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ANNUAL
VACCINATION REPORT
BIHAR AND ORISSA
FOR THE YEAR
1926-27

BY

LIEUT-COL. J. A. S. PHILLIPS, D.P.H., I.M.S.,
Offg. Director of Public Health, Bihar and Orissa.



PATNA :
SUPERINTENDENT, GOVERNMENT PRINTING, BIHAR AND ORISSA.
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FOR THE YEAR 1920-21

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ANNUAL VACCINATION REPORT

BIHAR AND ORISSA.

FOR THE YEAR

1926-27.

1. *Staff*.—Lieutenant-Colonel W. C. Ross, I.M.S., held charge of the department up to 14th April 1926 and Lieutenant-Colonel J. A. S. Phillips, I.M.S., for the remaining period of the year.

The undermentioned officers held charge of the three circles for periods as noted against their names :—

(1) *South Bihar Circle*.—Captain S. L. Mitra, I.M.S., from 1st April 1926 to 31st March 1927.

(2) *North Bihar Circle*.—Dr. J. L. Das from 1st April to 13th December 1926.

Dr. B. P. Mazoomdar from 14th December 1926 to 31st March 1927.

(3) *Chota Nagpur and Orissa Circle*.—Dr. T. Sebastian from 1st April to 18th April 1926 and from 24th May 1926 to 31st March 1927. Lieutenant-Colonel J. A. S. Phillips, I.M.S., from 19th April to 23rd May 1926.

Dr. T. Sebastian held charge of the Vaccine Depot at Namkum throughout the year except for the period when he was on leave (19th April to 23rd May) when Lieutenant-Colonel J. A. S. Phillips, I.M.S., held charge.

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 1,111 licensed and 278 paid against 1,105 licensed and 226 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 1,351,084 as compared with 1,297,768 last year. This increase is most satisfactory and is attributable to three main causes :—

- (a) The increasing area where vaccination is compulsory.
- (b) The widespread epidemic of small-pox in the province which induced the people to seek protection by vaccination.
- (c) Increased efforts on the part of the vaccination staff.

From information I have been able to elicit I do not consider that the difficulties experienced by the vaccination staff in performing operations have in any way diminished, or that the opposition on the part of parents to allow their children to be vaccinated decreased. Reports from all Civil Surgeons and the three Assistant Directors of Public Health bear this out. In my

opinion the increase in the number of vaccinations done in 1926 is largely due to fear of infection in a year when small-pox prevailed in epidemic form in all districts of the province.

Of the total number of operations performed 1,332,312 were done by the staff of the vaccination department as compared with 1,277,814 done last year. 1,130,934 operations were primary and 201,378 were re-vaccinations against 1,084,230 primary operations and 193,584 re-vaccinations done last year.

There was an increase of 46,704 in the number of primary operations and 7,794 in the number of re-vaccinations during the year. Of the total operations performed (1,332,312), 1,239,476 equal to 93.03 per cent. were successful as compared with 1,191,042 equal to 93.21 last year.

The number of operations performed in municipalities decreased by 21,075 as compared with last year's returns. The total number of operations performed was 72,587 and the number of successful operations was 50,762, of which 34,780 were primary and 15,982 were re-vaccinations as compared with 39,370 and 26,036, respectively, last year. The ratios of success in municipalities were 96.41 per cent. for primary operations and 43.77 per cent. for re-vaccinations as compared with 97.64 per cent. and 48.80 per cent., respectively, last year.

The number of operations performed in rural areas was 1,259,725 as compared with 1,184,152 last year and the ratios of successes were 99.49 per cent. for primary operations and 60.33 for re-vaccinations.

3. *Vaccination in districts.*—All the three districts of the Patna division reported an increase in the number of operations performed, Patna (26,574), Gaya (5,092), and Shahabad (20,811).

The districts of Muzaffarpur, Darbhanga and Champaran recorded increases of 9,711, 5,353 and 11,607 respectively, whereas Saran recorded a decrease of 5,186.

All the districts of the Bhagalpur division recorded increases. The Santal Parganas district recorded the highest increase in this division, viz., 7,045.

With the exception of Balasore, all the other districts of Orissa recorded decreases in the number of operations, the greatest decrease being in Puri (24,448). The district of Balasore recorded an increase of 10,763.

With the exception of Manbhum and Hazaribagh, the three other districts recorded decreases in the number of operations, the greatest decrease being in Singhbhum (4,525).

4. *Vaccination in towns and compulsory areas.*—Statement VII shows that during the year, 16,720 children under one year of age, out of an available number of 31,529 or 53.03 per cent. were successfully vaccinated.

The towns of Muzaffarpur, Darbhanga and Monghyr show the smallest proportion of work done, and the towns of Barh and Daltonganj also made 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 177,286 primary operations and 294,729 re-vaccinations were performed as compared with 178,698 and 277,553, respectively, in the previous year.

6. *Protection of infants.*—During the year under report the number of children under one year available for vaccination was 1,080,668 and the number of successful operations was 417,112 equal to 386 per thousand against 378,345 or 356 per thousand successful operations out of 1,063,708 children available during the previous year. The protection of infants in municipalities is separately shown in statement VII. It gives a ratio of 540 per thousand of the surviving infant population as compared with 570 in the previous year.

These figures are unsatisfactory inasmuch as they show that far more than half of the total number of operations is 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, as there is a strong prejudice against vaccination of infants at an early age. The advantages in retaining the limit of age for compulsory primary vaccination as it now stands are obvious, but prejudices in India die hard and it will take years of education to dispel this one.

7. *Incidence and mortality of small-pox.*—During the last ten years, the total number of deaths from small-pox in the districts of this province has been 128,998.

During the first quinquennium the number of deaths was 55,691, and during the second 73,307. In each of the last five years the mortality was as follows:—2,695, 3,893, 8,345, 22,748 and 35,626.

This shows a progressively increasing annual total, but does not necessarily mean that this steady increase is going to continue. Small-pox is endemic in the province, and will continue to be so until and unless vaccination and re-vaccination are made compulsory. Epidemics of the disease occur at intervals of about five or six years and at these times the number of both primary and secondary vaccinations done increases. The epidemic persists in varying intensity for two or three years and then dies out, but small-pox still continues in endemic form. At the end of another five or six years there is a recrudescence and it appears in epidemic form again. In 1926 we were at the height of the epidemic and there are already signs of its lessening in most of the districts.

The provincial ratios of the mortality from small-pox per thousand of population during the last five years have been 0·07, 0·11, 0·24, 0·67 and 1·05.

8. *Prevention of small-pox.*—The statistics given in the previous paragraphs indicate the insufficiency and inefficiency of the existing arrangements for vaccination, and it almost appears as if we relied more on natural causes to eventually arrest an epidemic, than in our efforts at prevention by vaccination.

Small-pox is a preventible disease and vaccination can prevent it, as it has in countries where it is properly carried out. In the light of this knowledge and in face of the above facts there is a great necessity for a stronger and more complete vaccination policy.

The question of compulsory vaccination throughout the province has been under consideration for some time and primary vaccination has been and is being extended to whole districts and areas in districts. Difficulty is still being experienced in certain areas and amongst certain classes notably the Brahmans, Rajputs and Bunniahs and in some cases the Muhammadans, of almost every district, and where these difficulties become acute, the Vaccination Act is extended on application from the district officials.

But the process is a slow one, and the time has now come when vaccination should be made compulsory throughout the province and should be free. Compulsory primary vaccination alone, although it will be beneficial, will not

solve the difficulty completely. The immunity conferred by vaccination in infancy is by no means lifelong, and if it is seriously desired that small-pox should be eradicated, re-vaccination will also have to be compulsory, until such time as the people themselves come to appreciate the benefits of it.

