

Annual statistical returns and short notes on vaccination in Bihar and Orissa.

Contributors

Bihar and Orissa (India)

Publication/Creation

Patna : Government Press, [1922]

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ANNUAL STATISTICAL RETURNS

AND

SHORT NOTES ON VACCINATION

IN

BIHAR AND ORISSA

FOR THE YEAR

1921-22

BY

LT.-COL. W. C. ROSS, M.B., CH.B., D.P.H., I.M.S.,

Director of Public Health, Bihar and Orissa.

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PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRINTING, BIHAR AND ORISSA,

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ANNUAL VACCINATION REPORT

BIHAR AND ORISSA

FOR THE YEAR

1921-1922.

1. *Staff*.—Lt.-Col. W. C. Ross, I.M.S., held charge of the Department throughout the year and submits this report.

The three Assistant Directors of Public Health remained in charge of their respective circles during the year except for short absences on privilege leave, *viz.*, Dr. S. N. Tiwari in the South Bihar Circle, Dr. B. P. Mazumdar in the North Bihar Circle and Dr. T. Sebastian in the Chota Nagpur and Orissa Circle.

The Inspecting Staff consisted of 20 District Inspectors of Vaccination and 69 Sub-Inspectors of Vaccination (including three deputed for duty at the Vaccine Depot), in addition to the one Sub-Assistant Surgeon combining vaccination inspection with other duties in Angul. The total number of vaccinators employed in the Province during the year was 1,073 licensed and 233 paid, against 1,088 licensed and 227 paid in the previous year.

In municipalities and in the district of Puri vaccination was done by paid vaccinators; but otherwise the work throughout the Province was carried out under the licensing system, except for the employment of paid vaccinators by District Boards, and employed temporarily by Civil Surgeons for short periods to deal with outbreaks of small-pox.

2. *Operations performed*.—The total number of operations performed during the year amounted to 939,851, as compared with 1,060,485 last year. The decrease was 120,634 and was due to political unrest and active interference with the work of the staff. Many reports were received both in writing and verbally of the increasing difficulty in carrying on the work in face of opposition stirred up by agitators and of the unwillingness of the people either to permit the operation on their children or to pay for it. These difficulties are likely to cause a further falling off next year as the vaccinators are now unwilling to work in many places and their numbers are likely to decrease as they cannot realise their fees fully. Of the total number of operations in the Province 925,134 were performed by the staff of the Vaccination Department as compared with 1,041,451 last year. Nine lakhs two thousand two hundred and eighty-six operations were primary and 22,848 were re-vaccinations as against 963,334 primary and 75,147 re-vaccinations last year.

There was a decrease of 64,048 in the primary operations and 52,299 in re-vaccinations during the year. Of the total operations performed (925,134), 909,007 equal to 98.26 per cent. were successful, as compared with 1,002,983 equal to 96.29 last year. The number of operations performed in municipalities fell by 10,000 as compared with last year's returns. The total number of operations performed was 33,903 and the number of successful operations was 31,036 of which 30,040 were primary and 996 were re-vaccinations as compared with 31,541 and 5,329 respectively last year. The ratios of success in municipalities were 96.47 per cent. for primary operations and 36.00 per cent. for re-vaccinations as compared with 95.09 per cent. and 48.98 per cent. respectively last year. The number of operations performed in rural areas was 891,231 as compared with 997,578 last year and the ratios of successes were 99.33 per cent. for primary operations and 61.93 for re-vaccinations.

3. *Vaccination in Districts.*—Of the three districts of the Patna Division, Shahabad reported an increase in the number of operations performed (6,599) whilst Patna and Gaya reported a decrease of over 8,000.

There was a general decrease in the number of operations reported from all the districts of the Tirhut Division.

The districts of the Bhagalpur Division recorded small increases except Purnea and Monghyr in both of which large decreases were reported.

With the exception of Angul and Sambalpur all the districts of Orissa recorded decreases in the number of operations, the greatest decrease being in Puri (7,305).

With the exception of Ranchi there was a general fall in the number of operations returned from the districts of Chota Nagpur, the greatest decrease being in Palamau (4,177).

4. *Vaccination in Towns and Compulsory Areas.*—Statement VII shows that during the year 15,645 children under one year of age out of an available number of 26,347 or 59.38 per cent. were successfully vaccinated.

The towns of Monghyr, Bhagalpur and Darbhanga again show the smallest proportion of work done, and the towns of Chapra, and Cuttack have also given unsatisfactory returns.

5. *Work done in the Native States under the Supervision of the Political Agent and Commissioner.*—Vaccination work in the Orissa Feudatory States has steadily developed during recent years under the direction and encouragement of the Political Agent and Commissioner.

Both vaccination and to a large extent re-vaccination are practically compulsory in the majority of these States.

During the year under report 191,822 primary operations and 389,925 re-vaccinations were performed as compared with 201,433 and 318,149 respectively in the previous year. As the total population of the Feudatory States is under four millions, these figures are rather extraordinary when compared with the provincial figures, which show a total of roughly nine lakhs operations performed amongst the population of 34,002,189.

The ratio of primary vaccinations reported by the Orissa States is 48.42 per thousand against 26.57 in the Province and of re-vaccinations 98.43 per thousand against a provincial ratio of 1.06. The number of children born each year in the Feudatory States may be estimated roughly at two lakhs, and of these a considerable number, certainly over 60,000, die in infancy.

6. *Protection of infants.*—During the year under report the number of children under one year available for vaccination was 934,229 and the number of successful operations was 370,510 equal to 396 per thousand against 377,981 or 386 per thousand successful operations out of 978,806 children available during the previous year. The protection of infants in municipalities is separately shown in statement VII. It gives a ratio of 593 per thousand of the surviving infant population as compared with 594 in the previous year.

These figures are unsatisfactory inasmuch as they show that for more than half of the total number operations are performed on children over one year of age. Civil Surgeons and Assistant Directors of Public Health are unanimous in attributing the opposition to vaccination to be concerned more with the age of the child than with the operation itself, and, in view of the strong popular prejudice which exists against the vaccination of infants

at an early age, I consider that it is desirable that the Vaccination Act should be amended so as to raise the age for compulsory vaccination to one year instead of six months.

7. *Incidence and Mortality of Small-pox.*—During the last ten years the total number of deaths from small-pox in the district of this Province has been 96,128.

During the first quinquennium the number of deaths were 40,437 and during the second 55,691. In each of the last five years the mortality was as follows:— 6,687, 6,205, 18,514, 19,374, and 4,911.

The provincial ratios of the mortality from small-pox per thousand of population during the last five years have been .19, .17, .53, .56 and .14.

8. *Prevention of small-pox.*—The constant and considerable mortality noted in the preceding paragraph is, in my opinion, a complete demonstration both of the insufficiency and of the inefficiency of the existing arrangements for vaccination.

It is well known—in fact it is an admitted axiom—that thorough vaccination can and does stamp out small-pox altogether, and in the light of that knowledge, and in face of the above facts, there is great necessity for a more definite vaccination policy.

I do not consider that small-pox can be effectively dealt with and stamped out unless vaccination is made compulsory throughout the Province, and I would recommend that the Vaccination Act should be modified so as to extend the age within which vaccination is required, to one year, and should be generally enforced; that vaccination should be free; and that the supervision and control of vaccination should be delegated to District Boards and Municipalities and their Health Officers.

