

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

Contributors

Bihar and Orissa (India)

Publication/Creation

Patna : Government Press, [1924]

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ANNUAL STATISTICAL RETURN

AND

SHORT NOTES ON VACCINATION

IN

BIHAR AND ORISSA

FOR THE YEAR

1923-24



BY

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

Director of Public Health, Bihar and Orissa.



PATNA :

PRINTED BY SUPERINTENDENT, GOVERNMENT PRINTING, BIHAR AND ORISSA.

1924.

Price—Indian 10 annas.

ANNUAL STATISTICAL REPORT
AND
SHORT NOTES ON VACCINATION
IN
BURMA AND ORISSA
FOR THE YEAR
1923-24

PREPARED BY G. ROSE, M.D., D.P.H.
DIRECTOR OF PUBLIC HEALTH, BURMA AND ORISSA

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ANNUAL VACCINATION REPORT

BIHAR AND ORISSA

FOR THE YEAR

1923-24.

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 that Dr. J. L. Das officiated for Dr. B. P. Mazumdar for two months whilst he was on leave. Otherwise Dr. T. Sebastian remained in charge of the North Bihar Circle, Dr. S. N. Tiwari of the Chota Nagpur and Orissa Circle and Dr. B. P. Mazumdar of the South Bihar Circle throughout the year.

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 1,088 licensed and 228 paid, against 1,089 licensed and 222 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 1,043,264 as compared with 1,002,889 last year. There has again been an increase in the total number of operations which is very satisfactory, and indicates that the difficulties and the opposition experienced in 1920 and 1921 are gradually diminishing. Of the total number of operations in the province 1,031,904 were performed by the staff of the Vaccination Department as compared with 988,601 last year. Nine hundred and ninety-nine thousand, seven hundred and eighteen operations were primary and 32,186 were re-vaccinations as against 965,666 primary operations and 22,935 re-vaccinations last year.

There was an increase of 34,052 in the number of primary operations and of 9,251 in the number of re-vaccinations during the year. Of the total operations performed (1,031,904), 1,010,911 equal to 97.96 per cent. were successful, as compared with 972,003 equal to 98.32 last year.

The number of operations performed in municipalities increased by 4,213 as compared with last year's returns. The total number of operations performed was 39,937 and the number of successful operations was 35,918 of which 32,833 were primary and 3,085 were re-vaccinations as compared with 28,963 and 3,502 respectively last year. The ratios of success in municipalities were 97.25 per cent. for primary operations and 49.94 per cent. for re-vaccinations as compared with 96.77 per cent. and 60.41 per cent., respectively, last year.

The number of operations performed in rural areas was 991,967 as compared with 952,877 last year and the ratios of successes were 99.33 per cent. for primary operations and 59.44 for re-vaccinations.

3. *Vaccination in Districts*.—Of the three districts of the Patna Divisions, Gaya and Shahabad reported an increase in the number of operations performed (4,270) and (663) whilst Patna reported a decrease of over 1,000.

Patna Division.

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

Tirhut Division.

The districts of the Bhagalpur Division recorded small increases except Purnea in which a decrease of 4,058 was reported. Monghyr District recorded the highest increase in this division, viz., 7,519.

Bhagalpur Division,

With the exception of Cuttack all the districts of Orissa recorded increases in the number of operations, the greatest increase being in Balasore (8,104).

Orissa Division.

With the exception of Singhbhum there was a general rise in the number of operations returned from the districts of Chota Nagpur, the greatest increase being in Manbhum (5,304).

Chota Nagpur Division.

4. *Vaccination in Towns and Compulsory areas.*—Statement VII shows that during the year 15,278 children under one year of age, out of an available number of 30,292 or 50.43 per cent. were successfully vaccinated.

The towns of Monghyr, Bhagalpur, and Darbhanga, show the smallest proportion of work done, and the towns of Chapra and Cuttack 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 195,641 primary operations and 340,805 re-vaccinations were performed as compared with 145,836 and 283,289 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 1,034,163 and the number of successful operations was 375,127 equal to 362 per thousand against 358,558 or 331 per thousand successful operations out of 1,081,900 children available during the previous year. The protection of infants in municipalities is separately shown in statement VII. It gives a ratio of 504 per thousand of the surviving infant population as compared with 452 in the previous year.

These figures are unsatisfactory in as much 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, 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 districts of this province has been 95,628.

During the first quinquennium the number of deaths was 43,241 and during the second 49,337. In each of the last five years the mortality was as follows:—18,514, 19,374, 4,911, 2,695 and 3,893. The graphs published in the Annual Public Health Report indicate that there is a definite, though

slightly irregular periodic variation in the epidemic prevalence of small-pox and it is probable that we have just passed through the period of least prevalence, and are entering upon a period of increasing epidemic prevalence. I consider it likely that the prevalence of small-pox will increase materially during the next two or three years and that there is likely to be a severe epidemic of small-pox in the province in 1926 or 1927.

The provincial ratios of the mortality from small-pox per thousand of population during the last five years have been '53, '56, '14, '07 and '11.

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 wellknown 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 71,814 primary vaccinations as against 70,006 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 20 out of the 21 districts in the Province.

The Civil Surgeons of the Province inspected 40,985 primary and 4,656 re-vaccination operations against 29,181 primary and 9,303 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 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. Five millions, three hundred and fifty-seven thousand and twenty-five doses of vaccine were manufactured during the year as compared with 1,426,146 doses last year. The number of doses issued was 2,564,754 against 2,576,743 in 1922-23. The number of doses in stock at the end of the year was 5,590,353. The number of cattle used during the year was 792 as compared with 246 in the previous year, and the average yield of crude vaccine was over 63 grammes per animal as compared with 59 grammes in the previous year. The working cost of the depot for the year amounted to Rs. 25,545 as compared with Rs. 33,206 in the previous year. The average cost of the vaccine per dose works out at '91 pies on the gross expenditure and to '34 pies on the nett expenditure, when the receipts are taken into account.

11. *Vaccine Depot and Cold Storage.*—During the year under report the vaccine depot suffered less than usual from epidemic diseases although there was one slight epidemic of Foot and Mouth disease. Owing to the difficulty in getting a sufficient supply of calves at reasonable rates Dr. Tiwari has tried using adult animals with results which have so far been satisfactory. The adult animals are cheaper and more robust, and they gave a large quantity of

vaccine. Three new isolation sheds and a dipping trough have been constructed during the year and the grazing ground of the vaccine depôt has been fenced with wire-fencing and sub-divided into paddocks so as to allow of the effective segregation of different batches of cattle and of sick animals.

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 broke down in October. In November a new compressor was started, but the old oil engine is now giving trouble and it is necessary that a new duplicate engine should be installed.

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

12. Experimental Work.—During the year under report experimental work has been carried out with regard to the use of adult animals instead of calves with very satisfactory results so far.

Experiments were also made in the use of .05 per cent. of iodine to purify the vaccine. The vaccine was kept in cold storage for twelve months after the iodine solution had been added and then tested. It gives satisfactory results in the vaccination of both children and rabbits, and plate cultures made from this vaccine show no contaminating colonies.

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. 1,52,980 or Rs. 1,509 less than the previous year.

The cost per successful operation was 2 annas 4 pies against 2 annas 6 pies in the previous year.

14. Personal.—In conclusion, I desire to bring to the notice of Government the work of the three Assistant Directors of Public Health. Doctor T. Sebastian and Doctor B. P. Mazumdar have carried out their inspecting duties satisfactorily. Doctor C. N. Banarji has also worked satisfactorily as Superintendent of the Vaccine Depôt.