9. *Inspection of work.*—During the year under report the Assistant Directors of Public Health inspected 78,083 primary vaccinations as against 71,574 in the previous year.

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 all the 21 districts in the province.

The Civil Surgeons of the province inspected 30,934 primary and 7,071 re-vaccination operations against 25,046 primary and 5,684 re-vaccinations last year.

It should be noted that the methods of inspection of Civil Surgeons and Assistant Directors of Public Health are different. Civil Surgeons inspected 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 Depôt 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. 4,297,874 doses of vaccine were manufactured during the year as compared with 4,596,543 doses last year. The number of doses issued was 3,238,632 against 2,881,416 in 1925-26. The number of doses in stock at the end of the year was 5,692,121. The number of cattle used during the year was 707 as compared with 828 in the previous year, and the average yield of crude vaccine was over 59 grammes per animal as compared with 56 grammes in the previous year. The working cost of the depôt for the year amounted to Rs. 25,686 as compared with Rs. 28,643 in the previous year. The average cost of the vaccine per dose works out at 1.14 pies on the gross expenditure, and as the sale-proceeds of vaccine lymph including a large quantity supplied to Bengal, exceeded the working cost of the depôt by Rs. 3,454-11-8, this sum constituted a nett profit for the year.

11. *Vaccine depôt and cold storage.*—During the year under report there was no serious epidemic amongst calves except a mild outbreak of foot and mouth disease in the latter part of December 1926 which was brought under control at once by the prompt isolation of the infected calves and disinfection.

The total mortality amongst calves was exceptionally low, being only 1.3 per cent. as compared with 4.3 per cent. in 1925-26, 6 per cent. in 1924-25 and 12 per cent. in 1923-24 and 22 per cent. in 1922-23.

Since the cold storage plant was duplicated in 1924-25 there has been no trouble with regard to the storage of vaccine, and the cold storage and machinery worked satisfactorily throughout the year.

Throughout the year cholera vaccine and influenza vaccine were stocked in the depôt and issued throughout the province as required.

12. *Experimental work.*—All seed vaccine was manufactured at the depôt and worked satisfactorily. 4,590 grammes of seed vaccine was prepared and some of this was sold to the Calcutta Corporation to start their work.

The rejuvenation of the seed vaccine was maintained by passage through children, buffalo calves and cow calves.

Experiments with regard to maintaining a low temperature in the bamboo reeds in which the vaccine is supplied during the hot weather were carried out with some success. Experiments were also made with a view to destroying extraneous germs in the vaccine without affecting its potency—these are being continued.

13. *Cost of the department.*—The total cost of the Vaccination Department (excluding the Vaccine Depôt) during the year, as detailed in Statement II, was Rs. 162,082 or Rs. 7,418 more than the previous year. This increase is due partly to the increase of pay earned by the Assistant Director of Public Health, South Bihar Circle, and the leave salary drawn by the Assistant Director of Public Health, North Bihar Circle.

The cost per successful operation was two annas and one pie against two annas in the previous year.

14. *Personal.*—In conclusion I desire to bring to the notice of Government the good work done by Assistant Directors of Public Health—Captain S. L. Mitra, Dr. T. Sebastian and Dr. J. L. Das in charge of South Bihar Circle, Chota Nagpur and Orissa Circle, and North Bihar Circle, respectively, in connection with the inspection of vaccination in their respective circles.

Dr. T. Sebastian was in charge of the Vaccine Depôt in addition to his other duties throughout the year, except for a brief period when he was on leave.

Dr. C. N. Banerji, the Superintendent of the depôt, worked hard and well.

J. A. S. PHILLIPS, LIEUT.-COLONEL, I.M.S.,
Offg. Director of Public Health.

arrangements with regard to maintaining a low temperature in the building
which the weather is so variable during the winter season. The weather was
not so severe as in the previous year. The arrangements were also made with a view to the
the various rooms in the building without affecting the patients there are
being continued.

12. Cost of the Hospital. The total cost of the Hospital for the
year ending the 31st March 1902, during the year, as detailed in the
Annual Report, was Rs. 1,02,082 or Rs. 7.48 more than the previous year. This
increase is due partly to the increase of pay earned by the Assistant Director
of Public Health, and partly to the increase of the salary of the
Assistant Director of Public Health, North India Office.

13. The cost of medical operation and two operations was the amount two
more in the previous year.

14. Various other arrangements I desire to bring to the notice of Govern-
ment the work done by the Assistant Director of Public Health—General
and the Assistant Director of Public Health—North India Office, and the
Assistant Director of Public Health—North India Office, respectively,
in connection with the inspection of vaccination in their respective
divisions.

15. Dr. T. Robinson was in charge of the Vaccine Depot in addition to his
other duties during the year except for a short period when he was on
leave.

Dr. O. N. Sengupta, the Superintendent of the depot, worked hard and
well.

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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.	Primary	
					Male.	Female.	Total.			
1	2	3	4	5	6			7	8	
Patna Division.										
1	Patna	{ By paid Vaccinators ... By licensed Vaccinators ...	1,574,287	701	{ 25 62	14,011 39,097	7,216 30,255	21,227 78,253	849 1,278	11,545 78,807
2	Gaya	{ By paid Vaccinators ... By licensed Vaccinators ...	2,152,930	457	{ 17 83	6,205 36,587	4,182 27,705	10,487 58,292	617 703	7,890 57,414
3	Shahabad	{ By paid Vaccinators ... By licensed Vaccinators ...	1,816,821	415	{ 13 82	6,745 36,829	3,244 30,413	9,989 67,242	768 820	5,152 64,023
Total of Patna Division		{ By paid Vaccinators ... By licensed Vaccinators ...	5,544,038	497	{ 55 227	27,071 107,413	14,642 97,373	41,713 204,786	758 902	24,587 200,334
Tirhut Division.										
4	Saran	{ By paid Vaccinators ... By licensed Vaccinators ...	2,339,053	572	{ 11 83	2,187 38,817	1,878 34,777	4,065 73,594	369 886	3,063 73,254
5	Champaran	{ By paid Vaccinators ... By licensed Vaccinators ...	1,940,841	549	{ 19 67	10,468 26,749	5,062 22,992	15,530 49,741	818 742	2,807 41,715
6	Muzaffarpur	{ By paid Vaccinators ... By licensed Vaccinators ...	2,754,945	907	{ 13 79	7,882 40,704	4,457 40,482	12,339 81,186	947 1,217	3,089 81,881
7	Darbhanga	{ By paid Vaccinators ... By licensed Vaccinators ...	2,913,529	870	{ 10 88	5,219 52,440	3,556 48,966	8,775 101,402	877 1,152	3,183 98,813
Total of Tirhut Division		{ By paid Vaccinators ... By licensed Vaccinators ...	9,940,268	789	{ 53 317	25,756 167,716	14,953 153,207	40,709 320,923	768 1,612	12,152 305,666
Bhagalpur Division.										
8	Monghyr	{ By paid Vaccinators ... By licensed Vaccinators ...	2,029,965	518	{ 8 61	2,972 37,497	1,796 33,108	4,768 70,605	596 1,207	2,809 72,783
9	Bhagalpur	{ By paid Vaccinators ... By licensed Vaccinators ...	2,033,770	481	{ 11 63	8,999 35,196	5,136 31,613	14,135 66,809	1,284 1,076	6,221 64,700
10	Purnea	{ By paid Vaccinators ... By licensed Vaccinators ...	2,024,608	405	{ 11 56	2,625 26,281	1,404 23,466	4,029 49,747	369 888	1,603 47,836
11	Santal Parganas	{ By paid Vaccinators ... By licensed Vaccinators ...	1,798,639	329	{ 10 57	8,181 31,108	4,875 27,635	13,056 58,743	1,305 1,050	4,400 63,662
Total of Bhagalpur Division.		{ By paid Vaccinators ... By licensed Vaccinators ...	7,886,982	423	{ 40 237	22,807 120,082	13,211 119,822	36,018 249,904	900 1,054	15,154 285,681
Orissa Division.										
12	Cuttack	{ By paid Vaccinators ... By licensed Vaccinators ...	2,064,678	565	{ 21 53	12,969 18,126	7,851 14,069	20,820 32,195	991 441	10,867 20,014
13	Balasore	{ By paid Vaccinators ... By licensed Vaccinators ...	980,504	470	{ 7 30	7,241 21,975	3,256 17,492	10,497 39,467	1,499 1,315	1,585 26,237
14	Angul	By licensed Vaccinators ...	182,574	112	10	10,770	9,042	20,712	2,071	6,412
15	Puri	By paid Vaccinators ...	651,651	380	35	24,294	20,034	44,328	1,263	36,192
16	Bambalpur	{ By paid Vaccinators ... By licensed Vaccinators ...	759,466	206	{ 4 34	571 10,237	209 10,076	580 20,313	145 497	305 20,163
Total of Orissa Division		{ By paid Vaccinators ... By licensed Vaccinators ...	4,968,873	361	{ 67 147	54,875 61,108	31,350 51,579	86,225 112,687	1,387 756	51,949 81,820

