

## **6th triennial report of vaccination in Bengal.**

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SIXTH TRIENNIAL REPORT  
OF  
VACCINATION IN BENGAL

DURING THE YEARS

1902-1903, 1903-1904 AND 1904-1905.

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BY

W. W. CLEMESHA M.D. D.P.H., CAPTAIN, I.M.S.,

Offg. Sanitary Commissioner for Bengal.

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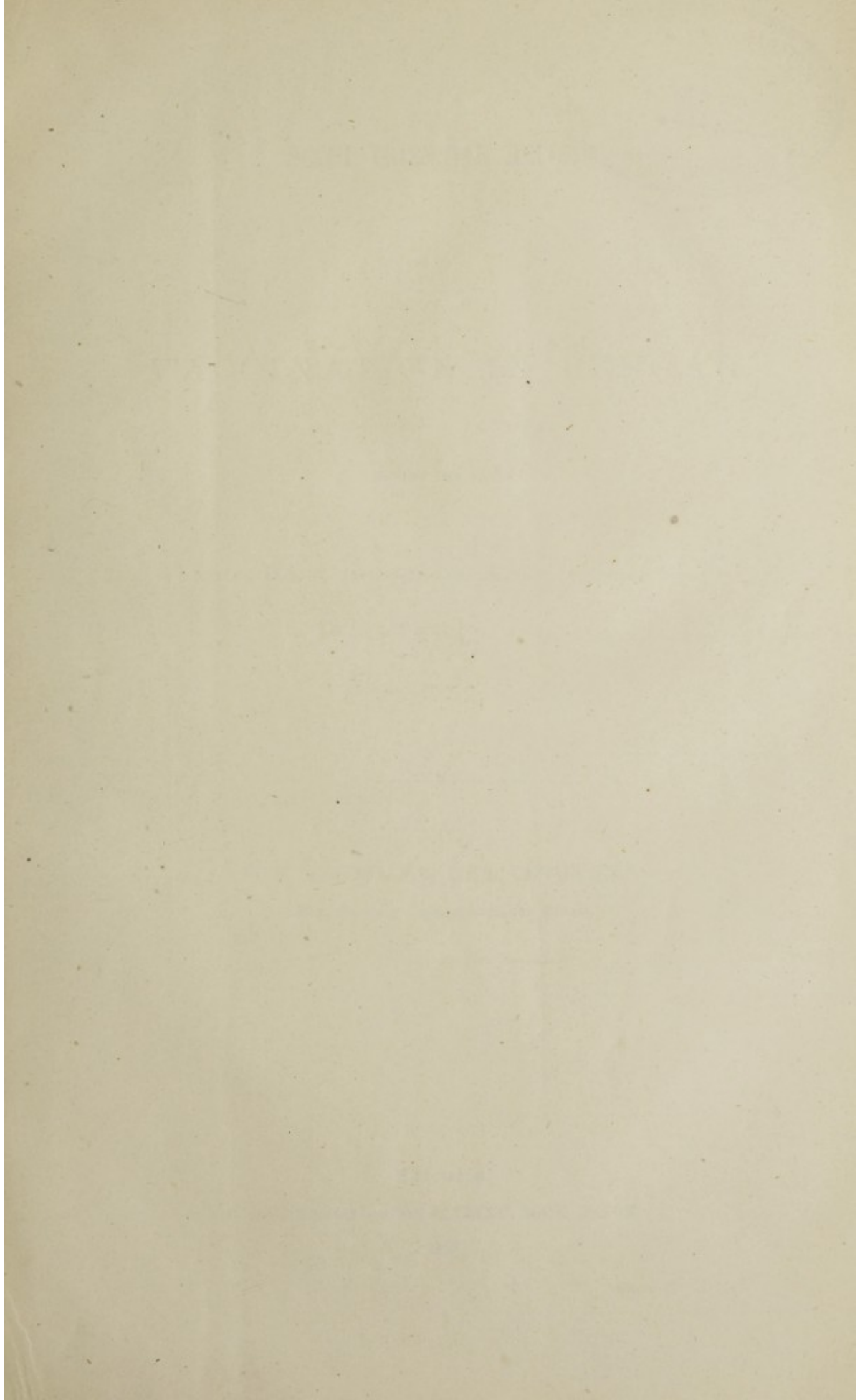
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# TRIENNIAL REPORT

OF

## VACCINATION IN BENGAL

FOR THE YEARS

1902-1903, 1903-1904, AND 1904-1905.

This report deals with the triennial period 1902-1903 to 1904-1905. Major H. J. Dyson, I.M.S., was in charge of the Department from 1st April to 30th June 1902, Captain (now Major) B. H. Deare, I.M.S., from 4th August 1902 to 10th March 1903, Major F. C. Clarkson, I.M.S., from 11th March 1903 to 15th March 1905, and Captain W. Clemesha, I.M.S., from 1st July to 3rd August 1902 and again from 16th to 31st March 1905.

2. In the Metropolitan circle, there was no Deputy Sanitary Commissioner from 1st April to 21st May 1902, from 30th April to 8th May 1903, from 5th August to 30th August 1903, and from 16th to 31st March 1905. The Northern Bengal Circle was also without a Deputy Sanitary Commissioner from 1st July to 3rd August 1902, and from 5th to 16th September 1903.

3. In Calcutta the average number of Inspecting officers and operators was 7 and 28 against 8 and 31, respectively, of 1899—1902. In Provincial rural areas and mufassal municipalities and dispensaries, etc., the inspecting staff and operators, including apprentices, numbered 253 and 3,460 and 10 and 207, respectively, against 247 and 3,465 and 10 and 236, respectively, of the previous triennial period.

4. The total number of operations performed in the Province during the past year was 2,897,907, of which 2,798,006 were primary and 99,901 revaccination against 2,748,638 with 2,634,563 primary and 114,075 revaccination of 1903-1904, and 2,781,972 with 2,592,177 primary and 1,89,795 revaccination of 1902-1903. The average of the triennial period under review was 2,809,506 with 2,674,916 primary and 134,590 revaccination against 2,420,552 with 2,320,568 primary and 99,984 revaccination of 1899—1902. There was thus an average increase of 388,954 cases, there having been an increase of 3,54,348 in primary cases and 34,606 in revaccination. Although there was a satisfactory increase of operations in the Province as a whole, the period under review shews an average decrease of 4,624 cases in mufassil municipalities, dispensaries, etc., and 7,896 in the town of Calcutta, as compared with the previous triennial period 1899—1902. The decrease in Calcutta is specially noticeable. It is due to the larger number of vaccinations performed during 1900-1901 owing to a severe outbreak of small-pox in the town.

The ratio of success under the two different heads, Primary and Revaccination, excluding the cases in which the results were not known, was 98·79 and 68·73 against 98·46 and 65·36, respectively, of 1899—1902. The average work of a vaccinator was 978 against 777 of the previous triennial period. The average work of a licensed and paid vaccinator was 1,003 and 798 against 788 and 697, respectively, of 1899—1902.

Out of the 49 districts of Bengal, including the Tributary States of Orissa and Chota Nagpur, there was an increase of operations in 29 and a decrease



in 20 districts during the past year. The increase is most striking in the following districts:—

Midnapore	...	...	...	35,325
Cuttack	...	...	...	28,702
Balasore	...	...	...	19,894
Noakhali	...	...	...	19,865
Chittagong	...	...	...	14,286
Tributary States of Orissa	...	...	...	12,097
Bankura	...	...	...	10,301
Birbhum	...	...	...	9,634

The decrease is specially noticeable in the districts of Puri 11,022, Rangpur 9,822, and Shahabad 9,210. An explanation of this is given below. The cause of decrease in the Political States of Chota Nagpur 4,901, Rajshahi 3,962, Pabna 3,446, Saran 3,247, Sonthal Parganas 3,155, Darbhanga 2,875, Jessore 2,421, Palamau 1,993, Bogra 1,985 and Jalpaiguri 1,953 is also given.

In Puri it is said to be principally due to (1) the negligence of the District Inspector and the Sadar Sub-Inspector who have already been punished; and (2) to the greater accuracy of the figures.

In Rangpur it is ascribed to the unusual prevalence of malaria in the district during the first 3 months of the season, and also to the sickness of some of the vaccinators.

The decrease in Shahabad, Saran and Darbhanga is said to be due to the greater prevalence of plague in those districts during the past year; while in Rajshahi, Pabna, Jessore, Jalpaiguri and Bogra it is ascribed, either to the prevalence of malaria, cholera, etc., or to the sickness among the staff.

In the Political States of Chota Nagpur and Sonthal Parganas the decrease occurred in revaccination, owing to less prevalence of small-pox outbreaks.

A similar explanation applies to Palamau, where the decrease was chiefly in revaccination.

As regards increase, which is most marked in the Districts of Midnapore, Cuttack, Noakhali and Balasore, the Civil Surgeons of the first three report it to be due to the active co-operation of the District Officers, while the Civil Surgeon of Balasore attributes it to the re-introduction of the arm-to-arm vaccination which had been practically stopped for some years. In Chittagong and Birbhum the increase is mainly due to work in connection with the stamping out of small-pox outbreaks. The Civil Surgeon of Bankura ascribes it to the district having been more healthy. In the Tributary States of Orissa, it was due, I think, to the systematic inspection of vaccination by the Deputy Sanitary Commissioner, Captain Robertson Milne, I.M.S.

The causes that bring about fluctuation in the district returns year by year are the following:—

Those that tend to aid vaccination—

- (i) An epidemic of small-pox: this in most districts very much improves the quantity of work; vaccinators, inspectors, executive officers, all bestir themselves, and revaccinations greatly increase. There is almost always a decrease in subsequent years.
- (ii) Improving the inspecting staff of any district, visits of Deputy Sanitary Commissioners, pressure from head-quarters, etc.

Those that tend to hinder vaccination work—

- (i) Epidemics of plague: this is a very important factor, if it is the first epidemic. As the disease reappears regularly at certain times, it affects the work less.
- (ii) Unhealthy years generally,—*vide* this year's figures of Rangpur, Rajshahi, Jessore, etc.
- (iii) Years of scarcity and famine: the 2 anna fee is more of a hardship than usual.
- (iv) Advent of a new Inspector: this seems paradoxical, but it is not at all uncommon to find that a change of staff produces an increase in the actual work of the district, but a falling off in the figures due to the new man putting a stop to the "cooking" of returns by the Sub-Inspectors.

Whilst it is impossible, within the scope of this report, to go into the causes why particular districts are forward or backward, a few instances may be taken.

The old Bhojpuri kingdom, as a whole, is one of the most bitterly opposed to vaccination. Shahabad, parts of Chapra, Ghazipur and Ballia in the United Provinces are all backward districts: on this account vaccination is only done with great difficulty.

Unfortunately plague is now an additional difficulty and has put back the work considerably this year. It is a mistake to compare Arrah with Patna and Gaya, which, as is well known, belonged to a distinct kingdom of Mogadh where vaccination does not meet with as much opposition.

The Ferazie districts of Lower Bengal are probably the most difficult to vaccinate in the whole Province. The fact that Faridpur and Backergunge district figures are on the whole good is simply due to the exceptionally good work of the Inspectors and Civil Surgeons.

Very nearly all the Sadar Subdivisions in Bihar are behind the other parts of the district; the reason is simply that the law is well known, vaccination is optional and opposition is strong.

5. During the year 1904-05, out of 2,678,559, the estimated number of infants under one year available for vaccination, Protection afforded to infants. 1,029,548, that is, 384.36 per thousand were successfully vaccinated, against 359.66 of 1903-04 and 360.51 of 1902-03. This shows that some improvement is gradually being made. A very large majority of the people of Bengal object to have their infant children vaccinated and this, together with the fact that malaria is prevalent during the greater portion of the vaccination season in many parts of the Province, tends to lower the rate of infant protection. Improvement in this respect must be slow. The apathy of the people in the matter of infant vaccination is evident from the figures of Calcutta, the most advanced town of India, which show that only 90 per thousand of the infant population of that town was vaccinated during the past year. The above calculation, however, is based on the estimated birthrate of the Province. If the actual number of births of the town is taken into calculation, the ratio would come up to 255 per thousand only, but this even falls far short of what it should be.

In 12 districts, viz., Ranchi 904, Palamau 775, Malda 768, Faridpur 744, Hazaribagh 682, Political States of Chota Nagpur 653, Bhagalpur 634, Purnea 634, Manbhum 625, Darjeeling 608, Sonthal Parganas 570 and Jalpaiguri 506, the protection was over 500 per mille, while in four districts only, viz., Balasore 199, Tributary States of Orissa 190, Tippera 186, and Puri 83, it was below 200 per mille.

It is interesting to notice that in the districts of Midnapore, Cuttack and Noakhali, where the work as a whole has increased owing to the active help of the district authorities, the rate of infant protection has also increased from 186.10, 146.55 and 170.99 of 1903-04 to 424.07, 218.67 and 403.09, respectively, of 1904-05. There is also a marked improvement noticeable in the district of Faridpur where the rate of successful infant vaccination has increased from 595 of 1903-04 to 744 during the past year. Although I doubt the accuracy of the figures, still I think that some improvement is being made owing to the energy and exertions of the Civil Surgeon and the District Inspector of Vaccination. I mention the case of Faridpur to show what good can be done by energetic inspecting officers. Unfortunately among the subordinate vaccination inspecting staff we have only a very few good men who are really tactful and know how to advance the cause of vaccination. This, apart from local conditions, is also an important factor in determining the progress or retrogression of vaccination work in a district.

The protection afforded to infants in municipalities is shown in Appendix VII attached to the report. It will be seen that 623 per mille of the surviving infant population was protected during the past year against 711 of 1903-04 and 723 of 1902-03. The average of the triennial period under review was 683 against 576 of 1899-1900 to 1901-02. The cause of the excess number of vaccination over the available population in some municipalities as shown in the statement is the same as explained in previous reports. The attention of Civil Surgeons has as usual been drawn to their responsibility in the matter of infant vaccination in towns where the protection is inadequate.

6. During the recess or non-working season of 1904-05, 191,700 operations were performed chiefly in connection with small-pox epidemics and the up-keep of lymph for emergencies, against 193,056 of 1903-04 and 291,460 of 1902-03. The average of the triennial period under review was 225,405, against 144,244 of 1899-1902.

*Recess work.*

7. During 1904-05, 832,542 successful primary operations were performed in six points, against 733,802 of 1903-04 and 711,221 of 1902-03. The number of revaccinations was 8,337, against 11,653 of 1903-04 and 25,963 of 1902-03. The falling off in revaccinations during the past year is due to the less prevalence of small-pox. When small-pox is prevalent revaccination can be performed, when it is absent it is almost practically impossible. The average of the triennial period in primary and revaccination was 759,188 and 15,318, against 549,432 and 11,316 respectively of the previous epoch. There was an increase of 209,756 successful primary and 4,002 revaccination cases, which shows that this method of vaccination is being gradually and more extensively introduced among the people.

*Six-puncture vaccination.*

8. During the past year, the total number of primary and revaccinations performed in factories and tea-gardens in Bengal was 9,276 and 210, against 11,034 and 879 respectively of 1903-04 and 10,071 and 1,192 respectively of 1902-03. The ratio of success in primary and revaccination cases was 98.72 and 45.23, against 99.07, 35.49 and 95.99 and 49.24 respectively of 1903-04 and 1902-03.

*Factory and tea-garden vaccination.*

9. The total average cost of vaccination in Bengal for the triennial period under review was Rs. 1,97,642, excluding the expenditure of the Calcutta Municipality for the year 1904-05, for which figures has not yet been received, against Rs. 1,86,782 of 1899-1902, the cost of each successful vaccination being 1 anna 2 pie, against 1 anna 3 pie.