W. C. ROSS,

Lieut.-Col., I.M.S.,

Director of Public Health.

No.	Name	Age			Sex	Race	Religion	Marital Status	Occupation	Education	Literacy	Signature	Date
		Year	Month	Day									
1001	John Doe	1901	1	1	M	W	C	M	Farmer	8	Yes	John Doe	1901-01-01
1002	Jane Doe	1902	2	2	F	W	C	M	Homemaker	8	Yes	Jane Doe	1902-02-02
1003	John Smith	1903	3	3	M	W	C	M	Teacher	10	Yes	John Smith	1903-03-03
1004	Jane Smith	1904	4	4	F	W	C	M	Homemaker	10	Yes	Jane Smith	1904-04-04
1005	John Brown	1905	5	5	M	W	C	M	Farmer	8	Yes	John Brown	1905-05-05
1006	Jane Brown	1906	6	6	F	W	C	M	Homemaker	8	Yes	Jane Brown	1906-06-06
1007	John Black	1907	7	7	M	W	C	M	Teacher	10	Yes	John Black	1907-07-07
1008	Jane Black	1908	8	8	F	W	C	M	Homemaker	10	Yes	Jane Black	1908-08-08
1009	John White	1909	9	9	M	W	C	M	Farmer	8	Yes	John White	1909-09-09
1010	Jane White	1910	10	10	F	W	C	M	Homemaker	8	Yes	Jane White	1910-10-10
1011	John Green	1911	11	11	M	W	C	M	Teacher	10	Yes	John Green	1911-11-11
1012	Jane Green	1912	12	12	F	W	C	M	Homemaker	10	Yes	Jane Green	1912-12-12
1013	John Gray	1913	1	1	M	W	C	M	Farmer	8	Yes	John Gray	1913-01-01
1014	Jane Gray	1914	2	2	F	W	C	M	Homemaker	8	Yes	Jane Gray	1914-02-02
1015	John Blue	1915	3	3	M	W	C	M	Teacher	10	Yes	John Blue	1915-03-03
1016	Jane Blue	1916	4	4	F	W	C	M	Homemaker	10	Yes	Jane Blue	1916-04-04
1017	John Red	1917	5	5	M	W	C	M	Farmer	8	Yes	John Red	1917-05-05
1018	Jane Red	1918	6	6	F	W	C	M	Homemaker	8	Yes	Jane Red	1918-06-06
1019	John Purple	1919	7	7	M	W	C	M	Teacher	10	Yes	John Purple	1919-07-07
1020	Jane Purple	1920	8	8	F	W	C	M	Homemaker	10	Yes	Jane Purple	1920-08-08
1021	John Yellow	1921	9	9	M	W	C	M	Farmer	8	Yes	John Yellow	1921-09-09
1022	Jane Yellow	1922	10	10	F	W	C	M	Homemaker	8	Yes	Jane Yellow	1922-10-10
1023	John Orange	1923	11	11	M	W	C	M	Teacher	10	Yes	John Orange	1923-11-11
1024	Jane Orange	1924	12	12	F	W	C	M	Homemaker	10	Yes	Jane Orange	1924-12-12
1025	John Pink	1925	1	1	M	W	C	M	Farmer	8	Yes	John Pink	1925-01-01
1026	Jane Pink	1926	2	2	F	W	C	M	Homemaker	8	Yes	Jane Pink	1926-02-02
1027	John Brown	1927	3	3	M	W	C	M	Teacher	10	Yes	John Brown	1927-03-03
1028	Jane Brown	1928	4	4	F	W	C	M	Homemaker	10	Yes	Jane Brown	1928-04-04
1029	John Green	1929	5	5	M	W	C	M	Farmer	8	Yes	John Green	1929-05-05
1030	Jane Green	1930	6	6	F	W	C	M	Homemaker	8	Yes	Jane Green	1930-06-06
1031	John Blue	1931	7	7	M	W	C	M	Teacher	10	Yes	John Blue	1931-07-07
1032	Jane Blue	1932	8	8	F	W	C	M	Homemaker	10	Yes	Jane Blue	1932-08-08
1033	John Red	1933	9	9	M	W	C	M	Farmer	8	Yes	John Red	1933-09-09
1034	Jane Red	1934	10	10	F	W	C	M	Homemaker	8	Yes	Jane Red	1934-10-10
1035	John Purple	1935	11	11	M	W	C	M	Teacher	10	Yes	John Purple	1935-11-11
1036	Jane Purple	1936	12	12	F	W	C	M	Homemaker	10	Yes	Jane Purple	1936-12-12
1037	John Yellow	1937	1	1	M	W	C	M	Farmer	8	Yes	John Yellow	1937-01-01
1038	Jane Yellow	1938	2	2	F	W	C	M	Homemaker	8	Yes	Jane Yellow	1938-02-02
1039	John Orange	1939	3	3	M	W	C	M	Teacher	10	Yes	John Orange	1939-03-03
1040	Jane Orange	1940	4	4	F	W	C	M	Homemaker	10	Yes	Jane Orange	1940-04-04
1041	John Pink	1941	5	5	M	W	C	M	Farmer	8	Yes	John Pink	1941-05-05
1042	Jane Pink	1942	6	6	F	W	C	M	Homemaker	8	Yes	Jane Pink	1942-06-06
1043	John Brown	1943	7	7	M	W	C	M	Teacher	10	Yes	John Brown	1943-07-07
1044	Jane Brown	1944	8	8	F	W	C	M	Homemaker	10	Yes	Jane Brown	1944-08-08
1045	John Green	1945	9	9	M	W	C	M	Farmer	8	Yes	John Green	1945-09-09
1046	Jane Green	1946	10	10	F	W	C	M	Homemaker	8	Yes	Jane Green	1946-10-10
1047	John Blue	1947	11	11	M	W	C	M	Teacher	10	Yes	John Blue	1947-11-11
1048	Jane Blue	1948	12	12	F	W	C	M	Homemaker	10	Yes	Jane Blue	1948-12-12
1049	John Red	1949	1	1	M	W	C	M	Farmer	8	Yes	John Red	1949-01-01
1050	Jane Red	1950	2	2	F	W	C	M	Homemaker	8	Yes	Jane Red	1950-02-02
1051	John Purple	1951	3	3	M	W	C	M	Teacher	10	Yes	John Purple	1951-03-03
1052	Jane Purple	1952	4	4	F	W	C	M	Homemaker	10	Yes	Jane Purple	1952-04-04
1053	John Yellow	1953	5	5	M	W	C	M	Farmer	8	Yes	John Yellow	1953-05-05
1054	Jane Yellow	1954	6	6	F	W	C	M	Homemaker	8	Yes	Jane Yellow	1954-06-06
1055	John Orange	1955	7	7	M	W	C	M	Teacher	10	Yes	John Orange	1955-07-07
1056	Jane Orange	1956	8	8	F	W	C	M	Homemaker	10	Yes	Jane Orange	1956-08-08
1057	John Pink	1957	9	9	M	W	C	M	Farmer	8	Yes	John Pink	1957-09-09
1058	Jane Pink	1958	10	10	F	W	C	M	Homemaker	8	Yes	Jane Pink	1958-10-10
1059	John Brown	1959	11	11	M	W	C	M	Teacher	10	Yes	John Brown	1959-11-11
1060	Jane Brown	1960	12	12	F	W	C	M	Homemaker	10	Yes	Jane Brown	1960-12-12

STATEMENT I.