districts of Bihar and Orissa during the year 1926-27.

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
3,332	6,940	11,012	170	9,082	4,529	1,951	99'99	58'58	60'52	1'47	20'15	65,025	41'30	383	0'24
21,848	47,890	78,795	4	355	186	39	99'87	55'52		0'005	5'63				
2,959	4,361	7,797	17	2,597	1,490	449	99'03	60'78		0'21	17'29				
11,788	42,602	67,240	89	878	723	8	99'85	82'91		0'15	0'68				
3,940	1,785	5,093	34	4,847	2,579	150	99'51	54'91		0'68	3'09				
20,725	27,999	63,963	10	3,219	2,304	48	99'92	72'65	42'49	0'01	1'49	56,893	31'27	290	0'11
9,031	12,996	23,903	221	17,126	8,607	2,550	98'09	69'06		0'89	14'89				
60,361	118,487	199,997	103	4,452	3,213	74	99'88	79'39		0'05	1'66				
1,700	953	2,914	69	1,002	438	144	97'33	51'05	33'75	3'22	14'37	67,040	28'65	543	0'23
17,929	50,301	72,681	275	340	279	10	99'59	84'54		0'37	2'94				
1,069	1,449	2,738	36	12,743	7,247	2,605	98'81	70'78		1'28	19'65				
9,620	30,833	41,583	36	6,023	6,354	854	99'76	88'83		0'08	10'64				
713	2,304	3,053	9	9,320	3,137	2,625	98'70	47'56		0'29	28'47				
15,592	75,257	91,419	29	4,305	2,181	331	99'56	53'49	36'37	0'03	7'43	80,787	32'59	349	0'13
1,274	1,741	3,080	62	5,592	1,472	978	99'37	30'80		1'83	17'45				
26,640	71,725	98,453	8	2,589	1,305	116	99'67	53'77		0'008	4'45				
4,765	6,447	11,782	106	28,657	19,244	6,259	93'29	54'88	34'00	1'36	21'88	298,727	29'52	1,647	0'16
69,761	228,116	304,190	248	15,257	10,069	1,301	99'63	72'15		0'11	8'62				
1,506	1,359	2,898	4	1,839	703	382	99'04	49'28	37'02	0'13	20'78	64,153	31'63	240	0'12
24,430	48,159	72,756	7	823	636	45	99'97	82'17		0'019	5'83				
3,057	3,096	6,126	53	7,914	5,333	808	99'30	75'05		0'83	10'21				
25,837	35,166	64,546	10	3,109	2,348	203	99'77	80'79		0'01	6'52				
688	877	1,577	6	2,456	700	209	98'75	35'97		0'04	13'39				
17,909	29,195	47,697	21	1,911	1,124	256	99'69	67'91	37'47	...	7'74	40,643	20'07	333	0'16
2,378	1,854	4,292	61	8,686	5,332	1,731	98'91	70'88		1'38	10'88				
31,029	22,348	53,534	69	5,091	3,094	809	99'89	72'42		0'12	15'92				
7,029	7,218	14,893	123	20,964	12,168	3,171	99'08	68'71		0'81	15'19				
99,114	137,708	238,503	107	10,923	7,202	1,316	99'84	74'96	34'55	0'04	12'05	228,299	28'93	1,234	0'16
4,115	5,529	10,646	141	9,953	4,191	2,689	99'25	57'69		1'29	27'01				
11,549	15,787	28,985	67	3,181	1,181	657	99'88	53'10		0'29	30'06				
471	876	1,583	2	8,912	5,699	1,400	100'09	73'33		0'12	15'71				
5,939	17,677	26,192	39	13,230	2,349	1,590	99'97	80'11		0'14	11'79				
3,529	2,442	6,342	13	14,300	11,123	24	99'11	77'91	46'92	0'20	6'17	5,849	46'82	1	6'006
9,256	25,143	38,018	1,021	15,136	8,458	3,007	99'59	75'33		2'60	26'81				
161	133	295	7	275	48	93	98'90	29'37		2'29	33'62				
15,090	4,850	20,012	68	150	98	26	99'53	79'03		0'34	17'33				
14,003	28,680	50,542	1,171	34,276	18,305	8,069	99'53	69'52	34'90	2'25	23'50	154,455	31'00	3,900	0'79
36,407	40,746	81,431	207	30,851	21,751	2,507	99'76	70'87		0'25	8'31				

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.	Primary Total.
							Male.	Female.	Total.		
1	2	3	4	5	6	7	8	9	10	11	12
<i>Chota Nagpur Division.</i>											
17	Hasaribagh ...	By paid Vaccinators ...	...	1,276,946	181	11	4,366	1,633	5,997	540	1,983
		By licensed Vaccinators ...	...			45	21,114	19,582	40,696	904	39,393
18	Banohi ...	By paid Vaccinators ...	...	1,334,473	187	9	3,703	1,714	5,419	602	1,571
		By licensed Vaccinators ...	...			47	30,042	25,740	55,782	1,186	48,328
19	Palaman ...	By paid Vaccinators ...	...	733,394	149	6	1,219	956	2,175	362	1,128
		By licensed Vaccinators ...	...			25	10,801	10,393	21,384	851	21,266
20	Manbhum ...	By paid Vaccinators ...	...	1,548,777	373	34	20,262	14,868	35,070	1,031	18,775
		By licensed Vaccinators ...	...			40	25,066	24,301	49,367	1,240	47,359
21	Singbhum ...	By paid Vaccinators ...	...	759,438	196	3	432	387	789	263	651
		By licensed Vaccinators ...	...			26	11,947	10,281	22,228	855	19,032
Total of Chota Nagpur Division.				5,653,028	306	63	29,923	19,467	49,390	784	24,108
		By licensed Vaccinators ...	...			183	99,090	90,297	189,387	1,038	176,177
Total of Vaccine Department.				24,002,189	406	278	160,432	93,023	254,055	914	127,950
		By licensed Vaccinators ...	...			1,111	505,979	512,268	1,078,247	970	1,002,984
		Total ...	...			1,389	736,411	605,001	1,332,312	989	1,130,934
Total Dispensary Department				...	...	...	...	...	...	...	...
Total Railways				...	...	...	1,951	756	2,707	...	664
Total Cooly Department				...	...	...	1,319	450	1,769	...	69
Total Jails and Cantonments				...	...	...	13,459	807	14,266	...	601
Grand Total				...	...	1,389	742,970	607,914	1,351,084	989	1,132,463

districts of Bihar and Orissa during the year 1926-27—concd.

