,087	1,1:9 1,196	6,813 8,442	661 250	2,645 1,611	8,731 3,192	67 <u>3</u> 45
	Sandoway Tetal	762,102		- 21	12,839	10,814	23,653	1,126	22.851	2,595	10,266	2.),417	716
	Prov Division.												
5	Rangoon	252,155	8,996	4	24,639	4,548	29,187	7,297	*6,514	3,683	1,401	5,609	857
47	Hanthawaddy	407.537 339.572	185 79	9 10	8,195	3,819 3,876 5,757	6, 5 24 7,915	725 592	5,048 7,250	1,089 1,286 2,703	8,767 8,824	5,193 6,819	108
89	Tharrawaddy	395,570 365,804	139 125	8 12	6,912 6,825	0,757 0,458	11,969	1,496 992	11,969 *10,857	2,703 3,351	2,680 5,880	11,2,0 10,157	87 393
	Total	1,820,638	189	43	41,415	22,968	67,383	1,567	41,835	12,092	22,522	39,138	1,592
	IRRAWADDY DIVISION.												
10	Ma-nhin	283,347	178 106	4	1,589	1,017	8,216 2,338	804 819	*2,993	878 519	1,762	2,987	2 35
12	Pyapón	224,939 391,427	95 109	10 15	1,238 8,886 7,808	6,755	15,141	1,514	1,921 *13,523	8,440 4,293	1,184 6,330 8,286	12,218	596
13 14	Henzada Myaungmya	454,655 279,895	105	7	4,810	6,014	9,813	1,4.2	14,845 9,813	2,651	6,559	9,018	517 412
	Total	1,663,669	124	42	23,830	22,002	45,833	1,001	42,995	11,776	23,041	39,777	1,565
	TENASSERIN DIVISION.			100000	1000	111-1620					2000		1000
15 16	Amherst	300,173 109,979	43 21	95	14,087 8,754	8,413 8,401	27,490 7,155	2,498 1,431	21,443 *7,580	3,272 2,491	$7,212 \\ 2,412$	20,101 0,841	519 556
17 18	Tavey Mergui Tonngeo	88,744 979,315	9 45	4	3,481 4,6-9	3,108 3,553	6,589	1,647 1,179	*6,464 6,657	904 1,853	2,871 2,661	6,011 6,075	44 27 4
19 20	Thaton Salween	343,510 37,887	63 14	7 6 1	0,806 769	6,153	11,969 1,196	1,995 1,196	11,851 684	2,438	6,025 96	10,763	-
	Total	1,159,558		32	32,536	25,116	67,641	1,801	51,711	11,012	18,782	49,369	1,423
	MANDALAY DIVISION.									10.00			
91	Mandalay	366,507	173	10	8,858	8,064	16,920	1,692	*11,968	5,990	4,044	11,438	1(2
22	Bhamo	79,515 176,233	19 25	4	2,106 3,795	1,924 8,842	4,080	1,48	*3,850 7,637 *4,058	1,206	1,550 8,982	8,497 7,398	175
24 25	Ruby Mines	87,694 67,899	16 6	4 2	2,185	1,984 545	4,119 1,174	1,030	*4,068	873 181	1,418	2,657 1,095	1.297
	Total	777,338	26	24	17,521	16,859	\$3,880	1,412	28,697	8,486	12,912	26,186	1,580
	SAUAINO DIVISION.			1			1000	1				1	
26		266,801	51	8	5,711	5,687	11.478	1.485	11,071	2,496	7,845	10,102	388
27	Sagaing	292,658 276,383	152	66	9,163 6,149	9,789 6,154	18,802 19,403	3,154 2,(67	*15,747	7,820 5,193	7,695	5,015	347
28	Upper Chindwin	151,651	8	6	3,185	8,092	6,277	1,045	*6,483	9/1	4,135	6,079	23
	Total	1,000,483	33	26	24,188	24,772	48,930	1,888	\$1,462	15,930	23,653	42,387	600
	MAGWE DIVISION.				Lussie			1 aural	1000 M		-		
30 31	Thayetmyo Pakosku	289,706 256,499	50 57	10	6,109 10,591	6,354 10,109	12,583	1,673 2,070	11,140 20 658	1,819 8,378	4,852 6,510	9,647 19,519	815
32	Minbu	233,377 246,703	71	78	4,475	4,274	8,749	1,250	8,578 14,484	2,029 4,373	5,024 9,2.2	8,152 13,739	53 99
	Total	1,076,280	63	- 88	28,835	1 28,478	56,513	1,722	54,819	11,599	25,648	51,047	1,5 4
	MELETILA DIVISION.				1								-
34	Meiktila	252,305	116		8,890	8,147	6,516	1,091	6,530	972	5,001	6,100	185
35	Yamèthin	243,197 141,253	67 111		4,745	4,585 2,345	9,3:0	1,833	9,179 4,520	2,835	5,635	8,470	357 163
37	Myingyan Total	356,052	91		7,134	7,2:9	14,423	-	14,280	4,1(1	7,224	17,962	501
	SHAN STATES.				1,003	-11000		1,013	34,509	10,768	10,003	01,010	1,2.6
58	Northern Shan States	321,090	22	1 8	2,387	1,868	4,235	523	4,010	65	1,689	2,961	923
39	Southern Shan States _	816,354	19		8,0:0	1,727	15,727	1,430	*15,541	1,177	6,773	13,458	1,(6)
	Total	1,137,444	20	19	10,967	9,595	19,933	1,051	19,551	1,242	8,462	16,419	1,987
	CHIN HILLS.	Contraction of							1	1	1000	1	
40	Chin Hills	87,189	11	3	2,270	1, 147	3,417	1,139	3,417	49	424	2,:91	90;
	GRAND TOTAL	10,477,508	40	200	213,864	178,606	392,470	1,475	*345,14	1 85,875	166,27	819,001	18,290
							1						
			1										1