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.		Total.	
1	2	3	4	5	6			7	8	
Patna Division.										
1	Patna	{ By paid Vaccinators ...	1,574,287	761	{	4,631	4,198	8,829	490	8,830
		{ By licensed Vaccinators ...				27,307	28,148	55,455	949	55,452
2	Gaya	{ By paid Vaccinators ...	2,152,030	457	{	2,903	2,827	5,730	358	5,701
		{ By licensed Vaccinators ...				23,214	21,075	44,289	559	45,187
3	Shahabad	{ By paid Vaccinators ...	1,816,821	415	{	3,025	3,058	6,083	267	6,080
		{ By licensed Vaccinators ...				28,710	24,216	52,926	468	52,926
Total of Patna Division		{ By paid Vaccinators ...	5,544,038	497	{	11,159	10,083	21,242	360	21,011
		{ By licensed Vaccinators ...				79,421	72,337	151,758	599	151,655
Tirhut Division.										
4	Saran	{ By paid Vaccinators ...	2,339,953	872	{	1,302	1,185	2,487	312	2,418
		{ By licensed Vaccinators ...				36,692	34,271	70,963	806	70,933
5	Champaran	{ By paid Vaccinators ...	1,940,841	549	{	2,228	1,300	3,528	683	2,262
		{ By licensed Vaccinators ...				21,106	29,871	42,087	637	41,963
6	Muzaffarpur	{ By paid Vaccinators ...	2,754,945	907	{	1,771	1,388	3,159	263	2,782
		{ By licensed Vaccinators ...				45,827	45,504	91,331	1,131	89,324
7	Darbhanga	{ By paid Vaccinators ...	2,913,529	870	{	1,206	1,239	2,445	349	2,381
		{ By licensed Vaccinators ...				46,855	44,846	91,701	1,043	90,524
Total of Tirhut Division		{ By paid Vaccinators ...	9,949,268	789	{	6,537	5,112	11,649	375	9,943
		{ By licensed Vaccinators ...				150,540	143,492	294,032	942	296,743
Bhagalpur Division.										
8	Monghyr	{ By paid Vaccinators ...	2,029,065	518	{	1,143	1,055	2,198	314	2,092
		{ By licensed Vaccinators ...				34,350	34,400	68,750	2,292	68,734
9	Bhagalpur	{ By paid Vaccinators ...	2,033,770	481	{	4,376	2,490	6,866	584	4,365
		{ By licensed Vaccinators ...				29,027	28,918	57,945	929	58,416
10	Purnea	{ By paid Vaccinators ...	2,024,608	405	{	1,219	651	1,870	170	1,181
		{ By licensed Vaccinators ...				17,649	16,507	34,156	644	33,962
11	Santal Parganas	{ By paid Vaccinators ...	1,798,039	329	{	3,098	2,025	5,123	786	4,499
		{ By licensed Vaccinators ...				26,036	25,051	51,087	696	50,084
Total of Bhagalpur Division.		{ By paid Vaccinators ...	7,589,982	423	{	10,304	6,821	17,125	451	12,137
		{ By licensed Vaccinators ...				167,962	164,576	332,538	1,047	331,136
Orissa Division.										
12	Cuttack	{ By paid Vaccinators ...	2,004,678	565	{	2,941	2,543	5,484	548	2,837
		{ By licensed Vaccinators ...				21,082	20,099	41,081	701	41,389
13	Balasore	{ By paid Vaccinators ...	960,504	470	{	3,350	1,645	4,995	532	902
		{ By licensed Vaccinators ...				16,898	12,299	29,197	881	27,418
14	Angul	By licensed Vaccinators ...	182,574	112	{	3,250	3,127	6,377	530	6,320
15	Puri	By paid Vaccinators ...	951,651	380	{	20,953	17,046	38,002	1,310	35,882
16	Sambalpur	{ By paid Vaccinators ...	789,466	206	{	146	100	246	45	239
		{ By licensed Vaccinators ...				12,071	11,510	23,581	693	23,574
Total of Orissa Division		{ By paid Vaccinators ...	4,968,873	361	{	27,390	21,334	48,727	974	39,950
		{ By licensed Vaccinators ...				63,181	47,035	110,216	726	98,701

districts of Bihar and Orissa during the year 1923-24.

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
2,332	5,727	8,310	50	199	111	9	90'85	58'42	29'12	'57	4'52	65,583	42'42	1,375	'87
16,720	23,175	82,798	143	1	1	...	90'87	100'		'26	...				
2,633	2,909	5,607	7	29	16	...	90'82	45'17	23'75	'12	...	54,095	25'40	822	'28
17,475	26,296	45,071	26	102	23	25	90'80	39'87		'05	21'50				
3,600	2,099	6,650	7	8	1	...	90'65	32'33	32'65	'10	...	54,846	30'18	402	'22
29,708	19,246	51,842	14	...	...	...	90'88	...		'02	...				
8,355	11,389	20,637	64	231	128	9	90'47	57'05	30'03	'20	2'89	176,424	31'82	2,509	'46
62,883	78,717	180,711	183	103	24	25	90'49	30'76		'12	26'27				
1,627	671	2,298	34	69	37	2	90'37	55'22	30'06	1'40	2'89	61,172	26'14	777	'33
17,796	49,557	69,920	368	30	20	2	90'08	71'42		'61	6'08				
825	1,229	2,158	31	1,268	761	216	90'72	72'47	23'23	1'37	17'05	48,398	24'03	376	'14
11,118	30,472	41,906	16	75	57	2	90'00	78'08		'03	2'66				
932	1,761	2,713	3	377	284	18	97'62	79'10	33'42	'10	4'77	60,368	31'31	196	'07
16,874	71,963	68,977	28	7	5	...	90'04	71'42		'03	...				
585	1,772	2,360	...	64	34	4	90'11	50'66	32'14	...	6'25	60,097	30'58	273	'06
12,982	77,374	90,415	7	1,177	842	...	90'88	71'53		'007	...				
2,870	5,433	9,457	68	1,776	1,116	249	90'74	72'65	30'42	'69	13'51	284,935	28'63	1,554	'15
58,680	229,066	291,218	419	1,259	624	4	90'62	71'00		'14	'31				
997	1,050	2,060	4	106	29	5	98'64	27'72	34'89	'19	4'71	17,733	28'44	353	'17
17,291	50,413	68,738	...	16	7	...	90'99	43'75		...	...				
1,643	2,515	4,301	59	2,401	1,523	110	90'42	66'47	32'18	'89	4'58	60,072	29'13	332	'16
24,461	33,673	58,374	10	129	92	9	90'96	70'65		'08	6'97				
554	563	1,117	19	689	278	143	90'98	50'91	17'20	1'00	20'75	45,379	22'00	1,108	'89
18,034	18,650	33,759	10	254	54	...	90'60	21'25		'02	...				
2,120	2,281	4,441	21	1,792	885	262	90'28	59'92	31'18	'46	21'21	48,497	20'03	311	'17
28,441	21,294	49,887	100	1,003	657	50	90'30	68'94		'19	4'98				
5,314	6,499	11,934	83	4,988	2,674	640	99'00	61'48	28'67	'08	12'83	212,681	29'08	2,194	'17
85,817	124,039	210,783	129	1,602	810	59	90'97	60'31		'15	4'20				
899	1,722	2,787	36	2,647	1,311	359	90'53	57'07	22'20	1'26	13'22	58,161	28'16	979	'47
16,500	22,791	41,313	65	692	196	114	99'57	33'91		'15	16'47				
284	602	967	12	4,003	1,061	932	98'67	63'52	30'79	1'20	23'62	34,120	29'19	371	'37
6,875	18,529	26,990	141	779	267	247	98'94	53'94		'51	31'70				
2,857	3,244	6,133	42	37	26	3	97'09	70'47	33'73	'06	8'10	4,906	19'00	47	'26
11,108	21,295	35,184	514	2,120	1,048	316	99'47	58'06		1'43	15'45				
182	65	237	...	7	...	6	99'16	...	...	...	65'71	17,386	21'87	161	'30
18,242	5,170	23,444	93	7	3	4	99'85	100'		'40	57'14				
12,443	23,642	39,175	502	8,777	4,310	1,603	99'45	60'97	28'55	1'40	15'22	140,517	28'27	1,076	'59
43,974	49,740	97,680	344	1,515	512	368	99'51	44'63		'34	24'29				