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
861	1,034	1,961	11	3,964	2,302	691	99.44	70.54	35.97	0.53	17.47	55,563	27.86	125	0.09
17,373	21,564	38,937	3	1,373	689	257	99.94	65.80		0.07	19.64				
1,175	365	1,570	...	3,848	2,689	344	99.93	76.73	45.03	...	8.94	40,477	34.82	172	0.13
38,700	9,492	48,218	2	7,554	5,308	641	99.98	78.08		0.04	8.48				
278	698	1,075	41	1,047	250	415	98.99	40.98	30.83	2.03	30.03	17,681	24.51	116	4.18
14,990	5,791	21,341	16	19	3	16	99.98	100.00		0.02	84.21				
5,933	17,736	37,373	333	16,295	7,655	3,689	96.32	6.44	48.52	28.39	22.17	55,338	35.06	130	0.03
24,005	28,010	47,359	...	2,008	1,815	91	100.00	72.19		...	3.00				
237	327	606	16	138	96	12	95.37	73.57	19.44	2.45	8.69	19,561	28.75	235	0.31
13,156	6,561	19,791	165	2,293	1,091	948	96.83	80.93		0.52	41.28				
7,601	14,460	22,763	601	16,282	13,704	5,093	96.92	64.60	39.65	2.49	37.14	174,835	30.93	778	0.14
108,520	66,328	175,097	126	13,783	8,906	1,953	99.97	76.7		0.07	14.18				
42,929	69,791	123,992	2,292	126,105	64,219	25,152	98.59	63.61	36.45	1.78	19.91	1,025,128	30.14	8,516	0.25
374,183	591,455	1,006,124	691	7,273	51,231	7,213	99.80	73.27		0.18	9.58				
417,112	661,246	1,124,028	3,173	201,378	115,450	32,365	99.97	68.31	0.28	16.07					
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
479	264	760	36	1,843	859	66	95.77	50.02	...	4.16	3.58	...	...	...	...
...	...	...	35	1,700	...	1,700	...	...	...	50.72	100.00	...	...	...	...
172	260	475	11	13,695	6,595	1,992	97.41	53.69	...	1.93	19.16	...	...	...	...
417,701	661,733	1,125,391	3,278	218,616	127,834	35,523	99.66	67.14	...	0.29	16.35	...	...	...	...

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.		Ratio of successful vaccinations per 1,000 of population.	Total cost of Department.	Average cost of each successful case.	
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Vaccinators employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under 6 years.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
												Rs. a. p.	Rs. a.	
BY SPECIAL STAFF.														
Statement (I) ...	1,130,934	201,378	1,130,934	201,278	99.67	68.31	1,389	969	417,112	661,216	36.71	1,62,082 3 5	0 2	
BY DISPENSARY STAFF.														
Statement III ...	...	...	...	...	...	...	...	...	...	...				
BY OTHER AGENCIES.														
Railways, Cooly Depot, Jails and Cantonments.	1,534	17,238	1,534	17,238	94.21	23.15	...	...	651	484				
Total ...	1,132,468	218,616	1,132,468	218,616	99.68	67.14	1,389	969	417,763	661,700	36.71	1,62,082 3 5	0 2	

[illegible]

STATEMENT NO. II.—Showing the cost of vaccination in the

No.	Circle and district.	European supervising officer.	Expen.										
			Pay.	Native supervising officer.	Pay.	Paal vaccinators.	Pay.	Licensed vaccinators.	Pay.	Clerks.	Pay.	Fees, etc.	Pay.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	PATNA DIVISION.				Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.
1	Patna			5	2,384 1 0	25	3,294 7 6	62	...	...	...	2	249 0 0
2	Gaya			5	2,431 15 0	17	2,223 13 0	83	...	...	...	2	216 0 0
3	Shahabad			5	2,460 0 0	13	1,112 5 9	82	...	...	...	...	...
	Total of Patna Division			15	7,276 0 0	55	6,630 0 3	227	...	...	...	4	465 0 0
	TIRHUT DIVISION.												
4	Saran			4	2,115 0 0	11	1,180 5 0	83	...	...	...	...	...
5	Champaran			3	1,610 0 0	12	1,218 12 0	67	...	...	...	...	...
6	Muzaffarpur			4	2,040 0 0	13	1,474 4 0	79	...	...	...	...	...
7	Darbhanga			4	2,432 7 0	10	774 0 0	88	...	...	...	...	...
	Total of Tirhut Division			15	8,197 7 0	53	4,647 5 0	317	...	...	...	...	...
	BHAGALPUR DIVISION.												
8	Monghyr			4	2,050 0 0	8	928 0 0	61	...	...	...	1	95 5 0
9	Bhagalpur			5	3,615 13 0	11	1,616 6 0	63	...	...	...	...	...
10	Purnea			4	1,809 0 0	11	1,435 9 0	53	...	...	...	...	...
11	Santal Parganas			7	3,310 13 0	10	1,875 0 6	57	...	...	...	...	...
	Total of Bhagalpur Division			20	10,816 10 0	40	5,854 15 6	237	...	...	...	1	95 5 0
	ORISSA DIVISION.												
12	Cuttack			4	2,160 0 0	21	2,319 10 5	73	...	...	...	...	...
13	Balasore			3	1,950 0 0	7	677 9 0	50	...	...	...	...	...
14	Angul			3	2,505 0 0	...	...	10	...	...	...	...	...
15	Parl			3	1,415 9 0	35	3,314 5 0	...	...	...	...	...	...
16	Sambalpur			3	1,500 0 0	4	670 0 0	34	...	...	...	...	...
	Total of Orissa Division			16	9,510 0 0	67	6,981 8 5	187	...	...	...	...	...
	CHOTA NAGPUR DIVISION.												
17	Hazaribagh			4	2,664 13 0	11	1,836 0 6	45	...	...	...	...	...
18	Ranchi			5	2,550 0 0	9	1,153 11 0	47	...	...	...	...	...
19	Palamu			3	1,439 8 0	6	713 8 9	25	...	...	...	...	...
20	Manbhum			17	2,630 0 0	24	4,153 11 0	40	...	...	...	...	...
21	Singbhum			3	1,472 6 0	3	634 11 0	25	...	...	...	...	...
	Total of Chota Nagpur Division			32	10,736 11 0	63	8,492 10 3	183	...	...	...	...	...
	Total of Vaccine Circle			28	42,537 5 0	278	32,007 1 5	1,111	...	...	...	6	451 5 0
	ESTABLISHMENT OF THE ASSISTANT DIRECTOR OF PUBLIC HEALTH, NORTH BIKANER CIRCLE.			1	8,918 8 0	...	...	...	...	2	1,200 0 0	2	252 5 0
	Ditto SOUTH BIKANER CIRCLE			1	16,669 0 0	...	...	...	...	2	1,200 0 0	2	227 8 0
	Ditto CHOTA NAGPUR AND ORISSA CIRCLE.			1	12,800 4 0	...	...	...	...	2	1,759 11 0	2	269 0 0
	Total			3	38,387 12 0	...	...	...	...	6	4,379 11 0	6	749 3 0
	Total of Province			...	81,925 1 0	278	32,007 1 5	1,111	...	6	4,379 11 0	11	1,300 8 0

Province of Bihar and Orissa during the year 1926-27.