NOTE,-This statement does not include the figures for Dispensary NOTE,-Area and population of the * Secondary operations

DEPARTMENT.

Province of Burma during the year 1909-10 (Paragraphs 2 and 3).

	URING PRE-	AVERAGE ANT BEB OF DEA SMALL-FCX DI VIOUS FIVE	DURING	VERAGE ANNO F PERSONS SU VACCINATED PREVIOUS FIV	a 01 0.4-	ENOWN	ifally vacci- 00 of popula-		BUCCESSIU WH'CH THI	03.	VACCINATI	Rs
No	Ratio per 1,002,	No.	Ratis per 1,000	No.	Re-vacci- nation,	Primary.	Persons successfully nated per 1,000 of per tion.	Re-vacci- nation.	Primaty.	Un- known.	Success-	Total.
21	24	28	22	21	20	19	18	17	16	15	14	18
T												
35	.3	163	26-00	12,5-24 928	8-68	-64 -00	22-41 51-35	74-67 80-00	91.40	17	342	475
		184 6	85-90 92-70	6,077 2,064	10-57 17-24	9.86	85-25	69-65 95-00	93-87 94-05	37 25	24 218 114	30 +850 145
12	-14	308	28-33	21,692	7.90	8-48	27-71	75-79	\$2-37	79	60.8	1,000
	1-4	365	57.12	14,402	83-76	18-16	55-02	56-02	99.15	7,655	8,416	22,678
10 47	1.1	615 160	8·81 27·19	3,887 9,214	10-96 8-73	1.91 3.27	12-06 21-75	57.05 87.93	93-74 97-06	96 55	645 539	875 668
	15	8:27 185	23-86 36.50	11,810 18,854	12-41	-13 270	28-39 29-09	45-95	94-51 97-19		8:8	951
85			28-94	\$2,688	01-48	8-77	20.37	66.72	96-20	7,924	9,788	10,173
	-2	208	11-47	8,230 9,726		-07	10-58 9-23	20-79 69-35	98-19		60	224
96 59 58	10	192 131 281	12-12 38-53 54-06	15,081 26,1:3	16-43 16-74	1*98 4*47 3*48	83-85 28-92	64·45 52·36	95-80 96-04 96-31	24 315 81	271 1,028 201	412 *1,910 454
26		269	33-12	7,677		4.20	82-28 24:85	60.15	95-87	420	1,570	
-												0,000
37 01		112 4	64-17 69-75	19,261 7,671	8.60 13.21	2-42 7-78	68-83 51-00	59-30 43-95	90-06 88-17	89 117	561 338	1,185
08 36	3	7 95 140	62:85 24:73 19:80	5,578 6,907 6,801	11-89 18-34	-68 4·10	68.66 24.17 81.52	57-14 52-90 53-39	95-63 94-78 90-83	17 287	72 675 63	148 1,065 118
_			21.18	799 47,017			21-88	46.37	85-96		240	512
55	-3	359	40-55	\$1,011	11.97	2.60	44-2	52-01	92-65	510	1,980	4,250
25		87	32-85 42-93	12,041 3,414	3 12 11:54	-85 1135	39-94 45-41	64-20 70/61	96-35 55-16	165 21	3,204 114	*5,157
			17.58 28.11	2,905		-08 81-88	41-95	75-00	90-88 90-25		165	23.9
-			16-51 28-17	22,131		5.51	16-26	64'84	93:36	100	3,483	 5,578
-												
	1	83 48	83.07	10,922 15,950	10-81 4-25	3.05 2.18	36-23 62-05	68-04 86-20	94-85 97-87	14	247	407
17 08		22	06-43 48-75 53-55	13,474 8,230			45-60	77-01	99-29 94-87	130	2,524 918	3,058 1,192 1
-	-1	104	48'65	48,577	3-74	1.35	46-15	82-27	96-84	174	8,689	4,658
10		24	50-33	12,064	5-29	7-23	44-99	54.52	93-34	116	1,138	+2,190
78	50	234 2	26°43 23°08	9,423 6,564	···· 4·00	2.85	14-78 35-54	47-62 87-2)	97.20 95.62		20 143	42
30		294	43-54	39,523	2:59	*69	56°63 48°83	68-64	95-84	9	1,538	347
-												-
13		82 68	89-02 39-28	8,012 9,532	1375 1375	3-82	\$1.88 35'30	88*89 88 * 55	98-80 96-01	20	8 116	16 151
46		162	82-16 31-88	4,542	11.82 12-59		30-80	84-54 56-00	97-93 94-07	18 18	88 70	110 148
26		253	31-62	83,776	13/81	8-49	8248	7,6-114	96*00	58	276	420
	-		11:01	3,534	74:23		9-34	67-24	95-93	107	- 39	225
-			12.86	10,089	41-60		16.00	73-49	98.95	11	144	202 427
-											-	
_			18-18	1,581	83-38	26-60	27.43	100.00	95-83	5	1	+6
			32-01	335,424	20*48	3-84	32-66	61-58	95-27	9,696	23,105	47,803