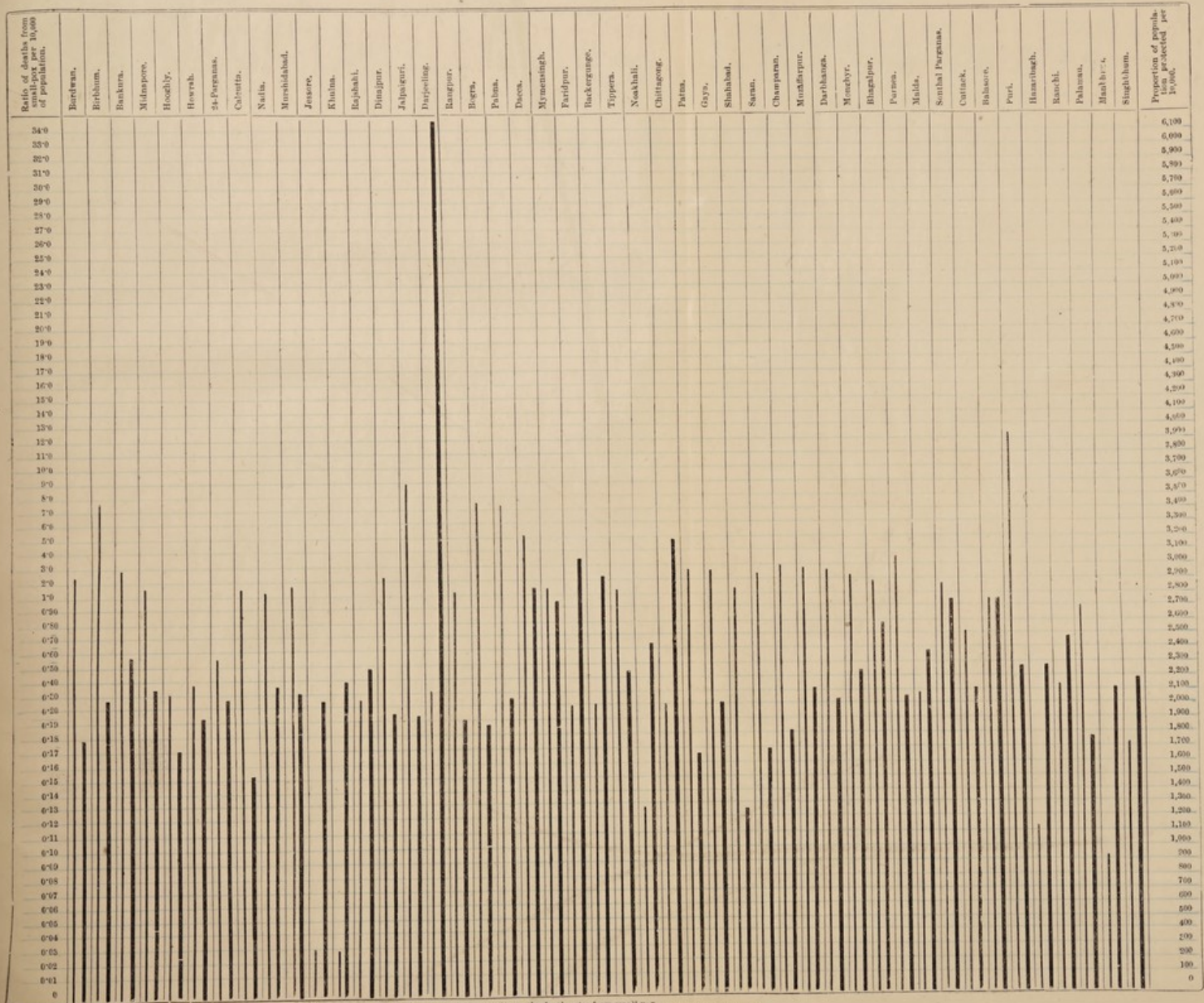
*Cost of, and contribution towards, vaccination.*

Out of the total average cost of vaccination as shown above, Rs. 4,713 were contributed by District Boards, Rs. 4,004 by Native States, and Rs. 212 from other sources, against Rs. 4,188, Rs. 2,399 and Rs. 292 respectively of the previous triennial period 1899-1902.

Diagram illustrating death-rate from small-pox, and degree of protection afforded.

10. The following diagram illustrates the death-rates from small-pox in each district with side by side the proportion of population protected against the disease by vaccination during the past seven years:—

1898—1905.



NOTE.—Thin lines indicate the death-rates from small-pox.  
Thick lines indicate the proportion of population protected by vaccination.



It is extremely difficult to draw any useful conclusions from this diagram, because there is in the best vaccinated district quite sufficient susceptible material to keep an epidemic of small-pox alive. In this country it is usually the adults amongst whom the greatest number of deaths from small-pox occur and who keep the disease alive. Twenty-five years ago vaccination of children was not as good as it is now, consequently the number of unvaccinated adults of about 25 years of age is much greater than the number of unvaccinated children at five years. Also even, if adults have been vaccinated as children, they may contract the disease themselves, though the chances of recovery are much below if they have been protected in childhood. Small-pox has a sort of periodicity. It usually is more or less prevalent in epidemic form once in five years in any given district. In consequence of an epidemic of the disease, vaccination of many of the susceptible persons is carried out and the disease disappears and remains quiet for some time.

In Northern Bengal, Nepal is a constant source of infection from which the neighbouring districts contract the disease. It is only the fact that the Darjeeling district is very well vaccinated that keeps the small-pox figures as low as they are there.

11. During the past year, the total number of deaths from small-pox in the Province was 14,846, against 26,168 of 1903-04 and 45,742 of 1902-03, the ratio of deaths per 1,000 of the population being .19, against .33 and .58 respectively of 1903-04 and 1902-03. The largest number of deaths was recorded in the districts of Dacca 1,409, Puri 1,218, Pabna 1,021, Darbhanga 771, Muzaffarpur 744, Birbhum 706 and Jalpaiguri 702, whereas the mortality was lowest in the districts of Khulna 4, Jessore 7, Darjeeling 8, Singhbhum 11, Hazaribagh 12, Manbhum 13, and Noakhali 15.

It will be seen from statement No. VI attached to this report that there has been a diminution in the death-rate in a large majority of the districts of Bengal as compared with the previous year.

In accordance with the orders contained in paragraph 9 of the Government Resolution on the Annual Vaccination Report of this Department for the year 1902-03, statistics were obtained from Civil Surgeons showing the number of persons protected or unprotected among those who died from small pox during the past year. Out of 14,846 deaths, statistics have been furnished of 11,763 which show that 4,662 were protected by vaccination and 5,873 were unprotected and 1,228 not ascertained. The figures, however, are so unreliable that no conclusion can be based on them.

12. In the Animal Vaccination Depôts at Calcutta and Darjeeling, the average number of calves vaccinated was 795 and 223 respectively, against 427 and 194 respectively of the previous triennial period. The average quantity of lanoline paste in grains manufactured was 127,243 and 50,245 respectively, against 66,319 and 53,903 respectively of 1899-1902.

It will be seen that the work of the Calcutta Animal Vaccination Depôt has increased nearly twofold. The demand on it is increasing every year. The depôt at Elliot Road was too small to be able to meet the continual increased requisitions for lymph; it was therefore removed to a more commodious building at Entally in April 1905, and arrangements are being made for manufacturing larger quantities of lymph to meet all present demands and to send the fresh paste direct to the vaccinators instead of through Civil Surgeons and Inspectors and Sub-Inspectors as before, thus minimising the chance of deterioration of the quality of the lymph supplied.

13. During the past year, 216,520 primary vaccinations were performed with lymph taken direct from the calf, 421,157 with lanoline lymph, and 2,160,329 by the arm-to-arm process, against 212,537, 415,310 and 2,006,716 respectively of 1903-04 and 214,764, 399,205 and 1,978,208 respectively of 1902-03. The ratio per cent. of success under each of these methods of vaccination was 99.11, 95.51 and 98.57 respectively, against 98.83, 97.01 and 98.35 respectively of 1903-04 and 98.13, 96.75 and 98.38 of 1902-03. The number of revaccinations under each of these processes of vaccination was 21,926, 37,718 and 40,257 with a success of 68.84, 51.79 and 58.49 per cent. respectively, against 26,001, 31,841 and 56,223 with a success of 65.89, 65.87 and 66.94 per cent. respectively of 1903-04 and 50,429, 39,992 and 99,374 with a success of 74.04, 62.20 and 67.40 per cent. respectively of 1902-03.

14. In accordance with the orders contained in Government order No. 929T.M., dated the 28th May 1904, antiseptic vaccination was introduced during the last working season in the districts of Burdwan, Howrah, 24-Parganas, Dacca and Murshida-

bad and in the municipal areas of the districts of Patna, Bhagalpur, Hazaribagh and Cuttack. In Rajshahi the system, it is stated, was not introduced owing to three changes of Civil Surgeons during the vaccination working season and in the district of Muzaffarpur, it was tried only in the town of Muzaffarpur. The Civil Surgeons concerned report that selected vaccinators were employed in the work and that practical instructions as to the use of the new method were given them before they commenced work. The result is reported to be satisfactory. In Hazaribagh the experiments were carried on under the directions and personal supervision of the Civil Surgeon, Captain Newman, I.M.S., who has shown by facts and figures the superiority of the antiseptic method of vaccination over the ordinary method. His report is very interesting, and I am submitting it to Government separately with my remarks.

15. One hundred and ninety grains of lymph were supplied from the Animal Vaccination Depôt, Darjeeling, to the Nepal Durbâr. Five hundred and thirty grains were also supplied to the Sikkim State. The results are reported to have been satisfactory.

16. During the past year the Deputy Sanitary Commissioners of the Metropolitan and Eastern Bengal, Northern and Western Circles, inspected each 5,119, 17,855 and 7,498 cases respectively. The percentage of success in primary and revaccination cases inspected by them was 98.59 and 75.87 respectively.

Among Civil Surgeons two only, viz., Pabna and Champaran, inspected over 10,000 operations; 13 between 5,000 to 10,000; 19 between 2,000 and 5,000; 6 between 1,000 and 2,000, and 8 less than 1,000. The percentage of success in primary and revaccination cases inspected by them was 97.86 and 61.93 respectively.

Of the subordinate inspecting staff, 22 District Inspectors of Vaccination inspected more than 50 per cent. of the primary operations in their respective charges; 9 between 40 and 50 per cent., and 18 between 20 and 40 per cent.

In 15 districts, the Sub Inspectors of Vaccination inspected more than 80 per cent. of the primary operations performed in their jurisdictions; in 26 districts between 50 and 80 per cent., and in 9 only below 50 per cent.

The percentage of success reported by the Inspectors and Sub-Inspectors of Vaccination was 97.71 and 97.37 respectively in primary cases, and 53.60 and 54.09 in re-vaccination, the success reported by the vaccinators in the returns being 98.15 and 58.23 respectively under the above heads.

Suitable notice has as usual been taken departmentally of the inadequate inspections performed by the subordinate inspecting staff.

17. The question of the re-organization of the Vaccination Department is still under the consideration of Government, hence very little need be said on the subject of changes. To my mind the change that is most needed on the score of economy is a reduction in the number of Sub-Inspectors. Many of these men are useless, lazy to an almost incredible degree and are completely out of touch with the Civil Surgeons.

Rewards for good work are being distributed for the first time this year, and it is hoped will act as a stimulus to further exertions on the part of the vaccinators.

It is not so much radical change of system that is required in this Department, as carefully thought-out gradual improvement. The great imperfections under which we labour are (i) want of education of vaccinators and inspecting officers; (ii) the lack of inducements for vaccinators to improve their work or their knowledge of English; (iii) the enormous preponderance of arm-to-arm vaccination over other methods.

These three are the greatest defects that exist at present, and it is very desirable that steps be taken to remedy them. Following on these, aseptic method of vaccination can be taught to the vaccinators and introduced throughout the Province, but it is futile to expect the average vaccinator left to himself either to understand or carry out more scientific methods. These points have been brought to the notice of Government in separate notes.

Another point that requires considerable attention is the systematizing of the work of vaccinators in municipal towns; at present in many places nothing like all the available children are vaccinated. This is simply a matter of organization, and great improvements should be made in a comparatively short time.





STATEMENT No. I—Showing particulars of Vaccination in the

Number.	DISTRICT.	POPULATION.	Average population per square mile.	AVERAGE NUMBER OF VACCINATORS EMPLOYED THROUGHOUT THE YEAR.		TOTAL NUMBER OF PERSONS VACCINATED (INCLUDING THOSE VACCINATED BY APPRENTICES.)				PRIMARY VACCINATION			
				Vaccinated on work.	Apprentices.	Male.	Female.	Total.	Total number of persons actually vaccinated minus edj divided by 60.	Total.	Success		
											Under one year.	One year and under six years.	
1	2	3	4	5	6	7	8	9	10	11	12		
<b>Burdwan Division.</b>													
1	Burdwan { Paid by District Board Licensed	1,445,747	543	2	1,048	795	1,843	...	921	1,341	253	972	
2	Birbhum { Paid by District Board Licensed	893,588	511	1	24,673	23,850	48,523	501	1,549	47,998	22,704	22,147	
3	Bankura	1,063,136	495	1	111	103	214	...	214	207	35	145	
4	Midnapore	2,099,238	523	8	19,288	17,919	37,207	535	1,232	36,459	7,543	22,206	
5	Hooghly	915,280	785	6	26,326	25,236	51,562	...	594	43,332	11,832	27,963	
6	Howrah	668,863	1,345	10	56,355	50,301	106,656	1,395	1,176	104,618	40,720	51,976	
				19	13,408	12,246	25,744	1,200	741	25,730	8,938	12,470	
				29	10,601	10,210	20,811	...	1,040	20,805	6,354	12,647	
	Total of Burdwan Division.	7,655,902	556	5	1,159	898	2,057	...	686	1,548	289	1,118	
				92	150,221	139,662	289,883	3,721	1,100	278,822	98,161	140,609	
				363	151,380	140,569	291,949	3,721	1,096	280,490	98,430	150,327	
<b>Presidency Division.</b>													
7	24-Parganas Licensed	1,080,229	851	58	1	33,223	30,927	63,250	...	1,000	63,250	24,413	34,098
8	Calcutta Bovine Vaccine Depot—Paid	847,796	42,389	2	3,300	392	3,692	...	1,846	291	114	169	
9	Calcutta Licensed	1,072,136	570	28	14,125	10,235	24,360	...	870	20,293	2,711	14,519	
10	Murshidabad	1,257,277	593	13	20,035	27,032	47,067	2,283	1,379	55,273	19,100	33,948	
11	Jessore	1,791,856	615	34	19,380	19,121	38,501	3,533	1,034	38,486	9,202	27,314	
12	Khulna	1,226,782	597	10	26,469	25,957	52,426	3,378	650	51,288	19,428	29,208	
				10	18,906	17,932	36,838	2,969	1,095	36,712	19,323	15,072	
	Total of Presidency Division.	8,376,076	707	50	17,425	10,627	28,052	...	935	70,574	2,825	14,688	
				76	157,694	119,189	246,793	12,563	992	245,999	91,476	139,640	
				266	145,029	129,816	274,845	12,563	986	265,583	94,301	154,323	
<b>Rajshahi Division.</b>													
13	Rajshahi Licensed	1,432,164	553	36	24,681	23,303	47,984	10,301	1,047	47,030	19,565	27,415	
14	Dinajpur	1,553,654	394	33	24,902	18,666	43,568	10,045	971	34,319	12,468	20,616	
15	Jalpaiguri	777,672	263	19	12,374	11,173	23,547	3,537	689	22,899	13,068	9,361	
16	Darjeeling Bovine Vaccine Depot—Paid	227,724	107	2	7,683	7,327	15,010	...	1,591	12,762	4,975	4,806	
17	Darjeeling Licensed	2,138,221	614	8	28	49	77	...	38	77	14	30	
18	Rangpur	1,138,221	57	8	36,561	36,466	67,627	1,509	1,149	62,451	29,925	29,064	
19	Bogra	843,333	621	5	1,292	725	2,017	...	464	968	168	618	
				12	11,338	10,597	21,935	3,592	966	21,452	8,706	11,891	
				16	23,693	21,078	44,771	5,957	1,333	42,772	18,000	21,681	
	Total of Rajshahi Division.	8,351,689	482	5	1,592	728	2,320	...	464	908	168	618	
				124	7,711	7,376	15,087	...	1,257	12,839	4,889	4,835	
				222	132,969	114,712	246,781	34,961	1,033	231,844	101,732	119,968	
				222	141,372	122,816	264,188	34,961	1,032	245,651	106,769	124,621	
<b>Dacca Division.</b>													
20	Dacca Licensed	2,529,421	913	63	54,468	52,923	107,421	8,093	1,576	99,997	20,938	65,160	
21	Mymensingh	3,809,671	607	61	85,241	78,786	164,027	11,176	1,389	163,320	29,859	112,827	
22	Faridpur	1,913,621	844	55	62,601	60,386	122,987	7,524	2,059	122,065	40,823	60,394	
23	Backergunge	2,246,178	620	36	67,772	65,260	133,032	33,019	1,630	132,981	25,200	69,729	
	Total of Dacca Division	10,498,891	703	308	270,112	257,965	627,477	50,812	1,518	518,563	122,830	308,110	
<b>Chittagong Division.</b>													
24	Tippersa Licensed	2,069,545	832	61	3	39,977	37,469	76,546	407	1,248	76,112	13,783	55,335
25	Noakhali	1,135,308	691	27	30,490	27,463	57,943	14,429	1,176	57,896	16,257	34,919	
26	Chittagong	1,227,260	534	13	40,067	37,755	77,822	1,176	1,343	77,658	13,316	51,645	
27	Chittagong Hills Tracts—Paid by Government.	124,762	24	9	3,652	3,654	6,036	...	679	6,036	910	3,574	
	Total of Chittagong Division.	4,656,789	396	9	3,062	3,034	6,096	...	679	6,096	910	3,574	
				41	149,574	102,577	212,251	16,612	1,266	211,665	43,415	141,339	
				41	112,876	105,711	218,287	16,012	1,253	217,702	44,325	144,953	
<b>Patna Division.</b>													
28	Patna Licensed	1,339,274	682	73	15,911	14,939	30,850	5,250	350	30,841	9,878	19,956	
29	Gaya { Paid by District Board Licensed	1,972,461	420	5	2,923	2,978	5,901	...	1,180	5,874	2,871	2,574	
30	Shahabad	1,944,599	423	35	26,971	27,268	54,239	...	919	54,188	28,024	21,835	
31	Saran	2,338,087	885	65	39,219	38,751	77,970	1,066	387	38,970	11,065	23,941	
32	Champanan	1,732,037	498	45	27,903	26,170	54,073	10,677	667	54,073	16,318	32,057	
33	Muzaffarpur	2,696,735	897	53	25,372	24,339	49,711	13,345	868	49,708	16,299	31,970	
34	Darbhanga	2,869,219	846	53	45,638	43,954	89,592	88,642	23,720	1,225	88,637	34,176	
				53	45,227	42,850	88,077	17,003	1,341	88,070	29,133	37,238	
	Total of Patna Division.	14,782,460	627	5	2,923	2,978	5,901	...	1,180	5,874	2,871	2,574	
				333	207,211	197,361	404,602	71,059	748	404,457	166,913	220,683	
				451	210,134	200,320	410,463	71,059	752	410,381	169,784	223,257	