9. *Inspection of Work.*—During the year under report the Assistant Directors of Public Health inspected 61,401 primary vaccination as against 145,627 in the previous year. The decrease is due to the inspections being made in greater detail in the villages and to the inclusion of the spleen census amongst village children in the cold weather vaccination inspection tours.

The inspecting work done by the Assistant Directors of Public Health has been comprehensive and they have submitted valuable reports on the efficiency of the staff and work in 17 out of the 21 districts in the Province.

The Civil Surgeons of the Province inspected 31,207 primary and 8,600 re-vaccination operations against 53,177 primary and 9,047 re-vaccination last year. It should be noted that the methods of inspection of Civil Surgeons and Assistant Directors of Public Health are different. Civil Surgeons inspect the new work which has just been done and the numbers returned by them are therefore smaller, whereas Assistant Directors of Public Health inspect all the children under ten years of age, and look at old work as well as new work and also look for unvaccinated children and children who are marked with small-pox, and they also examine vaccinators' registers and other records in the villages where they can be verified and checked.

10. *Supply of Vaccine.*—The Vaccine Depot at Namkum supplied the province with vaccine throughout the year. A large supply of vaccine is held in reserve and the necessary stores and supplies for manufacture are in ample stock. Fifty-five lakhs eighty-nine thousand nine hundred and thirty doses of vaccine were manufactured during the year as compared with 1,869,908 doses last year. The number of doses issued was 2,679,298 against 2,628,545 in 1920-21. The number of doses in stock at the end of the year was 4,100,366. The number of calves used during the year was 957 as compared with 362 in the previous year, and the average yield of crude vaccine was over 58 grammes per calf as compared with 55 grammes in the previous year. The working cost of the Depot for the year amounted to Rs. 28,879 as compared with Rs. 24,923 in the previous year. The average cost of the vaccine per dose works out at .99 pies on the gross expenditure and to .29 pies on the net expenditure when the receipts are taken into account.

11. *Vaccine Depot and Cold Storage.*—The Vaccine Depot was again closed for manufacture twice during the working season on account of outbreaks of foot-and-mouth disease but in spite of these interruptions a record quantity of vaccine was produced and a large reserve stock was again accumulated. As these epidemics amongst the calves occur every year the Director, Civil Veterinary Department, was again consulted and advised fencing the premises, the erection of isolation sheds and comprehensive disinfection of the operating room, calf sheds, and environment. Plans are being prepared accordingly for administrative approval.

The cold storage, which is essential for the preservation and ripening of the large stocks of vaccine, had been working badly for some time and was accordingly closed for repairs in April. The vaccine was taken to Calcutta in ice and kept in cold storage there until the entire cold storage plant had been taken down, and re-erected after necessary repairs to the machinery and renewal of the insulation in the cold chamber. It is now working satisfactorily once more.

Throughout the year, cholera vaccine and influenza vaccine were stocked in the Depot and issued throughout the Province as required.

12. *Experimental Work*—Further experimental work was carried out at the Depot during the year with some interesting results. It was established that the more viscid and aseptic vaccine manufactured with the addition of 5 per cent. starch and 2 per cent. boric acid in 93 per cent. water (after boiling to form a jelly) was potent for a shorter time and did not store so well as plain glycerine vaccine. No change can therefore be made in the product issued for use until a better mixture can be made.

It was also found that crude pulp when stored as such in the cold storage did not preserve its potency as well as pulp mixed with glycerine.

Variations in the technique of operation were carried out with a view to increasing the output per calf and the production of crude pulp per calf has now been raised from 12.38 grammes in 1914 to 58.36 grammes. This is probably as near the maximum as we can go with advantage and may be taken as an approximately final figure on which to base our estimates of manufacture.

Further work was also done to improve the seed vaccine and a better quality of seed was produced by vaccinating a calf direct from the vesicles of a calf vaccinated from a child. The quantity was less but the quality was better.

13. *Cost of the Department.*—The total cost of the Vaccine Department (excluding the Vaccine Depot) during the year, as detailed in Statement II, was Rs. 1,56,873 or Rs. 39 less than the previous year.

The cost per successful operation was 2 annas 8 pies against 2 annas 5 pies in the previous year.

14. *General.*—As I have already indicated in paragraph 2 above, the work of vaccination was considerably interfered with during the year—in some districts more especially—by political agitation and the passive and in some cases active hostility of the people, and by discontent amongst the vaccinators caused by the difficulty in realising their fees.

The result of the year's working is not therefore very satisfactory and the state of vaccination especially in the rural areas is likely to go from bad to worse. It has become a matter for serious consideration as to how long the present arrangements can continue to work at all. The vaccinators are underpaid and discontented and find great difficulty in realising their fees in many cases. Some have left their work and many more are likely to do so and a good many of them are adversely influenced by political propaganda to the detriment and neglect of their proper work. It is therefore no matter for wonder that the amount of vaccination work done has decreased considerably in the year under report.

In my opinion a change in system is now called for to meet the changed conditions and I very strongly recommend a change of policy from the licensing system to a system of free and compulsory vaccination and a change of control with decentralisation from the Vaccination Department to the District Boards.

I have for many years advised the introduction of free and compulsory vaccination and I am convinced that it is more necessary now than ever before if the Province is to be saved from lapsing into a partially unvaccinated condition which will surely end in a great epidemic of small-pox.

In conclusion I desire to bring to the notice of Government the work of the three Assistant Directors of Public Health and especially of Dr. T. Sebastian whose work has been characterised by reliability and sound judgment. Dr. C. N. Banerji has carried out his duties as Superintendent of the Vaccine Depot with efficiency and in a very satisfactory manner.

W. C. ROSS,

LT.-COL. I.M.S.,

Director of Public Health, Bihar and Orissa.

STATEMENT I.