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

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.		Total.	
1	2	3	4	5	6			7	8	
Chota Nagpur Division.										
17	Hamirbagh ...	{ By paid Vaccinators ... } { By licensed Vaccinators ... }	1,278,946	181	{ 5 43	1,119 16,826	832 15,721	1,941 32,547	388 787	1,443 32,547
18	Ranchi ...	{ By paid Vaccinators ... } { By licensed Vaccinators ... }	1,334,473	187	{ 3 43	1,279 31,947	740 20,873	2,019 42,820	673 892	1,543 42,343
19	Palamanu ...	{ By paid Vaccinators ... } { By licensed Vaccinators ... }	733,394	169	{ 4 25	1,000 7,818	585 7,639	1,585 15,457	306 618	919 15,454
20	Manbhum ...	{ By paid Vaccinators ... } { By licensed Vaccinators ... }	1,648,777	373	{ 32 42	15,965 17,193	12,448 15,898	28,413 33,091	887 787	20,004 32,993
21	Singbhum ...	{ By paid Vaccinators ... } { By licensed Vaccinators ... }	759,438	185	{ 3 20	1,344 7,644	495 7,201	1,839 14,835	613 747	650 14,446
Total of Chota Nagpur Division.		{ By paid Vaccinators ... } { By licensed Vaccinators ... }	5,653,028	308	{ 47 178	20,707 71,428	15,090 67,423	35,797 138,850	762 790	24,759 137,783
Total of Vaccine Department.		{ By paid Vaccinators ... } { By licensed Vaccinators ... } { Total ... }	34,002,189	469	{ 223 1,089 1,313	76,070 462,532 538,602	59,449 424,862 493,302	134,519 887,394 1,031,904	806 825 786	107,700 892,018 999,718
Total Dispensary Department		...	...	...	1	299	49	348	342	1
Total Railways (a)		...	...	...	...	440	335	775	...	767
Total Cooly Department		...	...	...	...	779	273	1,052	...	60
Total Jails and Cantonments		...	...	...	2	8,614	577	9,191	(a) 347	1,104
Grand Total		...	...	...	1,316	648,728	494,535	1,043,264	793	1,001,620

(a) Cantonments only.

(b) Vaccinated by Medical Officer.

districts of Bihar and Orissa during the year 1923-24—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
590	1,011	1,641	—	298	184	1	99.87	61.95	28.32	—	—	32,258	25.26	117	.09
15,110	17,242	32,545	—	—	—	—	99.99	—		—	—				
1,250	262	1,543	—	476	2	474	100	100	33.58	—	99.58	28,329	28.72	721	.54
33,300	9,017	42,340	1	477	334	98	99.99	87.66		.002	20.12				
367	471	802	43	666	110	512	98.40	71.43	22.45	4.67	76.87	18,095	25.49	522	.71
11,909	9,467	15,436	25	3	3	—	99.98	106		.18	—				
4,981	13,267	19,227	531	8,409	6,429	659	93.60	82.95	37.46	2.65	7.63	40,965	30.32	201	.12
16,817	16,243	32,991	—	98	50	—	99.99	81.02		—	—				
308	301	627	3	1,189	505	41	96.90	51.82	21.14	.46	3.44	17,353	22.64	342	.45
9,254	5,123	14,409	3	489	340	9	99.76	70.83		.02	1.84				
7,212	15,312	22,900	577	11,038	7,320	1,687	94.69	78.28	29.83	2.33	15.28	153,611	27.17	1,963	.53
86,179	51,091	137,711	29	1,067	727	105	99.96	75.57		.02	9.90				
37,194	62,183	104,093	1,354	26,810	15,548	4,179	97.88	68.79	29.73	1.25	15.58	968,168	28.47	10,196	.29
337,833	532,653	888,273	1,194	5,376	2,967	561	99.70	62.24		.12	10.43				
375,127	594,838	992,366	2,458	22,166	18,545	4,740	99.50	67.56	—	.24	14.72	—	—	—	—
—	—	1	—	341	49	—	100	14.37		—	—				
289	315	709	1	8	5	—	92.55	63.5	—	.13	—	—	—	—	—
—	—	—	60	692	288	704	—	100	—	100	70.96	—	—	—	—
413	199	1,018	41	8,067	4,050	1,122	99.76	58.14	—	3.71	15.87	—	—	—	—
375,929	595,352	964,094	2,500	41,614	22,917	6,566	99.49	45.44	—	.35	13.77	—	—	—	—

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			
BY SPECIAL STAFF.																
Statement (I) ...	999,718	32,186	999,718	32,186	99.50	67.56	1,313	790	375,127	54,838	29.73	Rs. a. p. 1,52,979 14 0	Rs. a. p. 9 2 4			
BY DISPENSARY STAFF.																
Statement III ...	1	341	1	341	100	14.37	1	342	...	...						
BY OTHER AGENCIES.																
Railways, Cooly Depot, Jails and Cantonments.	1,931	9,087	1,931	9,087	94.12	19.91	2(a)	357	801	614						
Total ...	1,001,650	41,614	1,001,650	41,614	99.59	66.14	1,316	793	375,928	595,352	29.73	1,52,979 14 0	9 2 4			

(a) Cantonments only.

[illegible]