*districts of Bengal during the year 1904-1905.*

TOTAL OF ALL AGEN.		RE-VACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		Persons successfully vaccinated per 1,000 of population.	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.	
11	12	13	14	15	16	17		18	19	20	21	22	23
TOTAL OF ALL AGEN.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
1,229	3	502	352	14	90'32	72'13	34'36	-22	2-78	35,916	24'84	329	'22
47,652	96	615	354	47	90'65	62'32		-30	1-64				
207	...	7	5	...	100'	71'42		...	...	25,907	29'06	185	'21
36,317	15	748	403	...	90'65	65'91	41'43	-04	...	34,730	32'65	596	'58
42,823	17	8,230	2,513	9	98'96	30'56	42'64	-03	-10	81,903	30'36	5,843	'16
163,573	270	1,418	905	80	90'35	67'63	38'70	-35	5-64	23,342	34'40	353	'25
25,357	53	14	5	...	98'75	35'71	27'70	-20	...	20,385	30'47	330	'34
20,667	58	6	3	...	90'61	50'	39'00	-27	...				
1,536	3	569	357	14	90'41	72'12		-19	2-75				
276,389	669	11,831	4,273	136	90'33	39'22	36'76	-21	1-23	221,363	28'70	7,418	'98
277,925	612	11,549	4,630	110	90'33	40'64		-21	1-29				
63,024	11	...	...	...	90'65	...	37'50	-01	...	62,498	31'24	642	'38
286	5	3,401	1,133	864	100'	44'65		1-71	25-40				
18,052	800	4,677	1,875	379	92'65	50'70	25'18	3-04	9-29	18,831	22'21	668	'78
54,858	154	795	627	3	90'32	79'16	35'29	-27	-37	47,508	30'22	49	'03
58,217	180	615	395	18	90'76	60'16	30'71	-46	2-92	37,462	29'80	92	'07
50,960	34	178	135	...	90'42	75'84	28'51	-06	...	52,555	29'33	93	'05
36,904	18	196	64	...	90'75	32'65	29'88	-04	...	37,362	30'45	22	'01
18,338	505	7,478	3,068	1,243	92'76	48'24		3-91	16-02				
243,663	397	1,784	1,211	21	90'61	69'25	31'78	-16	1-17	246,216	28'20	1,660	'18
262,001	1,202	2,302	4,229	1,264	90'09	52'87		-45	13-64				
47,773	69	54	54	...	90'81	100'	33'29	-14	...	46,729	32'02	66	'04
34,633	28	7,779	6,937	126	90'24	90'64	26'37	-08	1-61	43,626	28'08	286	'24
22,094	50	686	372	12	98'92	57'76	29'53	-21	1-83	21,885	28'14	186	'24
12,726	26	2,248	1,400	148	90'92	60'66		-20	6-58	19,508	28'63	52	'14
77	...	...	...	...	100'	...	62'36	...	...				
60,957	282	4,546	3,021	145	98'00	68'44	20'02	-45	3-18	58,291	27'26	946	'44
990	5	1,532	438	70	90'45	30'72		-51	8-17				
21,240	17	503	254	1	90'09	30'59	27'09	-07	-19	23,817	28'12	324	'38
41,397	229	1,399	573	9	97'53	20'82	34'29	-76	'64	41,639	20'76	469	'33
900	8	1,352	488	70	93'45	33'72		-51	5-17				
12,803	26	2,248	1,400	148	90'92	60'66		-20	6-58				
237,294	776	14,937	11,011	263	98'06	75'19	34'48	-33	1-06	254,889	30'02	2,400	'25
241,667	866	18,537	12,509	511	98'71	71'20		-32	2-75				
98,165	828	7,424	3,032	439	98'92	43'42	39'98	-82	5-91	109,627	40'57	504	'19
159,396	1,748	507	396	17	98'47	80'81	41'92	1-06	3-35	133,110	40'19	1,150	'30
121,431	155	932	595	59	90'69	68'27	63'76	-12	6-33	96,545	42'09	98	'05
135,532	3,664	51	24	...	98'53	47'05	55'77	2-75	...	95,117	42'54	98	'04
504,094	6,295	8,914	4,949	515	98'42	48'20	48'20	1-23	8-77	431,469	41'09	1,850	'18
75,280	305	434	364	2	90'30	84'25	36'55	-60	-46	67,248	32'40	200	'00
56,214	432	47	15	1	97'92	32'60	49'33	-74	2-12	37,934	33'15	104	'00
76,806	275	104	41	4	96'25	41'	57'89	-35	3-84	58,668	43'75	19	'01
5,880	19	...	...	...	97'87	...	47'20	-31	...	6,585	52'78		Not under registration.
5,880	19	...	...	...	97'87	...		-31	...				
208,300	1,012	585	420	7	98'38	72'06		-47	1-19	169,835	36'47	323	'07
214,149	1,031	585	420	7	98'35	72'06		-47	1-19				
20,530	114	9	6	...	90'35	69'05	21'82	-36	...	31,951	22'83	1,545	'10
5,663	37	27	14	2	97'01	56'		-62	7-40				
52,419	225	51	24	10	97'13	58'53	29'46	-41	19-60	55,825	29'20	1,405	'71
35,611	103	...	...	...	90'34	...		-26	...	32,961	17'87	297	'15
50,533	2,277	...	...	...	98'14	...		-21	...	56,022	24'21	598	'26
49,205	12	...	...	...	90'52	100'	21'74	-53	...	44,646	25'48	440	'25
88,205	12	...	...	...	90'52	80'	33'07	-61	...	80,653	30'02	586	'21
87,546	20	...	...	...	90'38	42'55	31'15	-62	...	81,633	29'08	200	'67
5,663	37	27	14	2	97'01	56'		-63	7-40				
397,369	3,018	75	40	10	98'96	61'23	27'26	-74	13-33	383,091	25'25	5,008	'34
402,972	3,053	102	54	12	98'93	60'		-74	11-76				

## STATEMENT No. I—Showing particulars of Vaccination in the

Number.	DISTRICT.	POPULATION.	Average population per square mile.	AVERAGE NUMBER OF VACCINATORS EMPLOYED THROUGHOUT THE YEAR.		TOTAL NUMBER OF PERSONS VACCINATED (INCLUDING THOSE VACCINATED BY APPRENTICES).				Average number of persons vaccinated by each vaccinator (96 minus 60 divided by 36).	PRIMARY VACCINATION.		
				a	b	Male.	Female.	Total.	Total number of persons actually vaccinated by apprentices.		Total.	Success-	
												Under one year.	One year and under six years.
1	2	3	4	5	6				7	8	9	10	
<i>Bhagalpur Division.</i>													
35	Monghyr ... .. Licensed ...	2,015,223	515	41	40	34,853	36,551	75,404	16,735	1,431	75,339	28,107	47,056
36	Bhagalpur ... .. " ...	2,007,455	476	49	42	37,560	35,594	73,154	8,745	1,314	73,106	46,071	26,544
37	Purnea ... .. " ...	1,853,116	373	31	31	34,375	31,765	66,140	20,051	1,487	64,918	40,584	21,919
38	Malda ... .. " ...	804,247	451	23	21	16,363	15,535	31,898	7,194	1,074	31,693	21,346	8,421
39	Sonthal Parganas ... .. { Paid by Local Fund. Licensed ...	1,788,015	337	3	...	3,738	1,171	3,909	...	1,954	1,413	707	561
	Total of Bhagalpur Division { Paid by Local Fund. Licensed Total ...	8,518,056	411	219	155	167,635	156,487	324,122	56,778	1,220	312,850	173,276	135,348
				221	155	170,373	157,628	328,031	56,778	1,227	314,263	173,983	135,369
<i>Orissa Division.</i>													
40	Cuttack ... .. { Paid by District Board. Licensed ...	1,984,038	548	4	...	986	897	1,883	...	471	1,806	124	1,151
				54	62	46,910	44,626	91,536	15,047	1,417	91,553	14,241	65,972
41	Balasore ... .. " ...	1,650,517	511	38	9	23,648	20,837	44,485	2,345	1,109	44,378	6,902	39,568
42	Angul ... .. " ...	191,911	114	15	...	3,002	2,793	5,795	...	286	5,305	2,623	2,195
43	Puri ... .. { Paid by District Board. Licensed ...	967,560	392	18	...	20,365	17,408	37,866	...	2,103	37,866	2,706	28,014
44	Tributary States of Orissa—Nayagarh, Narsinghpur, and Tigaria. } Paid	1,947,802	135	7	...	1,613	1,633	3,136	...	448	3,121	127	2,633
	Athmalik, Nilgiri, Daspalla, Pal-Lahara, Mayurbhanj, Ranpur, Hindol, Athgarh, Dhenkanal, Keonjhar, Boud, Talcher, Khandpara, and Baramba. } Licensed			112	...	29,076	25,199	54,275	...	464	53,601	12,716	35,504
	Total of Orissa Division { Paid by District Board. Paid by Native States. Licensed Total ...	6,142,018	233	22	...	21,354	18,395	39,749	...	1,807	39,732	2,830	29,166
				7	...	1,613	1,523	3,136	...	448	3,121	127	2,633
				219	61	102,636	93,455	196,121	17,392	816	194,837	36,542	134,230
				248	61	125,033	113,403	239,096	17,392	893	237,699	39,469	166,037
<i>Chota Nagpur Division.</i>													
45	Hazaribagh ... .. Licensed ...	1,142,139	163	46	34	24,194	22,611	44,855	6,155	884	46,845	25,861	26,647
46	Ranchi ... .. " ...	1,157,962	162	44	42	23,298	22,426	45,724	8,213	852	45,651	26,551	8,899
47	Palamau ... .. " ...	615,703	125	24	5	8,446	8,362	16,808	1,569	633	16,808	14,627	1,865
48	Manbhum ... .. " ...	1,275,025	308	30	8	23,071	22,610	45,681	2,552	1,434	45,845	28,540	17,018
49	Singhbhum ... .. " ...	604,926	153	18	10	9,642	8,582	18,224	927	961	17,342	6,288	10,627
50	Political States of Chota Nagpur—Seraikeia, Kharswan, Jashpur, Sirguja, Kores, Udai- pur, Chang Bhakar, Gang- pur, and Bona. } Licensed	1,001,429	62	57	3	22,329	20,599	42,918	437	745	35,686	22,646	12,447
	Total of Chota Nagpur Division. } Licensed	5,796,266	134	219	102	111,880	104,640	216,520	20,253	896	206,417	134,592	71,816
	Total for the Province { Paid by District Board and Local Fund. Paid by Government, &c. Licensed Total ...	74,907,143	413	37	...	29,705	24,170	53,936	...	1,428	49,635	6,865	34,036
				58	...	29,751	22,500	52,311	...	902	42,570	8,751	24,636
				3,267	1,123	1,378,942	1,255,568	2,604,510	392,551	1,046	2,606,135	908,897	1,479,112
				3,262	1,123	1,438,459	1,332,398	2,776,767	392,551	1,049	2,698,630	944,513	1,479,138

OFFICE OF THE SANTY. COMM. FOR BENGAL;

The 29th May 1905.

Districts of Bengal during the year 1904-1905—concluded.

NATION.		RE-VACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		Persons successfully vaccinated per 1,000 of population.	PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.		AVERAGE ANNUAL NUMBER OF PERSONS SUCCESSFULLY VACCINATED DURING THE PREVIOUS FIVE YEARS.		AVERAGE ANNUAL NUMBER OF DEATHS FROM SMALL-POX DURING THE PREVIOUS FIVE YEARS.	
TOTAL OF ALL AGES.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
11	12	13	14	15	16	17	18	19	20	21	22	23	24
75,274	40	65	54	...	99'96	83'07	37'37	'05	...	62,635	31'08	796	'39
72,967	2	48	39	...	99'81	84'78	36'36	'002	4'16	71,970	35'40	463	'24
63,003	21	1,222	292	...	97'08	23'89	34'15	'03	...	61,479	33'17	299	'14
30,868	127	205	151	6	97'78	75'87	36'31	'40	2'92	28,722	33'02	54	'06
1,492	2	2,406	1,729	139	99'36	73'35	...	'14	5'36	...	...	...	...
67,288	212	9,732	6,223	60	99'56	64'34	45'86	'31	'61	71,348	39'90	980	'55
1,402	2	2,406	1,729	139	99'36	73'35	...	'14	5'36	...	...	...	...
399,400	462	11,272	6,729	68	99'02	60'32	37'48	'12	'60	295,254	34'06	2,582	'30
310,892	404	13,768	8,488	207	99'02	62'50	...	'12	1'50	...	...	...	...
1,708	34	17	7	9	93'23	87'66	...	1'82	02'94	...	...	...	...
87,894	1,394	13	10	...	97'48	76'92	45'17	1'52	...	53,063	26'74	4,394	2'17
43,620	83	107	84	23	98'47	100	41'61	'18	21'40	38,695	36'84	982	'93
4,849	167	450	426	36	94'37	93'83	27'48	3'14	7'34	5,783	30'13	Not under registration.	...
36,768	257	...	...	...	97'76	...	37'98	'67	...	31,592	32'80	1,921	1'97
3,077	1	15	15	...	98'02	100	...	'03	...	...	...	...	...
92,311	425	674	574	55	98'37	92'73	35'73	'79	8'16	38,371	19'09	Not under registration.	...
38,476	211	17	7	9	97'55	87'59	...	'73	02'94	...	...	...	...
2,077	1	15	15	...	98'02	100	37'66	'03	...	167,464	27'20	6,807	1'11
188,674	2,069	1,264	1,094	114	97'87	93'59	...	1'06	8'87	...	...	...	...
230,237	2,341	1,316	1,116	123	97'83	93'54	...	'99	9'34	...	...	...	...
46,810	1	10	10	...	99'92	100	40'99	'002	...	37,023	32'41	271	'25
45,592	139	73	46	...	96'97	63'01	39'23	'30	...	41,189	35'57	217	'18
16,593	46	...	...	...	98'46	...	26'49	'27	...	14,964	24'38	633	1'91
45,737	...	136	83	...	99'74	61'93	35'92	...	...	38,328	39'06	670	'52
17,310	72	842	749	...	99'42	87'68	29'67	'41	...	18,733	30'96	655	1'97
33,646	62	7,042	6,250	187	99'50	91'17	41'63	'17	2'65	31,628	32'58	Not under registration.	...
397,400	330	8,163	7,129	187	99'05	90'05	37'01	'15	2'30	182,865	31'55	2,744	'47
47,977	338	4,401	2,565	234	97'02	61'55	...	'68	5'31	...	...	...	...
40,107	851	2,741	4,453	1,391	96'13	83'97	36'01	1'99	14'27	2,353,956	31'45	30,743	'41
2,563,223	14,997	97,983	35,996	1,251	98'90	83'55	...	'57	3'32	...	...	...	...
2,661,307	16,186	71,127	42,984	2,976	98'84	82'15	...	'59	4'12	...	...	...	...