Expenditure.					Paid from—							Number of all successful vaccinations and re-vaccinations.	Average cost of each successful case.
Total pay of establishments.	Travelling allowance.	Contingencies.		Total cost.	Imperial Fund.	Provincial Fund.	Local Fund.	Municipalities.	Native States.	Total.			
15	16	17	18	19	20	21	22	23	24	25	26	27	
Rs. s. p.	Rs. s. p.	Rs. s. p.	Rs. s. p.	Rs. s. p.		Rs. s. p.	Rs. s. p.	Rs. s. p.	Rs. s. p.	Rs. s. p.		Rs. s. p.	
5,918 8 6	1,380 4 0	...	100 0 0	7,298 12 6	...	4,905 7 6	1,569 8 0	1,832 13 0	...	7,298 12 6	95,281	0 1 3	
4,871 13 0	1,526 1 0	...	245 15 3	6,643 12 3	...	4,128 0 0	1,631 1 0	884 11 3	...	6,643 12 3	68,243	0 1 6	
2,572 5 9	1,656 5 0	...	177 14 0	5,406 8 9	...	4,246 5 0	224 0 3	936 3 6	...	5,406 8 9	74,284	0 1 2	
14,962 10 3	4,562 10 0	...	523 13 3	10,449 1 6	...	12,379 12 6	3,415 9 3	3,653 11 9	...	10,449 1 6	217,608	0 1 3	
3,295 5 0	1,266 6 0	...	325 8 9	4,887 3 9	...	3,501 6 0	479 10 0	906 3 9	...	4,887 3 9	70,650	0 1 0	
2,828 12 0	1,094 13 0	...	147 0 8	4,070 9 3	...	2,966 11 0	787 0 3	350 14 0	...	4,070 9 3	58,018	0 1 1	
3,514 4 0	516 4 0	...	377 14 0	4,408 6 0	...	2,666 4 0	670 12 0	1,071 6 0	...	4,408 6 0	100,208	0 0 8	
3,206 7 0	1,226 11 4	...	129 7 0	4,563 9 4	...	3,796 1 4	...	816 3 0	...	4,563 9 4	104,475	0 0 8	
12,844 12 0	4,104 2 4	...	979 14 0	17,928 12 4	...	12,870 6 4	1,607 6 3	3,150 15 9	...	17,528 12 4	339,351	0 0 19	
3,053 5 0	1,254 12 0	...	274 0 0	4,582 1 0	...	3,374 12 0	266 0 0	841 5 0	...	4,582 1 0	70,993	0 0 11	
5,232 3 0	532 7 0	...	211 8 0	5,976 2 0	...	4,238 4 0	1,076 6 0	661 8 0	...	5,976 2 0	79,116	0 1 2	
3,295 9 0	1,633 1 0	...	268 6 0	5,197 0 0	...	3,518 1 0	586 9 0	1,092 6 0	...	5,197 0 0	51,540	0 1 7	
5,185 13 6	2,909 11 0	...	159 5 0	8,284 13 6	...	6,350 8 0	1,681 6 0	852 15 6	...	8,284 13 6	67,296	0 1 11	
16,706 14 6	6,359 15 0	...	913 3 0	14,049 0 6	...	17,481 0 0	3,110 5 0	3,448 2 6	...	24,040 0 6	275,045	0 1 4	
4,470 10 5	1,359 3 0	...	100 0 0	5,938 13 5	...	3,619 3 0	1,414 7 11	505 2 8	...	5,938 13 5	45,413	0 2 1	
2,697 9 0	1,182 1 0	...	120 1 0	3,999 11 0	...	3,693 11 0	...	216 0 0	...	3,909 11 0	42,633	0 1 5	
2,505 0 0	1,063 11 0	...	170 12 0	3,839 7 0	...	3,839 7 0	...	...	...	3,839 7 0	17,465	0 3 6	
4,719 14 0	917 2 0	...	215 0 0	5,862 0 0	...	2,617 11 0	3,119 9 0	194 12 0	...	5,862 0 0	48,560	0 2 0	
2,170 0 0	878 11 0	...	118 3 0	3,166 14 0	...	2,477 4 0	492 0 0	247 10 0	...	3,166 14 0	20,771	0 2 5	
16,422 1 5	5,400 12 0	...	824 0 0	22,716 13 5	...	16,177 4 0	4,076 0 11	1,563 8 6	...	22,716 13 5	172,842	0 2 1	
4,500 13 6	532 12 0	...	100 0 0	5,133 9 6	...	3,267 9 0	1,273 4 6	562 12 8	...	5,133 9 6	45,942	0 1 9	
3,705 11 0	1,572 0 0	...	90 0 0	5,367 11 0	...	4,401 11 0	180 0 0	780 0 0	...	5,367 11 0	58,174	0 1 5	
2,152 0 0	945 4 0	...	52 0 0	3,149 4 0	...	2,415 4 0	375 7 9	358 8 3	...	3,149 4 0	22,624	0 2 2	
6,763 11 0	795 10 0	...	88 8 0	7,647 13 0	...	2,706 0 0	4,519 12 0	422 1 0	...	7,647 13 0	74,846	0 1 6	
2,107 1 9	784 6 0	...	66 7 6	2,957 15 3	...	2,316 12 0	...	641 3 3	...	2,957 15 3	21,506	0 2 2	
19,229 5 3	4,620 0 0	...	396 15 6	24,246 4 9	...	15,137 4 0	6,348 6 3	2,770 8 6	...	24,256 4 9	223,783	0 1 9	
79,695 11 5	25,067 7 4	...	3,637 13 9	1,08,391 0 6	...	74,046 3 10	19,767 13 8	14,586 15 0	...	1,08,391 0 6	1,248,328	0 1 5	
10,430 13 0	3,549 12 0	...	752 15 11	14,740 8 11	...	14,740 8 11	...	...	...	14,740 8 11	...	...	
18,156 8 0	2,329 8 0	...	495 5 0	20,981 5 0	...	20,981 5 0	...	...	...	20,981 5 0	...	...	
14,829 5 0	2,900 0 0	...	340 0 0	17,909 5 0	...	17,909 5 0	...	...	...	17,909 5 0	...	...	
43,416 10 0	8,679 4 0	...	1,593 4 11	53,691 2 11	...	53,691 2 11	...	...	...	53,691 2 11	...	...	
1,23,112 5 5	33,736 11 4	...	5,733 2 8	1,62,682 3 5	...	1,27,737 6 9	19,717 13 8	14,586 15 0	...	1,62,682 3 5	...	0 2 1	

B.—DISPENSARY VACCINATION.

STATEMENT NO. III.—Showing Dispensary Vaccination in the Province of Bihar and Orissa during the year 1926-27.

[illegible]

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

Establishment.	Persons primarily							
	1917-18.		1918-19.		1919-20.		1920-21.	
	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.	Total number.	Number successfully vaccinated.
1	2	3	4	5	6	7	8	9
Government ...	6,984	6,050	6,637	5,941	7,363	6,520	1,927	1,831
Municipal ...	37,686	36,107	36,573	35,213	36,810	35,428	32,858	31,541
Local Fund ...	82,772	77,911	59,639	56,495	69,847	66,946	80,337	77,939
Dispensaries...	181	177	139	139	178	178	262	262
Licensed Vaccinators ...	931,549	926,281	816,096	811,506	811,168	806,217	854,339	848,948
Total ...	1,059,072	1,046,526	919,084	909,294	925,366	915,289	969,723	960,521

COMPARATIVE STATEMENT NO. IV.