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

Number.	District.	Population of district according to the census of 1901.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Total.	
					Male.	Female.	Total.			
1	2	3	4	5	6			7	8	
Patna Division.										
1	Patna	{ By paid Vaccinators ... By licensed Vaccinators ...	1,574,207	761	{ 18 60	6,089 26,712	5,436 25,506	11,525 52,218	641 871	11,227 52,230
2	Gaya	{ By paid Vaccinators ... By licensed Vaccinators ...	2,152,930	452	{ 20 73	3,497 18,331	3,723 17,149	7,220 35,480	349 467	6,714 35,464
3	Shahabad	{ By paid Vaccinators ... By licensed Vaccinators ...	1,816,821	415	{ 24 100	4,734 33,007	3,301 28,378	7,035 61,475	317 564	7,510 61,475
Total of Patna Division		{ By paid Vaccinators ... By licensed Vaccinators ...	5,544,038	497	{ 62 245	13,800 78,140	12,160 71,683	25,960 149,223	417 609	26,451 149,369
Tikhet Division.										
4	Saran	{ By paid Vaccinators ... By licensed Vaccinators ...	2,379,953	872	{ 8 74	1,334 18,756	1,122 16,723	2,456 35,480	307 479	2,311 35,484
5	Champan	{ By paid Vaccinators ... By licensed Vaccinators ...	1,940,841	549	{ 4 64	1,477 17,538	1,047 16,828	2,524 34,166	631 534	1,522 34,080
6	Muzaffarpur	{ By paid Vaccinators ... By licensed Vaccinators ...	2,764,945	607	{ 13 75	1,771 40,266	1,560 39,041	3,331 79,307	277 1,068	3,681 79,275
7	Darbhanga	{ By paid Vaccinators ... By licensed Vaccinators ...	2,913,529	870	{ 8 88	1,741 44,024	1,343 42,032	3,084 86,056	324 977	2,783 86,056
Total of Tikhet Division		{ By paid Vaccinators ... By licensed Vaccinators ...	9,949,268	789	{ 32 301	5,823 120,584	4,961 114,434	10,784 235,018	316 781	9,797 234,904
Bhagalpur Division.										
8	Monghyr	{ By paid Vaccinators ... By licensed Vaccinators ...	2,029,965	518	{ 7 30	1,032 26,873	807 25,591	1,839 52,464	263 1,752	1,658 52,550
9	Bhagalpur	{ By paid Vaccinators ... By licensed Vaccinators ...	2,033,770	481	{ 11 63	2,092 24,813	1,635 23,901	3,727 47,714	339 914	2,924 47,588
10	Purnea	{ By paid Vaccinators ... By licensed Vaccinators ...	2,024,808	405	{ 9 48	2,210 17,823	1,982 16,589	4,192 34,412	463 712	1,140 33,894
11	Santal Parganas	{ By paid Vaccinators ... By licensed Vaccinators ...	1,708,839	329	{ 8 57	3,391 22,829	2,739 21,990	6,131 44,819	763 783	4,830 44,167
Total of Bhagalpur Division		{ By paid Vaccinators ... By licensed Vaccinators ...	7,807,182	423	{ 35 198	8,725 96,137	7,124 92,597	15,849 189,104	483 955	16,549 187,969
Orissa Division.										
12	Cuttack	{ By paid Vaccinators ... By licensed Vaccinators ...	2,034,678	565	{ 10 70	2,529 30,468	1,978 28,545	4,507 59,013	441 814	3,405 57,455
13	Balasore	{ By paid Vaccinators ... By licensed Vaccinators ...	980,504	470	{ 3 32	476 19,562	307 12,333	783 25,966	266 899	2,066 25,350
14	Angul	{ By licensed Vaccinators ...	182,574	112	{ 14	2,500	2,179	4,679	406	5,203
15	Parl	{ By paid Vaccinators ...	941,651	380	{ 29	10,701	16,143	26,844	1,327	35,419
16	Sambalpur	{ By paid Vaccinators ... By licensed Vaccinators ...	760,466	266	{ 6 34	122 10,353	124 9,553	246 20,311	42 597	230 20,087
Total of Orissa Division		{ By paid Vaccinators ... By licensed Vaccinators ...	4,908,873	561	{ 50 148	23,038 57,743	18,402 51,815	41,530 109,158	865 737	30,320 108,696

Districts of Bihar and Orissa during the year 1921-22.

Vaccination.				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.						
Successful.				Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.					
Under one year.	One year and under six years.	Total of all ages.	Unknown.																	
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
4,976	5,557	10,733	200	703	114	16	97.23	29.04	40.20	1.78	5.19	68,909	43.81	1,353	.65					
21,919	29,667	51,866	79	38	31	...	99.45	81.57		.16	...									
2,307	4,162	6,469	11	96	70	4	99.46	7.18		10.51	.16					4.16	60,377	28.04	939	.43
9,435	25,429	35,273	77	16	18	...	99.67	100.00			.22					...				
3,367	3,113	7.0	22	105	42	8	98.94	40.77			.29					1.99					49,894	27.46	444	.24
28,136	26,882	61,711	45	...	...	...	99.53	...	.07	...					
10,740	12,832	24,869	233	549	226	22	98.37	45.58	31.20	.91	4.32	170,240	32.33	2,736	.49					
50,490	51,978	148,780	201	84	47	...	99.53	87.03		.10	...									
1,116	1,018	2,185	46	145	73	...	99.86	53.79	16.00	1.94	...	70,763	30.24	460	.19					
9,845	23,814	35,238	111	5	...	2	99.79	...		.31	40.00						
3,087	7.7	1,796	19	702	329	86	99.61	83.40	19.02	1.04	12.74	62,252	28.93	202	.12					
11,204	21,879	34,007	25	77	51	5	99.84	70.83		.07	6.49									
1,558	1,419	2,694	1	249	123	17	97.20	59.64	28.80	.03	7.08	87,535	31.77	319	.11					
18,008	60,781	78,906	19	32	8	...	99.96	25.00		.02	...									
688	1,843	2,539	2	...	...	...	98.07	...	30.34	.6	...	91,604	31.44	621	.14		
14,828	70,942	85,591	15	...	...	...	99.83	...		.91	...				
4,449	4,957	9,524	67	1,087	540	103	97.88	51.87	24.51	.68	9.47	302,189	30.37	1,492	.14					
53,945	177,218	234,057	170	114	59	7	99.71	55.14		.07	6.14									
744	879	1,630	6	183	36	3	98.78	29.00	26.70	.36	1.63	61,437	39.25	367	.17					
19,234	36,179	52,541	...	14	8	...	99.98	57.14		...	...							
1,526	1,006	2,513	37	803	348	243	98.47	62.14	30.54	1.23	30.26	61,703	30.38	476	.21					
27,563	29,087	57,568	1	31	11	13	99.37	61.71		.001	41.93									
573	532	1,113	15	3,022	1,420	244	98.83	57.15	17.80	1.31	8.07	51,799	25.58	1,373	.67					
17,806	15,807	33,507	23	7.8	388	114	99.51	63.31		.06	16.10									
2,367	7,358	4,783	16	1,301	723	201	99.54	65.72	27.90	.31	16.45	68,154	26.77	594	.28					
27,399	16,427	41,993	99	352	199	107	99.82	81.22		.22	30.29									
5,530	4,775	10,369	73	5,399	2,527	691	99.06	54.72	25.49	.69	12.01	223,193	28.29	2,674	.33					
68,802	98,400	187,699	123	1,105	606	134	99.95	69.57		.06	21.17									
1,250	1,691	3,237	129	1,802	465	178	98.80	52.43	29.71	3.78	17.76	60,614	29.37	1,633	.69					
27,186	27,717	57,135	167	258	144	29	99.73	69.59		2.90	7.75									
105	154	263	...	717	302	107	98.87	49.50	26.00	...	14.92	23,731	24.20	278	.35					
6,190	17,809	25,206	74	845	230	254	99.72	79.13		.29	40.60									
2,398	2,518	4,932	80	36	36	...	99.27	10.0	27.21	1.63	...	6,546	35.85	54	.29					
11,597	19,550	34,561	651	465	149	163	99.23	47.75		1.83	32.90									
161	67	226	2	26	9	8	100	50	26.38	.68	30.08	18,301	23.05	360	.45					
15,350	4,678	20,054	32	224	197	...	99.09	87.94		.15	...									
13,113	21,373	28,229	782	2,210	925	446	99.19	52.43	29.60	1.88	20.18	143,437	28.83	3,338	.67					
51,324	52,532	107,327	353	1,063	607	274	99.58	76.92		.32	25.77									