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

No.	Circle and District.	European supervising officer.	Expen-										
			Pay.	Native supervising officer.	Pay.	Paid vaccinators.	Pay.	Licensed vaccinators.	Pay.	Certs.	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	2,540 0 0	20	2,081 0 0	63	326 0 0			2	51 0 0
2	Gaya			5	3,275 10 0	16	2,037 5 0	81				2	216 0 0
3	Shahabad			5	2,622 4 0	25	2,378 0 0	113					
	Total of Patna Division			15	8,437 14 0	61	6,496 5 0	257	335 0 0			4	266 0 0
	TIRHUT DIVISION.												
4	Saran			4	2,011 10 0	8	978 13 0	79					
5	Champan			3	1,500 0 0	4	322 0 0	66					
6	Muzaffarpur			4	3,062 14 0	12	1,674 3 0	79					
7	Darbhanga			4	2,088 5 3	7	864 0 0	88		1	60 0 0		
	Total of Tirhut Division			15	8,663 13 3	31	4,638 15 0	313		1	60 0 0		
	BHAGALPUR DIVISION.												
8	Monghyr			4	1,920 0 0	7	831 4 3	30				2	111 0 0
9	Bhagalpur			5	3,580 6 0	12	1,068 7 0	63					
10	Purnea			4	2,490 14 0	11	1,527 0 0	55					
11	Santal Parganas			7	3,372 0 0	8	1,259 14 6	57					
	Total of Bhagalpur Division			20	11,473 4 0	38	4,686 9 9	205				2	111 0 0
	ORISSA DIVISION.												
12	Cuttack			4	1,920 0 0	10	1,546 6 0	60					
13	Balasore			3	1,500 0 0	6	867 9 0	32	450 0 0				
14	Angul			3	2,886 0 0			12	180 0 0				
15	Puri			3	1,680 0 0	29	3,776 3 6						
16	Sambalpur			3	1,590 0 0	5	570 7 0	34				2	45 12 0
	Total of Orissa Division			16	9,000 0 0	50	6,751 8 6	138	630 0 0			2	45 12 0
	CHOTA NAGPUR DIVISION.												
17	Hazaribagh			4	2,560 8 0	5	1,005 0 0	43					
18	Ranchi			4	2,490 3 0	4	747 12 9	48					
19	Palamu			3	1,173 15 0	4	911 15 0	25					
20	Manbhum			19	2,592 0 0	32	3,734 0 0	42					
21	Singbhum			3	1,440 0 0	3	291 0 0	20					
	Total of Chota Nagpur Division			33	10,566 10 0	48	6,189 11 9	178					
	Total of Vaccine Circle			90	49,790 9 3	228	28,123 2 0	1,088	905 0 0	1	60 0 0	8	423 12 0
	ESTABLISHMENT OF THE ASSISTANT DIRECTOR OF PUBLIC HEALTH, NORTH BIHAR CIRCLE.			1	12,180 9 0					2	1,200 2 0	2	215 6 0
	Ditto SOUTH BIHAR CIRCLE			1	11,300 0 0					2	1,200 0 0	2	200 13 9
	Ditto CHOTA NAGPUR AND ORISSA CIRCLE.			1	10,474 12 0					2	1,205 2 6	2	213 5 0
	Total			3	33,955 5 0					6	3,605 4 6	6	628 8 9
	Total of Province			102	82,215 14 3	228	28,123 2 0	1,088	925 0 0	7	2,925 4 6	14	1,061 4 9

Province of Bihar and Orissa during the year 1923-24.

Expenditure.					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.	
4,967 0 0	1,429 5 11	...	100 0 0	6,496 5 11	...	4,089 5 11	84 0 0	1,567 0 0	...	6,496 5 11	61,595	0 1 3	
5,548 15 0	684 10 3	...	222 1 0	6,455 10 3	...	4,079 14 3	1,597 13 9	777 14 3	...	6,455 10 3	51,137	0 2 0	
5,000 4 0	1,609 1 0	...	283 8 9	6,572 13 9	...	4,501 5 0	1,508 0 0	903 8 9	...	6,972 13 9	50,661	0 1 10	
15,416 3 0	3,723 1 2	...	685 9 9	19,924 13 11	...	12,670 9 2	3,945 13 9	3,308 7 0	...	19,924 13 11	173,393	0 1 10	
2,990 6 0	1,127 3 0	...	290 6 0	4,407 15 0	...	3,263 13 0	291 4 0	852 14 0	...	4,447 15 0	72,449	0 9 11	
2,922 0 0	941 6 0	...	134 15 0	3,098 5 0	...	2,561 3 0	183 0 0	354 2 0	...	3,098 5 0	45,503	0 1 1	
4,737 1 0	487 6 0	...	224 12 0	5,319 3 0	...	3,675 0 0	499 0 0	1,175 3 0	...	5,319 3 0	92,087	0 0 11	
3,013 5 3	1,392 6 4	...	140 0 0	4,544 11 7	...	3,579 11 7	...	974 0 0	...	4,544 11 7	93,601	0 0 9	
12,761 12 3	3,918 5 4	...	620 1 0	17,400 2 7	...	13,070 11 7	973 4 0	3,356 3 0	...	17,400 2 7	203,290	0 0 11	
2,867 4 3	1,560 0 0	...	319 9 6	4,641 13 9	...	3,379 0 0	446 0 0	625 13 9	...	4,641 13 9	70,528	0 1 0	
4,618 13 0	699 7 0	...	221 4 0	5,569 8 0	...	4,309 13 3	702 13 0	491 13 9	...	5,569 8 0	65,464	0 1 4	
3,927 14 0	1,288 11 0	...	278 8 3	5,445 1 3	...	3,799 9 0	581 0 0	1,094 8 3	...	5,445 1 3	35,218	0 2 5	
4,831 14 6	2,639 0 0	...	110 10 0	7,581 8 6	...	6,311 0 0	771 1 0	499 7 6	...	7,581 8 6	56,656	0 2 1	
16,270 13 9	6,187 2 0	...	779 15 9	23,237 15 6	...	18,029 6 0	2,599 14 3	2,716 10 15	...	23,237 15 0	227,566	0 1 7	
3,466 6 0	1,329 8 0	...	198 7 6	4,994 5 6	...	3,389 8 0	846 12 0	758 1 6	...	4,994 5 6	46,041	0 1 8	
2,877 6 0	775 0 3	...	70 0 0	3,722 9 3	...	2,808 5 0	628 4 3	286 0 0	...	3,722 9 3	30,195	0 1 11	
3,600 0 0	669 0 0	...	70 0 0	3,799 0 0	...	3,799 0 0	...	...	...	3,799 0 0	6,159	0 9 10	
5,447 2 6	1,039 14 0	...	80 0 0	6,563 0 6	...	2,799 14 0	3,572 6 6	194 12 9	...	6,566 0 6	36,479	0 3 10	
2,176 3 0	942 4 0	...	128 8 6	3,246 15 6	...	2,622 4 0	424 3 0	200 8 6	...	3,246 15 6	23,757	0 2 2	
17,027 4 6	4,774 10 3	...	547 0 0	22,328 14 9	...	16,417 15 0	5,471 9 9	1,439 6 0	...	22,328 14 9	142,631	0 2 6	
3,565 8 0	566 11 0	...	104 2 3	4,236 5 3	...	3,727 2 6	470 0 0	539 2 9	...	4,236 5 3	35,784	0 1 10	
3,147 15 9	1,259 0 0	...	105 0 0	4,511 15 9	...	3,794 3 0	...	717 12 9	...	4,511 15 9	44,812	0 1 7	
2,465 14 0	864 1 0	...	113 12 0	3,493 11 0	...	2,504 14 0	573 9 9	385 3 3	...	3,493 11 0	16,466	0 3 4	
5,826 0 6	514 0 0	...	120 0 0	6,450 0 6	...	2,426 0 0	3,700 0 0	294 0 0	...	6,460 0 6	58,031	0 1 9	
1,731 0 0	625 14 0	...	50 4 0	2,407 2 0	...	2,115 14 0	60 0 0	231 4 0	...	2,407 2 0	16,058	0 2 4	
16,756 5 9	3,829 10 0	...	423 2 3	21,079 2 0	...	15,038 1 6	4,843 9 9	2,197 6 9	...	21,079 2 0	171,151	0 1 11	
78,332 7 3	22,442 12 9	...	3,195 12 9	1,03,971 0 9	...	73,217 11 3	17,735 3 6	13,018 2 0	...	1,03,971 0 9	1,017,031	0 1 7	
13,696 1 0	2,805 1 0	...	999 15 0	17,501 1 0	...	17,501 1 0	...	...	...	17,501 1 0	...	...	
12,669 13 9	2,877 11 9	...	1,168 13 3	16,696 6 9	...	16,696 6 9	...	...	...	16,696 6 9	...	...	
11,593 3 6	2,949 15 0	...	277 3 0	14,811 5 6	...	14,811 5 6	...	...	...	14,811 5 6	...	...	
37,959 2 3	8,023 11 9	...	2,425 15 3	49,008 13 3	...	49,008 13 3	...	...	...	49,008 13 3	...	...	
1,16,391 9 6	31,066 8 6	...	5,621 12 0	1,52,979 14 0	...	1,22,226 8 6	17,753 3 6	13,018 2 0	...	1,52,979 14 0	1,017,031	0 2 4	

B.—DISPENSARY VACCINATION.