W. W. CLEMESHA, M.D., D.P.H.,  
 CAPTAIN, I.M.S.,  
 Off. Sanitary Commissioner for Bengal.

## STATEMENT No. II—Showing the cost of Vaccination in the

Number.	CIRCLE AND DISTRICT.	EXPEN												
		European supervising officers.	Pay.	Native supervising officers.	Pay.	Paid vaccinators.	Pay.	Licensed vaccinators.	Pay.	Clerks.	Pay.	Pecuns, &c.	Pay.	Total pay of establishment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	<i>Burdwan Division.</i>		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.	
1	Burdwan ... ..		...	5	1,020 0 0	10	60 2 0	40	...	...	...	...	...	1,680 2 2
2	Birbhum ... ..		...	3	932 0 0	1	30 0 0	38	163 0 0*	...	...	...	...	1,125 0 0
3	Bankura ... ..		...	3	1,024 14 0	...	...	37	100 0 0*	...	...	...	...	1,124 14 0
4	Midnapore ... ..		...	7	2,153 13 0	...	...	120	84 12 0*	...	...	...	...	2,158 0 0
5	Hoochly ... ..		...	4	1,200 0 0	...	...	43	36 0 0*	...	...	...	...	1,286 0 0
6	Howrah ... ..		...	3	1,020 0 0	...	...	24	...	...	...	...	...	1,020 0 0
	<i>Presidency Division.</i>													
7	24-Parganas ... ..		...	7	2,330 0 0	...	...	39	...	...	...	...	...	2,330 0 0
8	Calcutta Bovine Vaccine Depôt.		...	1	1,500 0 0	(a)3	708 0 0	...	...	...	...	11	1,068 0 0	2,216 0 0
9	Calcutta ... ..		...	7	...	28	...	...	...	...	...	...	...	Figures not
10	Nadia ... ..		...	6	1,455 11 3	...	...	32	...	...	...	...	...	1,455 11 3
11	Murshidabad ... ..		...	5	1,020 0 0	...	...	32	72 0 0*	...	...	...	...	1,092 0 0
12	Jessore ... ..		...	6	1,300 0 0	...	...	108	...	...	...	...	...	1,500 0 0
13	Khulna ... ..		...	4	1,200 0 0	...	...	41	...	...	...	...	...	1,200 0 0
	<i>Rajshahi Division.</i>													
13	Rajshahi ... ..		...	4	1,400 0 0	...	...	72	18 0 0*	...	...	...	...	1,418 0 0
14	Dinajpur ... ..		...	3	1,068 6 2	...	...	65	105 8 0*	...	...	...	...	1,114 14 2
15	Jalpaiguri ... ..		...	3	910 0 0	...	...	48	118 4 0*	...	...	...	...	1,028 4 0
16	Darjeeling ... ..		...	3	1,078 8 8	(b)11	1,034 4 4	...	...	...	...	...	...	2,112 13 0
17	Darjeeling Bovine Vaccine Depôt.		...	1	876 2 4	2	324 4 6	...	...	...	...	7	680 4 8	1,889 11 6
18	Rangpur ... ..		...	5	1,020 0 0	...	...	65	467 0 0*	...	...	...	...	2,077 0 0
19	Bogra ... ..		...	2	620 0 0	5	174 7 5	31	14 4 0*	...	...	...	...	848 11 5
20	Fabna ... ..		...	3	564 4 9	...	...	47	179 8 0*	...	...	...	...	1,143 12 9
	<i>Dacca Division.</i>													
20	Dacca ... ..		...	5	1,500 13 4	...	...	87	...	...	...	...	...	1,560 13 4
21	Mymensingh ... ..		...	6	1,980 0 0	...	...	171	...	...	...	...	...	1,980 0 0
22	Paridpur ... ..		...	4	1,380 0 0	...	...	73	7 8 0*	...	...	...	...	1,387 8 0
23	Backergunge ... ..		...	5	1,681 11 7	...	...	116	105 4 0*	...	...	...	...	1,787 15 7
	<i>Chittagong Division.</i>													
24	Tippera ... ..		...	4	1,200 0 0	...	...	64	...	...	...	...	...	1,260 0 0
25	Noakhali ... ..		...	3	985 0 0	...	...	62	...	...	...	...	...	985 0 0
26	Chittagong ... ..		...	3	574 11 7	...	...	70	...	...	...	...	...	574 11 7
27	Chittagong Hill Tracts		...	3	1,440 0 0	9	877 11 8	...	...	...	...	...	...	2,317 11 8
	<i>Patna Division.</i>													
28	Patna ... ..		...	5	1,605 0 9	...	...	124	...	...	...	...	...	1,605 0 9
29	Gaya ... ..		...	5	1,520 0 0	5	432 0 0	94	...	...	...	...	...	1,952 0 0
30	Shahabad ... ..		...	5	1,645 0 5	...	...	129	287 8 0*	...	...	...	...	1,932 8 5
31	Saran ... ..		...	4	1,124 8 3	...	...	120	169 12 0*	...	...	...	...	1,294 4 3
32	Champanan ... ..		...	3	951 19 7	...	...	90	168 8 0*	...	...	...	...	1,120 3 7
33	Muzaffarpur ... ..		...	4	1,380 0 0	...	...	106	...	...	...	...	...	1,380 0 0
34	Darbhanga ... ..		...	4	1,200 0 0	...	...	106	72 12 0*	...	...	...	...	1,332 12 0
	<i>Bhagalpur Division.</i>													
35	Meerghur ... ..		...	4	1,213 5 4	...	...	81	...	...	...	...	...	1,213 5 4
36	Bhagalpur ... ..		...	5	1,616 0 0	...	...	91	219 4 0*	...	...	...	...	1,835 4 0
37	Purnea ... ..		...	4	1,279 8 0	...	...	62	...	...	...	...	...	1,279 8 0
38	Malda ... ..		...	2	720 0 0	...	...	44	...	...	...	...	...	720 0 0
39	Sonthal Parganas ... ..		...	7	2,210 2 2	2	159 11 10	96	144 12 0*	...	...	...	...	2,514 13 0
	<i>Orissa Division.</i>													
40	Cuttack ... ..		...	4	1,210 7 11	4	372 0 0	106	...	...	...	...	...	1,582 7 11
41	Balasore ... ..		...	3	810 0 0	...	...	47	...	...	...	...	...	810 0 0
42	Angul ... ..		...	3	949 5 2	...	...	15	...	...	...	...	...	949 5 2
43	Puri ... ..		...	3	1,619 4 10	18	1,728 0 0	...	...	...	...	...	...	2,728 4 10
44	Tributary States of Orissa.		...	9	1,945 6 0	(c)13	457 1 0	112	102 0 0*	...	...	...	...	2,504 7 0
	<i>Chota Nagpur Division.</i>													
45	Hazaribagh ... ..		...	4	1,320 0 0	...	...	80	...	...	...	...	...	1,320 0 0
46	Kanchi ... ..		...	3	960 0 0	...	...	84	...	...	...	...	...	960 0 0
47	Palaman ... ..		...	2	763 11 4	...	...	29	...	...	...	...	...	763 11 4
48	Manbhum ... ..		...	3	961 8 0	...	...	38	...	...	...	...	...	961 8 0
49	Singbhum ... ..		...	2	720 0 0	...	...	25	...	...	...	...	...	720 0 0
50	Political States of Chota Nagpur.		...	4	1,567 7 9	...	...	60	...	...	...	...	...	1,567 7 9
	<b>Total of Vaccination Circles ... ..</b>			210	66,940 11 0	113	6,357 10 11	3,380	2,617 8 0*	...	...	18	1,607 4 8	77,622 2 7
	<b>Establishment of Deputy Sanitary Commissioners—</b>													
	<b>Metropolitan and Eastern Bengal Circle ... ..</b>	1	8,236 6 3	...	...	...	...	...	...	2	704 13 4	2	120 0 0	9,031 3 7
	<b>Northern Bengal Circle ... ..</b>	1	6,607 3 0	...	...	...	...	...	...	2	900 0 0	2	168 0 0	7,795 3 0
	<b>Western Bengal Circle ... ..</b>	1	7,207 6 5	...	...	...	...	...	...	2	682 6 7	2	144 0 0	8,193 13 0
	<b>Total ... ..</b>	3	22,050 15 8	...	...	...	...	...	...	6	2,317 3 11	6	432 0 0	25,060 3 7
	<b>Total for the Province ... ..</b>	3	22,500 15 8	210	66,940 11 0	103	6,357 10 11	3,380	2,617 8 0*	6	2,317 3 11	24	2,129 4 8	1,02,672 6 2
	<b>Municipalities ... ..</b>	...	...	7	1,728 0 0	(d)208	17,429 1 7	...	...	2	240 0 0	8	404 9 10	19,801 11 5
	<b>GRAND TOTAL ... ..</b>	3	22,500 15 8	217	68,677 11 0	311	23,786 12 6	(e)3,380	2,617 8 0*	8	2,557 3 11	32	2,533 14 6	1,22,474 1 7

\* Deputation allowance paid to licensed vaccinators  
† This includes Rs. 405-5-9 spent by Civil Surgeons  
(a) In Calcutta Bovine Vaccine Depôt 3 includes  
(b) In Darjeeling 11 includes 1 head-vaccinator and  
(c) In the Tributary States of Orissa 13 includes  
(d) In metassal municipalities 208 includes 1 head-  
(e) This includes 1,123 apprentices.

## districts of Bengal during the year 1904-1905.

DITURN.				PAID FROM—						Number of all successful vaccinations and re-vaccinations.	Average cost of each successful case.
Travelling allowance,	Contingencies.		Total cost.	Imperial fund.	Provincial fund.	Local fund.	Municipalities.	Native States.	Total.		
	Cost of lymph.	Other contingencies.									
16	17	18	19	20	21	22	23	24	25	26	27
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.
652 4 9	...	193 1 0	2,525 7 11	...	2,405 5 9	60 2 2	...	...	2,825 7 11	49,687	0 0 9
508 14 0	...	52 11 0	1,686 9 0	...	1,686 9 0	30 0 0	...	...	1,686 9 0	37,022	0 0 8
978 3 6	...	55 0 0	2,128 1 11	...	2,058 1 11	100 0 0	...	...	2,158 1 11	45,335	0 0 9
1,396 5 6	76 14 0	125 0 0	3,786 12 11	...	3,709 14 11	76 14 0	...	...	3,786 12 11	104,478	0 0 6
1,075 7 0	43 8 3	59 15 6	2,464 14 9	...	2,421 6 6	43 8 3	...	...	2,464 14 9	25,352	0 1 6
506 10 0	148 11 0	60 15 0	1,533 4 0	...	1,686 9 0	148 11 0	...	...	1,835 4 0	20,670	0 1 5
2,474 7 0	...	175 9 0	4,980 0 0	...	4,980 0 0	...	...	...	4,980 0 0	63,024	0 1 3
...	...	5,962 2 9	9,208 2 9	...	9,208 2 9	...	...	...	9,208 2 9	1,419	...
furnished.	...	...	...	...	...	...	...	...	...	19,937	...
1,307 12 6	...	48 9 0	3,272 0 9	...	3,272 0 9	...	...	...	3,272 0 9	55,485	0 0 11
644 12 6	29 8 0	168 10 0	2,562 14 6	...	2,503 6 6	59 8 0	...	...	2,562 14 6	35,612	0 1 0
705 1 0	...	100 0 8	2,795 1 0	...	2,795 1 0	...	...	...	2,795 1 0	51,095	0 0 10
1,099 12 0	...	80 0 0	2,439 12 0	...	2,439 12 0	...	...	...	2,439 12 0	36,668	0 1 0
553 3 3	...	57 10 6	2,008 13 9	...	1,900 13 9	18 0 0	...	...	2,008 13 9	47,827	0 0 8
686 13 0	...	79 15 6	1,881 10 8	...	1,881 10 8	...	...	...	1,881 10 8	40,970	0 0 8
630 7 9	...	68 15 6	1,737 11 3	...	1,737 11 3	...	...	...	1,737 11 3	22,966	0 1 2
2,678 5 6	...	50 9 0	4,841 11 6	...	4,841 11 6	...	...	...	4,841 11 6	14,126	0 5 5
649 12 0	...	804 10 0	3,344 1 6	...	3,344 1 6	...	...	...	3,344 1 6	77	...
1,965 11 9	...	75 0 0	3,157 11 9	...	3,157 11 9	...	...	...	3,157 11 9	63,978	0 0 9
446 14 6	...	85 0 0	1,389 9 11	...	1,389 9 11	174 7 5	...	...	1,389 9 11	23,852	0 0 11
1,107 4 6	...	50 0 0	2,391 1 3	...	2,391 1 3	...	...	...	2,391 1 3	41,770	0 0 10
1,707 13 6	290 0 0	190 0 0	3,658 10 10	...	3,458 10 10	200 0 0	...	...	3,658 10 10	191,138	0 0 6
1,146 5 6	...	99 15 6	3,236 5 0	...	3,226 5 0	...	...	...	3,236 5 0	150,702	0 0 3
1,718 4 0	...	274 10 6	3,389 6 6	...	3,189 6 6	200 0 0	...	...	3,389 6 6	122,027	0 0 5
2,778 8 6	...	100 0 0	4,666 8 1	...	4,666 8 1	...	...	...	4,666 8 1	125,276	0 0 7
899 12 11	...	60 0 0	2,219 12 11	...	2,219 12 11	...	...	...	2,219 12 11	75,644	0 0 5
629 15 3	...	80 0 0	1,757 15 3	...	1,757 15 3	...	...	...	1,757 15 3	56,329	0 0 6
269 13 6	...	50 0 0	1,394 9 1	...	1,394 9 1	...	...	...	1,394 9 1	76,847	0 0 3
839 2 0	...	30 0 0	3,186 13 8	...	3,186 13 8	...	...	...	3,186 13 8	5,889	0 8 7
796 0 6	...	69 9 0	2,470 10 3	...	2,470 10 3	...	...	...	2,470 10 3	29,536	0 1 3
1,028 9 3	...	60 0 0	3,040 0 3	...	3,040 0 3	432 0 0	...	...	3,040 0 3	58,120	0 0 10
1,154 4 8	...	179 3 6	3,270 0 7	...	3,176 0 7	104 0 0	...	...	3,270 0 7	38,611	0 1 4
361 10 0	...	160 0 0	1,755 14 3	...	1,755 14 3	...	...	...	1,755 14 3	59,833	0 0 6
410 10 6	...	65 3 0	1,596 0 1	...	1,596 0 1	...	...	...	1,596 0 1	40,208	0 0 6
642 0 6	...	74 0 3	2,096 0 9	...	2,096 0 9	...	...	...	2,096 0 9	83,209	0 0 4
796 4 3	...	55 12 0	2,174 12 3	...	2,174 12 3	...	...	...	2,174 12 3	87,599	0 0 4
799 14 0	...	54 10 0	2,067 13 4	...	2,067 13 4	...	...	...	2,067 13 4	75,328	0 0 5
340 3 0	...	95 0 0	2,879 9 0	...	2,879 9 0	...	...	...	2,879 9 0	73,006	0 0 7
829 7 0	...	54 0 0	2,232 15 0	...	2,232 15 0	...	...	...	2,232 15 0	63,296	0 0 6
747 6 0	...	35 0 0	1,502 6 0	...	1,502 6 0	...	...	...	1,502 6 0	31,019	0 0 9
1,196 1 6	...	80 0 0	3,790 14 6	...	3,631 2 8	159 11 10	...	...	3,790 14 6	76,042	0 0 9
725 11 0	...	120 0 0	2,426 2 11	...	2,024 2 11	392 0 0	...	...	2,426 2 11	80,619	0 0 5
508 11 0	...	40 0 0	1,448 11 0	...	1,448 11 0	...	...	...	1,448 11 0	43,704	0 0 6
462 9 0	...	34 13 9	1,446 11 11	...	1,446 11 11	...	...	...	1,446 11 11	5,275	0 4 5
613 2 0	...	70 0 0	3,421 6 10	...	1,693 6 10	1,728 0 0	...	...	3,421 6 10	36,768	0 1 6
...	...	...	2,504 7 0	...	...	...	...	2,504 7 0	2,504 7 0	55,977	0 0 8
700 0 0	...	77 0 9	2,697 0 9	...	2,697 0 9	...	...	...	2,697 0 9	46,820	0 0 8
483 8 0	...	35 0 0	1,478 8 0	...	1,478 8 0	...	...	...	1,478 8 0	45,548	0 0 6
331 14 6	...	48 0 0	1,143 15 10	...	1,143 15 10	...	...	...	1,143 15 10	16,565	0 1 1
940 14 6	...	49 0 0	1,931 6 6	...	1,931 6 6	...	...	...	1,931 6 6	45,810	0 0 8
687 1 6	...	75 0 0	1,482 1 6	...	1,482 1 6	...	...	...	1,482 1 6	17,350	0 1 3
637 10 9	...	...	3,225 1 9	...	304 1 2	...	...	1,921 0 7	2,225 1 9	41,896	0 0 10
45,489 14 10	528 9 3	10,717 10 0 <sup>1</sup>	1,34,358 4 8	...	1,25,009 14 5	3,922 14 8	...	4,425 7 7	1,34,358 4 8	2,694,291	0 0 9
1,812 2 3	...	500 0 0	11,373 5 10	...	11,373 5 10	...	...	...	11,373 5 10	...	...
2,540 10 9	...	938 14 9	11,274 12 6	...	11,274 12 6	...	...	...	11,274 12 6	...	...
2,274 10 9	...	650 0 9	11,118 8 6	...	11,118 8 6	...	...	...	11,118 8 6	...	...
6,627 7 9	...	2,688 15 6	33,766 10 10	...	33,766 10 10	...	...	...	33,766 10 10	...	...
52,117 6 7	528 9 3	12,896 9 6	1,68,124 15 6	...	1,59,776 9 3	3,922 14 8	...	4,425 7 7	1,68,124 15 6	2,694,291	0 0 11
...	673 0 3	1,598 8 0	22,073 3 8	...	...	338 8 0	21,574 11 8	160 0 0	22,073 3 8	110,235	0 3 2
52,117 6 7	1,201 9 6	14,405 1 6	1,90,198 3 2	...	1,80,776 9 3	4,261 6 8	21,574 11 8	4,585 7 7	1,90,198 3 2	2,894,526	0 1 1