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

Number.	District.	Population of district according to the census of 1921.	Average population per square mile.	Average number of vaccinators employed throughout the season.	Total number of persons vaccinated.			Average number of persons vaccinated by each vaccinator.	Total.
					Male.	Female.	Total.		
1	2	3	4	5	6			7	8
Chota Nagpur Division.									
17	Hazaribagh ...	{ By paid Vaccinators ... By licensed Vaccinators ... }	1,276,940	181	{ 4 44	433 14,570	44 13,308	807 27,938	214 634
18	Ranchi ...	{ By paid Vaccinators ... By licensed Vaccinators ... }	1,334,473	187	{ 3 47	1,073 19,773	699 18,736	1,762 28,509	582 619
19	Palamanu ...	{ By paid Vaccinators ... By licensed Vaccinators ... }	733,304	149	{ 6 25	1,962 7,605	1,235 6,519	3,197 14,124	308 565
20	Manbhum ...	{ By paid Vaccinators ... By licensed Vaccinators ... }	1,546,777	373	{ 30 43	7,498 16,321	6,098 14,840	14,106 31,161	473 741
21	Singbhum ...	{ By paid Vaccinators ... By licensed Vaccinators ... }	759,438	105	{ 4 23	519 8,337	383 7,435	902 15,772	225 685
	Total of Chota Nagpur Division.	{ By paid Vaccinators ... By licensed Vaccinators ... }	5,653,028	208	{ 69 161	11,475 66,606	9,439 60,898	20,904 127,504	426 704
	Total of Vaccine Department.	{ By paid Vaccinators ... By licensed Vaccinators ... Total ... }	34,002,189	469	{ 228 1,073 1,301	62,961 418,310 481,771	52,166 391,197 443,363	115,127 810,007 925,134	604 754 711
	Total Dispensary Department	...	...	...	...	...	...	...	...
	Total Railways	...	...	1	1,067	315	1,402	1,402	346
	Total Cooly Department	...	...	2	1,114	548	1,662	631	71
	Total Jails and Cantonments	...	...	2	11,099	554	11,653	(a) 251	89
	Grand Total	...	...	1,305	495,071	444,780	939,851	719	903,566
(a) Cantonments only.									

istricts of Bihar and Orissa during the year 1921-22—concl'd.

Vaccination.				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.	
Successful.				Total.	Successful.	Unknown.	Primary.	Re-vaccination.		Primary.	Re-vaccination.	Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.
Under one year.	One year and under six years.	Total of all ages.	Unknown.												
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
416	393	811	...	46	13	15	100	41'93	23'12	...	32'60	36,338	28'45	174	'14
14,353	12,245	26,598	...	1,046	898	57	99'59	90'79		...	5'44				
1,045	235	1,283	...	479	267	38	100	60'54	29'22	...	7'93	40,928	30'06	675	'50
26,433	7,387	33,820	8	4,614	3,113	312	100	72'36		...	6'76				
318	439	757	20	2,309	1,830	163	97'28	88'44	21'04	2'04	7'37	22,603	30'04	454	'61
10,114	3,308	13,422	101	428	249	156	99'82	91'54		73	36'44				
33,681	7,033	40,714	535	1,334	679	183	93'02	58'99	28'07	4'08	13'71	48,115	31'06	267	'10
16,225	14,131	30,356	...	582	414	88	99'90	83'30		...	15'12				
508	270	778	18	82	12	1	97'88	14'31	21'69	2'19	1'21	17,692	23'29	294	'08
10,337	4,511	15,177	7	577	421	34	90'92	77'53		...	5'59				
5,555	9,270	15,280	563	4,150	2,801	400	94'41	74'69	25'73	3'36	9'63	165,769	29'32	1,864	'33
77,492	41,782	120,084	116	7,247	5,005	647	99'55	77'19		...	8'93				
39,467	53,237	92,704	1,718	17,365	7,019	1,062	98'07	60'49	29'73	1'65	12'52	1,013,828	29'81	12,104	'35
331,023	451,000	782,023	963	9,583	6,414	1,165	99'73	76'17		...	12					12'12
370,510	505,157	875,667	2,681	22,848	13,633	2,824	99'55	67'08	...	19	12'36	...	...	...	...
...
330	13	344	...	1,056	500	14	99'42	47'98	...	...	1'32	...	...	...	...
1	1	2	53	1,590	305	1,285	10'82	100	...	73'71	80'61	...	...	...	...
284	151	435	25	10,762	6,205	1,024	95'26	63'24	...	2'70	9'37	...	...	...	...
371,125	505,302	876,427	2,759	36,256	20,443	5,147	99'54	65'71	...	30	14'19	...	...	...	...

Summary.

		Total number of persons vaccinated.		Total number of operations performed.		Percentage of successful cases in which the results were known.		Average number of persons vaccinated by each vaccinator.		Number of children successfully vaccinated.				
		Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under 6 years.	Ratio of successful vaccinations per 1,000 of population.	Total cost of Department.	Average cost of each successful case.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
BY SPECIAL STAFF.														
Statement (I)	...	902,286	22,848	902,286	22,848	99.55	67.08	1,301	711	370,510	506,137			
BY DISPENSARY STAFF.														
Statement III	20.73	1,56,873	1 11 0 2 4
BY OTHER AGENCIES.														
Railways, Cooly Depot, Jails and Cantonments.	...	1,300	13,408	1,300	13,408	95.12	63.23	5(a)	510	615	165			
Total	...	903,586	36,256	903,586	36,256	99.54	65.71	1,306	719	371,125	506,302	20.73	1,56,873	1 11 0 2 4

(a) Cooly Department, Rail and Cantonments only.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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STATEMENT No. II.—Showing the cost of vaccination in the

No.	Circle and district.	European supervising officer.	Expenses									
			Pay.	Native supervising officer.	Pay.	Paid vaccinators.	Pay.	Licensed vaccinators.	Pay.	Clerks.	Pay.	Peons, etc.
1	2	3	4	5	6	7	8	9	10	11	12	13
	PATNA DIVISION.				Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.	
1	Patna			5	2,344 7 5	19	1,764 0 0	60	336 0 0			
2	Gaya			5	3,706 4 6	20	1,716 13 7	76				2 192 0 0
3	Shahabad			5	2,507 10 8	24	2,324 0 0	109	2,006 5 0			
	Total of Patna Division			16	8,617 6 7	63	5,804 13 7	245	2,342 5 0			2 192 0 0
	TIHUT DIVISION.											
4	Saran			4	2,821 9 9	8	915 13 4	74				
5	Champanan			3	1,502 8 0	4	532 0 0	64	15 0 0			
6	Munaffarpur			4	2,763 14 4	12	734 3 0	75	507 0 0			
7	Darbhanga			4	2,100 0 0	8	792 0 0	88	54 0 0	1	60 0 0	1 48 0 0
	Total of Tihut Division			15	9,249 0 1	32	2,974 0 4	301	576 0 0	1	60 0 0	1 48 0 0
	BHAGALPUR DIVISION.											
8	Monghyr			4	2,145 0 0	7	844 7 6	30				2 120 0 0
9	Bhagalpur			5	3,433 15 11	11	1,160 12 9	63				
10	Purnea			4	1,053 13 11	9	1,304 6 10	46				
11	Santal Parganas			7	3,557 0 0	8	1,246 8 9	57				
	Total of Bhagalpur Division			20	11,059 13 10	35	4,556 3 10	196				2 120 0 0
	ORISSA DIVISION.											
12	Cuttack			4	2,044 10 8	10	1,481 0 5	70				
13	Balasore			3	2,039 14 1	4	473 0 5	32	345 0 0			
14	Angul			3	2,639 0 6	2	45 9 7	12	165 0 0			
15	Puri			3	1,751 2 0	29	3,787 14 1					
16	Sambalpur			3	1,595 0 0	6	609 3 1	34				2 48 14 8
	Total of Orissa Division			16	10,069 11 3	51	6,396 11 7	146	510 0 0			2 48 14 8
	CHOTA NAGPUR DIVISION.											
17	Hazaribagh			4	1,688 5 11	5	1,103 8 9	44				
18	Ranchi			5	3,301 8 0	4	759 0 0	47				
19	Palamu			3	1,099 12 2	9	1,309 10 7	25				
20	Manbhum			19	2,702 5 4	30	2,942 15 6	41	450 0 0			
21	Singbhum			3	1,410 12 0	4	395 14 0	23				
	Total of Chota Nagpur Division			34	11,092 11 5	52	6,402 1 4	181	450 0 0			
	Total of Vaccine Circle			101	50,027 11 2	233	26,123 14 8	1,073	3,878 5 0	1	60 0 0	7 408 14 8
	ESTABLISHMENT OF THE ASSISTANT DIRECTOR OF PUBLIC HEALTH, NORTH BIHAR CIRCLE.			1	11,036 11 0					2	1,219 0 0	2 274 0 0
	DITTO SOUTH BIHAR CIRCLE			1	10,675 2 9					2	1,338 11 2	2 262 5 9
	DITTO CHOTA NAGPUR AND ORISSA CIRCLE.			1	10,075 0 0					2	1,181 4 0	2 235 4 6
	Total			3	31,716 13 9					6	3,738 15 2	6 711 10 8
	Total of Province			104	82,744 8 11	331	26,133 14 8	1,073	3,878 5 0	7	3,738 15 2	13 1,110 8 11