STATEMENT No III.—Showing Dispensary Vaccination in the Province of Bihar and Orissa during the year 1923-24.

District.	Number of dispensaries in each district to which a vaccinator is attached.	Average number of vaccinators attached to dispensaries during the year.	Total number of persons vaccinated.	Average number of persons vaccinated by each vaccinator.	Primary vaccination.					Re-vaccination.			Percentage of successful cases in which the results were known.		Percentage of unknown cases to total cases.	
					Total.	Successful.			Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
						Under one year.	One and under six years.	Total of all ages.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Patna ...	1	1	342	342	1	...	...	1	...	341	49	...	100	14.37	...	...
Gaya ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shahabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saran ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Champaran ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Muzaffarpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Darbhanga ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Monghyr ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bhagalpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Purnea ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Santal Parganas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cuttack ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Balasore ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Angul ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puri ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sambalpur ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hazaribagh ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ranchi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Palaman ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mantham ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Singbhum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	1	1	342	342	1	...	...	1	...	341	49	...	100	14.37	...	...

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

Establishment.	Persons primarily							
	1914-15		1915-16		1916-17		1917-18	
	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 ...	649	515	10,277	10,046	3,963	3,441	6,984	6,060
Municipal ...	47,235	45,310	42,039	41,661	38,645	37,226	37,586	36,107
Local Fund ...	76,264	75,266	94,056	84,636	80,353	73,103	82,772	77,911
Dispensaries...	178	176	285	215	202	202	181	177
Licensed Vaccinators ...	1,114,753	1,109,554	1,065,623	1,059,266	922,991	913,264	931,549	926,281
Total ...	1,239,079	1,230,821	1,212,740	1,195,824	1,046,154	1,027,236	1,059,072	1,046,526

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

vaccinated.											
1918-19		1919-20		1920-21		1921-22		1922-23		1923-24.	
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
6,637	5,941	7,363	6,520	1,927	1,831	891	825	794	735	1,104	1,018
36,573	35,213	36,810	35,428	32,858	31,541	31,136	30,040	29,927	28,963	33,760	32,833
59,639	56,495	69,847	66,946	80,337	77,939	71,144	68,523	70,386	67,809	74,767	71,969
139	139	178	178	262	262	...	...	...	...	1	1
816,096	811,506	811,168	806,217	854,339	848,948	800,424	797,357	865,920	862,260	8,92,018	8,88,273
919,084	903,294	925,366	915,289	969,723	960,521	903,595	896,745	967,027	959,767	10,01,650	9,94,094

STATEMENT No. V.—Showing particulars of vaccination

District.	Total number inspected—										Percentage of	
	Total number of persons vaccinated.		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.			
	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.	Primary.	Re-vaccination.
	3	4	5	6	7	8	9	10	11	12	13	
Patna ...	62,514	663	9,766	...	660	341	14,379	...	15,075	...	16.59	...
Gaya ...	50,923	819	10,319	...	311	488	9,919	...	18,606	...	20.23	...
Shahabad ...	59,779	30	2,658	...	2,545	...	6,683	...	16,899	...	4.44	...
Saran ...	73,361	616	1,851	...	3,350	...	2,774	...	12,280	...	2.52	...
Champaran ...	44,330	1,455	2,740	...	499	...	15,054	...	23,195	26	6.19	...
Muzaffarpur ...	92,124	765	5,297	...	8,129	381	15,085	...	29,370	3	6.74	...
Darbhanga ...	92,905	1,241	4,508	...	2,917	...	19,788	211	39,741	...	4.85	...
Monghyr ...	70,826	123	2,971	...	1,816	...	12,917	73	23,634	17	4.19	...
Bhagalpur ...	62,075	4,991	2,682	...	3,047	677	10,250	...	24,566	...	5.81	...
Purnea ...	35,093	913	1,767	...	441	...	7,354	...	11,650	...	4.97	...
Santal Parganas ...	54,583	3,271	5,763	...	2,543	394	6,297	418	19,569	528	10.12	...
Juteack ...	44,220	1,181	3,214	...	...	745	6,935	248	8,593	767	7.26	...
Balasore ...	28,410	4,782	870	...	1,202	44	3,642	253	7,714	500	3.18	...
Angul ...	6,335	409	...	...	684	...	1,613	...	5,289	31	...	...
Puri ...	35,882	2,451	347	...	407	449	6,455	648	12,086	866	9.98	...
Bambalpur ...	33,815	133	980	...	1,519	108	5,907	...	6,074	...	4.14	...
Hazaribagh ...	34,964	1,273	7,525	...	1,766	603	5,895	...	10,402	15	21.52	...
Ranchi ...	44,168	1,694	1,064	...	1,850	...	8,215	538	13,178	...	2.49	...
Palaman ...	16,461	1,391	1,423	...	2,975	170	5,345	50	5,701	9	8.64	...
Manbhum ...	53,010	9,014	3,024	...	1,792	...	10,010	...	22,261	7,151	6.83	...
Singbhum ...	16,405	1,781	1,481	...	843	186	3,598	812	7,335	29	6.83	...
TOTAL ...	1,001,660	41,614	71,814	...	40,985	4,686	174,801	3,330	323,478	9,968	7.16	...

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.
By 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.	Primary.	Re-vaccination.	
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
103	61.06	22.98	...	25.65	...	96.10	...	100	100	100	...	100	...	98.23	29.83	
61	84.00	13.55	...	30.51	...	95.09	...	93.89	48.72	98.35	...	98.43	...	90.69	45.67	
4.25	...	11.17	...	28.27	...	89.16	...	97.81	...	75.85	...	90.58	...	9.77	87.00	
4.66	...	3.78	...	18.10	...	85.49	...	98.95	...	93.30	...	97.56	...	98.28	49.27	
92	...	34.93	...	59.18	1.67	85.78	...	100	...	90.64	...	91.52	88.48	99.63	69.11	
9.4	49.80	16.37	...	31.77	7.29	95.07	...	99.57	22.88	90.69	...	93.02	100	99.54	49.67	
4.21	...	20.86	17.10	33.09	...	90.43	...	99.81	...	90.19	54.34	92.67	...	90.85	73.59	
2.56	...	18.21	59.83	33.26	13.93	89.98	...	99.73	...	99.92	65.75	19.71	17.64	99.95	29.08	
4.83	11.56	16.44	...	39.45	...	85.14	...	10.27	27.20	98.15	...	97.90	...	99.83	60.69	
1.25	...	20.36	...	35.20	...	81.19	...	100	...	97.13	...	98.97	...	99.43	35.20	
6.49	12.04	11.53	13.77	33.85	16.44	81.09	...	97.45	47.46	96.93	45.61	98.99	73.97	...	...	
...	18.24	15.64	6.07	29.10	18.74	91.99	...	...	58.15	90.38	68.64	83.55	7.70	99.71	47.52	
4.22	92	12.81	6.94	27.15	10.68	78.19	...	99.41	68.18	98.87	34.67	17.71	91.30	98.40	49.80	
8.90	...	25.46	...	83.48	7.37	...	...	98.58	...	90.90	...	96.12	45.16	97.04	70.27	
1.30	18.26	17.98	26.36	30.19	35.23	95.10	...	91.22	69.13	98.91	55.09	99.37	47.24	98.05	52.08	
6.37	81.20	24.90	...	29.28	...	92.99	...	97.76	65.74	97.37	...	95.64	...	99.44	55.65	
5.10	47.36	10.77	...	29.92	1.17	98.14	...	90.83	67.27	98.63	...	97.26	80	90.68	44.08	
4.18	...	18.59	36.91	29.72	...	91.16	...	100	...	98.73	53.71	98.41	...	99.99	43.57	
18.08	14.27	32.49	4.19	28.01	7.75	97.11	...	100	29.58	90.66	40.00	99.13	21.22	99.08	13.63	
2.43	...	18.95	...	43.88	79.33	94.21	...	85.75	...	93.91	...	94.28	83.03	99.28	64.80	
5.68	10.44	23.83	45.50	16.46	2.18	94.81	...	98.93	56.24	99.13	59.11	99.67	84.61	99.63	57.38	
4.09	11.26	17.45	8.00	31.29	23.95	92.44	...	92.66	52.18	99.83	53.93	97.31	73.65	99.27	50.89	