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

vaccinated.

1921-22.		1922-23.		1923-24.		1924-25.		1925-26.		1926-27.	
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
891	825	794	735	1,104	1,018	785	725	885	772	3,577	3,636
31,136	30,040	29,927	28,963	33,760	32,833	32,110	30,816	40,318	39,370	36,075	34,780
71,144	68,523	70,386	67,809	74,767	71,969	75,649	72,592	89,670	85,927	88,599	86,061
...	...	...	...	1	1	...	...	...	...	...	...
800,424	797,357	865,920	862,260	892,018	888,273	882,812	679,951	954,242	951,893	1,002,984	1,000,124
903,595	896,745	907,027	959,767	1,001,650	994,094	991,356	984,084	1,085,085	1,077,962	1,131,535	1,124,601

STATEMENT NO. V.—Showing particulars of vaccination

District.	Total number of persons vaccinated.		Total number inspected—								Percentage of	
			By Assistant Directors of Public Health or Civil Surgeons.				By Native Superintendents or other Inspecting Officers.				By Assistant Director or Civil	
			Assistant Directors of Public Health.		Civil Surgeons.		District Inspectors.		Sub-Inspectors.		Assistant Director of Public Healths	
	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
Paisa ...	90,851	10,847	4,565	...	421	...	9,955	1,419	14,293	43	5'01	...
Gaya ...	65,398	4,845	2,854	...	...	...	14,640	...	13,630	737	4'36	...
Shahabad ...	69,185	9,166	3,345	...	2,870	22	8,066	62	16,266	96	4'89	...
Saran ...	76,317	1,610	4,208	...	3,650	...	7,367	...	16,071	...	5'51	...
Champaran ...	44,525	21,010	5,710	...	999	232	7,389	206	14,211	932	12'52	...
Muzaffarpur ...	95,057	14,523	6,324	...	8,683	998	19,497	76	31,119	469	6'54	...
Darbhanga ...	1,01,096	8,419	6,921	...	...	...	16,564	304	30,998	90	5'90	...
Monghyr ...	75,713	2,660	5,218	...	275	...	15,024	...	19,331	...	6'80	...
Behawalpur ...	70,921	13,271	4,719	...	202	...	10,665	650	28,723	423	6'65	...
Purnea ...	40,439	4,961	3,214	...	1,190	7	22,300	94	9,910	83	6'70	...
Santal Parganas ...	58,169	15,758	5,966	...	2,981	975	5,061	...	22,485	2,251	10'25	...
Cuttack ...	59,684	14,211	2,642	...	117	1,077	6,351	291	11,294	246	7'12	...
Balasore ...	27,822	22,142	1,940	...	147	11	772	188	5,740	1,260	6'97	...
Angul ...	6,436	15,313	1,650	...	1,046	1,613	1,179	1,344	5,537	13,285	25'63	...
Puri ...	39,192	15,456	2,083	...	640	420	5,174	3,742	8,028	4,534	5'31	...
Sambalpur ...	20,468	1,012	2,050	...	1,377	380	5,450	22	4,744	30	10'01	...
Hazaribagh ...	42,158	7,123	5,791	...	705	372	3,358	41	7,708	89	13'73	...
Ranchi ...	49,808	11,900	2,123	...	125	...	9,672	...	24,924	1,618	4'96	...
Palaman ...	32,428	1,726	2,771	...	3,910	85	6,806	82	11,393	103	12'35	...
Manbhum ...	66,135	20,614	2,608	...	713	874	21,662	7,637	4,773	471	3'12	...
Singhbhum ...	20,585	2,448	2,611	...	983	5	5,410	...	6,628	345	12'68	...
TOTAL ...	11,32,468	2,18,616	78,083	...	30,934	7,671	202,276	15,560	307,692	27,264	6'89	...

verified by Inspecting Officers during the year 1926-27.

Inspection to total number vaccinated.						Percentage of cases found successful to total number inspected.												Percentage of successful cases reported by vaccinators.
Doctors of Public Health Surgeons.		By Native Superintendents or other Inspecting Officers.				By Assistant Directors of Public Health or Civil Surgeons.				By Native Superintendents or other Inspecting Officers.								
Civil Surgeons.		District Inspectors.		Sub-Inspectors.		Assistant Directors 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			
0.46	...	10.26	13.08	15.73	0.39	95.30	...	100.00	...	100.00	100.00	99.86	100.00	99.29	46.79			
...	...	22.19	...	20.85	15.00	95.45	...	...	...	99.04	...	99.56	80.05	90.00	61.55			
4.15	0.24	12.44	0.67	23.51	1.03	94.82	...	99.34	95.45	99.72	96.77	99.62	47.36	99.62	60.53			
4.78	...	0.65	...	21.05	...	96.81	...	98.63	...	98.07	...	98.03	...	90.53	58.28			
2.24	1.10	16.35	0.98	31.91	4.43	90.84	...	99.39	49.13	98.37	59.70	98.45	88.19	99.54	65.10			
9.13	0.57	19.45	0.53	32.64	3.09	96.01	...	99.97	36.47	99.51	55.12	99.22	39.19	99.49	58.17			
...	...	16.65	3.61	30.29	1.06	92.21	...	...	...	98.45	61.18	99.04	60.00	99.57	34.58			
0.96	...	19.84	...	25.53	...	95.19	...	99.27	...	97.00	...	99.00	...	99.93	60.04			
0.28	...	15.03	4.96	40.49	3.18	93.85	...	100.00	...	98.29	89.53	90.03	75.11	99.64	69.68			
2.41	0.74	44.89	1.89	20.04	1.67	82.95	...	97.64	100.00	99.53	92.55	99.06	100.00	99.00	46.34			
5.12	0.18	8.70	...	38.65	14.29	82.12	...	99.39	73.95	95.01	...	90.86	88.27	99.59	60.06			
0.29	7.58	15.92	2.04	28.31	1.73	83.21	...	100.00	47.07	97.74	79.38	97.25	45.50	90.12	41.35			
0.53	0.05	2.77	0.85	20.65	5.60	88.24	...	98.04	81.81	99.48	84.57	98.17	75.18	90.86	62.58			
16.25	10.53	18.32	8.77	86.03	86.62	93.63	...	99.64	73.03	97.03	68.75	98.17	70.81	95.91	77.78			
1.63	3.72	13.46	24.72	20.48	29.95	91.52	...	98.76	22.86	97.72	35.46	97.88	43.43	97.00	55.30			
0.72	37.54	20.63	2.17	23.18	2.96	87.41	...	95.79	41.84	95.52	45.45	88.30	20.06	99.21	45.85			
1.67	5.22	7.96	0.57	18.28	1.25	95.44	...	99.85	22.31	99.05	53.65	97.63	47.19	99.75	54.59			
0.25	...	19.45	...	40.84	15.28	95.05	...	100.00	...	97.50	...	95.79	55.72	96.97	71.25			
17.42	4.92	30.9	4.75	50.73	5.96	95.70	...	99.64	32.94	99.62	31.70	99.42	36.83	99.48	17.46			
1.07	4.36	32.75	35.15	7.22	2.35	94.63	...	99.71	50.53	99.69	60.26	99.29	64.96	99.67	46.18			
4.28	0.20	26.28	...	32.19	14.09	95.93	...	100.00	100.00	99.77	...	99.33	85.79	99.09	48.92			
2.73	3.23	17.80	7.12	27.16	6.97	92.64	...	96.28	51.83	98.36	63.73	99.45	68.91	99.42	53.40			