Province of Bihar and Orissa during the year 1921-22.

Total pay of establishment.					Paid from							Number of all successful vaccinations and re-vaccinations.	Average cost of each successful case.
Total pay of establishment.	Travelling allowance.	Contingencies.		Total cost.	Imperial Fund.	Provincial Fund.	Local Fund.	Municipalities.	Native States.	Total.			
		Cost of lymph.	Other contingencies.										
13	14	15	16	17	18	19	20	21	22	23	24	25	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	
4,444 7 5	1,520 10 1	...	362 10 0	6,327 11 6	...	5,083 7 6	840 0 0	1,514 4 0	...	6,327 11 6	63,297	0 1 7	
5,014 2 1	567 3 0	...	386 5 6	6,507 11 1	...	4,791 10 0	1,375 3 4	799 13 9	...	6,507 11 1	47,710	0 2 6	
6,897 15 8	2,096 3 11	...	232 14 9	9,137 3 4	...	6,743 1 10	1,840 0 0	814 0 6	...	9,137 3 4	69,010	0 2 1	
16,955 9 2	4,094 1 6	...	981 14 3	22,032 8 11	...	15,088 3 4	3,766 3 4	3,169 2 3	...	22,032 8 11	175,017	0 2 0	
3,737 7 1	567 5 6	...	227 14 0	4,532 10 7	...	3,488 15 3	182 6 0	831 5 4	...	4,532 10 7	37,865	0 1 11	
2,040 8 0	1,083 5 6	...	97 1 0	3,726 14 6	...	2,694 14 6	180 0 0	352 0 0	...	3,226 14 6	36,927	0 1 4	
4,005 1 4	548 1 0	...	136 0 0	4,688 2 4	...	3,440 15 4	907 0 0	734 3 0	...	4,688 2 4	82,124	0 0 10	
3,114 0 0	1,576 10 1	...	208 0 0	4,696 10 1	...	3,626 10 1	54 0 0	1,016 0 0	...	4,696 10 1	85,504	0 0 10	
12,906 0 5	3,572 6 1	...	668 15 0	17,144 5 6	...	13,257 7 2	923 6 0	2,963 8 4	...	17,144 5 6	245,220	0 1 1	
3,109 7 6	1,519 9 6	...	232 5 11	4,861 6 11	...	3,719 9 3	416 3 9	653 0 11	...	4,861 6 11	54,215	0 1 5	
4,064 13 8	697 13 6	...	283 4 0	5,545 14 2	...	4,165 9 5	690 1 9	774 3 0	...	5,545 14 2	62,115	0 1 5	
3,258 4 9	1,223 0 2	...	190 1 3	4,680 6 2	...	3,246 14 1	636 4 10	897 3 3	...	4,680 6 2	36,428	0 2 0	
4,833 8 9	2,988 0 0	...	114 10 3	7,936 3 0	...	6,079 0 0	714 0 0	582 3 0	...	7,936 3 0	50,167	0 2 6	
16,768 1 8	6,428 7 2	...	829 5 5	23,923 14 3	...	17,512 0 9	2,372 10 4	2,609 3 2	...	23,923 14 3	202,945	0 1 9	
3,525 11 1	1,161 5 1	...	114 2 8	4,801 3 10	...	3,360 15 9	880 10 2	643 9 11	...	4,801 3 10	61,434	0 1 8	
2,857 14 6	1,013 4 0	...	69 0 0	3,931 2 6	...	3,451 2 1	199 0 0	374 0 8	...	3,931 2 6	26,590	0 2 4	
2,849 10 1	828 13 11	...	40 0 0	3,515 8 0	...	3,315 8 0	...	...	...	3,515 8 0	4,895	0 11 3
5,539 0 1	1,556 14 5	...	90 0 0	7,115 14 6	...	5,398 0 5	3,593 2 1	194 12 0	...	7,115 14 6	34,507	0 3 3	
2,253 1 9	845 9 0	...	69 0 0	3,167 11 3	...	2,492 3 6	353 1 9	217 6 0	...	3,167 11 3	10,823	0 2 8	
17,025 5 6	7,292 14 5	...	373 4 2	22,691 5 1	...	16,164 13 9	5,006 14 0	1,429 12 4	...	22,691 5 1	148,408	0 2 5	
2,901 14 8	1,556 15 6	...	110 15 3	4,668 13 8	...	3,365 4 8	710 0 0	387 8 9	...	4,668 13 8	20,584	0 2 6	
4,031 8 0	427 3 0	...	80 0 0	4,538 11 0	...	3,408 11 0	...	750 0 0	...	4,538 11 0	28,697	0 1 10	
2,009 6 9	1,338 13 8	...	71 12 6	4,220 0 11	...	3,010 6 4	890 10 7	319 0 0	...	4,220 0 11	15,709	0 3 11	
6,095 4 10	1,354 4 7	...	70 0 0	7,519 9 6	...	5,964 9 11	3,262 0 0	872 15 6	...	7,519 9 6	49,181	0 2 9	
1,806 10 6	832 14 6	...	50 6 0	2,690 15 0	...	2,203 10 6	151 7 0	243 13 6	...	2,690 15 0	10,905	0 2 7	
17,854 12 9	5,411 3 3	...	302 1 0	23,658 1 9	...	16,542 10 5	5,016 1 7	2,105 5 9	...	23,658 1 9	115,508	0 2 7	
80,503 13 0	24,709 0 5	...	3,241 8 7	1,08,460 6 0	...	78,895 3 5	10,909 3 3	12,595 15 10	...	1,08,460 6 0	917,188	0 1 10	
12,459 11 0	3,273 6 9	...	610 1 11	17,332 3 6	...	17,348 8 8	...	...	...	17,332 3 6	...	...
12,210 3 8	2,608 4 6	...	898 4 1	15,692 12 3	...	15,632 12 3	...	...	...	15,632 12 3	...	...
11,491 8 6	3,635 15 0	...	270 4 0	15,397 11 6	...	15,397 11 6	...	...	...	15,397 11 6	...	...
37,167 7 2	9,517 10 3	...	1,727 10 0	48,412 11 5	...	48,412 11 5	...	...	...	48,412 11 5	...	...
1,17,076 4 8	34,226 10 8	...	4,970 3 7	1,55,873 1 11	...	1,27,807 14 10	16,030 3 3	12,595 15 10	...	1,55,873 1 11	917,158	0 2 8	

B.—DISPENSARY VACCINATION.