for small-pox duty during recess.  
during the past vaccination season on account of antiseptic vaccination  
1 head-vaccinator.  
2 temporary vaccinators.  
6 head-vaccinators.  
vaccinator.

W. W. CLEMESHA, M.D., D.P.H.,  
CAPTAIN, I.M.S.,

Off. Sanitary Commissioner for Bengal.

STATEMENT No. III.—Showing particulars of Vaccination performed by Vaccinators attached to Municipalities, Dispensaries, &c., in the Province of Bengal, during the year 1904-1905.

DISTRICT.	Number of municipalities, dispensaries, &c., in each district to which a vaccinator is attached.	Average number of vaccinators attached to municipalities, dispensaries, &c., during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	PRIMARY VACCINATION.					REVACCINATION.			PERCENTAGE OF SUCCESSFUL CASES IN WHICH THE RESULTS WERE KNOWN.		PERCENTAGE OF UNKNOWN CASES TO TOTAL CASES.	
					Total.	Successful.			Unknown.	Total.	Successful.	Unknown.	Primary.	Revaccination.	Primary.	Revaccination.
						Under one year.	One and under 6 years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Burdwan	6	6	3,715	619	3,143	1,521	1,171	3,022	43	672	362	44	98-77	68-56	1-36	7-69
Birbhum	1	1	567	567	260	137	78	241	7	307	157	64	95-25	64-60	2-00	20-84
Baekura	3	3	2,148	716	1,392	555	588	1,153	...	946	196	47	95-92	21-80	...	4-26
Midnapore	7	8	3,783	473	2,520	916	1,465	2,724	48	953	613	53	97-91	68-11	1-09	5-26
Hooghly	3	6	3,881	431	3,012	1,254	1,506	2,975	13	869	417	25	99-19	51-22	-43	6-32
Howrah	3	6	4,575	763	4,094	2,043	1,877	4,021	41	884	172	53	96-21	39-90	1-09	10-96
24 Parganas	27	31	12,831	446	12,286	6,579	5,871	13,079	16	536	198	6	98-66	37-56	...	1-11
Nadia	9	10	4,793	479	4,298	1,768	2,283	4,190	57	525	427	34	99-50	86-94	1-33	6-47
Murshidabad	5	6	3,254	559	3,007	807	1,829	2,921	36	298	215	44	96-69	84-64	1-17	14-76
Jessore	3	3	1,401	467	717	311	355	701	7	684	454	82	98-73	75-41	-97	11-88
Khulna	3	3	782	261	678	415	237	676	...	194	42	17	99-70	48-27	...	16-24
Rajshahi	3	3	1,946	649	1,299	707	433	1,184	17	737	464	4	99-32	63-39	1-40	-54
Dinajpur	1	1	450	450	211	58	131	301	1	239	205	13	95-71	90-70	-47	5-43
Jalpaiguri	1	1	664	664	267	101	128	244	12	197	77	27	95-68	45-29	4-40	13-78
Darjeeling	2	2	2,598	1,294	1,751	424	201	1,417	185	757	412	135	99-68	66-23	10-55	17-83
Rangpur	1	1	832	832	441	470	125	126	465	412	786	...	98-33	45-14	...	...
Bogra	2	2	636	303	383	116	224	372	4	222	163	13	98-18	49-28	...	...
Pabna	2	2	1,774	887	1,096	495	569	1,046	17	688	144	102	97-84	54-57	1-94	5-85
Dacca	6	6	6,529	1,088	3,644	1,139	1,862	3,501	35	2,885	1,650	99	97-09	59-22	...	14-82
Mymensingh	8	8	4,548	568	3,000	992	1,156	2,706	111	1,548	918	148	95-74	65-67	3-70	3-43
Faridpur	2	2	2,281	1,140	1,736	330	496	1,636	9	545	203	35	94-73	39-89	-51	6-42
Backergunge	5	5	2,703	541	2,369	319	534	1,801	417	344	77	58	92-73	26-92	17-67	16-85
Tippura	3	3	1,692	565	1,613	637	655	1,497	69	82	57	6	96-39	75-00	3-71	7-31
Neakhal	1	1	537	537	381	48	87	232	30	156	53	11	98-34	36-58	7-87	7-05
Chittagong	2	2	1,921	960	1,650	154	1,531	1,492	64	371	179	89	94-34	61-51	4-12	21-56
Patna	5	13	7,758	595	7,207	4,136	2,736	6,943	140	531	220	42	98-24	44-98	1-94	7-90
Gaya	6	8	4,800	538	3,508	2,161	924	3,196	244	861	468	137	97-91	61-44	0-95	17-10
Shahabad	6	7	3,385	483	2,968	1,623	1,042	2,730	32	517	333	80	98-37	76-29	1-11	13-47
Saran	2	3	2,539	666	2,551	1,362	993	2,316	128	779	477	151	95-58	75-95	6-01	19-38
Champanan	4	6	1,950	490	1,708	1,094	318	1,637	8	242	196	...	98-05	80-99	-46	...
Monsarrapur	4	6	3,254	543	2,694	1,402	1,068	2,463	5	694	435	...	97-42	62-68	-19	...
Darbhanga	5	8	3,708	463	3,169	1,938	1,045	3,169	15	535	401	9	98-60	76-23	-47	1-68
Monohpur	2	4	3,229	807	2,483	1,383	1,612	3,104	11	696	402	102	99-42	67-67	-35	14-65
Bhagalpur	2	3	4,612	1,531	2,483	1,916	472	2,445	7	2,109	1,230	154	98-74	62-92	-25	7-39
Purnea	2	2	906	452	64	299	172	521	11	321	97	13	90-92	31-69	1-88	4-67
Maldah	3	3	872	293	617	323	191	695	...	262	81	21	98-05	33-61	...	8-01
Southern Parganas	3	3	1,242	414	1,017	556	395	1,005	...	325	134	29	98-82	68-35	...	12-88
Cuttack	3	6	4,794	841	3,797	1,454	1,762	3,440	211	897	747	214	98-39	95-40	5-09	21-46
Balassore	1	1	1,559	1,559	875	454	381	827	11	675	487	95	95-71	83-95	1-25	14-07
Puri	1	1	3,163	3,163	1,329	490	1,840	3,101	2	24	15	2	98-85	68-13	-96	8-33
Hazaribagh	3	3	1,853	618	1,182	924	224	1,161	...	596	310	6	98-22	61-87	...	-98
Ranchi	2	2	2,165	1,082	1,288	473	495	1,391	...	877	299	...	97-90	45-49	...	...
Palaman	1	1	503	503	259	162	28	359	1	143	121	2	97-76	85-81	-27	1-29
Manbhum	3	3	1,639	545	813	614	124	769	17	823	317	156	96-60	50-47	2-09	23-69
Singhbhum	1	1	955	955	399	302	24	383	...	556	401	46	95-89	78-62	...	8-27
Total	167	207	127,150	614	92,376	45,035	40,476	95,043	2,073	27,774	15,195	2,529	97-67	69-17	2-08	9-10

OFFICE OF THE SANY. COMM. FOR BENGAL, }

The 20th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,

CAPTAIN, I.M.S.,

Offg. Sanitary Commissioner, Bengal.

1911		1912		1913		1914		1915		Total
Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	Actual	Estimated	
100	100	100	100	100	100	100	100	100	100	500
200	200	200	200	200	200	200	200	200	200	1000
300	300	300	300	300	300	300	300	300	300	1500
400	400	400	400	400	400	400	400	400	400	2000
500	500	500	500	500	500	500	500	500	500	2500
600	600	600	600	600	600	600	600	600	600	3000
700	700	700	700	700	700	700	700	700	700	3500
800	800	800	800	800	800	800	800	800	800	4000
900	900	900	900	900	900	900	900	900	900	4500
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	5000

**COMPARATIVE STATEMENT No IV.**



COMPARATIVE STATEMENT No. IV—Showing the number of persons primarily of the undermen

ESTABLISHMENT.	PERSONS PRIMARILY									
	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.
	1895-96.		1896-97.		1897-98.		1898-99.		1899-1900.	
	1	2	3	4	5	6	7	8	9	10
Government ...	39,150	33,310	32,706	32,150	31,702	29,965	27,865	27,577	27,531	27,716
Municipal ...	96,205	89,705	104,738	98,566	99,914	94,523	89,423	85,235	97,869	91,979
Local Funds ...	69,387	64,843	61,448	59,995	57,764	55,732	32,600	31,707	42,738	46,883
Native States ...	11,820	10,767	9,318	8,328	13,139	15,457	14,043	12,956	6,688	5,996
Dispensaries ...	4,751	4,188	5,350	4,554	4,963	4,295	4,513	* 3,523	4,001	3,105
Work done by licensed vaccinators.	2,015,528	1,978,668	2,009,568	1,973,312	2,035,611	1,998,137	1,918,832	1,854,646	2,024,757	1,982,146
Total ...	2,237,832	2,179,900	2,223,128	2,176,815	2,243,693	2,195,599	2,087,285	2,045,354	2,203,964	2,152,824

OFFICE OF THE SANY. COMMR. FOR BENGAL ; }  
 The 29th May 1905.

vaccinated and the number of those persons who were successfully vaccinated in each lioned official years.

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.
1900-1901.		1901-1902.		1902-1903.		1903-1904.		1904-1905.	
12	13	14	15	16	17	18	19	20	21
25,506	26,186	27,769	27,336	17,386	17,739	17,018	16,893	19,105	18,978
194,636	199,218	112,219	107,946	103,568	97,864	111,019	101,661	114,309	108,363
44,344	42,757	56,509	54,753	99,459	87,708	60,240	58,547	52,869	50,688
11,514	10,749	6,636	6,454	4,428	4,205	4,503	4,309	3,121	3,077
5,923	4,560	5,525	5,022	5,101	4,438	5,104	4,602	2,176	2,686
2,036,320	1,993,447	2,321,138	2,278,003	2,370,005	2,331,248	2,436,679	2,396,654	2,606,525	2,563,123
2,227,942	2,177,917	2,529,778	2,479,564	2,509,177	2,543,281	2,634,563	2,566,726	2,798,606	2,740,359