Vaccination which are shown separately in Statement III. Pakokku Chin Hills have been excluded, Included,

A.-VACCINATION

STATEMENT NO. 11.-Showing the cost of the Department in the

-													EXPENDET	URR.		
No.	Circles and	Districts.		European super- vising officers-	Pay.	Native supervi- sing officers.	Pag	y.	Vaccinators.	Pay.		Clerks.	Pay.	Peons, etc.	Pay.	Total poyof establish- ment.
1		8			4	5		1	7	8		9	10	11	12	13
						1	Rs.		-	Rs. A			Rs. A. P.	1	Rs. A. P.	R.6. A. P.
		Division.			Rs. A. P	2	1,009	7 11	1000	2,887 11	0.01					3,897 5 3
1234	Akyab Hill Tracts, Nor Kyankpyu Sandoway	thern Arak	80 	1 1 1 1		11		8 1 0 0	2 6	676 1 1,561 1 793	2 0	***				676 12 0 2,818 6 11 1,898 7 4
		Fotal				4	2,866	0 0	21	5,024 1	5 6				6011 person	8,290 15 6
	Paou D	IVISION.					1									
00000	Rangoon Hanthawaddy Pegn Thaw.iwaddy Prome		1 1 1 1 1	+		1331 1	1,300 1,904 600 600	0 0 1 0 0	10 8	4,788 1 2,466 2,498 1 2,817 8,413 1	6 7 0 8 8 8	11.11	1,110 7 1	1111	1.120 11 4	7,02) 0 9 8,706 4 7 4,492 13 5 8,149 3 5 4,011 1:10
		Total	-			8	6,494	8 1	48	15,654 1	2 5		1.110 7 1	4	1,110 11 4	22,880 1 11
	1	Dura		-						1000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -				1		a second by
10 11	IRRAWADDY Ma-ubin Pyapôn					1	600 600	0 0			· · · · · · · · · · · · · · · · · · ·					1,621 0 0 2,515 9 5
12 18	Basseln Henzada		841 841 841			2	840 600 600	0 0	10		4 0	***				8,534 4 0 4,640 14 0 2,278 1 4
14	Myaungmya	Total			And the second	1 6	8,240		-	11,840 1	-					14,559 13 (
	TENASSERIS	DIVISION.		1		-			1	1					-	
15 16	Amherst		-			21	1,200 600 610	000	5	1,282	0 0 0	1	120 0 0		-81.80	3,882 0 0 1,882 0 0 1,570 0 0
17 18 19	Mergul Toungoo Thatin					1 1	600		7	1,622	0 0					2,222 0 0
20	Salween								1	360	0 0					300 0 0
		Total				6	3,560	7 0	32	8,669	0 0	1	120 0 0			12,319 7 9
	MANDALAY	DIVISION.				1	107.000									1
91 93	Mandalay Rhamo					1) as	5.0	4	1,280 1						4,245 8 0 1,240 14 8 912 9 3
23 24 25	Ruby M-nes Myitkyina		***	***	*****	1	780		4	1,746	9 3 0 0	***				1,025 0 0 707 0 0
		Total				2	1,393		-	8,278		-				9,671 14 11
	Westworks	DIVISION.				-			-		-	-		-		
26	Shwebo					1	350	0 0			0 0					2,571 0 0
97 94	Sagaing Lower Chindwi	n				1	530		6	1,771 1	2 5 4					2,863 2 0 2,821 14 0 2,170 9 4
23	Upper Chludwin	n Total	++-			1	1,650		0	2,1.0	2 0					9,496 2 13
	and the second se		17				1,000		-	1,110						
30	Thayetmyo	DIVISION.				1	610	0 0		2,847	5 3					2,947 5 3
81 22	Pakkoku Minbu				4	1	631	15 10	10	2,334	0 0			***		2,965 5 8
88	Magwe	***				2		0 5	-	1,509	0 0	121				2,158 0 5
	1 1 /	Total				5	1,681	0 3		8,819 1	1 1					10,080 11 4
~		Division,			-		1.17			1 010			1.470 0		1.007	5,:65 9 8
34 35	Meiktila Vaccin Meiktila Vamithin		***	1	405 5	:1	1,174 1,516	13 5 6 2 0 0	6	1,018	0 0		1,470 0 0		1,297 4 9	3,168 6 3 2,589 12 0
3073	Yamèthin Kyanksè Myingyan	***		101		1		0.0	3	1,809 1 973 1,973 1	0 0	****	611 augus			1,072 0 0
00		Total			405 5	1 6	1,111	-	-	7,884		2	1,450 0 0	-	1,297 4 9	
	SHAN S			-		-	-		-			-				
89	Northern Shan S	States				2	1,:00	0 0	8	1,920						8,129 8 9
\$0	Southern Shan S	States Total	***			7	8,447	11 1	11	6,019 1				***		9,467 5 1
£ 1	Chin Hills							-		1,016						1,016 0 0
				-		-		-	-			-		-		
	GRAND TOT.	AL	***	1	408 S S	45	27,143	14 9	216	82,352 1		8	2,700 7 1	12	2,418 0 1	1,15,020 8 8

*This amount includes the

† Apprentice ‡ This amount includes pay of Native Superintendents of Vaccination of certain other

.