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

District.	1917-18.		1918-19.		1919-20.		1920-21.	
	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 ...	0.15	68,529	0.13	68,535	0.85	68,573	2.79	71,340
Gaya ...	0.18	62,246	0.21	56,114	0.62	66,449	0.77	60,938
Shahabad ...	0.10	51,853	0.02	41,625	0.24	42,394	0.55	62,418
Saran ...	0.16	77,721	0.07	66,443	0.10	66,882	0.39	68,000
Champanan ...	0.11	51,755	0.14	50,191	0.13	53,458	0.29	56,914
Muzaffarpur ...	0.09	85,898	0.02	86,664	0.10	87,182	0.13	89,230
Darbhanga ...	0.07	93,206	0.08	86,555	0.10	88,770	0.17	93,468
Monghyr ...	0.10	68,361	0.05	56,576	0.24	59,814	0.28	55,104
Bhagalpur ...	0.22	68,166	0.09	59,034	0.23	56,741	0.22	58,176
Purnea ...	0.64	49,490	0.52	54,209	0.96	50,349	0.98	51,930
Santal Parganas ...	0.14	56,728	0.06	46,659	0.30	44,691	0.37	45,864
Cuttack ...	0.81	62,177	0.89	51,845	0.91	55,008	0.30	60,775
Balasore ...	0.03	25,800	0.09	20,942	0.86	22,139	0.54	27,597
Angul ...	0.01	6,956	0.06	6,751	1.11	5,739	...	4,060
Puri ...	0.26	34,639	0.75	33,543	3.12	32,940	0.77	41,225
Sambalpur ...	0.24	23,345	0.07	15,361	0.63	13,835	0.27	18,523
Hazaribagh ...	0.07	39,761	0.07	35,632	0.24	35,026	0.13	29,123
Ranchi ...	0.03	47,094	0.04	31,870	0.90	40,559	1.38	38,450
Palamau ...	0.06	26,893	0.06	20,472	1.26	21,226	1.76	19,346
Manbhum ...	0.02	52,289	0.05	37,807	0.44	57,908	0.11	43,192
Singhbhum ...	0.09	17,872	0.10	15,542	1.24	19,595	0.52	18,023
Total ...	0.19	1,070,784	0.17	942,370	0.53	989,278	0.56	1,013,696

small-pox and the number of successful vaccinations during the ten years ending 1926-27.

1921-22.		1922-23.		1923-24.		1924-25.		1925-26.		1926-27.	
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
0.46	63,297	0.05	62,673	0.06	61,595	0.13	65,558	0.49	72,006	1.69	95,281
0.24	42,710	0.04	47,263	0.04	51,137	0.04	54,569	0.46	63,986	2.21	68,243
0.22	69,010	0.04	58,782	0.02	59,661	0.10	40,418	0.16	56,596	0.99	74,284
0.13	37,665	0.02	66,871	0.05	72,449	0.44	76,858	0.50	81,358	0.50	76,650
0.08	36,927	0.06	44,499	0.09	45,103	0.38	45,011	0.65	50,934	0.98	58,018
0.04	82,124	0.04	86,141	0.12	92,087	0.21	91,519	0.24	97,064	0.36	100,208
0.03	88,504	0.06	88,188	0.05	93,651	0.15	90,640	0.12	101,040	0.27	104,475
0.14	54,215	0.11	62,958	0.09	70,828	0.12	61,341	0.11	71,423	0.62	76,993
0.13	62,115	0.09	64,294	0.48	65,464	0.46	66,255	0.13	74,520	0.65	79,116
0.29	36,428	0.24	38,977	0.06	35,218	0.04	43,877	0.17	48,715	0.69	51,540
0.05	50,187	0.01	55,085	0.03	56,056	0.06	60,838	0.17	62,352	0.90	67,396
0.04	61,424	0.15	61,752	0.28	46,041	0.77	45,282	2.50	62,758	2.92	45,413
0.09	25,380	0.17	23,541	0.37	30,195	0.34	25,376	1.71	35,409	2.34	42,633
...	4,968	0.005	5,511	...	6,159	...	6,168	...	19,937	0.06	17,465
0.08	34,897	0.13	35,203	0.25	36,479	1.21	36,877	7.21	61,320	3.54	46,560
0.03	20,829	0.006	18,791	0.01	23,757	0.12	21,487	0.60	21,881	0.68	20,771
0.02	29,524	0.02	31,985	0.03	35,784	0.05	36,243	0.34	44,380	1.00	45,942
0.21	38,997	0.05	41,821	0.01	44,812	0.02	49,358	0.34	57,397	1.02	58,274
0.56	16,898	0.09	15,585	0.04	16,466	0.01	19,747	0.06	21,210	0.28	22,624
0.02	43,484	0.02	52,428	0.01	58,031	0.02	50,700	0.32	71,523	0.42	74,816
0.32	16,605	0.18	16,998	0.14	16,058	0.36	22,511	0.52	25,635	0.16	21,596
0.14	917,188	0.07	979,351	0.11	1,017,031	0.24	1,010,628	0.67	1,201,444	1.05	1,248,328

STATEMENT NO. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1926-27.

District.	Towns.	Number of births during the year ending 31st March 1927.	Number of deaths amongst infants under one year during the year ending 31st March 1927.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1927.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Patna	Patna	4,070	648	1,362	1st October 1884.
	Bihar	1,613	215	278	1st April 1887.
	Dinapur	1,134	216	697	28th January 1891.
	Barh	360	66	67	1st April 1887.
	Khagole	315	57	88	12th July 1910.
	Total	7,492	1,205	2,492	
Gaya	Gaya	2,165	785	1,346	1st January 1883.
	Tikari	257	133	47	3rd January 1891.
	Daudnagar	362	64	180	Ditto.
	Total	2,784	982	1,573	
Shahabad	Arrah	1,373	267	687	20th July 1885.
	Buxar	387	64	254	1st April 1887.
	Dumraon	497	75	193	Ditto.
	Jagadispur	314	38	257	20th December 1890.
	Sassaram	862	147	707	1st April 1887.
	Bhabhua	230	41	152	Ditto.
	Total	3,663	632	2,250	
	Total of Patna Division.	13,939	2,819	6,315	
Saran	Chapra	1,445	203	903	1st April 1887.
	Revelganj	393	64	307	12th December 1890.
	Siwan	425	32	315	1st April 1887.
	Total	2,263	299	1,525	
Champaran	Motihari	466	90	305	1st April 1887.
	Bettiah	932	116	258	Ditto.
	Total	1,398	206	563	

STATEMENT NO. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1926-27—contd.