STATEMENT No III.—Showing Dispensary Vaccination in the Province of Bihar and Orissa during the year 1921-22.

[illegible]

COMPARATIVE STATEMENT No. IV.—Showing the number of persons primarily vaccinated, and the number of those per

Establishment.			Persons primarily							
			1912-13		1913-14		1914-15		1915-16	
			Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
			2	3	4	5	6	7	8	9
Government	...	...	...	...	...	649	515	10,277	10,046	
Municipal	...	...	43,379	42,311	44,167	42,480	47,235	45,310	43,099	41,661
Local Fund	...	...	86,551	85,965	82,592	81,790	76,264	75,263	94,056	84,636
Dispensaries	...	...	188	185	186	186	178	176	285	216
Licensed Vaccinators	...	...	1,133,310	1,126,927	1,149,467	1,143,922	1,114,753	1,109,554	1,065,023	1,059,266
Total	...	...	1,263,428	1,255,388	1,276,412	1,268,368	1,239,079	1,230,821	1,212,740	1,195,824

ons who were successfully vaccinated in the Province of Bihar and Orissa in each of the undermentioned official years.

ecinated.

1916-17		1917-18		1918-19		1919-20		1920-21		1921-22	
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.	Total Number.	Number successfully vaccinated.
10	11	12	13	14	15	16	17	18	19	20	21
3,963	3,441	6,984	6,060	6,637	5,941	7,363	6,520	1,927	1,831	891	825
38,645	37,226	37,586	36,107	36,573	35,213	36,810	35,428	32,858	11,541	31, 36	30,040
80,353	73,103	82,772	77,911	59,639	56,495	69,847	66,946	80,337	77, 39	71,144	68,523
202	202	181	177	129	139	178	178	262	262	...	...
922,991	913,264	931,519	926,281	816,096	811,506	811,168	806,217	854,339	818,948	800,424	797,357
1,046,154	1,027,236	1,059,072	1,046,526	919,084	900,294	925,366	915,289	969,723	960,521	903,595	893,745

STATEMENT No. F.—Showing particulars of vaccination

District.	Total number inspected—										Percentage of	
	Total number of persons vaccinated.		By Assistant Director of Public Health or Civil Surgeons.				By Native Superintendents or other Inspecting Officers.				By Assistant Director Civil	
			Assistant Director of Public Health.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.		Assistant Director of Public Health.	
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
1	2	3	4	5	6	7	8	9	10	11	12	13
Patna ...	69,873	722	6,004	...	...	...	13,019	...	15,496	...	10'50	...
Gaya ...	42,178	1,649	3,483	...	315	1,528	8,907	...	14,345	...	8'25	...
Shahabad ...	69,080	545	4,012	...	1,000	...	6,609	...	13,365	...	5'80	...
Saran ...	37,661	329	...	...	404	194	2,152	...	9,890	...	...	...
Champaran ...	35,919	2,301	9,070	...	2,025	1,522	41,733	24	20,648	10	23'15	...
Muzaffarpur ...	82,305	364	10,259	...	2,089	122	14,002	...	27,832	7	12'45	...
Darbhanga ...	68,670	116	6,723	...	3,021	102	20,040	...	24,187	...	7'59	...
Monghyr ...	54,206	1	598	...	1,738	36	6,936	79	11,115	41	1'84	...
Bhagalpur ...	60,512	2,977	1,485	...	616	2,143	11,894	...	27,853	...	2'45	...
Parera ...	34,534	3,730	741	...	2,002	...	5,892	254	9,288	148	2'13	...
Santal Parganas ...	49,024	2,561	...	...	2,141	143	6,047	82	18,363	144	...	...
Cuttack ...	60,882	1,863	2,086	...	274	601	4,081	64	7,779	13	3'43	...
Balasore ...	25,019	1,774	1,739	...	452	405	5,021	203	8,763	157	6'77	...
Angul ...	5,203	36	4,384	...	1,408	...	2,039	12	4,017	23	84'25	...
Puri ...	35,442	601	2,188	...	113	230	7,953	53	15,320	179	6'17	...
Sambalpur ...	20,344	859	1,131	...	2,066	536	4,374	...	7,561	...	5'55	...
Hazaribagh ...	28,612	2,190	...	...	2,253	61	3,753	43	9,007	89	...	...
Ranchi ...	35,325	5,651	485	...	1,500	...	10,637	609	17,098	...	1'37	...
Valamun ...	14,746	4,120	2,422	...	1,020	...	4,373	94	5,090	129	16'42	...
Maub'ram ...	43,067	2,515	1,816	...	3,009	662	3,084	64	18,090	829	5'75	...
Singbhum ...	16,044	1,041	1,471	...	2,051	345	4,441	251	7,490	244	9'15	...
Total ...	903,596	36,266	61,431	...	31,207	8,600	162,559	1,972	245,772	2,023	6'83	...

verified by Inspecting Officers during the year 1921-22.

Inspection to total number vaccinated.						Percentage of cases found successful to total number inspected.								Percentage of successful cases reported by vaccinators.	
of Public Health or Surgeons.		By Native Superintendents or other Inspecting Officers.				By Assistant Director of Public Health or Civil Surgeons.				By Native Superintendents or other Inspecting Officers.					
Civil Surgeons.		District Inspectors.		Sub-Inspectors.		Assistant Director of Public Health.		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.		
14	15	16	17	18	19	20	21	22	23	24	25	26	27			28	29
...	...	20'38	...	24'26	...	73'81	...	...	...	92'48	...	95'86	...	98'64	94'21
75	63'17	21'11	...	34'01	...	96'73	...	94'60	44'76	99'07	...	99'21	...	99'44	46'05
1'45	...	9'56	...	19'35	...	84'00	...	97'70	...	97'95	...	90'89	...	90'34	70'45
1'06	51'25	5'77	...	20'12	...	...	...	92'25	23'78	99'19	...	98'04	...	99'12	30'53
7'28	66'14	41'01	1'04	57'46	'43	97'30	...	92'73	48'81	99'84	33'33	99'42	99'00	99'67	48'80
2'43	30'95	18'09	...	33'29	1'77	96'05	...	100'00	51'83	98'77	...	98'80	87'14	99'43	54'68
4'42	87'93	23'60	...	27'28	...	90'38	...	99'63	62'74	99'37	...	99'67	...	99'70	55'17
3'20	18'27	12'58	49'19	20'56	20'81	95'19	...	99'48	11'11	99'84	41'29	10'06	24'39	99'93	22'33
1'02	71'98	19'51	...	43'02	...	90'73	...	100'	61'76	98'08	...	17'61	...	99'83	57'23
5'91	...	16'91	6'80	27'06	3'90	...	...	99'17	...	96'09	40'15	99'27	45'94	99'27	48'47
4'37	5'77	12'33	3'22	37'36	5'00	...	...	99'39	57'43	99'55	58'53	99'30	91'25	...	...
45	32'25	6'70	3'43	12'77	'69	76'22	...	99'63	70'21	99'28	18'75	99'47	60'23	99'68	61'99
1'76	52'83	23'11	16'08	34'17	12'44	72'69	...	98'23	90'61	98'54	63'05	18'73	63'05	99'71	69'47
27'93	...	39'18	61'11	77'23	63'88	75'17	...	97'20	...	95'53	54'54	93'53	47'83	94'79	100'
31	33'09	22'45	11'49	43'25	38'49	99'17	...	97'34	90'56	99'25	47'17	99'11	40'56	97'40	53'05
10'10	61'09	22'48	...	28'15	...	84'52	...	95'47	59'81	95'82	...	96'18	...	99'81	60'88
8'04	2'77	13'39	3'50	35'36	4'04	...	...	99'73	100'	97'76	81'33	98'64	83'89	...	99'39
4'41	...	30'11	12'36	50'93	...	81'74	...	98'87	...	97'94	85'69	96'44	...	99'97	65'07
6'91	...	29'65	2'28	38'58	3'37	87'65	...	98'03	...	80'84	27'23	67'34	56'83	98'43	57'61
0'83	97'17	11'00	3'49	43'01	32'96	87'50	...	99'83	76'13	99'84	81'37	95'30	63'93	95'5	55'19
12'78	33'23	27'40	24'11	46'65	23'43	81'75	...	98'73	52'31	98'04	82'47	98'83	72'4	99'06	58'08
3'49	24'21	18'22	5'55	32'73	5'67	87'73	...	99'03	59'50	98'35	68'76	98'01	63'07	99'14	56'18