DEPARTMENT.

Province of Burma during the year 1909-10 (Paragraphs 1 and 9)

					PAID FROM				i success- ions and ons.	2	
Travelling allowance.	Contingen- cies.	Total cost.	Imperial Funds,	Protincial Funds.	Local Fands.	Municipali- ties.	Native States.	Total.	ination	Average cost of ench successful case.	Ne.
	15	16	17	18	10	20	21	+22)	23	24	25
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. F.	1	Rs. A. P.	
1,465 15 3 175 0 0 1,858 13 0	148 5 0	5,512 9 6 851 12 0 4,177 8 11		851 12 0 1,100 0 0	5,005 6 6 4,052 3 11 517 14 4	125 0 0		5,512 9 6 801 12 0 4,177 3 11 1,737 14 4	10,715 1,062 5,952 3,906	0 8 2 0 12 10 0 11 8 0 8 5	8
330 7 0 3,840 3 3		1,73 14 1		1,95: 12 0	9,616 8 9			19,279 7 9	21,115	0 9 4	
577 10 0 2,413 14 6 1,090 13 6 1,872 9 0 1,555 2 6	81 8 6	*18,3*3 3 3 6,151 11 7 6,483 10 0 5,021 5 5 5,564 14 4	110-10 1-110 1-110 1-110 1-110	5,963 8 6	6,151 11 7 6,960 10 10 8,001 5 5 4,937 14 4			*13,883 3 3 6,151 11 7 6,4-8 10 10 5,021 5 5 5,864 14 4	5,638 7,388 11,380	0 15 10 1 1 8 0 14 0 0 7 9 0 8 10	678
8,407 10 9	6,617 0 9	87,404 13 6		5,965 8 6	22,071 10 2	9,809 15 9		87,404 18 5	68,921	0 12 1	
885 14 6 1,095 8 9 1,504 8 9 1,921 10 0	36 5 0	2,5% 14 6 2,647 7 5 5,084 12 9 5,165 8 0 2,744 14 4	******		2,506 14 6 8,074 7 5 4,238 12 5 4,940 8 0 2,492 6 4	573 0 0 780 0 0 1,616 0 0	·····	2,566 14. (3,617 7 8 5,138 12 9 6,665 8 0 3,741 14 9	2,075 13,251 14,011	0 13 1 1 12 1 0 6 1 0 7 0 0 6 8	11 19
1,466 13 0 6,877 7 0		22,503 9 0			18,282 1 0			21,503 9 0	41,247	0 8 4	
1,649 10 0 1,003 10 0 880 15 0 1,847 12 9 1,205 6 9	1 8 0	2,975 10 0			4,519 10 0 2,735 10 0 2,213 7 3,044 13 1 3,044 13 1 4,27 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	100 mgg 17 mgg 100 mgg 100 mgg 100 mgg 100 mgg	5,534 6 (2,975 10 0 2,452 7 0 8,569 12 0 3,698 14 0 427 0 0	6,169 6,083 6,151 6 10,826	0 5 0 5	4 15 9 13 5 17 6 18 6 19 3 20
127 0 0		15,708 2 8			16,379 6			18,708 2	\$ 51,819	050	0
991 1 6 427 8 6 625 8 8 1,373 15 4 428 11 8	200	5,246 15 1 1,708 1 2 1,518 1 11 3,001 15 4 1,135 11 8	0110070 0007000 0110000	1,535 1 1 2,753 15 1,1 5 11	2 4 8 	2,180 9 8 816 4 0	1,118 0	1,538 1 1 0 3,901 15	2 3,611 1 7,393 4 2,832 8 1,006	0703	0741714
8,846 8 8	12 5	8 13,580 13 3		9,91: 15		2,4:6 13 8	1,118 0	0 18,330 18	3 23,000		
1,451 13 (1,194 4 (098 1 (0 ++++++ 6 ++++++	0 4,042 13 6 8,657 6 8 2,920 0 0 0 3,266 5 6		2,574 0	6 6	210 0 0 346 0 0	*** **	4,042 13 8,657 6 2,920 0 8,266 5	5 17,539 0 12,04)	0 6 0 3 0 8	8 2
4,320 6		0 18,756 9 4	Construction & summ	13,000 9	5	586 0 0		13,786 9	5 46,076	0 4	9
1,337 2 0 2,154 12 0 606 3 1 1,036 4	2	4,2-4 7 5,12: 1 2,565 8 1 3,174 4		1,910 8 2,874 4	8	217 0 0 615 0 0 300 0 0		5,121 1 2,065 3 8,174 4	-	0 4	2 33 11 8 -
5,114 5	6	35,145 0 8		11,008 9	5 2,213 7	4 1,817 15 11		15,145 0			-
1,193 1	6	8 13,900 15 14 9,114 10 1 3,782 13 0 1,519 1 0 0 3,931 0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	13,000 15 1 3,636 10 2,074 13 1,533 1 8,407 0	8 6 6	\$20 0 0 708 0 0 526 0 0		1,559 1		07	1 3
4,400 11		8 27,194 9		25,610 9	8	1,654 0 0		27,201 9	8 32,216	0 13	7
2,581 5 3,523 2	0 223 15	5,960 :3 0 13,519 6		2,301 12 13,519 6	1		8,659 1	18,519 6	9 8,000 1 13,600	0/15	11 1
6,651 7	0 223 15	0 19,450 8 1		- 15,921 2)				0 19,480 8			-
634 2	0 0 12	0 1,650 14	0	1,050 14	0			1,650 14			-
60,463 à	6 15,294 6	1 1,50,784 8	3	85,002 12	5 65,098 1	6 22,206 4	4 4,777 1	0 1,80,784 3	3 342,16	. 0 8	5