W. W. CLEMESHA, M.D., D.P.H.,  
CAPTAIN, I.M.S.,  
*Offg. Sanitary Commissioner for Bengal.*

STATEMENT No. V.—Showing particulars of Vaccination

DISTRICT.	TOTAL NUMBER OF PERSONS VACCINATED.		TOTAL NUMBER INSPECTED								PERCENTAGE OF INSPEC			
			BY DEPUTY SANITARY COMMISSIONERS OR CIVIL SURGEONS.				BY NATIVE SUPERINTENDENTS OR OTHER INSPECTING OFFICERS.				BY DEPUTY SANITARY COMMISSIONERS OR CIVIL SURGEONS.			
			Deputy Sanitary Commissioners.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.		Deputy Sanitary Commissioners.		Civil Surgeons.	
			Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.	Primary.	Revaccination.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Burdwan ...	32,392	1,689	...	...	2,760	322	26,139	785	43,043	217	...	...	5'26	12'06
Birbhum ...	36,926	1,662	...	...	5,069	47	19,889	492	29,895	663	...	...	15'35	4'42
Bankura ...	44,534	9,176	...	...	5,967	265	22,628	647	29,774	3,015	...	...	13'39	2'88
Midnapore ...	107,448	2,371	...	...	2,048	19	46,625	671	94,289	840	...	...	1'90	'42
Hoochly ...	17,922	769	...	...	3,431	647	13,564	31	14,770	12	...	...	12'14	85'13
Serampore ...	19,839	123	...	...	1,739	...	...	...	9,569	87	...	...	15'98	...
Howrah ...	24,899	499	...	...	412	...	(a) 13,525	256	(c) 22,760	294	...	...	1'85	...
24-Parganas ...	76,335	536	...	...	3,860	1	(b) 21,495	296	(d) 28,486	311	...	...	5'04	'18
Calcutta ...	20,283	4,077	...	...	...	...	29,407	42	53,254	110	...	...	...	...
Calcutta Vaccine Depôt.	391	3,461	...	...	...	...	15,461	3,247	...	...	...	...	...	...
Nadia ...	59,541	1,320	...	...	8,192	65	33,599	192	51,367	668	...	...	13'75	4'01
Murshidabad ...	41,543	913	...	...	2,679	299	27,662	110	35,483	513	...	...	6'44	22'39
Jessore ...	52,005	892	...	...	2,153	529	13,951	412	24,468	424	...	...	4'13	61'36
Khulna ...	37,399	399	...	...	2,962	33	12,917	19	24,738	63	...	...	7'92	11'99
Kajshahi ...	49,159	791	...	...	4,676	705	19,978	49	33,773	352	...	...	9'51	89'26
Dinajpur ...	54,539	8,018	...	...	1,122	1,288	17,699	4,557	25,099	7,029	...	...	3'24	19'89
Jalpaiguri ...	32,157	853	...	...	705	182	15,551	274	17,425	267	...	...	3'94	21'33
Darjeeling ...	14,599	3,045	56	...	1,722	121	8,157	1,175	9,759	1,268	38	...	11'93	4'95
Rangpur ...	62,951	4,958	244	273	4,956	549	31,894	1,329	54,568	2,184	58	5'59	7'87	11'97
Bogra ...	22,893	2,077	...	...	4,341	...	12,974	632	19,293	449	...	...	19'03	...
Pabna ...	43,828	2,087	...	...	11,139	573	27,967	589	35,979	816	...	...	25'29	27'55
Dacca ...	103,641	10,599	2,274	20	4,596	1,505	24,435	2,311	(e) 75,374	6,145	2'19	'19	4'43	14'59
Mymensingh ...	166,539	2,655	...	...	2,743	716	53,194	81	116,161	349	...	...	1'94	35'32
Faridpur ...	123,891	1,477	1,399	...	4,259	322	45,294	812	51,596	684	1'95	...	3'44	21'76
Backergunge ...	135,349	395	1,519	6	149	174	56,983	71	163,656	139	1'12	1'51	'10	44'95
Tippera ...	77,723	516	...	...	937	...	21,794	84	44,995	225	...	...	1'59	...
Nonkhali ...	58,477	293	...	...	2,249	...	17,623	...	33,723	...	...	...	3'85	...
Chittagong ...	79,298	475	...	...	718	272	18,237	178	35,134	294	...	...	'99	57'24
Chittagong Hill Tracts.	6,059	...	...	...	1,623	...	3,621	...	4,699	...	...	...	16'94	...
Patea ...	38,944	549	567	...	103	532	16,612	...	25,424	...	1'49	...	'27	61'48
Gaya ...	63,579	879	...	...	4,698	492	23,281	...	46,472	82	...	...	7'81	51'42
Shahabad ...	41,838	317	85	...	3,470	...	16,224	...	30,326	...	'20	...	8'39	...
Saran ...	56,624	779	...	...	6,294	477	16,428	477	28,169	478	...	...	9'19	61'23
Champaran ...	51,416	245	368	...	12,147	216	15,923	...	21,989	...	'71	...	23'62	88'16
Muzaffarpur ...	51,291	659	181	...	7,292	655	46,548	52	73,288	55	'19	...	7'29	90'34
Darbhanga ...	51,238	542	...	...	3,996	455	46,517	...	77,864	2	...	...	9'85	89'48
Meerghyr ...	78,472	761	3,531	...	4,275	571	38,093	...	(f) 69,859	169	4'49	...	5'44	75'03
Bhagalpur ...	75,589	2,157	2,749	...	3,488	...	45,154	82	89,999	48	3'62	...	4'61	...
Purnea ...	65,562	1,543	...	...	632	163	32,318	...	51,778	356	...	...	'96	6'67
Malda ...	32,219	467	397	...	7,029	286	17,696	15	26,477	5	1'22	...	21'72	61'24
Sonthal Parganas ...	70,224	12,453	9,407	6	7,166	61	21,541	3,718	53,150	6,959	13'29	'94	10'29	'48
Cuttack ...	97,126	1,627	187	10	1,467	...	34,669	69	47,728	17	'19	'97	1'53	...
Balasore ...	45,235	782	112	...	1,093	472	28,621	48	33,922	194	'34	...	2'41	66'35
Angul ...	5,395	499	3,049	...	759	...	3,092	52	3,989	375	57'47	...	14'13	...
Puri ...	41,965	24	...	...	4,453	24	17,939	24	31,968	10	...	...	10'85	100'
Tributary States of Orissa.	56,722	689	4,800	...	...	...	...	...	14,079	...	7'14	...	...	...
Hazaribagh ...	48,027	516	...	...	1,589	329	20,989	...	35,637	7	...	...	5'28	62'01
Ranchi ...	46,939	951	...	...	4,254	...	17,643	...	24,082	...	...	...	8'12	...
Palaman ...	17,167	143	...	...	2,154	...	5,693	...	6,999	...	...	...	12'54	84'51
Manbhum ...	46,653	959	...	...	3,328	653	24,599	195	39,714	4	...	...	7'28	71'22
Singbhum ...	17,781	1,398	...	...	6,743	899	12,231	733	12,129	791	...	...	37'92	57'82
Political States of Chota Nagpur.	35,886	7,042	...	...	...	...	17,043	2,687	17,848	249	...	...	...	...
Total for the Province.	2,798,966	89,991	30,667	315	177,487	14,875	1,161,153	27,132	1,931,577	37,961	1'97	'21	6'34	14'88

(a) and (b) include the inspections performed by the Special the year, his work having been performed by the  
 (c) Ditto ditto Sub-Inspector  
 (d) Ditto ditto Sub-Inspectors  
 (e) Ditto ditto Sub-Inspector  
 (f) Ditto ditto ditto  
 (g) The number of successful cases inspected by four of the

OFFICE OF THE SANY. COMM. FOR BENGAL : }  
 The 29th May 1905. }

verified by Inspecting Officers during the year 1904-1905.

TION TO TOTAL NUMBER VACCINATED.				PERCENTAGE OF CASES FOUND SUCCESSFUL TO TOTAL NUMBER INSPECTED.								PERCENTAGE OF SUCCESS REPORTED BY VACCINATORS.	
BY NATIVE SUPERINTENDENTS OR OTHER INSPECTING OFFICERS.				BY DEPUTY SANITARY COMMISSIONERS OR CIVIL SURGEONS.				BY NATIVE SUPERINTENDENTS OR OTHER INSPECTING OFFICERS.					
District Inspectors.		Sub-Inspectors.		Deputy Sanitary Commissioners.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.			
Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
16	17	18	19	20	21	22	23	24	25	26	27	28	29
50'05	46'47	82'07	12'84	...	...	88'40	61'80	99'58	59'23	99'71	53'31	99'33	63'33
53'78	46'32	89'71	62'42	...	...	99'06	53'19	99'69	60'16	99'63	47'06	99'56	61'07
56'06	7'05	89'31	32'85	...	...	96'01	29'81	97'96	23'64	94'01	26'48	98'74	29'52
43'39	28'30	87'75	35'42	...	...	99'07	69'09	98'73	89'31	98'46	6'04	93'92	64'02
75'08	4'07	82'41	1'09	...	...	99'59	57'95	99'58	51'61	99'24	73'08	99'30	51'47
...	...	88'35	79'73	...	...	98'67	...	...	...	90'43	16'09	97'36	24'39
...	...	91'29	41'03	...	...	...	...	99'57	41'60	98'44	40'19	99'15	35'71
54'31	58'36	80'44	8'24	...	...	100'	...	99'54	41'60	98'95	36'26	...	...
52'43	58'36	76'41	38'50	...	...	...	...	98'85	21'45	99'36	31'73	99'43	56'94
37'90	7'81	69'58	29'52	...	...	...	...	98'81	21'43	99'32	37'27	...	...
26'78	7'83	...	...	...	...	...	...	99'77	45'42	...	...	89'03	45'98
76'23	79'04	...	...	...	...	...	...	...	...	...	...	93'28	53'31
...	...	...	...	...	...	...	...	...	...	...	...	...	...
56'41	14'54	50'27	50'00	...	...	98'74	32'06	98'42	31'25	99'18	60'46	99'17	79'84
66'58	12'04	85'41	56'07	...	...	98'59	6'09	99'07	43'63	99'42	53'09	99'02	60'81
26'24	47'79	66'27	49'18	...	...	99'72	78'82	99'25	72'08	99'06	72'17	99'33	68'52
34'37	6'33	66'16	21'90	...	...	99'05	48'48	99'61	47'37	99'02	38'00	99'79	35'33
38'82	5'65	72'79	44'50	...	...	99'74	63'31	98'75	32'50	99'65	82'95	99'02	65'48
51'14	56'95	72'57	93'88	...	...	92'15	49'87	96'79	58'72	94'03	71'07	99'14	89'07
59'51	32'12	75'26	31'30	...	...	97'39	39'56	99'89	40'87	97'83	59'19	98'02	52'65
55'90	39'19	66'82	64'15	100'	...	99'41	52'45	99'08	76'39	99'58	89'29	97'46	69'29
69'52	26'82	86'71	44'85	95'99	79'45	87'29	98'90	95'27	11'99	95'88	47'39	97'57	64'08
53'84	51'39	44'74	21'18	...	...	99'51	...	...	93'74	97'11	96'06	46'15	39'23
61'57	87'78	82'03	30'99	...	...	98'72	26'78	98'09	33'10	98'18	31'74	96'77	24'77
23'57	22'41	72'72	59'60	99'29	65'00	97'43	61'99	98'37	48'33	96'77	31'99	98'03	45'42
...	...	70'52	44'82	...	...	97'04	67'63	98'24	24'69	97'29	63'24	97'32	63'94
31'39	39'41	69'75	18'92	...	...	98'37	57'14	99'84	45'81	99'01	27'31	98'40	54'99
36'41	64'07	44'06	46'31	96'39	...	84'28	14'50	94'47	33'89	93'64	35'97	93'87	25'56
37'44	17'97	76'58	35'18	96'57	66'06	77'03	...	99'29	66'43	97'14	84'44	98'75	81'58
30'40	16'27	57'69	43'69	...	...	89'29	...	97'33	...	96'65	...	99'94	33'49
39'24	...	44'35	42'94	...	...	95'54	48'16	96'68	55'05	95'54	55'88	98'73	40'31
23'04	37'47	67'41	...	...	...	94'32	...	95'23	...	94'47	...	97'36	...
49'42	...	...	...	...	...	...	...	...	...	...	...	...	...
45'66	...	74'70	...	99'64	...	100'	53'91	97'77	...	98'21	...	93'48	41'85
39'92	...	73'10	9'33	...	...	99'14	19'07	98'75	...	96'27	65'29	94'39	59'73
38'78	...	71'48	...	97'64	...	98'59	...	97'89	...	98'72	...	98'26	64'41
27'24	61'25	49'62	61'36	...	...	95'00	100'	98'89	109'	97'95	99'79	93'86	61'23
27'07	...	42'74	...	99'18	...	99'07	89'55	98'72	...	98'09	...	98'94	81'22
49'04	74'39	86'85	7'86	100'	...	99'38	68'24	99'18	...	98'97	12'72	99'44	63'99
59'39	...	85'34	'36	...	...	99'27	75'46	99'26	...	99'29	...	99'31	74'53
48'54	...	77'34	21'02	99'97	...	99'53	69'39	99'97	...	99'06	62'50	...	...
...	...	75'31	6'30	...	...	...	...	...	...	99'06	79'16	99'88	59'92
59'73	3'80	63'66	4'63	99'85	...	99'94	...	99'83	73'17	99'02	49'60	99'70	58'83
49'40	...	79'04	25'67	...	...	85'91	25'15	94'99	...	94'82	19'28	94'94	55'21
52'81	3'21	81'24	1'07	99'24	...	96'88	20'22	93'74	49'09	96'77	29'00	97'49	49'70
31'19	29'85	75'68	35'88	99'99	...	98'76	80'32	99'32	51'42	98'17	53'49	99'24	64'93
35'29	5'84	49'14	1'65	98'35	59'00	96'99	...	95'31	61'66	95'55	38'82	99'79	74'39
63'24	6'13	74'07	24'89	99'17	...	83'70	51'69	98'87	45'75	97'19	73'71	98'21	73'01
57'71	10'61	58'05	78'53	98'75	...	98'70	...	93'33	73'97	92'49	87'73	91'49	86'93
41'53	169'	77'81	41'06	...	...	99'77	62'50	99'83	62'50	95'71	70'09	97'22	62'50
...	...	24'89	...	99'44	...	...	...	...	...	(p)63'97	...	97'64	85'48
43'64	...	79'19	1'35	...	...	99'36	61'25	99'05	...	99'73	160'00	99'88	62'91
37'58	...	53'05	...	...	...	100'	...	97'55	...	97'26	...	99'62	46'91
59'93	...	46'24	...	...	...	98'74	86'12	99'51	...	99'47	...	98'75	84'61
52'63	10'94	85'11	'41	...	...	97'32	51'83	98'88	44'76	98'45	59'00	99'65	41'71
68'79	52'43	68'21	52'58	...	...	99'65	80'02	99'65	81'90	99'18	80'40	98'94	81'61
47'40	38'15	49'73	3'40	...	...	...	...	97'36	73'79	97'02	60'60	99'33	88'75
41'14	27'15	69'04	37'90	98'59	75'87	97'86	61'93	97'71	53'69	97'37	64'09	98'15	88'23

Inspector for the suburbs of Calcutta and Howrah Municipality. This incumbent retired from the 1st August 1904, and the post remained vacant throughout District Inspectors of 24-Parganas and Howrah in addition to their own duties. attached to the Suburban Municipalities. attached to the Dacca Municipality. and Civil Hospital Assistant attached to the Jamalpur Municipality. Sub-Inspectors attached to the Tributary States of Orissa has not been furnished.

W. W. CLEMESHA, M.D., D.P.H.,  
CAPTAIN, I.M.S.,  
Offg. Sanitary Commissioner for Bengal.



STATEMENT No. VII—Showing the protection afforded to infants in each Town in the Province of Bengal during the year 1904-05.

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations of children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
BURDWAN	Burdwan ... ..	690	161	519	306	1st July 1883.
	Kalna ... ..	131	30	101	127	Ditto.
	Katwa ... ..	270	94	176	228	Ditto.
	Dainhat ... ..	226	42	184	215	Ditto.
	Raniganj ... ..	377	62	315	240	Ditto.
	Asansol ... ..	383	43	340	315	Not yet extended.
	Total ... ..	2,067	492	1,635	1,531	
BIRBHUM	Suri ... ..	226	41	185	137	1st July 1881.
BANKURA	Bankura ... ..	548	90	458	110	1st July 1883.
	Vishnuper ... ..	638	124	534	296	Ditto.
	Sonamukhi ... ..	490	111	379	149	6th June 1892.
	Total ... ..	1,680	325	1,371	555	
MIDNAPORE	Midnapore ... ..	1,128	261	867	304	1st July 1883.
	Ghatal ... ..	431	128	303	132	Ditto.
	Kharar ... ..	280	73	205	63	16th August 1889.
	Chandrakona ... ..	284	57	227	147	1st July 1883.
	Ranjibanpur ... ..	329	91	238	70	Ditto.
	Khirpai ... ..	146	36	110	94	Ditto.
	Tamluk ... ..	215	35	180	105	Ditto.
	Total ... ..	2,843	683	2,160	915	
HOOGHLY	Hooghly and Chinsura ... ..	847	230	608	453	1st September 1881.
	Bansberia ... ..	169	43	126	135	1st July 1883.
	Arambagh ... ..	215	47	168	132	11th February 1889.
	Serampore ... ..	206	209	77	148	1st March 1883.
	Uttarpara ... ..	178	32	145	95	1st April 1883.
	Kotrung ... ..	143	44	99	89	1st July 1883.
	Baidyabati ... ..	372	61	311	195	Ditto.
	Bhadreswar ... ..	292	77	215	75	Ditto.
	Total ... ..	3,152	733	2,399	1,352	
HOWRAH	Howrah ... ..	4,680	1,328	2,752	1,700	1st April 1882.
	Bally ... ..	317	28	219	313	1st October 1884.
	Ulubaria ... ..	91	10	81	60	Not yet extended.
	Total ... ..	4,488	1,436	3,052	2,082	
	Total of the Burdwan Division.	14,472	3,670	10,802	6,462	
24-PARGANAS	Cossipore-Chitpur ... ..	503	72	431	681	1st October 1883.
	Manicktala ... ..	539	63	476	715	Ditto.
	South Suburban ... ..	819	173	646	1,014	Ditto.
	Tollygunge ... ..	373	72	301	411	Ditto. (It formerly formed a part of the South Suburban Municipality.)