STATEMENT No. VI.—Showing side by side the ratios, per 1,000 of population, of Deaths from

District.	1912-13		1911-12		1914-15		1915-16	
	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.
1	2	3	4	5	6	7	8	9
Patna ...	·07	48,768	·17	48,480	·48	57,665	·71	68,438
Gaya ...	·008	66,935	·03	67,817	·10	65,855	·63	75,641
Shahabad ...	·006	47,086	·09	53,812	·32	62,079	·45	65,016
Saran ...	·006	85,339	·06	81,699	·06	80,739	·15	79,608
Champaran ...	·07	55,486	·02	63,100	·10	64,146	·14	68,255
Muzaffarpur ...	·04	101,406	·01	103,052	·09	105,292	·24	104,624
Darbhanga ...	·01	93,546	·03	93,735	·24	97,760	·41	95,237
Monghyr ...	·08	84,475	·48	89,024	·46	89,749	·42	87,999
Bhagalpur ...	·41	77,274	·31	75,244	·35	75,831	·38	74,532
Purnea ...	·14	56,916	·22	60,587	·30	58,496	·38	51,206
Santal Pargannas ...	·19	60,236	·27	64,815	·18	53,162	·37	57,558
Cuttack ...	·01	137,175	·01	134,227	·06	113,297	·69	89,925
Balasore ...	·006	68,271	·11	69,059	·90	53,281	·90	38,609
Angul ...	...	5,906	...	7,945	...	7,680	·01	9,686
Puri ...	·02	55,642	·07	47,269	·02	33,320	·30	37,595
Sambalpur ...	·04	25,955	·05	25,063	·02	27,561	·75	22,606
Hazaribagh ...	·02	46,150	·02	51,777	·03	48,209	·49	46,709
Ranchi ...	·004	51,096	·01	49,989	·03	50,958	·12	52,111
Palamau ...	...	13,683	·07	21,459	·10	28,327	·17	31,808
Manbhum ...	·035	61,191	·02	61,316	·43	73,369	·63	54,056
Singhbhum ...	·05	20,254	·03	23,496	·45	25,909	·28	19,526
Total ...	·06	1,270,859	·11	1,292,965	·22	1,273,285	·42	1,230,745

small-pox and the number of successful vaccinations during the ten years ending 1921-22.

1916-17		1917-18		1918-19		1919-20		1920-21		1921-22	
Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.	Ratio of deaths from small-pox.	Number of successful vaccinations.
10	11	12	13	14	15	16	17	18	19	20	21
·28	67,870	·15	68,529	·13	68,535	·85	68,573	2·79	71,340	·46	63,297
·37	56,139	·18	62,246	·21	56,114	·62	66,449	·77	60,988	·24	42,710
·26	51,176	·10	51,858	·02	41,625	·24	42,394	·55	62,418	·22	69,010
·27	74,895	·16	77,721	·07	67,443	·10	66,882	·39	86,000	·13	37,665
·07	49,091	·11	51,755	·14	50,191	·13	53,458	·29	56,914	·08	36,927
·20	88,702	·09	85,898	·02	86,664	·10	87,182	·13	89,230	·04	82,124
·28	96,020	·07	93,206	·08	86,555	·10	88,770	·17	93,463	·03	88,504
·17	67,229	·10	68,361	·05	56,576	·24	59,814	·28	55,104	·14	54,216
·22	66,899	·22	68,166	·09	59,034	·23	66,741	·22	68,176	·13	62,115
·33	53,018	·64	49,450	·52	54,209	·96	50,349	·93	51,920	·29	36,428
·43	46,826	·14	56,728	·06	46,659	·30	44,691	·37	45,864	·05	50,187
·46	73,415	·81	62,177	·89	51,815	·91	55,008	·30	60,775	·04	61,424
·24	22,178	·03	25,800	·09	20,942	·86	22,139	·54	27,597	·09	21,380
·15	9,226	·01	6,956	·06	6,751	1·11	5,739	...	4,060	...	4,968
·52	20,228	·26	34,639	·75	33,543	3·12	32,940	·77	41,225	·08	34,897
1·09	19,938	·24	23,345	·07	15,361	·68	13,835	·27	18,523	·03	20,829
·19	42,148	·07	39,751	·07	35,632	·24	35,026	·13	29,123	·02	29,524
·05	43,667	·03	47,094	·04	31,870	·90	40,559	1·38	38,450	·21	38,997
·15	25,542	·06	26,893	·06	20,472	1·26	21,226	1·76	19,346	·56	16,898
·23	49,379	·02	52,289	·05	37,807	·44	57,908	·11	43,192	·02	43,484
·12	17,429	·09	17,872	·10	15,542	1·21	19,595	·52	18,023	·32	16,606
·28	1,063,015	·19	1,070,784	·17	942,370	·53	989,278	·56	1,013,696	·14	917,188

STATEMENT No. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1921-22.

District.	Towns.	Number of births during the year ending 31st March 1922.	Number of deaths amongst infants under one year during the year ending 31st March 1922.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1922.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Patna	Patna ...	3,483	615	1,858	1st October 1884.
	Bihar ...	678	91	519	1st April 1887.
	Dinapur ...	758	152	581	28th January 1891.
	Barh ...	319	61	142	1st April 1887.
	Khagole ...	263	45	26	12th July 1910.
	Total ...	5,501	1,064	3,126	
Gaya	Gaya ...	1,582	682	820	1st January 1883.
	Tikari ...	187	31	46	3rd January 1891.
	Daudnagar ...	257	59	170	Ditto.
	Total ...	2,026	772	1,036	
Shahabad	Arrah ...	1,230	281	897	20th July 1885.
	Buxar ...	314	61	299	1st April 1887.
	Dumraon ...	429	112	249	Ditto.
	Jagadispur ...	248	43	222	20th December 1890.
	Sassaram ...	718	154	512	1st April 1887.
	Bhabhua ...	187	45	135	Ditto.
	Total ...	3,126	696	2,314	
Total of Patna Division.		10,653	2,432	6,476	
Saran	Chapra ...	1,300	245	617	1st April 1887.
	Revelganj ...	311	66	191	12th December 1890.
	Siwan ...	312	49	253	1st April 1887.
	Total ...	1,923	360	1,061	
Champeran	Motihari ...	417	64	273	1st April 1887.
	Bettiah ...	810	166	381	Ditto.
	Total ...	1,227	230	654	

STATEMENT No. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1921-22—contd.