cost of Port Health Vaccination. Vaccinators. districts for the period of their training at Meiktila.

B.-DISPENSARY

STATEMENT No. 111 .- Showing Dispensary Vaccination in the

-		D	istricts.			dispensation in each district to which a vacci- nator is at- tached.	Average number of vaccinstors attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vae- clusted by each vacclustor,	Total.
		,								
1	The second	1	8			8	4 .	5	6	7
Ī	1	ARAKAN	DIVISIO	м.						
L	Akyab						1011-101			2
	Hill Tracts, No	othern /	Arakan			** ***		656		520
I			***	***	-	Aug. 11		5		6
I				Total				664		527
1										
I		Prou	DIVISION	•						
	Rangoon			*** *				8,053	an una	1,062
	Pegu .					***		691 395	###	493 359
										terter .
1				Section 1						
				Total				4,072		1,944
	18	RAWADI	ov Divis	10%						
								848		- 98
				***		100 - 100 200 - 100		1(2		
	Henzada .							1,194 1,171		278 142
	Myaangmya .			Total				3,855		522
I										
	Tz	NASSERI	IM DIVIS	ION.						1
	Contract of the second s			***				68		50
	Mergoi .			***			11111	5 15	******	4 3
	APR		- 10	***			-10.61	3.2		30
				***	***			88	a	87
1				Total	-			802	11 144	144
ł	B	ANDAL	AT DIVIS	10%.		1 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -				
ł	Mandalay					-128.01		805		216
	Bhamo .							816		141
	Ruby Mines	***				******	****	80 111		63 109
	Myitkyina									
				Total	-			1,843		581
	5	SAGAINO	Prvisu	09¥.				a man	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Shwebo		-					107	* ****	97
	Lower Chindwi	n					a	78 236		78 204
	Upper Chindwi		***		***					
				Total	****			411		879
	3	awows.	DIVISIO	×.						
	Ph. B. Lt. B.				***			819 90		224 90
	Minho .		***	***				******		10.0.0
			***			A100.1				18.4.4
				Total	***			900		814
1	M	BISTIL	A DIVISO	0%.						
				***	***		-	123		78
	Yamèthin . Kyauksè			***				63 		63
			***	•				1.0100		
				Total	-			186	******	186
		SHAN	STATES.						1	
1	Northern Shan						-	166		130
1	Southern Shan							80		28
				Total				295		158
	Chin Hills .							826		817
1		GRAND	Tores					12,261		5,475

VACCINATION.

Province of Burma for the year 1909-10 (Paragraphs 2 and 4).