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1885.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
24-PARGANAS- esocid.	Garden Reach ... ..	504	102	402	650	1st October 1883. (It formerly formed a part of the South Suburban Municipality.)
	Budge-Budge ... ..	208	23	185	32	18th February 1901.
	Baranagar ... ..	443	96	347	181	1st October 1883.
	Kamarhati ... ..	401	94	307	253	Ditto. (It formerly formed a part of the Baranagar Municipality.)
	Rajpur ... ..	401	80	321	230	1st October 1883.
	Baruipur ... ..	55	9	46	33	Ditto.
	Jaynagar ... ..	214	48	166	125	Ditto.
	North Dum-Dum ... ..	169	44	125	...	Ditto.
	South Dum-Dum ... ..	305	59	244	57	Ditto.
	South Barrackpore ... ..	90	15	75	188	Ditto.
	Panihati ... ..	345	88	258	117	Ditto. (It formerly formed a part of the South Barrackpore Municipality.)
	North Barrackpore ... ..	217	39	178	264	1st October 1883.
	Titagarh ... ..	112	16	96	187	Ditto. (It formerly formed a part of the South Barrackpore Municipality.)
	Garulia ... ..	161	31	130	51	1st October 1883. (It formerly formed a part of the North Barrackpore Municipality.)
	Naihati ... ..	214	53	161	133	1st October 1883.
	Halisahar ... ..	299	59	240	130	Ditto. (They formerly formed parts of the Naihati Municipality.)
	Bhatpara ... ..	440	85	354	140	Ditto.
Barasat ... ..	176	40	136	146	Ditto.	
Gobardanga ... ..	140	39	110	74	Ditto.	
Basirhat ... ..	408	46	362	320	Ditto.	
Baduria ... ..	428	62	366	197	Ditto.	
Taki ... ..	140	33	107	174	Ditto.	
	Total ...	8,181	1,541	6,640	6,579	
CALCUTTA	Calcutta ... ..	15,871	4,824	11,047	2,825	1880.
NADIA	Krishnagar ... ..	640	87	553	326	1st October 1883.
	Nadia ... ..	308	55	253	190	Ditto.
	Ranaghat ... ..	200	54	146	200	Ditto.
	Birnagar ... ..	79	25	54	48	Ditto.
	Santipur ... ..	1,180	255	925	455	Ditto.
	Chakdaha ... ..	168	34	134	100	28th January 1887.
	Kushtia ... ..	181	38	143	92	1st October 1883.
	Kumarkhali ... ..	139	43	96	98	Ditto.
Meherpur ... ..	234	44	190	109	Ditto.	
	Total ...	3,189	615	2,574	1,708	
MURSHIDABAD	Berhampore ... ..	679	224	455	164	Ditto.
	Murshidabad ... ..	505	144	359	98	Ditto.
	Asimganj ... ..	315	118	197	124	Ditto. (It formerly formed a part of the Murshidabad Municipality.)
	Kandi ... ..	456	10	396	141	1st October 1883.
	Jangipur ... ..	412	91	321	280	Ditto.
	Total ...	2,365	607	1,698	607	

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the number who have died as shown in column 4	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
JESSORE	Jessore	75	9	66	87	1st October 1883.
	Kotchandpur	251	70	181	174	1st February 1884.
	Maheshpur	141	45	96	50	1st October 1883.
	Total	467	124	343	311	
KHULNA	Khulna	246	47	199	150	1st July 1887.
	Satkhira	189	32	157	148	7th July 1883
	Debhatta	245	44	201	117	1st October 1883.
	Total	680	123	557	415	
Total of the Presidency Division.		30,753	7,894	22,859	12,645	
RAJSHAHI	Rampur Boalia	644	132	512	640	1st June 1881.
	Nator	242	90	152	67	1st January 1881.
	Total	886	222	664	707	
DINAJPUR	Dinajpur	307	46	261	58	1st January 1887.
JALPAIGURI	Jalpaiguri	211	30	181	101	Ditto.
DARJEELING	Darjeeling	361	71	290	292	1st September 1884.
	Kurseong	198	38	160	222	1st January 1887.
	Total	499	109	390	414	
HARGPUR	Rangpur	207	26	181	195	1st July 1881.
BOGRA	Bogra	202	33	169	54	1st January 1882.
	Sherpur	124	36	88	62	1st October 1884.
	Total	326	69	257	116	
PABNA	Pabna	317	62	255	282	1st February 1882.
	Sirajganj	647	80	567	243	1st January 1887.
	Total	964	142	822	495	
Total of the Rajshahi Division		3,400	674	2,726	2,096	
DACCA	Dacca	2,922	761	2,161	763	1st July 1887.
	Narayanganj	646	148	498	317	Ditto.
	Total	3,568	909	2,659	1,079	
HYMENINGH	Nasirabad	132	25	107	4	1st October 1887.
	Muktagnacha	101	12	89	5	Ditto.
	Netrokona	268	38	230	38	20th January 1890.



DISTRICT.	Town.	Number of births during the year.				Number available for vaccination after deducting the number who have died as shown in column 4.	Number of successful vaccinations during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
		3	4	5	6			
1	2	3	4	5	6	7		
MYMENSING —concd.	Jamalpur ... ..	688	132	556	411	1st October 1887.		
	Sheerpur ... ..	472	72	400	287	Ditto.		
	Kishorganj ... ..	452	93	359	30	Ditto.		
	Bajitpur ... ..	350	57	293	146	Ditto.		
	Tangail ... ..	311	107	204	19	19th February 1895.		
	Total ... ..	2,774	536	2,238	961			
FARIDPUR	Faridpur ... ..	330	67	263	152	1st October 1887.		
	Madaripur ... ..	519	59	460	198	Ditto.		
	Total ... ..	849	126	723	350			
BACKSARGUNGH	Barisal ... ..	288	59	229	34	Ditto.		
	Jhalakati ... ..	8	5	3	8	Ditto.		
	Nalchiti ... ..	17	6	11	6	Ditto.		
	Pirozpur ... ..	261	42	219	170	21st January 1890.		
	Pateakhali ... ..	122	27	95	101	25th January 1894		
	Total ... ..	696	139	557	319			
	Total of the Dacca Division ...	7,877	1,710	6,167	2,739			
TIPPERA	Cumilla ... ..	322	51	271	241	1st April 1887.		
	Brahmanbaria ... ..	628	127	501	393	Ditto.		
	Chandpur ... ..	176	15	161	63	22nd July 1898.		
	Total ... ..	1,126	193	933	697			
NOAKHALI	Sudharam ... ..	200	36	173	48	1st April 1887.		
CHITTAGONG	Chittagong ... ..	290	73	217	98	1st April 1887.		
	Cor's Bazar ... ..	90	10	80	30	14th November 1891.		
	Total ... ..	380	83	297	128			
	Total of the Chittagong Division.	1,715	312	1,403	873			
PATNA	Patna ... ..	4,442	1,204	3,238	2,673	1st October 1884.		
	Bihar ... ..	1,802	345	1,457	1,273	1st April 1887.		
	Dinapore ... ..	790	190	600	588	25th January 1891.		
	Barh ... ..	347	161	246	202	1st April 1887.		
	Total ... ..	7,371	1,940	5,431	4,136			
GAYA	Gaya ... ..	2,229	708	1,521	1,153	1st January 1883.		
	Tikari ... ..	312	67	245	148	3rd January 1891.		
	Daudnagar ... ..	355	90	265	245	Ditto.		
	Total ... ..	2,946	925	2,021	1,546			

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
SHAHABAD	Arrah ... ..	1,257	211	1,046	551	30th July 1885.
	Buxar ... ..	535	77	458	351	1st April 1887.
	Dumraon ... ..	498	76	390	200	Ditto.
	Jagadispur ... ..	465	185	360	81	20th December 1890.
	Sasaram ... ..	955	194	761	259	1st April 1887.
	Bhabhua ... ..	232	54	178	151	Ditto.
	Total ...	3,910	717	3,193	1,623	
SARAN	Chapra ... ..	1,651	457	1,224	563	Ditto.
	Revelganj ... ..	461	106	355	260	12th December 1890.
	Siwan ... ..	598	78	490	425	1st April 1887.
	Total ...	2,690	611	2,009	1,247	
CHAMPARAN	Bettiah ... ..	402	227	675	750	Ditto.
	Motihari ... ..	409	121	338	344	Ditto.
	Total ...	1,361	348	1,015	1,094	
MUZAFFARPUR	Muzaffarpur ... ..	1,471	369	1,102	556	1st January 1886.
	Sitamarhi ... ..	359	82	277	264	1st April 1887.
	Hajipur ... ..	942	227	715	450	1st May 1890.
	Lalganj ... ..	463	142	321	166	1st April 1887.
	Total ...	3,235	820	2,415	1,445	
DARBHANGA	Darbhanga ... ..	2,309	464	1,845	1,411	Date of Notification—24th May 1884.
	Roserah ... ..	434	108	326	204	3rd January 1891.
	Samastipur ... ..	349	66	274	30	Not yet extended.
	Madhubani ... ..	623	124	499	181	1st April 1887.
	Total ...	3,766	762	2,944	1,835	
	Total of the Patna Division	25,169	6,123	19,046	12,926	
MONGHYR	Monghyr ... ..	1,796	459	1,346	798	15th November 1882.
	Jamalpur ... ..	1,143	276	867	583	Ditto.
	Total ...	2,939	735	2,213	1,383	
BHAGALPUR	Bhagalpur ... ..	2,941	397	1,644	1,889	15th February 1884—Withdrawn on 16th October 1895. Re-extended on 18th August 1898.
	Colgong ... ..	143	63	80	27	15th February 1884—Withdrawn on 16th October 1895. Re-extended on 19th December 1901.
	Total ...	3,184	460	1,724	1,916	
PURNIA	Purnea ... ..	351	98	253	143	1st July 1887.
	Kishanganj ... ..	159	51	108	66	12th November 1892.
	Total ...	510	149	361	209	

DISTRICT.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number available for vaccination after deducting the numbers who have died as shown in column 4.	Number of successful vaccinations on children under one year during the year ending 31st March 1905.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6	7
MALDA	English Bazar	551	84	467	367	1st March 1883.
	Malda	94	22	72	49	1st April 1887.
	Nawabganj	791	84	707	37	12th May 1894.
	Total	1,346	190	1,156	363	
SOUTHAL PARGANAS	Sahibganj	450	87	363	333	1st May 1884.
	Deoghur	237	37	200	111	Ditto.
	Dumka	303	47	256	55	Not yet extended.
	Total	990	171	819	469	
Total of the Bhagalpur Division.		7,969	1,696	6,273	4,400	
CUTTACK	Cuttack	1,547	313	1,234	525	1st September 1884.
	Kendrapara	545	124	421	324	7th February 1888.
	Jajpur	416	84	332	228	Ditto.
	Total	2,508	521	1,987	1,387	
BALASORE	Balasore	531	90	441	434	Ditto.
PURI	Puri	640	173	467	499	Ditto.
Total of the Orissa Division		3,688	783	2,905	2,321	
HAZARIBAGH	Hazaribagh	790	171	619	630	1st January 1885.
	Chatra	465	98	367	261	1st August 1886.
	Giridih	306	55	251	33	Not yet extended.
	Total	1,561	324	1,237	924	
RANCHI	Ranchi	458	62	396	309	1st April 1887.
	Lehardaga	371	40	331	134	25th June 1892.
	Total	739	102	637	443	
PALAMAU	Dalsongaj	239	52	187	122	9th October 1890.
MANBHAM	Purnia	503	64	439	387	1st January 1887.
	Raghunathpur	196	8	188	102	19th February 1894.
	Jhalda	158	31	127	125	9th July 1892.
	Total	767	93	674	614	
SINGBHAM	Chaibassa	321	54	267	309	20th June 1892.
Total of the Chota Nagpur Division.		3,647	625	3,022	2,442	
Total for the Province		38,606	23,487	15,119	10,894	

OFFICE OF THE SANITARY COMMISSIONER FOR BENGAL;  
The 29th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,  
CAPTAIN, I.M.S.,  
Offg. Sanitary Commissioner for Bengal.

PROVINCIAL STATEMENT A—Showing the degree of protection afforded to infants during the year 1904-1905.

DISTRICT.	Population among which vaccinations were performed.	Estimated birth at 42.50 per 1,000 of population (being the actual birth-rate for the province during 1904).	Mortality among infants under one year.	Surviving population under one year available for vaccination.	Number successfully vaccinated.	Proportion of persons successfully vaccinated per 1,000 of population as shown in column 5.	Proportion of persons successfully vaccinated per 1,000 of population in 1901-1902 (the last year of the previous triennial period).	REMARKS.
1	2	3	4	5	6	7	8	9
Ranchi	1,157,992	49,319	8,925	40,394	36,551	904.86	510.75	
Palasau	613,763	26,140	7,282	18,858	14,027	745.63	331.39	
Malda	854,247	36,382	7,318	29,064	22,946	789.54	553.71	
Faridpur	1,913,021	81,501	18,611	62,890	46,833	744.68	156.89	
Hazribagh	1,142,136	48,643	10,777	37,866	25,861	682.96	241.93	
Political States of Chota Nagpur.	1,091,429	42,651	7,568*	34,083	22,686	653.90	427.81	
Purnea	1,853,116	78,924	14,967	63,957	40,584	634.55	360.04	
Bhagalpur	2,007,455	85,488	13,461	72,027	48,071	654.96	517.71	
Manbhum	1,275,025	54,303	8,643	45,660	38,542	833.09	319.35	
Darjeeling	227,724	9,099	1,669	8,430	4,889	608.84	756.37	
Southal Parganas	1,788,045	76,132	11,527	64,605	36,575	579.59	371.42	
Jalpaiguri	777,672	31,121	7,306	23,815	13,968	586.31	323.36	
Khulna	1,220,782	52,249	12,083	40,166	19,353	481.82	309.38	
Darbhanga	2,809,219	119,645	15,116	104,529	50,193	480.18	410.30	
Gaya	1,972,464	84,007	19,458	64,549	30,895	478.62	293.32	
Burdwan	1,446,747	61,573	12,167	49,406	22,957	460.66	177.15	
Rangpur	2,138,221	91,067	20,784	70,283	29,925	425.77	159.50	
Midnapore	2,692,238	114,981	18,941	96,040	40,720	424.07	179.05	
Rajshahi	1,432,164	60,998	14,139	46,859	19,565	417.47	237.29	
Noakhali	1,135,598	48,349	8,019	40,330	16,257	405.99	175.36	
24-Parganas	1,880,229	71,551	19,097	69,454	24,413	351.51	342.96	
Monohyr	2,015,223	85,828	15,631	70,197	28,107	400.86	195.45	
Angul	191,911	8,174	1,525*	6,649	2,623	394.49	263.31	
Muzaffarpur	2,660,735	113,576	22,322	91,254	34,176	374.51	101.29	
Pabna	1,378,923	58,728	10,555	48,173	18,060	375.65	321.73	
Nadia	1,572,136	66,507	15,020	51,487	19,109	367.76	189.36	
Backergunge	2,246,178	95,665	21,968	73,697	25,209	341.94	218.07	
Bankura	1,063,136	45,279	7,746	37,533	11,881	316.57	282.56	
Jessore	1,791,856	76,315	13,787	62,528	19,408	310.38	264.89	
Roga	843,355	35,215	7,185	28,030	8,874	308.84	81.39	
Hooghly	915,399	38,287	7,282	31,005	8,958	288.54	125.58	
Singhbhum	604,926	25,764	3,285	22,479	6,285	279.59	116.26	
Chittagong	1,327,265	55,228	8,600	46,628	13,376	279.6	191.06	
Champaran	1,735,037	74,619	14,493	60,126	16,219	271.98	155.98	
Howrah	698,863	28,487	4,896	23,591	6,354	268.99	142.18	
Dinajpur	1,253,650	68,176	16,445	49,731	12,468	259.73	187.21	
Birbhum	893,588	38,058	7,322	30,736	7,579	246.92	246.09	
Dacca	2,529,421	107,728	18,361	89,367	26,638	236.94	197.06	
Faiza	1,399,274	59,594	15,653	44,541	9,878	221.77	197.09	
Mymensingh	3,809,671	162,264	27,614	135,240	39,889	229.78	169.18	
Murshidabad	1,207,277	53,548	11,554	41,994	9,292	220.70	148.66	
Cuttack	1,984,038	84,500	18,810	65,690	14,365	218.67	108.37	
Chittagong Hill Tracts	124,762	5,314	991*	4,323	910	210.59	210.69	
Shahabad	1,844,890	78,561	19,890	58,671	11,965	203.93	136.59	
Saran	2,338,087	99,579	18,818	80,761	16,378	202.79	182.72	
Balasure	1,050,317	44,733	9,754	34,979	5,962	169.63	84.45	
Tributary States of Orissa.	1,947,892	82,957	15,480*	67,477	12,843	190.33	169.53	
Tippura	2,069,545	88,142	14,189	73,953	13,783	186.35	88.73	
Puri	967,960	41,225	8,639	32,586	2,796	83.91	26.70	
Total of Rural areas	73,959,347	3,149,928	606,946	2,542,982	981,988	386.93	231.92	
Calcutta, including A. V. Depot.	847,796	30,169	4,824	31,345	2,825	90.29	99.25	
Mufassal Municipalities, dispensaries, etc.	2,886,954	122,955	18,063	104,892	45,935	431.81	344.74	
GRAND TOTAL	77,694,097	3,308,992	639,833	2,678,559	1,029,548	384.36	234.99	

\* Registration of births and deaths is not carried on in these places. The number of deaths among infants in them has been calculated at the rate of infant mortality obtaining in this province during 1904.