District.	Towns.	Number of births during the year ending 31st March 1922.	Number of deaths amongst infants under one year during the year ending 31st March 1922.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1922.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Muzaffarpur	Muzaffarpur	1,196	222	824	1st January 1886.
	Sitamarhi	425	61	214	1st April 1887.
	Hajipur	678	192	165	1st May 1890.
	Lalganj	293	61	252	1st April 1887.
	Total	2,592	536	1,525	
Darbhanga	Darbhanga	2,088	312	401	24th May 1894.
	Roserha	343	65	84	3rd January 1891.
	Samastipur	230	14	28	25th July 1910.
	Madhubani	528	84	81	1st April 1887.
	Total	3,189	475	594	
	Total of Tirhut Division.	8,931	1,601	3,834	
Monghyr	Monghyr	1,564	213	148	15th November 1882.
	Jamalpur	964	122	497	Litto.
	Total	2,528	355	645	
Bhagalpur	Bhagalpur	1,908	305	632	15th February 1884, withdrawn on 16th October 1895; re-extended on 18th August 1898.
	Colgong	131	28	51	Ditto, re-extended on 19th December 1901.
	Total	2,039	333	683	
Purnea	Purnea	356	41	187	1st July 1887.
	Kishanganj	126	10	95	12th November 1892.
	Katihar	253	26	52	8th August 1910.
	Forbesganj	107	7	91	9th August 1912.
	Total	842	84	425	

STATEMENT No. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1921-22—contd.

District.	Towns.	Number of births during the year ending 31st March 1922.	Number of deaths amongst infants under one year during the year ending 31st March 1922.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1922.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Santal Parganas	Sahibganj	487	58	230	1st May 1884.
	Deoghar	283	38	51	Ditto.
	Madhupur	254	36	70	22nd August 1910.
	Dumka	218	26	93	Notifications, dated the 9th April 1884, and 23rd August 1910.
	Total	1,242	158	444	
	Total of Bhagalpur Division.	6,651	930	2,197	
Cuttack	Cuttack	826	159	410	1st September 1884.
	Kendrapara	391	72	41	7th February 1888.
	Jajpur	253	81	18	Ditto.
	Total	1,470	312	469	
Balasore	Balasore	232	86	103	7th February 1889.
Puri	Puri	696	238	223	Ditto.
Sambalpur	Sambalpur	300	69	161	7th March 1895.
	Total of Orissa Division.	2,698	705	956	
Hazaribagh	Hazaribagh	298	16	206	1st January 1885.
	Chatra	211	16	90	1st August 1885.
	Giridih	278	63	89	8th September 1910.
	Total	787	95	385	
Ranchi	Ranchi	1,048	74	978	1st April 1887.
	Lohardaga	151	26	67	25th June 1892.
	Total	1,199	100	1,045	

STATEMENT No. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1921-22—concl'd.

District.		Towns.		Number of births during the year ending 31st March 1922.	Number of deaths amongst infants under one year during the year ending 31st March 1922.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1922.	Date of extension of Vaccination Act to town.
1		2		3	4	5	6
Palamau	...	Daltonganj	...	269	38	80	9th October 1890.
Manbhum	...	Purulia	...	432	40	284	1st January 1887.
		Raghunathpur	...	133	9	70	9th February 1894.
		Jhalda	...	129	13	47	9th July 1892.
		Dhanbad	...	159	6	29	5th December 1918.
		Total	...	813	68	430	
Singhbhum	...	Chaibassa	...	210	46	187	20th June 1892.
		Chakradharpur	...	125	14	55	13th January 1919.
		Total	...	335	60	242	
		Total of Chota Nagpur Division.		3,284	355	2,153	
Total for the Province				32,373	6,029	15,645	

Provincial Statement showing the different kinds of lymph

District.	Primary vaccination.											
	Direct from the calf.					With lanoline or glycerine lymph.					Arm-to-arm	
	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.
1	2	3	4	5	6	7	8	9	10	11	12	13
Patna	63,873	62,931	599	293	98.60	...	...
Gaya	42,178	41,940	150	88	99.44	...	...
Shahabad	69,080	8,626	381	73	99.34	...	...
Saran	37,831	37,548	177	156	99.12	...	...
Champaran	35,919	35,804	61	46	99.67	...	...
Muzaffarpur	80,765	81,909	436	20	99.43	...	...
Darbhanga	88,639	88,420	202	17	99.77	...	...
Monghyr	54,236	54,171	29	6	99.93	...	...
Bhagalpur	60,512	60,411	63	38	99.63	...	...
Purnea	34,834	34,620	176	33	99.38	...	...
Santal Parganas	49,024	48,812	98	111	99.56	...	...
Cuttack	60,882	60,393	193	296	99.19	...	...
Balasore	25,619	25,471	74	74	99.71	...	...
Angul	5,203	4,932	191	80	94.79	...	...
Juni	35,432	34,522	209	651	97.40	...	...
Fambalpur	50,344	20,305	3	35	99.81	...	...
Hazaribagh	28,012	27,982	30	...	99.89	...	...
Ranchi	35,325	35,317	...	8	99.97	...	...
Palamau	14,716	14,514	58	174	98.42	...	...
Maobhum	43,467	42,075	865	527	93.79	...	...
Singbhum	16,044	15,991	28	25	99.66	...	...
TOTAL	903,595	896,745	4,001	2,759	99.24	...	...

II.

used and their rates of success during the year 1921-22.

Re-vaccination.																	
vaccination.			Direct from the calf.					With lanoline or glycerine lymph.					Arm-to-arm vaccination.				
Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
...	722	316	346	60	43.76	...	...	...	...	...
...	1,640	770	866	4	46.93	...	...	...	...	...
...	545	384	135	23	70.45	...	...	...	...	...
...	329	117	198	8	39.56	...	...	...	...	...
...	2,301	1,127	699	479	48.80	...	...	...	...	...
...	394	213	154	27	54.58	...	...	...	...	...
...	116	64	38	14	55.17	...	...	...	...	...
...	197	44	150	3	22.33	...	...	...	...	...
...	2,977	1,704	1,017	256	57.24	...	...	...	...	...
...	3,780	1,806	1,564	358	42.76	...	...	...	...	...
...	2,561	1,375	851	332	53.68	...	...	...	...	...
...	1,803	1,031	632	270	55.30	...	...	...	...	...
...	1,774	909	407	418	69.07	...	...	...	...	...
...	36	36	...	...	100	...	...	...	...	...
...	695	375	164	156	53.93	...	...	...	...	...
...	859	523	249	87	60.88	...	...	...	...	...
...	2,199	1,564	386	249	76.07	...	...	...	...	...
...	5,651	3,689	1,449	322	65.13	...	...	...	...	...
...	4,170	2,384	265	1,471	57.86	...	...	...	...	...
...	2,515	1,409	740	366	56.02	...	...	...	...	...
...	1,011	614	356	71	58.98	...	...	...	...	...
...	33,256	20,443	10,626	5,147	56.38	...	...	...	...	...