	CASES TO	PERCENT UNRIOWN TOTAL C	CASESIN E RESULTS	PERCENT SUCCESSATUR WHICH TH WERE E	K.	E-VACCINATIO	R		NATION.	VACCE	
No.	Re- vaccina- tion,	Primary .	Re- vaccino- tion.	Primary,	Unknown.	Successful.	Total.	Unknown.	Total of all ages.	Successful. One and under six years.	Under one year.
19	18	17	16	- 15	14	18	12		10	9 .	8
1 04 00		 6-15	 87-61	200°00 97°75			 1 136		8 477	 170	1 35
4				100-00					5		
	16/79	6-07	86-84	97-78	23	99	187	82	484	151	
00100		395 41 1-03	86-03 56 64 66:67	97-25 99-19 95-16	2 18 	1,711 6i 	1,991 181 6	42 2 4	902 487 866 	 255 216 	1.9 74 97
	-94	2:47	81:54	97-81	6.0	1,779	2,128	43	1,845	1,181	370
10 11 12 18 14	1.47 94.81 6.19 7.77	19-27 43-60 8*45	79-54 62-00 48-54 47-42	100-00 100-00 70-18 14-62	11 33 57 80	590 	750 133 921 1,029	13 119 12	85 	2 4 8 30	 5 18 20
	6/29	27-59	57-67	85-98	181	1,5 94	2,833	144	825	44	43
15 16 17 18	66-67 16-67	0:00 	100 00 60-00 100-00	100 00 100-00 100-00 100-00	12 	6 	18 11 12 2	8	47 4 3 80	27 1 12	8 1 2 13
20			32-16	85.96		10	31		49	16	
	21-87	2-(8	48.00	94-33	14		64		158	56	
21 92 23 24 25	18 24 5 91 16-67	15-74 17-65 	72.11 80-10 80-00 80-00	97-80 99-19 98-21 97-25	108 19 2 	819 153 8 1	592 	84 12 	178 139 85 106	74 11 85 43	16
	15-08	8.80	74:38	98-15	122	511	809	47	418	163	62
26 27 28 29	4-55	8-15 6-17	50-00 71-4-3	86-96 97-04 98-95		9 15	10 	5 	80 	51 32 99	28 87 88
	8-12	475	77-42	95-67	1				845	187	98
90 81 82 38	-34	-45 	73 80 	26 41 97*78 	2	431 	586 	1 	215 88 	67 58	45 5
	-34	-83	78.80	96-81	8	481	586	1	818	120	50
84 25 85 87	8.00	2:74	97 88 	100-00 100-00 		45	50	2	71 63	19 	12 44
01	8.00	1.47	97.83	100-00	4	45	50	2	184	21	66
28 19	2.94	16.92 8-57	19-39 100- 0 9	6942 9240	4	82 2	136 2	85 1	65 15	29 12	81
40	2-90	22:78	40-80	78-77			128	36 6(5	90	41 47	9
	5-48	17-10	70-03	94-82	872	6,492	6,786	906	4,804	1,981	764

COMPARATIVE STATEMENT NO. IV.—Showing the number of persons primarily vaccinated Burma in each of the under

												PERSONS	PRIMARILY
. Estal	blishme	nts.		Total sumber.	Number success- fully vac- cinated.	Total number.	Number snecess- fully vac- cinated.	Total number.	Numbe ⁷ success- fully vac- cinated.	Total number,	Number success- fully vac- cinated.	Total number.	Number success- fully vac- cinated.
				1900	-01.	1901	1-02.	190	2-03.	1903	-14.	190	4-05.
	1				2	- bi.	8		4				6
Government				106,629	95,392	91,500	83,082	120,884	101,166	135,894	109,016	188,435	109,001
Municipal				62,338	58,005	52,227	48,695	55,852	47,049	53,775	44,879	19,410	46,168
Local Funds			-	215,111	198,789	181,107	166,183	105,218	149,595	1:9,917	160,516	106,839	141,626
Native States				1,574	1,420	1,823	1,633	7,033	5,651	6,712	5,624	6,983	4,989
Dispensary				6,653	4,229	8,971	3,033	6,612	5,038	8,924	6,915	9,516	7,152
	Авну.										-		
Europeans				28	10	20	9	25	11	***		25	34
Natives				391	207	114	67	850	283	880	222	879	225
		Total		392,719	358,055	883,791	300,723	855,013	808,548	885,102	827,172	381,099	809,865

STATEMENT NO. V .- Showing particulars of Vaccination verified

							TOTAL NUMBE	R INSPECTED	
	District	s.			BER OF PERSONS CINATED.	By Defui mittlener et	Sanitary Com- Civil Surgeons.	By Native or other is	superintendents specting Officers
				Primary,	Re-vaccination.	Primary.	Re-vaccination.	Prisoary.	Re-vaccination
	2			8	4	5	6	7	8
	-				475	919	875	4,59.1	82
Akyah Ulin Terrete Ma	120.00	1.1.1.1.		11,402 1,087		010			1
Hill Tracts, No Kyankpyu			20	7,313	397	899	2(5	8,790	831
Sandoway		1011		7,813 3,417	145	201	775	410	49
Rangoon				6,509	\$2,178	195	175	4,856 5,904	18,035
Hanthawaddy		1.00		6,710	2,867 799	1,4)1 1,075	190	5.670	1,185
Pegu				7,743	6	107	100	7,155	6
Tharrawaddy Prome			101	12,258 10,834	951	1,031	167	5,763	561
Ma-ublo	***			8,090	974	474	651	8,090	966
Pyapón	***			1.921	412	1,037	42	1,696	308
Bassein				13,240	9,643	551	1,193	5,178 5,791	1,655
Henzada				15,118	1,405	1,679	879	6,893	812
Myaangmya				9,955	1,029	280 492	897 52	15.087	163 819
Amberst				21,495	1,(53 880	1,059	417	5,163	886
Taway	***			6,269 6,450	144	836	28	3,610	90
Mergul Tounceo	****		-	6,690	1,577	\$99	818	5,758	810
Thaton	***		-	11,881	120	4,014		5,187	
Salween	***			741	545	104	27	16	26
Mandalay				11,997	5,741	913.9	837	7,800	1,252
Bhamo				8,848	182	\$83	-40	116 195	113
Katha		****		7,778	203	1,668	194	8,128	178
Ruby Mines			in	8,943	251	8 100		201	109
Myitkyina	1111	****	***	1,283	417	2.6	106	5,738	15
Shwebo		***	81.5	11,168	8,058	1,588	161	10,595	1.718
Sagaing Lower Chindred			444.1	11,289	1,192	1,721	4/8	6,554	341
Lower Chindwi Upper Chindw	in .			6,450	23	599		193	21
Theyetmyo				11,364	2,029	1,564	\$87	7,555	713
Theyetmyo Pakokku				20,748	42	1,955	13	6,602	19
Minha		-	100	8,678	171	1,183 213		1,404	55 85
Magwe	Test		110	14,434	847	721	41	3,854	16
Meiktita			100	6,008 9,242	151	2.353	187	6,452	14
Yamethin Kyaukse		2.4	****	4,520	110	739		233	100.004
Myingyan	****			14.280	143	754	8	9,071	114
Northern Shan	States	***		4.140	361	102	147	8,182	247
Southern Shan	States			15,558	204	1,478		10,916	48
Chin Hills		***	-	4,228	15	219			
	GRAND	TOTAL		851,495	53,238	35,616	9,254	179,114	\$6,196