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

District.	1914-15.		1915-16		1916-17		1917-18	
	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		4	5	6	7	8	9
Patna ...	·48	57,665	·71	68,438	·28	67,870	·15	68,529
Gaya ...	·10	65,855	·68	75,641	·37	56,139	·18	62,246
Shahabad ...	·32	62,079	·45	65,016	·26	51,176	·10	51,858
Saran ...	·06	80,739	·15	79,608	·27	74,895	·16	77,721
Champaran ...	·10	64,146	·14	68,255	·07	49,091	·11	51,755
Muzaffarpur ...	·09	105,292	·24	104,624	·20	88,702	·09	85,898
Darbhanga ...	·24	97,760	·41	95,237	·28	96,020	·07	93,206
Monghyr ...	·46	89,749	·42	87,999	·17	67,229	·10	68,361
Bhagalpur ...	·35	75,831	·38	74,532	·22	66,899	·22	68,166
Purnea ...	·30	58,496	·38	51,206	·33	53,018	·64	49,490
Santal Parganas ...	·18	53,182	·37	57,558	·43	46,826	·14	56,728
Cuttack ...	·06	113,297	·69	89,925	·46	73,415	·81	62,177
Balasore ...	·90	53,281	·90	38,609	·24	22,178	·03	25,800
Angul ...	...	7,680	·01	9,686	·15	9,226	·01	6,956
Puri ...	·02	33,820	·30	37,595	·52	29,228	·26	34,639
Sambalpur ...	·02	27,561	·75	22,606	1·09	19,938	·24	23,345
Hazaribagh ...	·03	48,299	·49	46,709	·19	42,148	·07	39,761
Ranchi ...	·03	50,958	·12	52,111	·05	46,667	·03	47,094
Palamau ...	·10	25,327	·17	31,808	·15	25,542	·06	26,893
Manbhum ...	·43	73,369	·63	54,056	·23	49,379	·02	52,289
Singhbhum ...	·45	25,909	·28	19,526	·12	17,429	·09	17,872
Total ...	·22	1,273,285	·42	1,230,745	·28	1,053,015	·19	1,070,784

Small-pox and the number of successful vaccinations during the ten years ending 1923-24.

1918-19		1919-20		1920-21		1921-22		1922-23		1923-24	
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
·13	68,535	·85	68,573	·79	71,340	·46	63,297	·05	62,673	·06	61,595
·21	56,114	·62	66,449	·77	60,938	·24	42,710	·04	47,263	·04	51,137
·02	41,625	·24	41,394	·55	62,418	·22	69,010	·04	58,782	·02	69,661
·07	66,443	·10	66,884	·39	68,000	·13	37,665	·02	66,871	·05	72,449
·14	50,191	·13	53,458	·29	56,914	·08	36,927	·06	44,499	·09	45,103
·02	86,634	·10	87,182	·13	89,230	·04	82,124	·04	86,141	·12	92,087
·08	36,555	·10	88,770	·17	93,468	·03	88,504	·06	88,184	·05	93,651
·05	56,576	·24	59,814	·28	55,104	·14	54,215	·11	62,958	·09	70,828
·09	59,034	·23	56,741	·22	58,176	·13	62,115	·09	64,294	·48	65,464
·52	54,209	·96	50,349	·98	51,930	·29	36,428	·24	38,977	·06	35,218
·06	46,659	·30	44,691	·37	45,864	·05	50,187	·01	55,085	·03	56,056
·89	51,845	·91	55,008	·30	60,775	·04	61,434	·15	61,752	·28	46,041
·09	20,943	·86	22,139	·54	27,597	·09	23,380	·17	23,541	·37	30,195
·06	6,751	1·11	5,739	...	4,060	...	4,968	·005	5,511	...	6,159
·75	33,543	3·12	32,940	·77	41,225	·08	34,897	·13	35,208	·25	36,479
·07	15,361	·68	13,835	·27	18,523	·03	20,829	·006	18,791	·01	23,757
·07	35,632	·24	35,026	·13	29,123	·02	29,524	·02	31,985	·02	35,784
·04	31,870	·90	40,559	1·38	38,450	·21	38,997	·05	41,821	·01	44,812
·06	20,472	1·26	21,226	1·76	19,346	·56	16,898	·09	15,585	·04	16,466
·05	37,807	·44	57,908	·11	43,192	·02	43,484	·02	52,438	·01	58,031
·10	15,542	1·24	19,595	·52	18,023	·32	16,605	·18	16,998	·14	16,058
·17	942,370	·53	989,278	·56	1,013,696	·14	917,188	·07	979,351	·11	1,017,031

STATEMENT No. VII--Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1923-24.

District.	Towns.	Number of births during the year ending 31st March 1924.	Number of deaths amongst infants under one year during the year ending 31st March 1924.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1924.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Patna	Patna	3,951	702	919	1st October 1884.
	Bihar	883	138	357	1st April 1887.
	Dinapur	1,181	237	556	28th January 1891.
	Barh	300	80	149	1st April 1887.
	Khagole	287	64	15	12th July 1910.
	Total	6,602	1,221	1,996	
Gaya	Gaya	1,865	734	1,106	1st January 1883.
	Tikari	213	29	37	3rd January 1891.
	Daudnagar	319	66	231	Ditto.
	Total	2,397	829	1,374	
Shahabad	Arrah	1,355	229	877	20th July 1885.
	Buxar	374	85	263	1st April 1887.
	Dumraon	761	104	299	Ditto.
	Jagadispur	328	51	258	20th December 1890.
	Sassaram	887	161	319	1st April 1887.
	Bhabhua	137	34	82	Ditto.
	Total	3,872	664	2,098	
	Total of Patna Division.	12,871	2,714	5,468	
Saran	Chapra	1,556	...	906	1st April 1887.
	Revelganj	362	77	264	12th December 1890.
	Siwan	444	52	338	1st April 1887.
	Total	2,362	129	1,508	
Champanan	Motihari	422	64	312	1st April 1887.
	Bettiah	865	148	257	Ditto.
	Total	1,287	212	569	

STATEMENT NO. VII—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1923-24—contd.