OFFICE OF THE SANIT. COMM. FOR  
BENGAL,  
The 29th May 1905.

W. W. CLEMESHA, M.D., D.P.H.,  
CAPTAIN, I.M.S.,  
Off. Sanitary Commissioner for Bengal.

PROVINCIAL STATEMENT B—Showing the different kinds of

DISTRICTS.	PRIMARY VACCINATIONS.														
	Direct from the calf.					With lanoline lymph.					Arm-to-arm vaccination.				
	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Burdwan	3,158	3,139	4	15	99.99	8,273	8,037	119	97	97.88	40,981	40,847	84	80	99.72
Birbhum	307	307			100	6,729	6,618	102	9	98.35	29,849	29,790	37	13	99.53
Bankura						9,539	9,498	128	3	98.62	34,995	34,598	413	14	98.77
Midnapore	47,768	47,356	246	166	99.13	5,611	5,479	97	55	97.30	54,949	53,462	390	197	98.91
Hoochly	384	382	2		99.47	5,012	4,859	128	25	96.94	23,349	23,091	214	41	98.99
Howrah	2,589	2,582	2	5	99.73	6,239	6,113	68	59	97.98	16,971	16,993	42	36	99.51
24 Parganas	2	2			100	31,398	31,399	241	7	99.21	45,027	44,843	164	20	99.59
Calcutta						20,351*	18,059	1,431	899	58.99					
Calcutta and A. V. Depot	291	286			98.28										
Nadia						3,396	3,324	60	12	97.88	56,148	55,724	222	199	99.25
Murshidabad	3,829	3,819	11	9	99.47	2,493	2,311	71	21	96.17	35,391	35,098	107	186	99.17
Jessore	561	559	2		99.64	2,696	2,594	7	5	99.54	48,838	48,598	294	36	99.26
Khulna	2,032	2,024	7	1	99.60	1,518	1,518			100	33,849	33,738	85	17	99.69
Rajahm	26,623	26,563	20	40	99.77	959	892	58		93.89	21,366	21,562	18	46	99.79
Dinajpur	34,396	34,077	399	29	99.15	164	157	7		95.73					
Jalpaiguri	1,129	1,118	10	1	99.02	432	355	75		82.17	21,596	21,365	172	59	98.93
Darjeeling	77	77			100	6,321	6,171	133	197	94.63	7,972	7,972	6	14	99.74
Rangpur						1,279	556	721	2	43.47	61,672	60,866	596	289	98.69
Bogra	6,616	6,589	26		99.45	942	855	85	21	90.64	18,345	18,097	143	5	99.02
Pabna	1,982	1,827	26	9	98.12	5,699	5,147	483	39	90.93	36,336	35,469	569	307	97.61
Dacca	29,599	29,561	161	177	98.38	10,512	9,968	368	146	95.11	72,239	71,647	643	549	98.36
Mymensingh	29,145	19,835	243	67	98.96	5,059	4,793	193	64	94.91	141,325	137,444	2,163	1,728	97.25
Chittagong Hill Tracts						58,166	57,676	809	91	99.15	65,635	65,391	171	73	99.62
Fairpur	379	324	55		85.48	23,139	20,239	1,825	1,056	87.53	111,841	106,490	2,326	3,025	98.21
Backergunge	393	367	25	1	93.35	4,321	4,349	122	59	96.19	72,811	72,661	436	314	98.96
Tippera	378	372	6		97.84	8,966	8,562	259	154	95.49	49,033	47,662	1,063	308	97.29
Noakhali						7,322	7,699	172	91	96.49	71,886	71,149	469	248	98.97
Chittagong						133	133			100	5,993	5,766	128	19	97.59
Chittagong Hill Tracts						1,872	1,796	129	37	91.13	35,386	35,094	183	201	98.91
Patna	790	765	9	16	96.83	1,071	1,939	93	48	92.84	61,669	60,446	1,033	458	98.30
Gaya						3,293	3,229	56	8	98.05	38,538	38,166	245	127	99.03
Shahabad	7	6	1			1,589	1,212	168	209	76.27	55,655	51,937	962	2,196	94.37
Saran						1,466	1,216	174	70	82.94	49,959	49,656	36	199	99.41
Champaran						1,688	1,572	116		93.12	89,513	89,126	379	17	99.56
Munafarypur						1,817	1,515	299	3	83.37	89,421	89,109	289	33	99.64
Darbhanga						1,179	1,149	18	12	97.45	77,233	77,229	25	39	99.91
Monghyr						285	179	100	0	62.89	75,394	75,233	68	3	99.99
Bohawalpur						1,102	957	134	11	86.84	64,375	63,542	1,512	21	97.15
Purnea	25	25			100	1,079	994	109	6	89.34	28,679	28,679	565	118	97.67
Maldia	1,878	1,839	36	3	97.92	357	324	33		90.75	55,473	55,226	226	211	99.16
Southal Parganas	16,194	16,145	46	3	99.69	79,089	76,117	2,129	1,433	95.33	15,539	15,035	229	196	96.81
Cuttack	1,916	1,899	20		98.64	8,275	8,022	217	35	96.94	35,634	35,608	484	52	98.49
Balasore	1,844	1,827	11	6	98.73	5,239	4,767	286	167	91.33	85	82	3		
Angul						41,965	33,869	877	259	97.22					
Puri						31,146	30,882	744	320	96.58	28,570	28,306	164	106	98.94
Tributary States of Orissa						289	275	14		95.15	47,738	47,696	41	1	99.91
Hazaribagh						5	5			100	34,055	33,900	37	118	99.54
Ranchi	12,879	12,858		21	99.83						9,498	9,282	181	35	97.72
Palaman	7,669	7,573	84	12	98.74						46,968	46,034	31	3	99.92
Manbhum						241	213	8		86.68	17,479	17,299	168	72	98.96
Singbhum	70	70			100	135	89	46		65.92	35,751	35,567	132	62	99.45
Political States of Chota Nagpur.															
Total	216,520	214,605	1,329	686	99.11	421,157	402,387	13,219	5,651	95.51	2,168,329	2,129,463	18,849	12,022	98.97

\* All these operations with the exception of seven were

OFFICE OF THE SANITARY COMMISSIONER FOR BENGAL,

The 29th May 1905.

Lymph used and their rates of success during the year 1904-1905.

B-VACCINATIONS.														
Direct from the calf.					With lanoline lymph.					Arm-to-arm vaccination.				
Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
45	36	5	4	80'00	1,512	974	444	94	64'41	132	58	67	7	43'93
...	...	...	...	...	866	539	305	31	62'24	196	116	37	43	59'18
...	...	...	...	...	1,341	334	900	47	24'90	7,835	2,375	5,451	9	30'31
1,151	768	327	96	64'48	684	461	275	8	58'62	406	349	118	29	70'26
5	1	4	...	20'00	254	69	110	55	27'45	644	352	292	...	54'65
...	...	...	...	...	307	151	207	39	38'03	93	24	55	14	25'80
...	...	...	...	...	321	194	321	6	37'23	15	4	11	...	26'66
1	1	...	...	100'	4,076*	1,874	1,823	379	45'97	...	...	...	...	...
3,691	1,133	1,404	864	33'31	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	1,135	803	306	36	70'87	185	161	23	1	87'02
147	73	70	4	49'95	559	376	131	53	67'26	207	161	49	6	77'77
6	2	4	...	33'33	836	670	184	82	68'18	29	17	3	...	85'00
49	22	27	...	44'89	93	28	60	5	30'10	158	56	90	12	35'44
757	464	269	4	62'96	...	...	...	...	...	54	54	...	...	100'
7,761	6,919	643	130	89'84	317	223	94	...	70'34	...	...	...	...	...
63	43	20	...	68'25	727	365	320	39	50'61	63	38	25	...	60'32
...	...	...	...	...	2,131	1,223	639	273	57'39	874	589	275	10	67'39
...	...	...	...	...	2,404	907	1,352	145	37'72	2,534	2,300	234	...	90'95
18	7	11	...	38'88	1,096	346	673	77	31'57	963	462	494	7	47'97
33	9	21	3	27'27	1,193	397	785	11	33'27	861	111	653	97	12'89
1,865	936	844	25	51'85	3,095	1,436	1,487	83	47'79	5,439	2,311	2,757	431	42'02
19	11	4	4	57'80	856	676	235	41	67'17	1,189	728	347	115	61'69
...	...	...	...	...	1,477	799	584	94	53'99	...	...	...	...	...
...	...	...	...	...	362	92	212	58	25'41	33	9	24	...	27'27
30	26	1	...	92'43	72	39	31	2	54'16	465	344	55	6	84'93
...	...	...	...	...	203	68	123	12	33'49	...	...	...	...	...
...	...	...	...	...	371	179	112	80	48'24	104	41	59	4	39'42
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	17	3	...	85'00	369	175	152	42	47'42	151	34	117	...	22'51
...	...	...	...	...	631	357	188	86	56'57	248	89	96	63	35'88
...	...	...	...	...	247	155	55	37	62'75	270	178	49	43	65'92
...	...	...	...	...	50	22	13	15	44'00	729	465	138	136	62'41
...	...	...	...	...	216	174	42	...	80'55	29	25	4	...	86'29
...	...	...	...	...	634	427	207	...	67'35	65	12	53	...	18'46
...	...	...	...	...	2	...	2	...	...	549	404	127	9	74'81
...	...	...	...	...	689	382	175	102	57'96	103	74	28	...	72'54
...	...	...	...	...	1,926	1,066	717	143	55'34	211	203	15	13	87'87
...	...	...	...	...	1,389	292	992	15	21'65	254	97	157	...	38'18
46	36	10	...	78'26	344	137	182	25	39'82	77	59	16	2	76'62
6,432	4,423	1,898	111	68'76	224	102	122	...	45'53	5,797	3,561	2,119	117	61'92
53	78	1	4	93'97	948	654	39	219	72'61	2	2	...	...	100'
...	...	...	...	...	762	571	93	118	73'01	...	...	...	...	...
...	...	...	...	...	489	391	28	39	80'06	51	35	...	...	16
...	...	...	...	...	24	15	7	2	61'50	...	...	...	...	...
...	...	...	...	...	598	508	35	55	84'95	91	81	10	...	89'01
...	...	...	...	...	499	303	191	5	60'72	17	17	...	...	166'
...	...	...	...	...	...	...	...	...	...	369	445	505	...	46'84
...	...	...	...	...	...	...	...	...	...	58	44	12	2	75'95
55	77	8	...	90'58	...	...	...	...	...	83	33	...	...	61'92
...	...	...	...	...	523	317	311	195	38'61	136	83	104	3	87'35
...	...	...	...	...	552	492	197	43	72'82	846	739	104	...	88'75
...	...	...	...	...	...	...	...	...	...	7,042	6,250	695	187	...
21,926	15,994	5,374	1,268	68'84	37,718	19,535	15,318	2,865	51'79	40,237	23,547	15,328	1,382	58'49

performed with glycerized lymph.

W. W. CLEMESHA, M.D., D.P.H.,  
 CAPTAIN, I.M.S.,  
 Offg. Sanitary Commissioner for Bengal.

Date		Description		Amount		Balance	
Year	Month	Particulars	To	By	Balance	Balance	Balance
1880	Jan	Balance forward					
1880	Feb	...					
1880	Mar	...					
1880	Apr	...					
1880	May	...					
1880	Jun	...					
1880	Jul	...					
1880	Aug	...					
1880	Sep	...					
1880	Oct	...					
1880	Nov	...					
1880	Dec	...					
1881	Jan	...					
1881	Feb	...					
1881	Mar	...					
1881	Apr	...					
1881	May	...					
1881	Jun	...					
1881	Jul	...					
1881	Aug	...					
1881	Sep	...					
1881	Oct	...					
1881	Nov	...					
1881	Dec	...					

THE BANK OF AMERICA  
 AND TRUST COMPANY  
 OF THE CITY OF NEW YORK

## MUNICIPAL DEPARTMENT.

### SANITATION.

DARJEELING, THE 26TH JULY 1905.

#### RESOLUTION No. 1824T.—M.

##### READ—

The Triennial Report on Vaccination in Bengal for the years 1902-1903, 1903-1904, and 1904-1905.

##### Read also—

The Annual Statistical Returns and Short Notes on Vaccination in Bengal for the years 1902-1903 and 1903-1904.

The number of vaccinators has remained almost unchanged since 1888, but each man now performs on the average 50 per cent. more operations than he did at that time. The improvement in this respect has been continuous. The average number of operations performed in each year of the triennium under review was 2,809,506, or 978 per vaccinator, as compared with 2,420,552, or 834 per vaccinator, during the previous three years. Less than 5 per cent. of the total number of operations consist of revaccinations. According to the returns nearly two-fifths of the total infant population of the Province was vaccinated in 1904-1905. The improvement which has taken place in the period under review is confined to rural areas. There has been a falling off in Municipalities, especially in Calcutta, where only one-quarter of the infant population was protected by vaccination in 1904-1905. This is most unsatisfactory, and the Sanitary Commissioner should give the matter his close personal attention during the coming season.

2. There are marked variations in the amount of work done in different parts of the Province. In the Dacca and Chittagong Divisions there were respectively 48 and 46 vaccinations per thousand of the population in 1904-1905; in the Burdwan, Bhagalpur, Orissa and Chota Nagpur Divisions the number ranged from 36 to 38; while in the Presidency Division it was only 32, in Rajshahi 30 and in Patna 27 per mille. Of individual districts the best results were obtained in Faridpur and Darjeeling (63 and 62 per mille respectively); and the worst in Patna, Saran and Shahabad (from 21 to 22 per mille). There is no correlation between the number of operations and the varying prevalence of small-pox; and the greatest success has been attained in the tracts which are least afflicted by that scourge. The Sanitary Commissioner is of opinion that an epidemic of small-pox leads to a larger number of vaccinations; but although such a result might be anticipated, it is not borne out by the statistics; nor are the figures to be explained by the reputed attitude of the people towards vaccination. The Ferazis of East Bengal are said to be exceptionally hostile, but this is precisely the part of the Province where the greatest success has been attained. The backward state of the work in Shahabad is attributed to the character of the people; but it is almost equally backward in Patna, where the inhabitants are supposed to be less obstructive.

3. The real factors affecting the results are doubtless the efficiency of the staff, the degree of supervision exercised by the Civil Surgeons and the officers of the Sanitary Department, and the interest taken in the work by District Officers. The Lieutenant-Governor notices that the improvement which took place last year in Midnapore, Cuttack and Noakhali is attributed to the active co-operation of the District Officers; while that in the Tributary States of Orissa is accounted for by the supervision exercised by one of the Deputy Sanitary Commissioners. The Sanitary Department is now at its full strength for the first time for some years; and Sir Andrew Fraser hopes that this will lead to a marked improvement in the outturn in the more backward



districts. District Officers will again be asked to do what they can during their tours to promote the cause of vaccination by enlisting the sympathy of the people with whom they may come in contact and by taking a personal interest in the work done by the vaccinators.

4. The question of making the vaccinating staff more efficient has recently engaged the attention of the Lieutenant-Governor. Proposals for raising the status of the inspecting officers have been submitted to the Government of India, and a system of rewards to vaccinators has been introduced. A scheme for the better training of the vaccinators and inspecting staff and for the more extended use of calf lymph is under consideration.

By order of the Lieutenant-Governor of Bengal,

E. A. GAIT,

*Offg. Secretary to the Govt. of Bengal.*

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Circular No. 33T.—M.

COPY, with a copy of the Report, forwarded to all Commissioners of Divisions, for information and communication to all District Officers, with special reference to the remarks contained in paragraph 3 of the Resolution.

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No. 1825T.—M.

COPY forwarded to the Sanitary Commissioner, Bengal, for information. His attention is specially drawn to paragraph 1 of the Resolution.

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No. 1826T.—M.

COPY, with a copy of the Report, forwarded to the Inspector-General of Civil Hospitals, Bengal, for information.

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No. 1827T.—M.

COPY, with a copy of the Report, forwarded to the Secretary to the Sanitary Board, for information.

By order of the Lieutenant-Governor of Bengal,

G. RAINY,

*Under-Secretary to the Govt. of Bengal.*

DARJEELING,  
The 26th July 1905.