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VACCINATED. Number successfully vaccinated. Total number. Total number Total number. Total mumber. Total number. Establishments. 1905-06. 1906-07. 1907-08-1967-09. 1909-10. 7 8 9 10 11 162,014 144,074 126,106 111,288 148,497 1:3,223 147,185 184,451 178,234 157,619 Government. 64,883 52,393 59,852 48,431 43,060 41,811 43,072 38,908 45,578 44,057 Municipal. 181,999 160,425 107,418 148,271 183,772 19,609 185,167 123,807 112,135 90,744 Local Funds. 6,933 6,833 5,739 5,003 4,830 6,991 5,282 10,081 6,581 Native States. 8,177 10,690 7,180 5,287 5,475 4,304 Dispensary. 9,812 7,272 10,443 7,457 7,503 ARM 14 35 68 56 Europeans. 66 85 24 50 36 37 396 306 Natives. 804 183 281 143 408 279 455 269 328,650 Total. 427,805 871,876 870,701 821,051 351,442 848,459 306,646 851,872 506,751

and the number of thuse persons who were successfully vaccinated in the Province of mentioned official years.

by Inspecting Officers during the year 1909-10 (Paragraph 5).

	TAGE OF				AGE OF CASES F FOTAL NUMBER		TOTAL	ACCINATED.	NUMBER V	Pr
N	REPORTED CINATORS.		er Superin- 1 er other 1 g Officert.	tendent	ity Sanitary iner or Civit geom.	Commissio	ve Superio- u er other ng Officers.	tendent	uty Sanitary oner er Civil rgeons.	Commissio
	Re-vaccina- tion.	Primary.	Re-vaccina-	Primary.	Re-vaccina-	Primary.	Re-vaccina-	Primary.	Re-vaccina- tion,	Primary.
1	18	17	16	15	14	13	12	11	10	2
	24-67 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 80,000 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83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83-55 83	66-91 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 99:90 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	61-58	95-40	(8-98	94-05	62-90	93-64	49-21	50-96	1738	10-42

APPENDIX A.

Off	icial year			Ratio per 10,000 successfully vaccinated-	Quinquennial mean.	Ca	lendar year,	-	Ratio per 10,000 of mortality from small-pox.	Quinquenala mean,
	1			2	8		4		5	6
			1		1. 1				3.85	
1891-95		***		853-88	n n	1894		****	8.41	
1895-96				448-91	1 autor	1895				
1895-97				554-43	\$ 519-26	1896			8.70	> 5.19
1897-93	-		100	586-66	1	1897			4.35	
1898-99				652-47	1	1898			10.20	,
1819-1100		-		678.31	1	1899	1.14	1.00	18-21] .
1900-01				\$30-41		1900			676	
1901-02				352-69	\$ 676-01	1901	***		4.45	\$ 5757
1902-03				328-04	1	1902			\$82	
1903-04				85.8-66	0	1963	***		\$-30	;
1904-05				824-89	1	1904			2.85	3
1905-06		-		385-48	1	1900	101		10-10	
1906-00				859-61	\$ 333-51	1906			14-19	6.16
				300-06	1	1907			2 75	-
1907-08	***			297-50		1908			1.34	5
1908-49 1909-10				847-17		1900			1.50	

Statement showing the ratio per 10,000 successfully vaccinated and the mortality from small-pox by quinquennial periods for Lower Burma only.