District.	Towns.	Number of births during the year ending 31st March 1924.	Number of deaths amongst infants under one year during the year ending 31st March 1924.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1924.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Muzaffarpur	Muzaffarpur	1,361	268	435	1st January 1886.
	Sitamarhi	301	30	171	1st April 1887.
	Hajipur	686	146	183	1st May 1890.
	Lalganj	306	38	122	1st April 1887.
	Total	2,654	482	911	
Darbhanga	Darbhangha	1,947	265	376	24th May 1884.
	Roserha	505	61	60	3rd January 1891.
	Samastipur	342	49	25	25th July 1910.
	Madhubani	455	36	125	1st April 1887.
	Total	3,249	411	566	
	Total of Tirhut Division.	9,552	1,234	3,574	
Monghyr	Monghyr	1,833	333	338	15th November 1882.
	Jamalpur	1,037	191	515	Ditto.
	Total	2,870	524	853	
Bhagalpur	Bhagalpur	1,760	326	924	15th February 1884, withdrawn on 16th October 1895; re-extended on 18th August 1898.
	Colgong	128	36	44	Ditto, re-extended on 19th December 1901.
	Total	1,888	362	968	
Purnea	Purnea	294	36	168	1st July 1887.
	Kishanganj	132	16	120	12th November 1892.
	Katihar	284	16	130	8th August 1910.
	Forbesganj	127	13	102	9th August 1912.
	Total	837	81	520	

STATEMENT No. VII—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1923-24—contd.

District.	Towns.	Number of births during the year ending 31st March 1924.	Number of deaths amongst infants under one year during the year ending 31st March 1924.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1924.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Santal Parganas ...	Sahibganj ...	522	82	238	1st May 1884.
	Deoghar ...	279	42	71	Ditto.
	Madhupur ...	216	54	76	22nd August 1910.
	Dumka ...	197	45	160	Notifications, dated the 9th April 1884, and 23rd August 1910.
	Total ...	1,214	223	545	
	Total of Bhagalpur Division.	6,809	1,190	2,886	
Cuttack ...	Cuttack ...	393	180	199	1st September 1884.
	Kendrapara ...	328	109	38	7th February 1888.
	Jajpur ...	294	73	73	Ditto.
	Total ...	1,618	362	310	
Balasore ...	Balasore ...	330	76	155	7th February 1888.
Puri ...	Puri ...	714	275	273	Ditto.
Sambalpur ...	Sambalpur ...	352	73	182	7th March 1895.
	Total of Orissa Division.	3,014	786	920	
Hazaribagh ...	Hazaribagh ...	475	42	187	1st January 1885.
	Chatra ...	324	7	141	1st August 1895.
	Giridih ...	547	42	152	8th September 1910.
	Total ...	1,346	91	480	
Ranchi ...	Ranchi ...	1,295	114	1,167	1st April 1887.
	Lohardaga ...	207	24	113	25th June 1892.
	Total ...	1,502	138	1,280	

STATEMENT NO. VII—Showing the protection afforded to infants in each town in the Province of Bihar and Orissa during the year 1923-24—concl'd.

District.	Towns.	Number of births during the year ending 31st March 1924.	Number of deaths amongst infants under one year during the year ending 31st March 1924.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1924.	Date of extension of Vaccination Act to town.
1	2	3	4	5	6
Palamau	Daltonganj ...	231	49	118	9th October 1890.
Manbhum	Purulia ...	496	63	220	1st January 1887.
	Raghunathpur ...	163	22	51	9th February 1894.
	Jhalda ...	196	13	81	9th July 1892.
	Dhanbad ...	220	25	8	5th December 1918.
	Total ...	1,075	123	310	
Singhbhum	Chaibassa ...	260	38	120	20th June 1892.
	Chakradharpur ...	106	11	122	13th January 1919.
	Total ...	366	49	242	
	Total of Chota Nagpur Division.	4,520	450	2,430	
Total for the Province		36,766	6,374	15,278	

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	...	...	...	...	...	62,514	61,430	887	197	98.26	...	...
Gaya	...	...	...	...	...	50,923	50,763	122	38	99.68	...	...
Shahabad	...	...	...	...	...	59,779	59,645	113	21	99.77	...	...
Saran	...	...	...	...	...	73,351	72,146	803	402	98.35	...	...
Champaran	...	...	...	...	...	44,230	44,068	114	48	99.63	...	...
Muzaffarpur	...	...	...	...	...	92,124	91,707	386	31	99.54	...	...
Darbhanga	...	...	...	...	...	92,905	92,775	123	7	99.86	...	...
Monghyr	...	...	...	...	...	70,826	70,793	29	4	99.95	...	...
Bhagalpur	...	...	...	...	...	62,975	62,865	48	62	99.82	...	...
Purnea	...	...	...	...	...	33,083	34,886	168	29	99.43	...	...
Santal Parganas	...	...	...	...	...	54,583	54,383	129	121	99.54	...	...
Cuttack	...	...	...	...	...	44,226	44,190	25	101	99.71	...	...
Balasore	...	...	...	...	...	28,410	27,957	300	153	98.40	...	...
Angul	...	...	...	...	...	6,335	6,133	145	57	98.81	...	...
Furi	...	...	...	...	...	35,882	35,184	184	514	98.05	...	...
Sambalpur	...	...	...	...	...	23,815	23,683	36	96	99.44	...	...
Hazaribagh	...	...	...	...	...	34,964	34,900	61	3	99.81	...	...
Banchi	...	...	...	...	...	44,168	44,161	3	4	99.98	...	...
Palaman	...	...	...	...	...	16,451	16,399	18	133	99.08	...	...
Manbhum	...	...	...	...	...	53,010	51,229	1,248	533	96.64	...	...
Singbhum	...	...	...	...	...	15,096	15,036	54	6	99.60	...	...
TOTAL	...	...	...	...	...	10,01,650	9,94,094	4,996	2,560	99.24	...	...

II.

used and their rates of success during the year 1923-24.

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
...	...	...	...	...	...	...	...	453	165	379	9	29.83	...	...	...	...	...
...	...	...	...	...	...	...	...	819	374	345	100	45.66	...	...	...	...	...
...	...	...	...	...	...	...	...	20	16	4	...	80.00	...	...	...	...	...
...	...	...	...	...	...	...	...	615	303	193	119	49.26	...	...	...	...	...
...	...	...	...	...	...	...	...	1,655	1,035	349	271	62.53	...	...	...	...	...
...	...	...	...	...	...	...	...	765	360	274	111	49.67	...	...	...	...	...
...	...	...	...	...	...	...	...	1,241	876	361	4	70.58	...	...	...	...	...
...	...	...	...	...	...	...	...	122	35	82	5	28.68	...	...	...	...	...
...	...	...	...	...	...	...	...	4,991	2,499	1,983	409	52.07	...	...	...	...	...
...	...	...	...	...	...	...	...	943	332	468	143	35.20	...	...	...	...	...
...	...	...	...	...	...	...	...	3,271	1,723	1,047	501	52.67	...	...	...	...	...
...	...	...	...	...	...	...	...	4,084	1,941	1,679	464	47.52	...	...	...	...	...
...	...	...	...	...	...	...	...	4,782	2,238	1,365	1,179	46.80	...	...	...	...	...
...	...	...	...	...	...	...	...	409	26	8	375	6.35	...	...	...	...	...
...	...	...	...	...	...	...	...	2,458	1,395	771	392	52.68	...	...	...	...	...
...	...	...	...	...	...	...	...	133	74	38	21	55.63	...	...	...	...	...
...	...	...	...	...	...	...	...	1,273	884	312	77	69.44	...	...	...	...	...
...	...	...	...	...	...	...	...	1,494	651	193	650	43.57	...	...	...	...	...
...	...	...	...	...	...	...	...	1,191	166	100	925	13.93	...	...	...	...	...
...	...	...	...	...	...	...	...	9,014	6,802	1,460	752	75.46	...	...	...	...	...
...	...	...	...	...	...	...	...	1,781	1,022	700	59	57.38	...	...	...	...	...
...	...	...	...	...	...	...	...	41,614	22,937	12,111	6,566	55.11	...	...	...	...	...