District.	Towns.	Number of births during the year ending 31st March 1927.	Number of deaths amongst infants under one year during the year ending 31st March 1927.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1927.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Muzaffarpur	Muzaffarpur	1,386	301	270	1st January 1886.
	Sitamarhi	333	55	92	1st April 1887.
	Hajipur	857	273	139	1st May 1890.
	Lalganj	371	71	78	1st April 1887.
	Total	2,947	700	579	
Darbhanga	Darbhanga	2,042	280	620	24th May 1884.
	Roserha	408	48	163	3rd January 1891.
	Samastipur	302	60	112	25th July 1910.
	Madhubani	692	68	337	1st April 1887.
	Total	3,444	456	1,232	
	Total of Tirhut Division.	10,052	1,661	3,899	
Monghyr	Monghyr	2,057	323	649	15th November 1882.
	Jamalpur	1,045	166	378	Ditto.
	Total	3,102	489	1,027	
Bhagalpur	Bhagalpur	1,926	273	1,248	15th February 1884, withdrawn on 16th October 1895; re-extended on 18th August 1898.
	Colgong	138	20	55	Ditto, re-extended on 19th December 1901.
	Total	2,064	293	1,303	
Purnea	Purnea	248	33	191	1st July 1887.
	Kishanganj	107	10	90	12th November 1892.
	Katihar	299	21	37	8th August 1910.
	Forbesganj	133	20	63	9th August 1912.
	Total	787	84	381	

STATEMENT NO. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1926-27—contd.

District.	Towns.	Number of births during the year ending 31st March 1927.	Number of deaths amongst infants under one year during the year ending 31st March 1927.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1927.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Santal Parganas ...	Sahibganj ...	616	73	243	1st May 1884.
	Deoghar ...	278	24	110	Ditto.
	Madhupur ...	326	43	131	22nd August 1910.
	Dumka ...	237	45	145	Notifications, dated the 9th April 1884, and 23rd August 1910.
	Total ...	1,457	185	629	
Total of Bhagalpur Division.		7,410	1,051	3,340	
Cuttack ...	Cuttack ...	651	114	147	1st September 1884.
	Kendrapara ...	220	57	30	7th February 1888.
	Jajpur ...	124	28	90	Ditto.
	Total ...	995	199	267	
Balasore ...	Balasore ...	329	88	67	7th February 1888.
Puri ...	Puri ...	576	260	244	Ditto.
Sambalpur ...	Sambalpur ...	301	61	161	7th March 1895.
Total of Orissa Division.		2,201	608	739	
Hazaribagh ...	Hazaribagh ...	465	60	303	1st January 1885.
	Chatra ...	466	55	248	1st August 1885.
	Giridih ...	473	47	167	8th September 1910.
	Total ...	1,404	162	718	
Ranchi ...	Ranchi ...	942	95	807	1st April 1887.
	Lohardaga ...	291	11	197	25th June 1882.
Total		1,163	106	1,004	

STATEMENT NO. VII.—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1926-27—concl'd.

District.	Towns.	Number of births during the year ending 31st March 1927.	Number of deaths amongst infants under one year during the year ending 31st March 1927.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1927.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Palamau	Daltonganj	425	44	78	9th October 1890.
	Purulia	394	33	212	1st January 1887.
Manbhum	Raghunathpur	188	20	27	9th February 1894.
	Jhalda	207	21	120	9th July 1892.
	Dhanbad	143	9	11	5th December 1918.
	Total	1,357	127	370	
Singhbhum	Chaibassa	238	32	108	20th June 1892.
	Chakradharpur	106	21	41	13th January 1919.
	Jugsalai	269	23	108	1st April 1924.
	Total	613	76	257	
	Total of Chota Nagpur Division.	4,537	471	2,427	
	Total for the Province	38,139	6,610	16,720	

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	90,831	90,205	462	177	99.29	...	...	...	...	...	...	...
Gaya	65,268	65,093	161	114	99.58	...	...	...	...	...	...	...
Shahabad	69,186	69,063	79	44	99.82	...	...	...	...	...	...	...
Saran	76,317	75,595	378	344	99.05	...	...	...	...	...	...	...
Champaran	44,523	44,321	132	72	99.54	...	...	...	...	...	...	...
Muzaffarpur	95,057	94,576	443	38	99.49	...	...	...	...	...	...	...
Darbhanga	101,936	101,563	373	60	99.37	...	...	...	...	...	...	...
Monghyr	75,713	75,654	48	11	99.92	...	...	...	...	...	...	...
Bhagalpur	70,921	70,672	187	62	99.61	...	...	...	...	...	...	...
Purnea	49,439	49,244	168	27	99.60	...	...	...	...	...	...	...
Santal Parganas	58,169	57,933	106	130	99.39	...	...	...	...	...	...	...
Cuttack	39,894	39,534	122	228	99.12	...	...	...	...	...	...	...
Balasore	27,822	27,775	6	41	99.83	...	...	...	...	...	...	...
Angul	6,436	6,342	57	37	98.53	...	...	...	...	...	...	...
Puri	39,192	38,018	153	1,021	97.00	...	...	...	...	...	...	...
Fambalpur	20,468	20,307	66	75	99.21	...	...	...	...	...	...	...
Hazaribagh	42,158	42,033	55	59	99.75	...	...	...	...	...	...	...
Ranchi	49,806	49,795	11	2	99.97	...	...	...	...	...	...	...
Palamanu	22,438	22,321	29	83	99.47	...	...	...	...	...	...	...
Manbhum	66,135	64,932	670	533	98.18	...	...	...	...	...	...	...
Singbhum	20,585	20,338	66	121	99.09	...	...	...	...	...	...	...
TOTAL	1,132,468	1,125,334	3,769	3,275	99.37	...	...	...	...	...	...	...

II.

used and their rates of success during the year 1926-27.

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
...	...	...	...	...	...	...	...	10,847	5,076	3,714	2,037	46.79	...	...	...	...	...
...	...	...	...	...	...	...	...	4,846	3,150	1,081	615	65.00	...	...	...	...	...
...	...	...	...	...	...	...	...	9,166	5,221	3,700	245	56.96	...	...	...	...	...
...	...	...	...	...	...	...	...	1,810	1,055	543	212	58.28	...	...	...	...	...
...	...	...	...	...	...	...	...	21,010	13,697	3,921	3,392	65.19	...	...	...	...	...
...	...	...	...	...	...	...	...	14,523	5,632	5,852	3,039	33.77	...	...	...	...	...
...	...	...	...	...	...	...	...	8,419	2,912	4,405	1,102	34.58	...	...	...	...	...
...	...	...	...	...	...	...	...	2,660	1,339	891	430	50.34	...	...	...	...	...
...	...	...	...	...	...	...	...	13,271	8,444	3,575	1,212	63.62	...	...	...	...	...
...	...	...	...	...	...	...	...	4,961	2,296	2,103	562	46.28	...	...	...	...	...
...	...	...	...	...	...	...	...	15,758	9,463	3,632	2,663	60.05	...	...	...	...	...
...	...	...	...	...	...	...	...	14,211	5,879	4,640	3,692	41.36	...	...	...	...	...
...	...	...	...	...	...	...	...	22,142	14,858	4,324	2,960	67.10	...	...	...	...	...
...	...	...	...	...	...	...	...	15,313	11,123	3,153	1,037	72.65	...	...	...	...	...
...	...	...	...	...	...	...	...	15,456	8,542	2,965	3,949	55.26	...	...	...	...	...
...	...	...	...	...	...	...	...	1,021	464	400	148	45.85	...	...	...	...	...
...	...	...	...	...	...	...	...	7,123	3,889	1,908	1,236	54.59	...	...	...	...	...
...	...	...	...	...	...	...	...	11,900	8,479	2,400	1,021	71.25	...	...	...	...	...
...	...	...	...	...	...	...	...	1,726	303	433	99	17.55	...	...	...	...	...
...	...	...	...	...	...	...	...	20,014	9,914	6,139	3,961	49.53	...	...	...	...	...
...	...	...	...	...	...	...	...	2,443	1,198	299	960	48.93	...	...	...	...	...
...	...	...	...	...	...	...	...	218,616	122,934	69,159	35,523	56.23	...	...	...	...	...