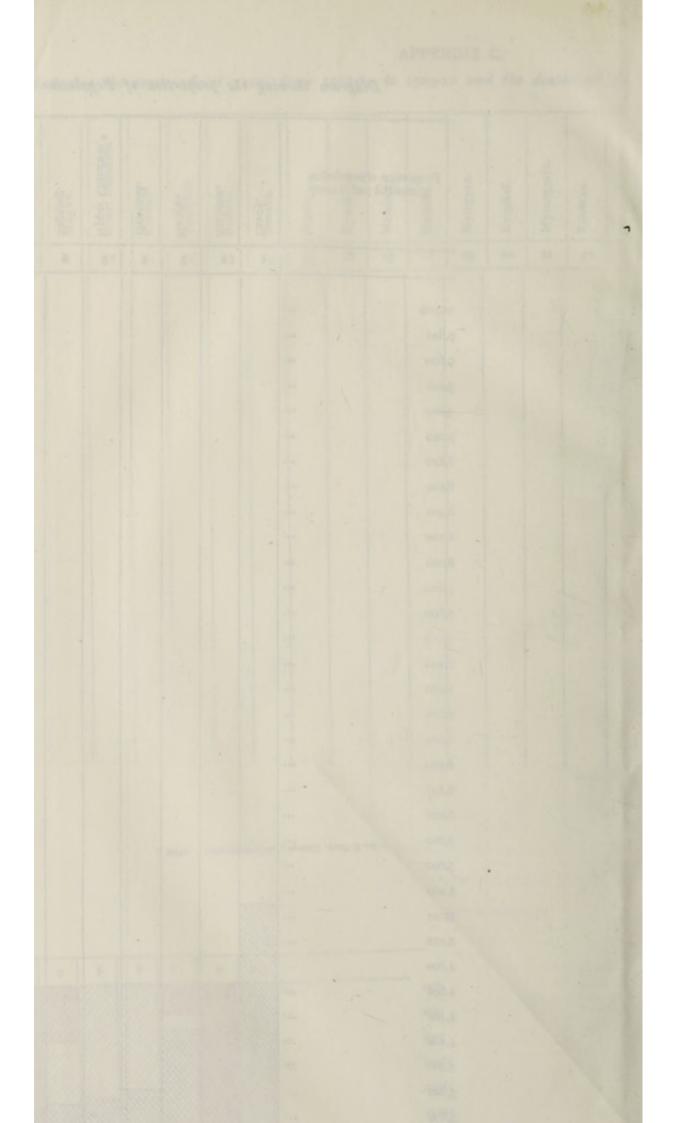
APPENDIX B.

Statement showing the number of vaccinations performed in municipal towns on children under one year of age (Paragraph 6).

	Tew	85.			Number of births during the year 1909- 10.	Number of deaths among children under one year during the year 1909-20.	Number ef soccessful vaccinations on children under one year during the year ending \$1st March 1920.	Date of extension of Vaccination Act into towns,
	1				2	8	4	5
					891	2.17	811	August 1883.
kvab	**	***			4.9	16	24	April 1894.
yaukpys					69	10	68	September 1890.
andoway.					5,056	1,578	3,537	April 1881.
angoon	100				495	153	321	March 1893.
egu					143	15	66	29th March 1910.
yaunglebin	181		***	180	789	361	327 5.10	June 1890.
rome					336	117	542 105	August 1890. Echrony 1997
aungde	-	***			210 248	22	103	February 1297. January 1897.
yobingank etpadam					216	74	15	October 1897.
Lónze			+le		177	41	137	October 1891.
la-sbin					351	86	254	January 1892
andoon		100			216	45	181	9th July 19.9.
anubyn		1.00	-		2.3	4.5	158	November 1904.
yapón	****				240	39.2	174	15th December 1904.
(yalikiat	141				183	71	617	September 1888,
lasseln		***			342	88	142	February 1890.
Igathainggyaong	-+				103	34	76	June 1894
dynungmya	***	184			S12	146	1:06	27th April 1907.
Vakèma				110	690	67	480	January 1889.
lenzada		191		100	\$16 9.219	51 52	161 210	August 1894. July 1889
aina dyp navneg		1944			244	263	1,1,2	Angust 1:94.
Syangin .	101			-	719	93	936	August 1885.
doulencin			-		4:6	87	139	October 1891.
Thaton					2.1	141	167	March 1897.
(yaikto				+ 10	91.0	181	797	December 1889.
Lawoy	***	144			41.6	22	454	October 1891.
Mergal	101			141	5,444	2,297	278	May 1889.
Toangoo	***	101			241	59	3,178	January 1890.
shwegyin	-			-	046	01	619	August 1891
Mandalay				0.41	,8;9	265	26	April 1891.
Sagaing Manywa					2,3	00 15	235	March 1998. May 1889.
Thayetmyo					872	56	232	May 1901.
Allanunyo	in.		***		163	119	105	February 1892.
Yamèthin			-+++		875	140	322	November 1891.
Pyinmana	-				495	290	440	September 1891.
Myingyan	141	***	10-1		277	32	129	June 1894.
Shwebo	144	-49			708	49	511	April 1802.
hakok ku		448		101	\$52	70	- 164	May 1894.
Kyaoksé	181				251	50	161	March 1896.
Minbu	111					170	221	March 1896.
Salin		****	***		259	16	125	February 1898.
Faungdwingyi Malbeita	***					75	130	June 1966.
Melktila	111	-14.0	194			24	03	26th October 1894.
Bhamo	***				and the owner of the owner.			
			TOTAL		34,548	9,816	19,791	

G. B. C. P. O.-No. 3, S. C., 13(b), 1-7-1910-465-R. A. P.

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NOTES AND STATISTICS

ON

VACCINATION IN BURMA

FOR THE YEAR 1909-10



RANGOON

OFFICE OF THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA