13th triennial report of vaccination in Bengal.

Contributors

Bengal (India)

Publication/Creation

Calcutta: Bengal Secretariat Book Dept., [1926]

Persistent URL

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Thirteenth Triennial Report on Vaccination in Bengal

For the Years 1923-24, 1924-25 and 1925-26

by

Dr. C. A. BENTLEY, M.B., D.P.H., D.T.M. & H., K.H.G., F.S.S.,
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Price-Indian Re. 1-6 : English, 2s. 3d.









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Published by the Bengal Secretariat Book Depot, Writers' Buildings, Calcutta.

Agents in India.

Messrs. S. K. Lahiri & Co., Printers and Booksellers, College Street, Calcutta.

Messrs. Thacker, Spink & Co., Calcutta

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BENGAL PUBLIC HEALTH DEPARTMENT.

No. 770 V.

From

Dr. C. A. BENTLEY, M.B., D.P.H., D.T.M. & H.,

Director of Public Health, Bengal.

To

THE SECRETARY TO THE GOVERNMENT OF BENGAL.

LOCAL SELF-GOVERNMENT DEPARTMENT.

Calcutta, the 12th January, 1927.

SIR.

I have the honour to submit, for the information of the Government of Bengal, the Provincial Report on Vaccination for the triennium 1923-24 to 1925-26 including the Statistical Vaccination Returns for the year 1925-26, by Dr. Sufi, the Assistant Director of Public Health in charge of the Vaccination Bureau. The smallpox situation has been sufficiently reviewed in the appropriate section of the Bengal Public Health Report for the year 1925 and further general comment is unnecessary here.

I have the honour to be, SIR, Your most obedient servant,

CHAS. A. BENTLEY, Director of Public Health, Bengal. Digitized by the Internet Archive in 2019 with funding from Wellcome Library

Thirteenth Triennial Report on Vaccination in Bengal for the years 1923-24, 1924-25 and 1925-26.

- 1. I have the honour to submit the following Report on Vaccination in Bengal for the triennial period from 1923-24 to 1925-26.
- 2. Dr. G. L. Batra, Assistant Director of Public Health, was in charge of the Vaccination and Vital Statistics Bureau till the 3rd of May 1923, when he was succeeded by Dr. B. B. Brahmachari, Assistant Director of Public Health, Presidency Circle. I returned from leave on the 9th May 1924 and since then have been in charge of the bureau.
- 3. Strength of Staff .- In Calcutta, the average number of inspecting officers and vaccinators employed during this triennial period was 16 and 55 respectively against 14 and 48 during the previous triennium. In mufassal municipalities, dispensaries, etc., this average was 5 and 147, and in rural areas 129 and 1,495 against 7 and 170, and 133 and 1,639 employed during the previous triennium. Besides, an additional staff of vaccinators was employed both in Calcutta and in the rural areas to cope with the quinquennial epidemic. The incorporation of the Cossipur-Chitpur, Mainktala and Garden Reach muniwith the Calcutta cipalities poration accounted for the decrease of the staff in the mufassal municipalities, while the introduction of free vaccination system and consequent appointment of paid vaccinators by the District Boards in place of licensed ones was the cause of falling off in the number of vaccinators employed in the rural areas.
- 4. General Operations.—The total number of operations reported to have been performed in the province during the year 1925-26 was 3,030,178 on 3,028,136 persons against 2,662,966 on 2,661,062 during the preceding year, showing an increase of 367,212 or 13.8 per cent. operations. Of these, 1,751,091 or 57.8 per cent. were primary and 1,279,087 or 42.2 per cent. revaccinations 1,655,201 1,007,765 and against 1924-25. respectively during primary operations thus increased by 5.8 per cent. and revaccinations by 26.9 per cent. during the year under review.

- The average number of operations perduring the triennium was 2,583,623 with 1,665,623 primary and 918,000 revaccinations, the corresponding figures for the previous triennial period being 2,031,422, 1,404,324 and 627,098 respectively. There was thus an increase of 552,201 operations on an average during the present triennium, made up of 261,299 primary operations and 290,902 revaccinations. Severe outbreaks of smallpox throughout the Presidency and gradual introduction of free vaccination combined with vigorous activities of the local bodies were principally instrumental in augmenting the number of operations performed during the present triennium. The average rate of success in primary and revaccinations during the triennial period was 96.1 and 53.9 against 95.9 and 62.9 respectively during the previous triennium. The average number of operations performed by each vaccinator was 1,464 in the present as compared with 1,089 during the previous triennial period.
- 5. Vaccination in Districts.-Compared with the previous year, there was an increase in the number of total operations performed in 23 and a decrease in four districts. The increase was most Mymensingh (64,771),marked in Burdwan (60,279), Noakhali (48,033), Murshidabad (41,777), Darjeeling (38,222), Rangpur (35,847), Midnapur (34,789), Faridpur (29,948), Bankura (27,450), 24-Parganas (excluding Calcutta) (22,654), Bogra (21,334), Dinajpur Tippera (16,503), Pabna (20.434),(12,678),Dacca (11,151), Chittagong (10,917), Birbhum (9,194), Jalpaiguri (7,857), Howrah (6,972) and Bakarganj (5,335), while in the remaining two districts, Rajshahi and the Chittagong Hill Tracts, it was below Decreases occurred in Khulna 5.000. (7,187), Malda (2,642), Hooghly (971) and Jessore (951). In the last two, the reduction was insignificant, while in Malda and Khulna, the stimulus provided by the presence of smallpox in an epidemic form was wanting.

So far as primary vaccination was concerned, there was an increase in 19

by Mymensingh districts, headed (58,209) and followed by Rangpur (15,470), Noakhali (11,889) Murshidabad (11,611), Jalpaiguri (8,595), Faridpur (7,213), Nadia (6,194), Bakarganj (5,330), Pabna Dinajpur (5,843),(5,201), and Burdwan (5,083); in 8 others the increase was below 5,000. Decreases were reported from Tippera (11,897), Bogra (10,328), Khulna (8,273), Birbhum (7,310), Midnapur (6,019), 24-Parganas (3,211), Rajshahi (2,573) and Malda (1,801). All these latter districts, however, as is detailed below, with the exception of Malda, returned an increase in the respective number of their revaccinations. Twentytwo districts reported an increase in revaccination operations over those of the previous year-Burdwan (55,196), Mid-(36.144),napur (40,808), Noakhali Darjeeling (35,118), Bogra (31,662), Murshidabad (30,026), Tippera (28,400), Bankura (23,422), Faridpur (22,835), Rangpur (20,377), 24-Parganas (19,443), Nadia (17,344), Dinajpur (15,104), Pabna (10,035), Dacca (9,711), Chittagong (9,518), Mymensingh (6,562) and Birbhum (6,504). Rajshahi, Howrah, Khulna and Chittagong Hill Tracts recorded increases below 5,000. In five districts there was a decrease in revaccinations—Jessore (2,635), Hooghly (1,590), Malda (841), Jalpaiguri (738) and Bakarganj (518).

The substitution of free vaccination by house to house visitation in most of the districts in place of the old licensed system, the increased activities of the local bodies through their District Health Officers and the vaccination staff, coupled with the financial help by way of the Government contribution of Rs. 25,000 found the District Boards ready to meet the quinquennial onslaught by the anticipated smallpox epidemic, which in consequence exacted a smaller toll of lives in the present than in the previous quinquennium. The gradual increase in the number of vaccinations performed taken as a fair index rousing of the sanitary can be of the conscience of the people, who at present are not so apathetic as they were in former times towards availing themselves of the help offered to them free by those in whose hands their sanitary welfare rests, though they still lack generally the moral courage required to overcome the feeling of slight inconvenience temporarily caused by the performance of vaccination on their children

and themselves; and if at this stage, the District Boards and other local bodies could possibly maintain a sufficient staff of qualified vaccinators and supervisers who would actually follow the proper technique of performing the operation of vaccination and thus with the help and active co-operation of the general public, the Union Boards, the village panchayats, dafadars and chaukidars wherever necessary bring about a state of affairs, in which no one remains unprotected. then there is no reason why smallpox epidemics should not be things of the past. Strict legal enforcement, in cases where persuasion has failed, of the Vaccination Acts which have been extended now practically to the whole of Bengal, maintenance of lists of unprotected persons by the Superintendents of Vaccination with the help of the vaccinators, and prompt and early notification of the first cases of smallpox encouraged by a system of reward are sure to prove important factors in achieving this aim.

6. Vaccination in Municipalities.—In Calcutta, 149,322 operations including 25,607 primary and 123,715 revaccinations were performed during the year 1925-26 against 293,326 operations with 34,875 primary and 258,451 revaccinations in the previous year, showing decreases in the year under review of 144,004, 9,268 and 134,736 in the total, primary and revaccinations respectively. The decrease is due to the fact that a very large number of vaccinations was performed in Calcutta during the previous year in anticipation of the quinquennial The average of the present epidemic. triennial period was 159,578 operations with 25,331 primary and 134,242 revaccinations against 55,737 with 16,341 primary and 39,396 revaccinateduring the previous triennium. revaccinations total number of operations performed in mufassal municipalities during 1925-26 was 167,238, of which 66,276 were primary and 100,962 revaccinations, against a total of 148,111 including 67,629 primary and 80,482 revaccinations in the preceding year, showing an increase of 19,127 operations in the present epoch. The average number of operations performed during the triennium was 135,695, with 65,858 primary 69,837 revaccinations 96,561, 58,899 and 37,662 respectively during the previous one. The increase in the present triennium was thus 39, 134 in the total including 6,959 primary and 32,175 revaccinations.

7. Vaccination performed by other agencies.—The following statement shows the number of operations performed by other agencies:—

	Primary vaccination.	Revacci- nation.	Total.
1925-26.			
Tea gardens	 9,194	15,368	24,562
Factories	 8,769	17,154	25,923
Railways	 1,761	10,133	11,894
Steamers	 	5,935	5,935
Dispensaries	 		
Jails	 32	30,812	30,844
Total	 19,756	79,402	99,158
1924-25.			
Tea gardens	 5,122	3,505	8,627
Factories	 3,454	15,077	18,531
Railways	 2,374	23,681	26,055
Steamers	 	12,045	12,045
Dispensaries	 912	783	1,695
Jails	 2,093	26,759	28,852
Total	 13,955	81,850	95,805

It will appear from the above statement that vaccination in the tea gardens has greatly improved during the year. The Jaipaiguri tea gardens reported 7,510 operations in 1925-26 as compared with 120 during the previous year; though I am afraid, reports from all the tea gardens in that district were not furnished to the District Health Officer, as will be apparent from the comparison of the above figures with 17.052 vaccinations reported from the Darjeeling tea gardens, I take this opportunity of once again drawing the attention of the Duars Planters' Association to have this defect remedied. The number of operations performed in factories was 25,923 during the year under review against 18,531 in the previous year, showing an increase of 7,392 operations. The number of vaccinations performed within the railway limits decreased from 26,055 and 24,109 during the two preceding years to 11,894 in 1925-26 and so also that done within the jurisdiction of the Port of Calcutta. The jails, however, reported an increase of 1,992 operations in the year under review over those of the previous year.

8. Protection afforded to Infants.—During 1925-26, out of 1,162,322, the estimated number of infants available for vaccination in the province, 313,286 or 269-5 per mille were successfully vaccinated as compared with 306,344 or 275-4 per mille during the preceding year. This ratio was 253-3 per mille in the rural areas, 960:7 in Calcutta, and 482-4 in

mufassal municipalities in 1925-26 against 253·3, 1,442·7 and 503·0 per mille respectively in 1924-25. The mufassal municipalities thus showed an increase of 90:4 per cent. in the degree of protection afforded to infants over that obtained in the rural areas. In four districts-Malda, Rajshahi, Darjeeling and Jalpaiguri, the rate of protection was over 500 per mille; in five others, it was between 300 and 400 per mille; in nine between 200 and 300 per mille, in six between 100 and 200 per mille, while in the remaining three districts, viz., Faridpur, Bogra and Bakarganj, it was 96:7, 82.3 and 27.8 per mille, respectively.

- 9. Recess Vaccination.—Three hundred sixty-five thousand three hundred and four vaccinations were performed during the recess season of 1925-26 against 199,228 and 188,065 during the two preceding years, showing an increase of 83 4 per cent. and 94 2 per cent. over the previous two periods respectively. This increase was chiefly due to the presence of smallpox in the province. The average number of recess operations performed during the triennial period under review was 250,866 against 358,787 during the previous triennium.
- 10. Six-Puncture Vaccination.—The 6-point vaccination is very unpopular with the parents and guardians and its number is gradually declining year by year. From 132,507 and 146,521 successful operations during the two preceding years, respectively, their number decreased to 115,902 during the year under review. The average of the triennial period was 131,643 against 182,297 during the previous epoch.
- 11. Cost and Contribution towards Vaccination.—The total cost of vaccination during the year 1925-26 was Rs. 4,52,901-13-4, of which Rs. 2,16,868-1-4 contributed from provincial revenues, Rs. 1,64,908-14-9 from local funds, and Rs. 71,124-13-3 by municipalities, against Rs. 4,62,748-12-0, Rs. 2,15,784-1-1, Rs. 1,54,140-1-6, and Rs. 92,824-9-6, respectively in 1924-25. The local Government, contributed a sum of Rs. 25,000 during the year to the District Boards for the promotion of free vaccination. The average cost of each successful case of vaccination was 3 annas and 2 pies in the year under review, as compared with 3 annas and 6 pies during the previous year. The average cost of vaccination during the present triennium was Rs. 4,47,795-0-10 against

DIAGRAM ILLUSTRATING DEATH-RATES FROM SMALLPOX AND DECREE
OF PROTECTION AFFORDED DURING 1916-17 TO 1925-26.

deaths llpox per population		Bu iv					P	re	si vi	de	on	y		R	aj	sh	ah	i n	1			Da iv						of 10,000.
Ratio of dea from smallpo 10000 of pop	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howrah	24-Parganas	Calcutta	Nadia	Murshidabad	Jessore	Khulna	Rajshahi	Dinajpur	Jalpaiguri	Darjeeling	Rangpur	Bogra.	Pabna	Malda	Dacca	Mymensingh	Faridpur	Bakarganj	Chittagong	Noakhali	Tippera	on
- 70-									7.77	200						N. Control of the Con												7000-
- 60-																			100				1				100 100 100 100 100 100 100 100 100 100	-6000
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mall pox deaths	4775	3113	4333	4078	3383	3323	3976		3578	3432	3203	3981	4693	4354	3734	7425	3417	2924	3389	4410	3442	4342		3990	3855	3992	14471	Successful
Smal	3.9	2.4	1.5	2.8	3.8	8.1	5.	11.09	25	8.8	1.1	À,	1.9	3.8	5.3	1.5	5.1	5.1	5.3	2.4	3.3	2.5	1.4	4.	2.2	1.7	25	Succ

Indicate the death ra tes from smallpox.

Indicate the proportion of population protected by vaccination.

Rs. 359,906-9-6 in the previous one and the cost of each successful case 3 annas and 6 pies and 3 annas and 4 pies during the two triennial periods, respectively. The increased average cost per case during the present triennium was due to the introduction of paid vaccination in all the districts of the province.

- 12. Diagram illustrating Death-rates from Smallpox and the degree of Protection afforded since the year 1916-17.—
 The diagram facing this page shows side by side the death-rates from smallpox in each district and the proportion of the population protected against the disease by vaccination during the last 10 years.
- 13. Deaths from Smallpox.-The quinquennial outbreak of smallpox, which started in December 1924, continued throughout the year under review. During 1925-26, it claimed 18,618 victims from this Presidency against 10,443 in the previous year. The death roll was heavier on account of its prevalence in a very severe form during the months of April and May 1925. The present quinquennial epidemic differed from the previous one both in its intensity and magnitude, being responsible for only 29,061 deaths against 63,150 of the previous one. It was mostly confined to Calcutta and its neighbouring districts at least in its early stages, while during the previous quinquennium it extended all over the Presidency. The largest number of deaths (4,023, including 1,901 in Calcutta) was recorded in the 24-Parganas, followed by Howrah (1,997), Midnapur (1,576), Burdwan (1,452), Hooghly (1,025), Murshidabad (948), Birbhum (849), Dacca (760), Pabna (679), Mymensingh (643), Rangpur (603), Bankura (597), Bogra (586), Chittagong (507), Dinajpur (373), Jessore (358), Noakhali (354), Nadia (304), Tippera (285), Faridpur (245) and Malda (192), while in the remaining districts it was below 100. Five deaths occurred in the town of Darjeeling and 14 cases in the jurisdiction of Phulbazar thana of that district. In the town, the first case was imported from the Punjab, two others from Calcutta and the fourth from Gaya. In the Phulbazar thana, the first case occurred in a person recently arrived from Calcutta. Constant influx of people from Bhutan, Sikkim and Tibet into that district was also responsible for the spread of the disease. In other districts, it was mostly the affected persons from Calcutta and Howrah that started the

outbreak. Timely intensive campaigns of vaccination and revaccination, however, cut short the spread of the epidemic to outlying areas. The various Railway and Steamer Companies also co-operated with the local bodies.

14. Different Methods of Vaccination.—The following table shows the number of primary vaccinations and revaccinations performed with lanolinated and glycerinated lymph and the percentage of success in each case:—

V	Primary v	accination.	Revaccia	nation.
Year 1925 26,	Number.	Percent- age of success.	Number.	Percent- age of success.
Lanoline lymph	 2,416	95-3	3,375	51.2
Glycerine lymph	 1,748,675	96.2	1,275,712	55-5
1924-25,				
Lanoline lymph	 849	93-1	383	92-9
Glycerine lymph	 1.654.352	96-3	1.007.482	49-6

Lanoline lymph was used only in Murshidabad and Mymensingh districts in very small quantities, and was discontinued by municipalities in Midnapur and Hooghly districts, which were its sole consumers in past years. The figure representing the percentage of success in revaccination cases with lanoline lymph in the previous year was found to be incorrect on a local investigation by a Special Inspector of Vaccination. There is a great demand for glycerine lymph on the whole and the day of the lanoline paste seems to have gone.

15. Inspections.—The Director of the Dacca and Rajshahi Circles inspected 1,559 operations. of which 1,399 cases were found to be The Assistant Director of successful. the Burdwan Circle inspected 672 children in several municipalities of his Circle and found 135 of them successful and 68 unprotected. District Health Officers and the Civil Surgeons of Darjeeling and the Chittagong Hill Tracts inspected 3.04 per cent. primary and 2.05 per cent. revaccinations, while 41.2 per cent. primary and 22.6 revaccinations were inspected by Assistant Superintendents of Vaccination and 2;1 per cent. primary and 5.03 per cent. revaccinations by the Municipal Superintendents of Vaccination and Municipal Sanitary Inspectors. Of the total number inspected, 97.8 per cent. primary and 22.2 per cent. revaccinations were found to have been successful by the District Health Officers and the two Civil Surgeons noted above, 98.1 per cent primary and 60.2 per cent. revaccinations by

the Assistant Superintendents of Vaccination and 87.8 per cent. primary and 34;5 per cent. revaccinations by the Municipal Inspecting Officers. The highest percentage of primary cases (14·32) was inspected by the district Health Officer of Chittagong and that of revaccinations (6.44) by the Hooghly District Health Officer. The District Health Officer of the 24-parganas could only inspect '07 per cent. primary and ·02 per cent. revaccinations. Inspection by Municipal Supervisors was worst in Burdwan, where only 7.51 per cent. of primary and 1.65 per cent. of revaccina-In the rural tions were inspected. areas, the highest percentage of primary cases (155.2) was inspected by the Assistant Superintendents of Vaccination, Howrah and that of revaccinations (128.8) by those of the Chittagong Hill Tracts. In this connection, it may be noted that the results of vaccination operations as reported in the returns are extremely unreliable and unless a vigilant care is exercised by the superior supervising authorities, there is no hope of any accuracy in such information. A branch vaccination centre has recently been opened at the Bengal Vaccine Depôt, and as soon as sufficient data are available, a fair index of the correctness or otherwise of the results of operations performed in the mufassal will be at the disposal of the Bengal Public Health Department:

Bengal Vaccine Depôt.-The total number of calves vaccinated in the Bengal Vaccine Depôt during 1925-26 was 2,654, against 2,440 and 2,272 during the two preceding years and the quantity of manufactured was 2,470,607 1,975,780 against grains and 1,694,180 grains in the two previous years. The average of the triennial period was, therefore, 2,455 calves and 2,046,856 grains of lymph, against 2,498 calves and 1,210,711 grains of lymph during the previous triennium. The total output during the year, including 21,471 grains left over from the previous year, amounted to 2,492,078 grains; of which 2,477,815 grains were issued to the various local bodies against 2,029,178 grains and 1,764,339 grains during the two preceding years and a balance of 14,263 grains left in hand at the close of the season. Of the total issue during the year, 2,464,108 grains were glycerinated and 13,707 grains lanolinated lymph. The average yield of pulp per calf was 204 29 grains against 182 14 grains of the preceding year. Owing to the heavy demand from the local bodies on account of the prevalence of the smallpox epidemic, chloroformation of lymph was resorted to as a routine procedure.

17. General Remarks.—(a) During the year under review, the post of one of the Special Inspectors of Vaccination having fallen vacant due to the resignation of its temporary incumbent, the department was able to secure the services of a medical graduate possessing the Diploma in Public Health and with special training in and practical experience of bacteriological work. I am so much impressed with the activities, in connection with the vaccination affairs of several local bodies during the last quinquennial epidemic of smallpox, of these Special Inspectors, of which the department employs only two at present, that I venture to advert again this year to the proposal embodied in my last year's report, viz., the appointment of one such With the officer for every division. transfer of the vaccination staff to the District Boards, which has been sanctioned by the local Government to take effect from the 1st March 1927, the chief duty of the vaccination bureau will lie in the direction of a close scrutiny of the working of the Vaccination Act, the Births and Deaths Registration Act and other allied Acts in the areas to which they have been extended, the object being to ensure as far as possible the protection of the majority against smallpox in primary cases if not in revaccination, which is still voluntary. It is extremely regrettable that only about 270 cases per mille of the estimated available infants were successfully vaccinated during the last year, the remaining 730 per mille being either unsuccessfully vaccinated or not vaccinated at all. And this has been going on year after year, chiefly due to the laxity in the enforcement of the provisions of the Acts which make infant vaccination compulsory. To accomplish the object mentioned above, it seems necessary that the bureau should have at least five specially qualified officers at its disposal, and thus be in a position to strengthen the first line of defence against the onslaught caused on the lives of the people of Bengal by the periodical recurrence of smallpox epidemics.

(b) Vaccination of contacts, so imperatively essential during an epidemic of smallpox and revaccination equally important on all occasions have been sadly neglected, and the inability of the

law to help the local sanitary authorities in undertaking these defensive measures has been keenly felt by some of the more vigilant District Health Officers, who have on frequent occasions brought this matter to the notice of the Public Health Department. Revaccination is voluntary and so far as vaccination of contacts is concerned, if the latter happen to be under the age of six months in Western Bengal or under one year in Eastern Bengal, no legal steps can be taken to enforce vaccination until they are past that age. Steps are being taken by the Public Health Department to enlist the co-operation of the various local bodies in the province in this matter and it is intended to take further action when a consensus of favourable opinion has been secured.

(c) The licensed system of vaccination has been sufficiently proved by the experience of the various local bodies to stand as an impediment in the path of the onward progress of vaccination

among people, who, however genuinely anxious to take it otherwise, are unwilling to pay for it; and yet it is a deplorable fact that a couple of District Boards reverted to that system for some months at least during the course of the year under review. It will be to their own interest and the interest of the people living in their jurisdiction if they could see their way in future to make vaccination entirely free. It is only in this way that they can hope to keep their doors closed for good against smallpox.

M. E. SUFI,
L.R.C.P. & S., D.P.H.,
Assistant Director of
Public Health,
Vaccination and Vital
Statistics.

Calcutta, The 20th December 1926.

Statistical Return

STATEMENT

Particulars of vaccination

		Rural areas	per square	f vaccinat- throughout	Total numb	er of persons	vaccinated.	of persons each vacci-	Primary
Number.	District.	Population of the Rural of of the districts according to Census of 1921.	Average population mile.	Average number of tors employed the year.	Male.	Female.	Total	Average number vaccinated by nator.	Total.
1	2	3	4	5	6	7	8	9	10
1 2 3 4 5 6 7	Burduan Division. Burdwan Paid Asansol Mining Settlement Birbhum Paid Bankura Licensed Midnapur Paid Hooghly Paid Howrah Paid Paid Howrah Paid	} 1,343,485 8,38,655 9,64,487 2,556,071 900,802 778,893	500 479 { 369 516 780 1,502	34 14 21 45 58 94 43 30	52,617 27,967 10,336 31,432 104,038 21,103	28,495 31,953 20,671 8,500 25,334 66,551 13,882 15,875	71,454 84,570 48,638 18,836 56,776 170,589 34,985 50,197	2,101 6,041 2,316 419 979 1,895 777 1,673	44,888 18,775 31,052 7,081 29,529 89,391 22,360 27,316
	Total Paid			279		185,927	479,269	1,717	240,863
	[Licensed Total	7,421,093	540	333		25,344	56,776	1,591	29,529
8 9 10 11 12	Presidency Division. 24-Parganas Paid Nadia Paid Murshidabad Paid Jessore Paid Khulna Paid	1,998,318 1,390,704 1,182,983 1,700,924 1,421,116	527 507 566 587 301	125 56 58 84	69,737 45,229 47,746 45,235	47,074 33,117 35,049 33,021 32,902	116,811 78,346 82,795 78,256 70,349	934 1,556 1,562 909 1,599	78,471 38,571 53,164 50,157 50,796
	Total Paid	7,694,045	492	358	245,394	181,163	426,557	1,191	271,159
13 14 15 16 17 18 19 20	Rajshahi Division. Rajshahi Paid Dinajpur Paid Jalpaiguri Paid Darjeeling Paid Rangpur Paid Bogra Paid Pabana Paid Malda Paid	1,457,037 1,687,328 921,740 254,045 2,488,778 1,032,300 1,344,633 955,830	557 428 314 215 713 751 809 523	66 77 39 11 50 22 44 20	58,875 30,547 14,523 59,267 39,532 34,739	31,483 39,617 14,996 15,011 34,392 20,150 25,247 25,669	76,689 98,492 45,543 29,534 93,659 59,682 59,986 58,597	1,278 1,387 1,578 1,846 1,801 2,984 1,499 2,253	45,616 77,727 25,697 11,688 63,571 19,136 45,699 36,354
	Total Paid	10,141,700	534	31	315,617	206,565	522,182	1,956	325,488
21 22 23 24	Dacca Division. Dacca . Paid Mymensingh . Paid Faridpur . Paid Bakarganj . Paid	2,975,915 4,710,669 2,202,783 2,563,849	1,097 759 934 734	7 20 4 4	226,706 49,813	68,116 144,203 36,065 44,069	156,053 370,909 85,878 101,697	2,198 1,800 2,094 2,259	113,028 256,012 49,664 96,362
	Total Paid	12,453,216	845	36	422,084	292,453	714,537	1,968	515,065
25 26 27 28	Chittogong Division. Chittagong . Paid Noakhali . Paid Tippera . Paid Chittagong Hill Tracts Paid	1,570,760 1,465,071 2,678,627 173,243	630 968 1,051 34	5 4 7 1	80,617 88,687 6,603	46,839 46,836 67,117 5,763	117,791 127,453 155,804 12,366	2,309 2,655 2,157 1,124	62,667 75,271 110,735 8,675
	Total Paid	5,887,701	503	18	246,859	166,555	413,414	2,271	257,348
	Total of the Bengal { Paid Presidency. Paid Licensed	43,597,755	578	1,49	31,432	1,032,663 25,344 1,058,007	25,55,959 56,776 2,612,735	1,708 979 1,680	1,609,923 29,529
-	Total	1		1,55	1,004,728	1,008,007		Figures for C	1,639,452

N.B,-Figures for Calcutta have

Sum

	Total numbe vaccin	er of persons nated.		per of opera- rformed.
	Primary.	Re-vaccina- tion.	Primary.	Re-vaccina-
1.—By staff. Under District Boards, Municipalities, Provincial Government, Calcutta Corporation and Asansoi Mines Board of Health. 2.—By other agencies.	1,729,564	1,199,414	1,731,335	1,199,685
(Jails, Cantonments, Dispensaries, Railways, Steamers Tea- gardens and Factories.)	19,756	79,402	19,756	79,402
Total	1,749,820	1,278,816	1,751,091	1,279,087

No. 1.

Performed in the districts of Bengal during the years 1925-26.

cination.				Re-v	accination		Percent successfuln which were kn	results	y vaccinated	Percei of unk cases total c	nown	Average as number of p successfu vaccinated the previo- five year	ersons ally during	Average numbe deaths small- during to vious five	r of from pox he pr
8	uccessful.							·e	popula		Ju.		Jo 00		Jo 000
Under one year.	One year and under six years.	Total of all ages.	Unknown.	Total.	Successful	Unknown.	Primary.	Re-vaccinati	Persons successfully vaccinated per 1,000 of population.	Primary.	Re-vaccinatio	Number.	Ratio per 1,000 population.	Number.	Ratio per 1,000 population.
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5,597	26,420	43,579	239	26,566	8,045	464	97 -1	30 -3	90 -4	-53	1.7	70,117	52-4	318	*
7,395 5,192 1,680 6,454 11,394 4,908 6,199	10,842 17,663 4,958 9,842 55,326 15,754 18,195	18,773 30,546 7,072 28,827 87,598 22,305 26,989	160 4 5 1,157 17 120	65,795 17,586 11,755 27,247 81,198 12,625 22,881	51,012 10,537 5,941 15,468 50,234 10,675 8,491	2,183 1,205 89 303 7,447 233 5,542	99-9 98-3 99-9 97-6 98- 99-7 98-8	77.5 59.9 50.5 56.7 61.8 84.5 37.1	49·0 13·5 53·1 36·6 45·5	-51 -05 -02 1-29 -07 -44	3·3 6·8 ·76 1·1 9·2 1·8 24·2	24,773 43,926 109,906 28,634 25,432	29 · 5 45 · 5 42 · 3 31 · 8 32 · 6	130 90 638 226 304	AAA SAA
42,365	149,158	236,862	1,697	238,406	144,935	17,163	98 -3	60-8		-70	7-2]			
6,454	9,842	28,827 265,689	1,702	27,247	15,468	303	97 -6	56·8 60·4	57 -4	-02	6-6	302,788	40-8	1,706	
7,946 16,131 18,469 9,385 13,077	56,566 19,281 31,202 36,569 30,410	77,407 36,760 51,830 49,696 50,583	411 1,113 266 176 45	38,340 39,775 29,631 28,099 19,690	25,994 28,472 19,799 15,850 11,479	2,729 5,432 1,868 2,436 1,358	98-6 95-3 97-5 99-1 99-6	67-8 71-6 66-8 56-4 58-3	51 · 7 46 · 9 52 · 1 38 · 5 43 · 6	-52 2-88 -50 -35 -09	7·1 13·6 6·3 8·7 6·9	72,027 49,421 38,880 62,476 59,189	36-04 35-5 32-9 36-7 41-6	668 167 378 198 40	
65,008	174,028	266,276	2,011	155,535	101,594	13,823	98-2	65 · 3	47-8	-74	8.9	281,992	36 -6	1,451	
29,169 19,209 13,623 5,107 11,508 1,947 6,666 24,116	15,612 43,380 9,077 4,416 44,226 11,044 33,652 10,986	45,271 72,079 24,520 11,175 60,762 17,215 44,680 35,412	143 1,293 10 511 1,651 1,399 367 429	31,073 20,765 20,976 17,953 30,088 40,546 14,287 22,245	25,439 16,697 7,419 5,299 20,224 16,854 8,360 15,261	975 1,313 1,069 3,641 2,573 12,498 951 1,996	99 · 2 92 · 7 95 · 4 95 · 6 95 · 6 89 · 9 97 · 8	81 · 9 80 · 4 35 · 3 29 · 5 67 · 2 41 · 6 58 · 5 68 · 6	48 -5 52 -6 34 -6 64 -8 32 -5 33 -0 39 -4 53 -0	31 1 ·66 ·04 4 ·37 2 ·6 7 ·3 ·80 1 ·18	3·1 6·3 5·1 20·3 8·5 30·8 6·6 9·0	67,559 76,478 29,860 13,680 60,953 29,225 37,576 46,205	46 ·4 45 ·3 32 ·4 53 ·8 24 ·5 28 ·3 27 ·9 48 ·3	268 435 601 6 303 375 90 189	
111,345	172,393	311,064	5,803	197,931	115,553	25,016	95-6	58 -4	42 .07	1.78	12 -6	361,536	35 -6	2,267	
8,477 10,176 5,071 1,712	83,831 162,326 34,183 51,201	108,412 243,900 48,583 92,515	2,649 4,043 778 1,410	43,063 114,897 36,278 5,336	25,856 86,923 22,075 3,174	4,480 6,808 4,300 165	95 -9 75 -3 97 -8 96 -	60 -0 75 -6 60 -8 59 -5	45 ·1 70 ·2 32 ·1 37 ·3	2·34 1·58 1·56 1·46	10 ·4 5 ·9 11 ·8 3 ·1	99,297 218,810 59,313 79,701	33 · 4 46 · 4 26 · 9 31 · 1	1,063 1,134 247 87	
25,436	331,541	493,410	8,880	199,574	138,028	15,753	95 -8	69 -2	50 -7	1 .72	7.9	457,121	36 -7	2,531	
5,882 11,015 13,528 1,143	47,876 46,263 85,428 5,799	59,633 67,905 107,933 8,639	1,832 3,645 1,244 32	55,132 52,217 45,275 3,691	26,755 20,192 33,311 1,451	9,836 10,352 2,751 162	95 ·1 90 ·2 97 ·4 99 ·6	48 -5 38 -6 73 -6 39 -3	55 · 60 ·1 52 ·7 58 ·2	2-92 4-84 1-12 -37	17 ·8 19 ·9 6 ·07 4 ·4	68,019 56,505 138,984 7,980	43 · 3 38 · 6 51 · 9 46 · 1	537 151 321	
31,568	185,366	244,110	6,753	156,315	81,709	23,101	94-8	52 -3	55-3	2-62	14 -8	271,488	46 -1	1,009	
275,722 6,454	1,012,486 9,842	1,551,722 28,827	25,144 5	947,761 27,247	581,821 15,468	94,856 303	96.4	61 -2	83 -3	1-53	9.76	1,674,925	88 -4	8,964	
282,176	1,022,328	1,580,549	25,149	975,008	597,287	95,159)							1	

been shown in Statement No. III.

mary.

cases in v	of successful which results known.	persons va-	number of ecinated by ecinator.	Number of successful nate		Rates of successful	Total cost of	Average cost
Primary.	Re-vaccina-	Vaccina- tors employed.	Persons vaccinated by each vaccinator.	Under one year.	One year and under six years.	vaccinations per 1,000 of population.	department.	of each successful case.
96 -3	56:3	1,767	1.713	313,286	1,071,139	51-3	Rs. A. P. 4,52,901 13 4	Rs. A. P.
91 -2	42.8	No statistic	s available.	4,095	3,634)		
96-2	55.5			317,381	1,074,773	-		

STATEMENT

Cost of vaccination in the districts of

100									_					
Number.	Circles and districts.	European supervis- ing officer.	Salary.	Native supervising officer.	Pay.	Paid vaccinators.	Pay.	Licensed Vaccina-	Pay.	Clerks.	Pay.	Peons.	Pay.	Total pay of establishment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Burdsoan Division.		Rs. A.		Rs. A. P.		Rs. A. P.		Rs.		Rs. A.		Rs. A. P.	Rs. A. P.
1	Burdwan			10	2,764 9 0	48	11,297 6 0					2	309 7 0	14,371 6 0
2	Birbhum			3	1,318 13 0	21	3,345 1 4	(b)						4,663 14 4
3	Bankura			3	1,519 6 0	(a) 45	1,160 2 0	58						2,679 8 0
4	Midnapur			7	2,930 5 0	90	11,854 6 9							14,784 11 9
5	Hooghly			4	1,680 0 0	45	4,726 14 0		**		****	**		6,406 14 0
6	Howrah			3	1,754 1 0	30	4,454 0 3							6,208 1 3
	Total of the Burdwan Division.			30	11,967 2 0	279	36,837 14 4	58	••	••	****	2	309 7 0	49,114 7 4
	Presidency Division.													
7	24-Parganas			(c) 14	3,703 14 0	125	8,726 13 3							12,430 11 3
8	Bengal Vaccine Depot			8	11,081 8 0					1	633 0	2	372 0 0	12,086 8 0
9	Calcutta		****	16	13,401 0 0	58	19,848 0 0		***			28	2,653 0 0	35,902 0 0
10	Nadia			6	2,460 0 0	50	6,786 11 0							9,246 11 0
11	Murshidabad			5	2,100 0 0	53	6,511 11 0							8,611 11 0
12	Jessore			6	2,623 14 0	86	9,274 11 0	**				**	****	11,898 9 0
13	Khulna		••••	4	1,800 0 0	44	2,528 6 9				633 0	30	3,025 0 0	4,328 6 9
	Total of the Presidency Division.			59	37,170 4 0	416	53,676 5 0			1	600 0	30	3,025 0 0	94,504 9 0
	Rajshahi Division.		111111		in the l								100	1
14	Rajshahi			4	2,090 0 0	60	4,667 2 0				****			6,757 2 0
15	Dinajpur			4	1,760 0 0	71	8,718 9 0							10,478 9 0
16	Jalpaiguri			4	1,933 8 0	30	3,311 13 0							5,245 5 0
17	Darjeeling			3	1,560 0 0	16	2,664 12 0				****			4,224 12 0
18	Rangpur			5	2,400 0 0	52	8,131 0 0							10,531 0 0
19	Bogra			2 3	960 0 0	20	2,511 12 4					**		3,471 12 4 4,783 9 0
20	Pabna		****	9	1,532 7 0	26	3,251 2 0 3,554 9 6							4,544 9 6
	Total of the Rajshahi			27	13,225 15 0	315	36,810 11 10		-:-					50,036 10 10
	Division.	-			20,220 20 0		00010 11 10	-	-					
	Dacca Division.													
22	Dacea			5.	2,522 11 10	71	5,679 15 5						****	8,202 11 3
23	Mymensingh			7	3,191 5 0	206	19,939 6 0		"					23,130 11 0
24	Faridpur			5	2,200 0 0	41	3,921 4 0 5,493 11 6							6,121 4 0 7,573 11 6
20	Total of the Dacca			22	9,994 0 10	363	35,034 4 11	-:-						45,028 5 9
	Division,	-		-	1,000			-	-	-		-		
	Chittagong Division.										17			
26	Chittagong			4	1,741 10 0	51	6,031 13 11						****	7,773 7 11
27	Noakhali			4	1,800 0 0	48	4,600 5 10							6,400 5 10
28	Tippera Chittagong Hill Tracts			3	1,963 0 0	72	6,764 0 0 2,050 14 0							8,727 0 0 3,790 14 0
20	Total of the Chittagong		****	15	7,244 10 0	182	19,447 1 9					-:-		26,691 11 9
	Division. Total of the Vaccination			153	79,601 15 10	1,555	1,81,806 5 10	58		1	633 0	32	3,334 7 0	2,65,375 12 8
	Circles,				10,000 10 10	-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	-	-				
30	Establishments of the Assistant Directors of Public Health.	4	50,404 9							5	4,476 9	7	1,059 6 0	55,940 8 0
	Total of the Presidency	4	50,404 9	153	79,601 15 10	1,555	1,81,806 5 10	58		6	5,109 9	39	4,393 13 0	3,21,316 4 8
31	Municipalities			4	1,159 0 0	154	21,532 5 9					1	192 0 0	22,883 5 9
32	Railways, tea gardens													
33	and factories.					55								
	Grand Total	4	50,404 9	157	80,760 15 10	1,764	2,03,338 11 7	58		6	5,109 9	40	4,585 13 0	3,44,199 10 5
-				_		_		-						-

(a) Worked from 15th February (b) Worked from 1st November (c) Includes 4 Sanitary Inspectors

No. 11.

Bengal during the year 1925-26.

-	Cont	tingencies.		ź	eanes	-				tion ilina-	lo de
Travelling allowance.	Cost of lymph.	Other contingencies.	Total cost.	Central revenues.	Provincial reve	Local fund.	Municipalities and Railways.	Native States.	Total.	Number of s-ceess- ful vaccination and re-vaccina- tion.	Average cost of each successful
16	17	18	19	20	21	21	23	24	25	26	27
Rs. A. P.	Rs.	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.	Rs. A. P.		Rs. A. P.		A.
4,327 12 9		3,598 9 9	22,297 12 6		6,923 3 6	15,374 9 0			22,297 12 6	121,409	2 1
861 0 0		81 7 6	5,606 5 10		2,679 13 0	2,126 8 10			5,605 5 10	41,083	2
1,274 13 0	**	112 10 0	4,066 15 0		2,712 14 0	1,354 1 0			4,066 15 0	57,308	0
2,720 14 0		415 8 6	17,921 2 3		5,651 3 0	12,269 15 3			17,921 2 3	137,832	2
1,873 7 0			8,280 5 0		3,553 7 0	4,726 14 0	****		8,280 5 0	32,980	4
931 6 0		65 14 6	7,205 5 9		2,685 7 0	4,519 14 9	1		7,205 5 9	25,480	3
11,989 4 9		4,274 2 3	65,377 14 4		24,205 15 6	41,171 14 10	****		65,377 14 4	426,092	2
		I THE LOCAL COLUMN	Control of		State of the last	4 30	and make the				
2,159 9 0		857 0 0	15,447 4 3		6,863 7 0	8,583 13 3			15,447 4 3	103,401	2
	***	31,164 6 0	43,250 14 0		43,250 14 0				43,250 14 0	****	
960 0 0	1,800	8,412 0 0	47,074 0 0		****		47,074 0 0		47,074 0 0	56,042	12
2,853 5 0		33 0 0	12,133 0 0		5,313 5 0	6,819 11 0			12,133 0 0	65,232	2
2,950 7 0	4.10	232 11 0	11,794 13 0		4,665 3 0	7,129 10 0		**	11,794 13 0	71,629	2
1,855 9 0	**	468 5 0	14,222 7 0		6,270 3 0	7,952 4 0			14,222 7 0	65,546	3
1,050 14 0		38 13 0	5,418 1 9		2,851 14 0	2,566 3 9	17.074 0 0		5,418 1 9	62,062	1
11,829 12 0	1,800	41,206 3 0	1,49,340 8 0		69,214 14 0	33,051 10 0	47,074 0 0		1,49,340 8 0	423,912	5
	1 11				N. P.						
2,091 8 0	.:	768 11 0	9,617 5 0		4,307 10 0	5,309 11 0	****		9,617 5 0	70,710	2
1,550 12 0		154 3 0	12,183 8 0		3,310 12 0	8,872 12 0	****		12,183 8 0	88,776	2
1,501 15 6		74 13 0	6,822 1 6		2,448 4 0	4,373 13 6			6,822 1 6	31,939	3
3,206 13 0		89 8 0	7,521 1 0		3,450 8 0	4,070 9 0			7,521 1 0	16,474	8
2,496 4 0		198 0 0	13,225 4 0		5,763 4 0	7,462 0 0			13,225 4 0	80,986	2
770 4 0		36 12 0	4,278 12 4		2,130 4 0	2,148 8 4	****	**	4,278 12 4	34,069	. 2
990 5 0		84 0 0	5,857 14 0		2,922 12 0	2,935 2 0	****		5,857 14 0	53,040	1
677 8 0		49 2 6	5,271 4 0		2,267 8 0	3,003 12 0	****	**	5,271 4 0	50,673	1
13,285 5 6		1,455 1 6	64,777 1 10		26,600 14 0	38,176 3 10			64,777 1 10	426,667	2
	120		Lores In			- Tarafila	100				
1,715 2 5		478 12 11	10,396 10 7		5,299 13 10	5,096 12 9			10,396 10 7	134,268	1
2,340 4 0		510 1 3	25,981 0 3		5,531 9 0	20,449 7 3	****		25,981 0 3	330,823	1
1,558 9 0		21 14 6	7,701 11 6		4,658 9 0	3)043 2 6			7,701 11 6	70,658	1
1,740 6 0		15 2 0	9,329 3 6		3,669 7 0	5,659 12 6			9,329 3 6	95,689	1
7,854 5 5		1,025 14 8	53,408 9 10		19,159 6 10	34,249 3 0			53,408 9 10	631,438	1
	17										
1,475 0 0		160 0 0	9,408 7 11		2,616 10 0	6,791 13 11			9,408 7 11	86,388	1
1,430 15 0		253 1 4	8,084 6 2		3,730 15 0	4,353 7 2	****		8,084 6 2	88,097	1
1,544 6 0		226 2 0	10,497 8 0		3,382 14 0	7,114 10 0			10,497 8 0	141,244	1
1,778 10 0		34 15 0	5,604 7 0		5,604 7 0				5,604 7 0	10,090	8
6,228 15 0		674 2 4	33,594 13 1		15,334 14 0	18,259 15 1			33,594 13 1	325,819	1
50,687 10 8	1,800	48,635 7 9	3,66,498 15 1		1,54,615 0 4	1,64,908 14 9	47,074 0 0		3,66,498 15 1	2,233,928	2
4,245 5 0		2,166 4 0	62,352 1 0		62,352 1 0				62,352 1 0		
54,932 15 8	1,800	50,801 11 9	4,28,851 0 1		2,16,868 1 4	1,64,908 14 9	47,074 0 0		4,28,851 0 1	2,233,928	3
077		010 1 0	94.050.19.9				24,050 13 3		24,050 13 3	109,843	3
257 6 6		910 1 0	24,050 13 3	"						37,128	
							7			14,840	
4,211			****	**		The second second second				The second second	

to 31st March 1926. 1925 to 14th February 1926. of the District Board, but their pay has not been shown,

STATEMENT No. 111.

Particulars of vaccination performed by vaccinators attached to municipalities, dispensaries and other agencies in the Presidency of Bengal during the year 1925-26.

-		of municipalities, dispen- tc., in each district to vaccinator is attached,	vaccinators attached municipality, dis- de,, during the year.	persons vacci-	of persons ch vaccinator.	Num	ber of e	cases prim	arily vace	insted.		aber of ca	ses		eh were	of un	entage iknown es to cases.
	Districts.	unfel in es	unicoln	10	app.			Successf	ul.						4	1	d
'umber.		Number of muni saries, etc., in which a vaccin	0 g	Total number nated.	Average number o	Total.	Under one year.	One year and under six years.	Total of all ages.	Unknown.	Total.	Successful.	Unknown.	Primary.	Re-vaccination	Primary.	Re-vaccination.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
							1	The said	1999	1	1	1		1	1	1	-
1	Burdwan	6	7	22,316	3,188	4,754	1,554	2,855	4,701		17,573	14,701	79	98-9	83-6	**	-45
2	Birbhum	1	1	747	747	316	18	255	288		3,986	324	***	91 -1	75-2	-04	.00
3	Bankura	3	5	7,373	1,475	2,483	335 402	1,762	3,264 2,478	-	3,555	2,654	39	96 -3	15·3 74·6	-06	-98
5	Midnapur	7	12	6,038 12,683	2,537	5 490	1,472	3,511	5,279	98	7,173	3,457	1,713	96-1	48-2	1.7	23 -9
6	Hooghly	20	9	12,505	2,501	5,290	2,337	2,574	5,034	113	7,226	1,521	1,064	95 -1	21 -05	1000	14-7
7	24-Parganas (a)	25	31	25,288	815	13,385	3,954	7,103	13,083	59	11,904	6,864	1,018	97-7	57-6	-44	8-5
8	Calcutta	1	58	149,322	2,574	25,607	13,735	10,180	24,468	730	123,715	31,574	23,627	95-5	25 - 5	2.8	19-1
9	Nadia	9	9	4,083	454	2,348	357	1,746	2,260	78	1,750	900	367	99.6	51 -4	3-3	20.9
10	Murshidabad	6	7	8,195	1,171	2,865	064	1,847	2,803	19	5,334	2,862	375	97-8	53-6	-66	7.03
11	Jessore	3	4	723	181	427	62	339	426		296	61		99-7	20 -6		
12	Khulna	3	3	854	285	556	132	382	543	1	298	130	26	97-6	43-6	-18	-87
13	Rajshahi	2	2	3,426	1,713	1,291	416	793	1,251	22	2,135	1,138	348	96-9	53 -3	1.7	16-3
14	Dinajpur	1	1	1,382	1,382	461	150	249	450		921	295	283	97-6	32 -		25 -8
15	Jalpalguri	1	1	2,211	2,211	517	196	311	514		1,694	578		99-4	33 -8		
16	Darjeeling	2	(6)12	21,724	1,810	1,067	682	237	1,030	37	20,657	6,190	4,892	96-5	29 -9	3-4	23 -7
17	Rangpur	2	3	2,177	726	759	110	560	753	2	1,418	858	185	99 -2	60-5	-26	13 -04
18	Bogra	2	0	460	230	169	62	67	157	3	291	111	35	92-9	38 -1	1.7	12 -02
19	Pabna	2	2	2,561	1,280	1,278	420	525	1,219	15	1,283	451	18	95-4	35 -1	1.17	1-4
20	Malda	3	3	1,882	927	1,191	383	263	1,172	19	691	423	196	98 -4	61.2	1.6	28-3
21	Dacca	2	7	10,275	1,468	6,653	1,800	3,211	5,114	203	3,755	430	752	76-8	11-4	3.05	20 -
22	Mymensingh	8	8	5,941	742	4,036	578	2,940	3,758	202	1,905	764	264	93 -1	40 -1	5.0	13-8
23	Faridpur	3	3	2,734	911	1,645	226	1,165	1,561	29	1,129	275	297	94.9	24 -3	1.7	26-3
24	Bakarganj	6	6	3,154	526	1,896	429	1,036	1,811	24	1,278	320	315	95-5	25 -04	1.2	24-6
25	Chittagong	2	3	2,222	741	1,018	147	764	938	23	1,204	240	237	92.1	19-9	2.2	19.7
26	Noakhali	3	2 3	1,796	1,390	675 2,319	58 431	1,402	1,942	120	1,121	709 549	109	96 -9	28-1	5-2	9.7
27	Tippera	0	- "	4,171	1,000	2,019	401	1,402	1,092	120	2,004	040	400	00.1	20 1	0.2	20 2
	Total	116	212	316,243	1,491	91,883	31,110	48,811	86,951	1,801	224,677	78,984	36,642	94-7	35-1	1-96	16.3
	Vaccinations performed by								-								
	Tea gardens			24,562		9,194	4,095	3,634	8,893	183	15,368	6,161	2,542	96-7	40 -1	1-99	16-5
	Factories			25,923		8,769		**	7,813		17,154	6,983		89 -1	40 -7	**	
	Railways	1.		11,894		1,761			1,289		10,133	5,988		73 -2	59 -1		
	Steamers			5,935						100	5,935		5,935				
	Dispensaries										**						
	Jails		55	30,844	561	32			21	6	30,812	14,820	3,817	65-6	48 -1	18 -7	12.4
	Grand Total	116	267	415,401	1,556	111639	35,205	52,445	104,967	1,990	304,079	112,986	48,936	94-1	37 ·	17-9	16.1

⁽a) The figures against 24-Paraganas exclude those for the City of Calcutta which are given separately.
(b) In Darjeeling Municipality ten vaccinators were appointed for two and a half months.

COMPARATIVE STATEMENT No. IV.

Number of persons primarily vaccinated and the number of those persons, who were successfully vaccinated in each of the years, 1916-17 to 1925-26

																				-
		7.4	-			Persons primarily vaccinated	arily vaccin	ated.												
	1916-17	111	1917-18	-18.	1918-19.	-19.	1919-	-50.	1920-21.	n	192	1921-22.	192	1922-23.	1921	1923-24.	192	1924-25.	192	1923-26.
Establishmens.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully, vacci- nated.	Total	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacel- nated.	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated,	Total number.	Number success- fully vacci- nated.	Total number.	Number success- fully vacci- nated,
1	01	67	4	10	9	1	80	6	10	п	113	13	14	15	16	17	18	19	50	17
Government	7,466	7,198	7,473	7,296	7,261	7,108	5,646	189'9	6,504	6,432	6,489	6,404	6,640	6,516	068'9	5,781	1000'1	80 E51 E1	8,675	8,639
Municipalities	76,724	70,874	82,457	78.439	61,729	57,328	114,722	110,026	68,592	66,133	76,194	73,253	79,473	75,966	78,402	74,734	102,119	97,918	91,550	196'98
District Board	148,874	144,599	191,320	188,953	287,532	277,372	476,163	462,171	602,879	581,886	796,737	770,282	1,285,340	1,232,857	1,486,827	1,430,198	1,529,956	1,477,762	018'665'1	1,543,133
Dispensaries, Railways, Tea Gardens, Factories and Jalls.	(a)2,084	1,803	7,083	6,915	6,419	5,973	13,893	12,590	7,892	7,451	6,793	6,294	7,038	6,017	13,573	12,220	13,908	12,047	19,756	18,016
Work done by Licensed Vaccina- tors,	1,065,434	1,000,887	1,061,246	1,025,332	923,479	917,348	1,031,025	1,006,245	728,570	708,862	378,464	367,079	144,210	140,775	3,053	2,570	NII	Nil	29,529	28,827
Total	1,300,582 1,234,361 1,349,579 1,306,935 1,986,420 1,295,129 1,641,440	1,234,361	1,349,579	1,306,935	1,286,420	1,265,129	1,641,449	1,596,613	1,414,437	1,370,764 1,203,677		1,222,312	1,522,701	1,462,131	1,587,745	1,525,500 1,653,320	1,653,320	1,595,000 1,749,320	1,749,320	1,685,516

(a) This figure represents the number of persons primarily vaccinated in Railways, Dispensaries and Jails.

STATEMENT No. V.

Particulars of vaccination verified by the Inspecting Officers during the year 1925-26.

		tage cess od by stors.	Re-vacel- nation.	8	\$. 99	6.69	53.6	8.19	84.5	37.1	67.8	:	21.6	8.99	\$ 99	58.3	6.18	\$0.4	35.3	59-0	2 . 10	0.17	9.89	0-09	15.6	8.09	20.00	9.87	38.6	73.6	39.3	:	01.5
ı		Percentage of success reported by vaccinators.	Primary.	90	1-88	88.8	28.7	9.86	20-1	8.8	9-86	:	95-3	97.5	1-66	9.66	2.00	2.38	95.4	9.90	92.0	80.00	4.26	6.96	8-96	8.26	96	95.1	2.06	1-16	9.08	:	7.96
Ī	Joe .	stant ten- of tion.	Re-vacel- nation.	27	63.7	.00	83.8	6.99	2.00	50-91	8-19	:		9. 49	2.00	6.82	26.3	. 8	8.8	01	7	2 3		93	8.95	11.4	9-60	1-03	8.53	. #8	37.	:	24.00
ı	to total number	By Assistant Superinten- dents of Vaccination.	Primary.	56	6.98	5.96	8.08	6.8	9-0	1.0	10.96	:	o: 8	98-1	8.98	7.95	2.06	6.16	8.16	-	00 1	0.96	0	80.5	8.96	9.00	2.20	97.5	1.16	7-86	9.86	:	1.88
-	to tot		Re-vacel- nation.	25	8.99	8.92	9.61	8-45	:	01.75	20.00	20.00	1.81	9.69	0.0	9-99	6.11	24.9	95.4	69		34	- 04	80.00	1.89	6.61	8.98	54.6	5.99	1.10	:	:	34.5
	ted.	By Municipal Superintendents of Vaccination and Municipal Sanitary Inspectors.	Primary.	10	9-86	7.8	8	801	61.2	2.00	8.8	6.10	96.4	1.60	9.90	57 · SR	01.8	1.00	6-20	-		000	100	81-1	26.7	2.00	2.06	-	6.86	1.6.1	:	:	87.8
	ound st inspec		Revacel- nation.	62	-02	20.1	9-39	57-1 10	15.4	4-76	120	:	2.94	9-94	67-1	6-92	14.7	8.89	2.91	88.9	t-	68.8 10		:	.00	9.29	.09	10.4	91.19	2.22	:	:	91
	cases f	By Civil Surgeons and District Health Officers.	Primary.	81	01 08	1.86	80.00	2.16	01 00	83-3	2.10	:	2.86	5.96	1.66	8.08	8.86	1.86	8.96	6.66	-	9.76		1.66	8.06	1.76	6-66	- 96	87.3	.88	8	:	87.8
	Percentage of cases found successful inspected.		Re-vacel- nation.	157	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	;	;	;	:	;	:	:	:	:	-
07-0761	Percei	By Assistant Director of Public Health	Primary.	05	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	d.		Re-vacei- nation.	19	9.82	F= 01	6-91	1.91	24-3	6.95	10-7	:	20.08	6-9	9.00	0.0	6.9	82.6	9.9	5 · 90	9.75	80.53		15-06	6.7	2.3	20-21	11-26	11.91	13.7	8.83	:	9 . 00
me year	vaccinated	By Assistant Superinten- dents of Vaccination.	Primary.	18	27.72	8: 63	17-03	01 02	95 -1	07.55	15.6	:	6.99	8.49	9.18	9.81	7.8	26.4 3	01.02	43.01	98	60.5			13.05	2 2.101	45.7	30.14	102.6	8-55	20.2	:	41.2
guunn	number v		He-vacei- nation.	17	1.65	9.16	44.7	13.9	9-88	85.8	28.01	34.5	17.7	1.99	27.02	19-1	1.01	44.5	7.51	15.03	-	2.89	_	10	9.5	25.4 10	7.00	7.51	14-3 10	85.4	:	:	5.03
	to total nu	By Municipal Superin- tendents of Vaccination and Municipal Sanitary Inspectors.	Primary.	16	7.51	8.12	6-01	8.53	2 2 2	35-1	36-1	t-19	35.4	1.18	13.8	30-4	9-19	74.2	18.9	- 88	t-	8. 44.00		10	13.6	10.1	20.61	17.5	39.5	30.7		:	1.5
Omcers	tion to		He-vacel- nation.	15	3.45	*1.	3.05	2.62	***	-18	50	:	50.	10.5	83	3.00	65.	3-87	5.50	-10		9 :		-	7	18:1	11.	5-77	1.56	18:3	.:	:	90 :0
Inspecting	f inspec	By Civil Surgeous and District Health Officers.	Primary.	14	8-46	1.35	09-2	20.5	00-0	19-1	-07	:	.58	8	2.74	3.64	20 · 02	3.68	22	9-14	-	61.		2.14	29.	10	3.59	14 - 32	3.37	88.8	.43	:	3.04
	Percentage of inspection		Re-vacci- nation.	13	-:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:
tue /	Pere	By Assistant Directors of Public Health.	Primary.	12	:	:	:	:	-	:	:	:	:	:	:	:	:		:	:	:	:	:		:	:	:	:	:	:		:	:
vermed by			Re-vacel- nation.	11	72,583	254	6,225	13,134	3,074	6,156	4,112		7,986	13,624	6,350	1,219	1,860	7,103	1,403	4,702	608'6	10,169	200	6,487	5,600	9,318	016	6,208	8,412	6,246	4,756	:	220,625
		By Assistant Superintendents of Vaccination.	Primary.	10	14,952	7,957	6,237	598'61	21,280	34,706	12,270	:	25,812	34,466	19,461	9,433	12,990	20,577	8,533	5,027	1,657	18911	1000	182.00	13,424	52,021	13,376	088'81	77,257	888,02	099'01	:	676,201
comation			Re-vacel- nation.	0	290	149	1,782	495	2,771	2,591	3,335	42,774	300	2,408	98	45	9118	410	210	3,106	200	000	107		600	287	=	150	160	695	-	:	64,380 6
Particulars of vac	16.69	By Municipal Superintendents of Vaccination and Municipal Sanitary Inspectors.	Primary.	-	357	69	1,387	595	2,492	1,857	4,838	15,738	826	1,073	20	160	199	342	8	900	400	98	000	2,163	679	808	367	178	202	710	:	:	37,615
culars	spected.		.notion.	_	3,187	130	2,342	2,132	814 2	2	00	15		909	2	525	184	848	530	18	854	170	8 9		0000	878	10	3,180	815	000,1	_	-	-
ran	mber ins	By Civil Surgeons and District Health Officers.	Re-vacei-		_		197			-		-	-			9	100			90	000					-	_			7		:	900'08
	Total number inspected.		Primary.	0	5,386	420	987	1,815	2,081	361	57	:	722	493	1,377	1,850	1,152	2,861	218	1,068	1,700	37	1 590	2,421	1,583	2,484	3,461	8,977	2,542	3,188	100	3	19,934
		By Assistant Directors of Public Health.	He-vacel- netion.	10	:	:	:	:		:	:	:	:	:	:	:	-	:	:	:	:	:	:		:	:	:	:		:	:	:	:
			Primary.	4	:	:	:	;	:	:	:	:	:	:	:	:	:	:	:	:	:		:	: :	:	:	:	:	:	*	:	:	:
		Total number of persons vacci- nated.	Re-vacei- nation,	00	110,950	18,324	43,164	85,759	19,991	31,621	60,747	123,715	41,973	35,274	28,395	20,832	34,004	21,914	33,485	39,006	31,795	41,435	99 445	48,103	119,208	38,536	8,198	87,409	53,825	49,339	3,691	48,590	1,278,810
		Total m person nat	Primary.	01	68,407	31,368	39,997	91,874	27,850	32,595	91,855	25,607	40,904	56,029	50,584	51,290	46,907	78,188	25,086	12,648	64,361	19,305	27 545	119,510	260,048	51,247	98,237	63,677	75,911	112,914	8,675	19,724	1,749,320 1,278,816
				-	:	:	:	:	:	:	:	:	:	p	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	HIII	team- lories, les	
		District		-	Burdwan	Birbhum	Bankura	Midnapur	Hooghly	Howrah	24-Parganas	Calcutta	Nadia	Murshidabad	Jessore	Khulna	Rajshahi	Dinalpur	Jalpaiguri	Darjeeling	Rangpur	Bogra	Malda	Dacca	Mymensingh	Faridpur	Bakarganj	Chittagong	Noakhall	Tippera	Chittagong)	Rallways, Steam- ers, Factories, Dispensaries	dens. Total

N.B.—(a) Assistant Director of Public Health of the Ducca and Rajshahl Circles inspected 1,559 operations, or which 1,399 cases were found successful.

(b) Assistant Director of Public Health of the Burdwan Circle inspected 517 children in several Municipalities in his jurisdiction and found 68 unprotected. He also inspected 155 cases in Arambagh Municipality and found 135 succession.

STATEMENT No. VI

Ratios per mills of population of deaths from small-pox and the number of successful vaccinations during the ten years ending 1925-26.

1925-26.	Number of successful vaccinations.	- 53	14.1738 14.1738 14.1738 14.1738 16.0000 16.000 16.000 16.000 16.000 16.000 16.000 16.000 16.000 16.00000 16.0000 16.0000 16.0000 16.0000 16.0000 16.0000 16.0000 16.	2,395,739
100	Ratio of deaths from .xoq-liems	50	00011 00012 00000000	7
-25.	Number of successful raccinations.	19	80,484 80,484	2,096,383
1924-25	mori salash of deaths from .xoq-flems	18	31111888 SE 2888 SE 28 28 28 28 28 28 28 28 28 28 28 28 28	ŝį
124.	Xumber of specessful vaccinations,	17	20, 200 20, 20	1,790,927
1923-24.	mori satis of deaths from .xoq-liams	16	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	90.
1922-23.	Xumber of successful vaccinations.	15	01.62 80.91 80.91 80.91 80.91 80.90 80 80 80 80 80 80 80 80 80 80 80 80 80	1,738,386
1921	Hatio of deaths from small-pox.	14	Not trade	-16
-500	Xumber of successful vaccinations.	13	111 28 28 28 28 28 28 28 28 28 28 28 28 28	1,516,502
1921-22	Ratio of deaths from small-pox.	57	882222332525825233252233252533	7.
1920-21.	Number of successful vaccinations,	=	88, 534, 534, 534, 534, 534, 534, 534, 534	2,006,692
1920	Matho of deaths from small-pox,	10	**************************************	87.
-20.	Number of successful vaccinations.	a	110,055 111	2,636,589
1919-20	most school deaths from ,xoq-deans	00	289 28 28 28 28 28 28 28 28 28 28 28 28 28	96.
10.	Number of successful vaccinations,	F=	11.101 11.101 11.101 11.101 10	1,556,099
1918-19.	most school deaths from .xoq-flaens	9	7.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-26
18.	Number of successful vaccinations,	13	2012 8 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	1,481,921
1917-18.	Early of deaths from .xoq-fleans	,	125	91.
17.	Number of successful vaccinations,	00	### 2000 ### 20	1,406,008
1916-17.	Heatle of denties from small-pox.	01	No of the state of	53
	District,	1	Burdwan Bankuna Bankuna Bankuna Booghly Booghly Booghly Bodenta Selenta Selent	Total

STATEMENT No. VII

Protection afforded to infants in each town in the Presidency of Bengal during the year 1925-26.

			year 1925	J-20.						
District.		Town.	Number of births during the year,	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on child- ren under one year during the year ending 31st. March 1926.	Date of extension of Vaccination Act to town.				
1		2	3	4	5	6				
Burdwan .	. {	Burdwan Kalna Katwa Dainhat Raniganj Asansol	183 226 66 82 369 352	6 56 15 24 62 59	73 119 109 149 868 236	lst July 1883. lst ,, ,, lst ,, ,, lst ,, ,, lst ,, ,, lst ,, ,, lst ,, ,,				
		Total	1,278	222	1,554					
Birbhum		Suri	80	8	18	1st July 1881.				
Bankura .	. {	Bankura Vishnupur Sonamukhi	522 481 423	67 51 71	255 21 59	1st ,, 1883. 1st ,, ,, 6th June 1892.				
		Total	1,426	189	335					
Midnapur	. {	Midnapur Ghatal Kharar Chandrakona Ramjibanpur Khirpai Tamluk	637 400 149 170 163 107 177	31 32 41 31 23 19	195 32 74 57 20 6 18	1st July 1883. 1st ,, ,, 16th August 1889. 1st July 1883. 1st ,, ,, 1st ,, ,, 1st ,, ,,				
	-	Total	1,803	188	402					
Hooghly		Hooghly-Chinsura Bansbaria Arambagh Serampur Uttarpara Kotrung Baidyabati Bhadreswar Rishra-Konnagar	817 114 213 730 203 151 430 424 399	120 23 30 105 24 18 71 122 77	369 57 357 28 39 342 195 85	lst September 1881. lst July 1883. l1th February 1889. lst March 1883. lst April ,, lst July ,, lst , ,, lst , ,, (It formerly formed a part of the Serampur				
		Champdani	290	27		Municipality). (It formed a part of the Baidyabati and Bhadreswar Munici- palities).				
		Total	3,771	617	1,472					
Howrah	. {	Howrah Bally	4,893 425	1,461 59	2,295 42	1st April 1882. 1st Ocotber 1884.				
		Total	5,318	1,520	2,337					
24-Parganas .	{	Total of the Burdwan Division. South Suburban Tollyganj	13,676 1,011 500	2,744 97 65	6,118 731 534	Ist October 1883. Ist ,, ,, (It formerly formed a part of the South Suburban Municipality.)				

District.	Town.	Number of births during the year.	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on child- ren under one year during the year cooling 31st March 1926.	Date of extension of Vaccination Act to town.			
1	2	3	4	5	6			
	Budge Budge Baranagar Kamarhati	306 765 324	18 155 27	96 168 206	18th February 1902. 1st October 1883. 1st ,, ,, (It formerly formed a part of the Baranagar Municipality.)			
	Rajpur Baruipur Jaynagar North Dum Dum South Dum Dum Khardah Barrackpur including Barrackpur Cantonment Panihati	276 73 112 114 319 102 185	51 13 26 28 52 10 28	54 53 7 1 145 42 87	lst October 1883. lst ,, ,, lst ,, ,, lst ,, ,, lst ,, ,, (They formerly formed parts of the South Barrackpur Municipality.)			
24-Parganas— { concld.	North Barrackpur Titagarh	336 835	47 134	107 306	lst October 1883. lst ,, ,, (It formerly formed a part of the South Barrackpur Munici- pality.)			
	Garulia	172	25	47	1st October 1883. (It formerly formed a part of the North Barrackpur Munici- pality.			
	Naihati Halishahar Kanchrapara Bhatpara	311 139 151 1,064	39 21 9 174	358 8 24 372	lst October 1883. lst ,, ,, (They formerly formed parts of the Naihati Municipality.)			
	Barasat Gobardanga Basirhat Baduria Taki	132 53 518 193 147	12 4 74 19 36	1 23 342 184 14	1st October 1893. 1st ,, ,, 1st ,, ,, 1st ,, ,, 1st ,, ,,			
	Total	8,389	1,212	3,954				
Calcutta	Calcutta	20,832	6,536	13,735	1880.			
Nadia {	Krishnagar Nadia Ranaghat Birnagar Santipur Chakdaha Kushtia Kumarkhali Meherpur	472 235 269 51 931 111 120 67 127	61 43 29 15 157 21 15 11 39	44 25 107 23 33 41 29 17 38	1st October 1883. 1st ,, ,, 1st ,, ,, 1st ,, ,, 1st ,, ,, 28th January 1887. 1st October 1883. 1st ,, ,, 1st ,, ,,			
	Total	2,383	391	357				

District.	Town.		Number of births during the year,	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on child- ren under one year during the year coding 31st March 1926.	Date of extension of Vaccination Act to town.
1	2		3	4	5	6
Murshidabad {	Berhampur Murshidabad Jiaganj-Azimganj		502 293 322	97 70 62	248 56 115	1st October 1883. 1st ", ", 1st ", ", (It formerly formed a part of the Murshida
700	Jangipur .		317 379 378	45 23 33	43 145 57	bad Municipality.) 1st October 1883. 1st ,, ,, 26th June 1910.
	Total .		2,191	330	664	
Jessore {	Kotchandpur .		119 102 37	9 15 14	12 19 31	1st October 1883. 1st February 1884. 1st October 1883.
	Total .		258	38	62	
Khulna {	Satkhira .		161 143 85	12 31 8	29 67 36	1st July 1887. 7th July 1883. 1st October 1883.
	Total .		389	51	132	
	Total of the Presidency Division .		34,442	8,558	18,904	
Rajshahi {	Rajshahi .		523	85	413	1st June 1881.
			158	39	3	1st January 1881.
			681	124	416	
Dinajpur			186	20	150	1st January 1887.
Jalpaiguri			192	10	196	1st ,, ,,
Darjeeling {	V		237	55 37	446 236	1st September 1884. 1st January 1887.
(m. 4-3		724	92	682	'st balluary 1007.
Rangpur	Rangpur .		295 46	32 10	71 39	1st July 1881. 20th November 1924.
	Total .		341	42	110	and a second
Bogra {	Bogra .		128	31	56	1st January 1882.
. (Sherpur .		43	17	6	1st October 1884.
	Total .		171	48	62	
Pabna {			207	43	163	1st February 1882.
·	Sirajganj . Total .	-	655	121	257 420	1st January 1887.
	Total .		000	121	1.00	

District.	Town.	Number of births during the year,	Number of deaths amongst children under one year during the year.	Number of successful vaccinations on child- ren unier one year daring the year ending 31st March 1929.	Date of extension of Vaccina- tion Act to town.
1	2	3	4	5	6
Malda {	English Bazar Malda Nawabganj	323 85 330	54 18 49	283 34 66	1st March 1883. 1st April 1887. 12th May 1904.
	Total	738	121	383	
	Total of the Rajshahi Division.	3,688	578	2,419	
Dacca	Dacca	4,054	916	1,649	1st July 1887.
To local	Narayanganj	976	267	151	lst ,, ,,
1 1 1 1 1 1 1	Total	5,030	1,183	1,800	me la la
	Mymensingh Muktagacha Netrakona	450 134 234	98 11 31	32 8 44	1st October 1887. 1st ,, ,, 20th January 1890.
	Jamalpur	446	69	243	1st October 1887.
Mymensingh	Sherpur Kishorganj	443 325	52 22	92 112	1st ,, ,,
1000	Bajitpur	120	30	18	1st ", ",
(Tangail	212	38	29	19th February 1890.
	Total	2,364	351	578	
Faridpur	Faridpur Madaripur	223	28	118	1st October 1887.
ranupur	Rajbari	486 43	57	72 36	1st ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,
	Total	752	96	226	
(Barisal	169	102	33	1st October 1887.
	Jhalakati	54	8	2	lst ,, ,,
Pakanani	Nalchiti	46	6	9	lst ,, ,,
Bakarganj	Pirojpur Patuakhali	291 145	31 23	383	1st January 1890. 25th January 1891.
· ·	Bhola	22	7		8th November 1922.
	Total	727	177	429	
	Total of the Dacca Division.	8,873	1,807	3,033	
Chittagong	Chittagong	662	96	98	1st April 1887.
J	Cox's Bazar	83	7	49	14th November 1892.
19	Total	745	103	147	
m. (Comilla	277	25	43	the same of the sa
Tippera {	Brahmanbaria Chandpur	705 193	98 30	272	1st April 1887.
	77	1,175	153	431	1st ,, ,, 22nd July 1898.
Noakhali	Cudhaman	77			let April 1007
Nonkhali	Section 1997		7	58	1st April 1887.
	Total of the Chitta- gong Division.	1,997	263	636	
1	Total for the Presidency.	62,676	13,950	31,110	

xiv

PROVINCIAL STATEMENT A.

Degree of protection afforded to infants during the year 1925-26.

District.		Rural population among which vaccinations were per- formed.	Number of births during the year.	ar	Mortality nong infants under one year,	Surviving population under one year available for vaccination.	Number successfully vaccinated.	Proportion of persons successfully vaccinated per 1,000 of population as shown in column 5.	Proportion of persons successfully vaccinated per 1,000 of population during 1924-25.		
1			2	3		4	5	6	7	8	
	19					18				100	
Malda			955,830	37,706		6,564	31,142	24,116	774 - 2	822	
Rajshahi	4.5	**	1,457,037	50,112		11,829	38,283	29,169	762	625.5	
Darjeeling	**		254,045	8,882		1,463	7,419	5,107	688.3	456-1	
Jalpaiguri			921,749	28,403		5,348	23,055	13,623	590.9	482.9	
Dinajpur			1,687,328	63,726		14,555	49,171	19,209	390.6	358-6	
Murshidabad			1,182,983	58,954		11,064	47,890	18,469	385.6	355-1	
Nadia		**	1,390,704	55,865		13,872	41,993	16,131	384 · 1	412.07	
Khulna		**	1,421,116	43,758		8,114	35,644	13,077	366-9	373-5	
Howrah			778,893	24,292		4,869	19,423	6,199	319.1	352.6	
Burdwan			1,343,185	58,321		11,726	46,595	12,992	278.8	313+8	
Noakhali			1,465,071	46,406		6,222	40,184	11,015	274 - 1	250-5	
Chittagong Hi	ll Tracts		173,243	5,127		929	4,198	1,143	272.2	296.7	
Tippera			2,678,627	58,278		7,706	50,572	13,528	267 - 4	303 · 3	
Bankura			964,487	38,756		6,902	31,854	8,134	255.3	222-1	
Jessore			1,700,924	46,084		7,785	38,299	9,385	245	225-9	
Hooghly			900,802	25,945		5,017	20,928	4,908	234 · 5	219 - 2	
Pabna			1,344,633	38,768		6,582	32,186	6,666	207 · 1	227.6	
Rangpur			2,488,778	73,385		16,384	57,001	11,508	201.8	148-1	
24-Parganas			1,998,348	55,608		8,321	47,287	7,946	168	205-1	
Midnapur			2,595,071	82,736		13,606	69,130	11,394	164.8	264 - 1	
Birbhum			838,655	39,595		7,365	32,230	5,192	161 · 1	273-2	
Chittagong			1,570,760	48,422		6,139	42,283	5,882	139 · 1	116-8	
Dacca			2,975,915	79,712		11,988	67,724	8,477	125.1	124-2	
Mymensingh			4,710,669	122,632		21,124	101,508	10,176	100.2	94-1	
Faridpur			2,202,783	63,621	100	11,174	52,447	5,071	96-7	61.3	
Bogra			1,032,300	28,766		5,113	23,653	1,947	82.3	141-3	
Bakarganj			2,563,849	75,843	1	14,346	61,497	1,712	27-84	45 - 2	
Total of the	rural circ		43,597,755	1,359,703		246,107	1,113,596	282,176	253-3	253 · 3	
Calcutta			1,077,264	20,832		6,536	14,296	13,735	960-7	1,442.7	
Mufassal Mun	icipalities		2,020,517	41,844		7,414	34.430	17,375	482.4	503	
Grand	Total		46,695,536	1,422,379		260,057	1,162,322	313,286	269-5	275-4	

PROVINCIAL STATEMENT B.

Different kinds of lymph used and the percentage of success during the year 1925-26.

										- 1	- 1	-10 1	-		
		Percentage of suc-	000	50-73 50-73 50-73 51-14-13 34-33	60.1	8225833	47.8	\$5888388 86588	55.3	56-04 74-10 56-3	6.99	30000	51.6	\$6.1 40.7 40.1	55.5
	4	.пъсвоив.	15	1,268 1,268 1,564 1,275 1,275	21,351	23,627 5,876 1,979 2,436 1,586	39,522	1,144 1,154 1,159 1,159 1,013 1,013 1,013	31,328	5,479 4,769 553	18,661	10,324 10,594 3,377 162	24,457		143,796
	ed lymph	Unasuccessful.	98	33,462 6,112 20,644 3,767 13,494	102,175	20,058 68,514 6,477 9,067 7,110	121,264	25,748 2,748 2,748 2,045	72,006	15,665 22,600 10,615 3,028	51,908	19,585 22,205 11,192 2,078	55,060	4,145	123,424
	Glycerinated lymph.	Successful,	8	670 080 400 8610 8610	273	2524	387	000 000 000 000 000 000 000 000 000 00	810	959 205 194 617	975	500 026 938 451	915	6,161	708,492 4:
	9	,		1000010	186	######################################	147,	製品を出望れる場	127	010001	142,	8555	8		
		Total.	81	110,950 18,324 43,164 85,759 19,981 31,621	309,799	00,747 123,715 41,973 32,436 20,202	308,173	24,004 21,014 21,014 31,735 21,435 23,445	231,174	48,103 118,665 38,578 8,198	213,544	57,409 53,825 49,507 3,691	164,432	10,133	1,275,712
om.		Percentage of suc- cessful cases,	55	::::::		:::::::::::::::::::::::::::::::::::::::	84	:::::::		9:59	9.89	::::		::::	51.5
Revacelnation	ıph.	Unknown.	26	::::::	:	:::::::::::::::::::::::::::::::::::::::	282	:::::::		: ":	17	::::		::::	299
Revi	anoline lymph	Unsuccessful.	83	::::::	:	1,196	1,195	:::::::		150	150	::::	:	::::	1,345
	Lano	Successful.		::::::		:::365	1,365	:::::::		366 ::	366	::::	:	::::	1,731
		.letoT	55	::::::	:	:::55:::	2,842	:::::::		533	533	::::	**	1::::	3,375
		Percentage of suc- centul cases.	99	::::::	:	*****	:	:::::::	:	::::	:	::::		::::	:
	calf.	Unknown.	15	::::::	:	::::::	:	::::::::		::::	:	::::	:	::::	:
	Direct from o	Unsuccessful.	90	::::::	:	::::::	:	::::::::	:	::::	:	::::	:	1111	:
	Direc	Successful.	19	:: :::	:	::::::		:::::::		::::	:	::::	:	::::	:
		Total.	18	::::::	:	::::::	1:	:::::::	1:	. ::::	:	::::	:	::::	:
		Percentage of suc- cessful cases.	17	882888	98.1	883288	97.9	98888888	95.6	952.5	25.58	25.55 1.178 5.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	51.7	25.08 5.08 7.08 7.08	5.96
		Тимоны	16	#8======	1,915	551. 551. 551. 551. 551.	2,880	350 0 850 1	5,887	2,852 4,226 807 1,434	9,319	1,855 3,647 1,364	6,898	:::	27,082
	sted lymph	Unsuccessful.	15	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3,464	898 987 987 987 981	3,596	4,386 1,170 1,162 536 606 606 513	8,685	3,303 8,114 3,58 2,497	14,272	1,259 3,740 1,815	6,818	274 9.0 118	28,381
	Glycerinat	Successful.	11	90,75 29,163 29,076 32,023	286,734	90,490 24,468 38,999 53,818 50,122 51,126	809,023	17,392 17	317,680	113,526 246,140 50,144 94,326	504,136	68,559 109,875 8,639	247,644	1,280	1,683,212
Primary vaccination.	-7	Total	13	88,418 39,967 91,574 27,550 32,606	292,113	91,856 25,807 40,919 55,181 51,352	315,499	18,26,907 18,286 19,230 19,330 19,330 19,330 19,345 17,545	332,252	258,480 51,309 98,257	527,727	63,685 75,946 113,054 8,675	261,360	3,761	1,748,675
V Vaco		ceasini cases.	22		:	:::2:::	8.16	:::::::	1:	6.56	6.26	::::	:	::::	8.90
dmar	do.	Unknown. Percentage of suc-	=	::::::	1:	::::::::::	· Proper	::::::::	1:	1	50	::::	1:	::::	1
A	Lanoline lymph	Unanconstul.	10	::::::	1:	::::::	1:	::::::::	1			::::	1:	::::	
	anolis	Successful.	0	::::::	:	:::08:::	800	*******	1		1504	::::	1:	::::	1.09
	1	Total.	00	::::::	1:	:::3:::	848	:::::::	1	1568	1578	::::	1:	::::	2416
		Percentage of suc-	1-	::::::	1:	:::::		:::::::	:	1111	:	::::	1:	::::	1
	calf.	Unknown.	9	::::::	:	1:::::	:		1	::::	1:	::::	1:	1	1
	Direct from calf.	Unsuccessful.	10	::::::	1:		-	::::::::	-	1	-	::::	1:	1	1
	Direct	Successful.	7	::::::	1:		-		1	1	1	1111	1:	1	1
		.latoT	00	::::::	1:		-	1	-	1	-	1111	1:		1
		District.	01	Burlwan Birbhum Bankura Meluapur Rooghly		24-Parcanas Calcutta Nadia Murchidabad Jessore Khotes	Total			a	Total	Chittagong Noakhali Tuppera Chittagong Hill Tracts.	Total	Railways Factories Steamers Tos Gardens	Total for the Presidency.
-		No.	-	-0109 +10 5	_	-×0253	_	21221222	_	23322		RESER		8488	

B. G. Press-29-1-1927-1617M-405-S. D.

GOVERNMENT OF BENGAL.

LOCAL SELF-GOVERNMENT DEPARTMENT.

Public Health.

DARJEELING, THE 22ND JUNE 1927.

RESOLUTION-No. 154 T.-P.H.

Engineer, Public Health Department, for the year 1925.

Minister-in-charge: The Hon'ble Hadji Mr. A. K. Abu Ahmed Khan Ghuznavi.

READ-

and the second

READ ALSO—
The Thirteenth Triennial Report on Vaccination in Bengal for the years 1923-24, 1924-25 and 1925-26.

The Report of the Director of Public Health, the Sanitary Board, and the Chief

1. Public Health (Statistical, Epidemiological and General Health Administration)-

Population.—For the purposes of this review, the total population of Bengal, excluding the Chittagong Hill Tracts, is taken as 46,522,293 (1921 census).

2. Birth-rate and death-rate.—In 1925, the total number of births recorded in Bengal was 1,377,097 against 1,203,244 in the preceding year, while the number of recorded deaths fell from 1,203,244 in 1924 to 1,158,473 in 1925. The provincial birth-rate in 1925 was 296 per mille, showing an increase of '34 per cent. over that of the previous year, while it was about one per cent. less than the decennial average of 29'98 per mille. In this connection the Director of Public Health remarks as follows:—

"The registration of vital occurrences being highly unsatisfactory, it would be safe to assume the actual birth and death-rates of the province for the year 1925 to be 37.6 per mille and 31.6 per mille, respectively, allowing for a recognised omission of 27 per cent. in each case."

It is regrettable that the commissioners of certain municipalities are still remiss in administering the Registration of Births and Deaths Act, although their attention has been drawn year after year to their slackness in this respect.

The North-West Frontier Province, Assam and Burma returned lower

birth-rates than Bengal.

The provincial death-rate in 1925 was 24.9 per mille against 25.9 per mille in the preceding year. The mortality rate was thus 3.86 per cent. less than that of the previous year and 10.1 per cent. less than the quinquennial average. It was 16.7 per cent. below the decennial mean.

Infant mortality.—In 1925, 249,582 infants died under the age of one year as compared with 252,337 during the previous year. The rate of morta-

lity was thus 1'6 per cent. less than in the previous year.

During the year under review 2,790 deaths from child-birth were reported as compared with 1,972 in 1924, 1,185 in 1923, 2,567 in 1922 and 1,656 in 1921. The Director of Public Health remarks that the registration of such deaths is still far from complete and estimates that the figure for the year 1925 should be 4,197.

During the year 1925, 62,281 still-births were reported against 64,159 in the previous year, showing a decrease of 2.9 per cent. Local authorities showed a growing interest in maternity and child welfare work, and increased advantage was taken of the Government grant for holding daitraining classes. Twenty-six baby week shows were organized in mufassal centres during the year under report.

There is no doubt that there has been a stirring up of the public conscience in the matter of maternal and infant welfare and that deep-seated prejudices are being gradually uprooted. There are grounds for expecting a material reduction in the rate of infant mortality in the near future as a result of progressive enlightenment and increased interest in a subject which is of such importance for the well-being of Bengal.

Cholera.—The mortality from cholera was 34,276 in 1925 as compared with 48,514 in 1924, showing a decrease of 32.7 per cent. The steps taken to cope with epidemics included inoculation and the disinfection of sources of water-supply. Fifty Sanitary Inspectors sanctioned by Government for this purpose and Assistant and Sub-Assistant Surgeons attached to the Public Health Department were deputed from time to time to help local bodies in suppressing outbreaks, while the Circle Assistant Directors gave the benefit of their advice to the sanitary authorities of the affected districts.

Small-pox.—In 1925 the mortality from small-pox was 17,436 against 5,567 in the previous year, showing an increase of 233.3 per cent. The death-rate increased by 17.6 per cent. as compared with the previous decennium.

The total number of vaccinations reported in 1925-26 was 3,030,178 as compared with 2,662,966 in 1924-25. Of the total operations, 1,751,091 were recorded as primary and 1,279,087 re-vaccinations, against 1,655,201 primary and 1,007,765 re-vaccinations during the year 1924-25. There was thus during the year 1925-26 an increase of 5.8 per cent. in primary and 26.9 per cent. in re-vaccination operations. In this connection the Assistant Director of Public Health, Vaccination and Vital Statistics, remarks as follows:—

"The substitution of free vaccination by house to house visitation in most of the districts in place of the old licensed system, the increased activities of the local bodies through their District Health Officers and the Vaccination staff, coupled with the financial help by way of the Government contribution of Rs. 25,000 found the District Board ready to meet the quinquennial onslaught of the anticipated small-pox epidemic, which in consequence enacted a smaller toll of lives in the present than in the previous quinquennium. The gradual increase in the number of vaccinations performed can be taken as a fair index of the rousing of the sanitary conscience of the people, who at present are not so apathetic as they were in former times."

During 1925-26, out of 1,162,322 infants requiring vaccination 3,13,286 or 269.5 per mille were reported to have been successfully vaccinated in the rural areas, as compared with 306,344 or 275.4 per mille during the preceding year. In five districts including Calcutta, the proportion protected was said to have been over 500 per mille.

Fever.—In 1925 the mortality from fever was 874,228 against 912,408 in 1924, giving a ratio of 18'8 per mille against 19'6 per mille in the previous year. In comparison with the year 1924 the mortality decreased in 1925 by 4'08 per cent., while it was less than the decennial mean by 15'7 per cent. As usual, deaths from fever represented 75'5 per cent. of the total mortality. A remarkable feature of the year under review as compared with 1924 was that the percentage of mortality from fever in this Presidency decreased in rural areas while it increased in towns.

Kala-azar.—The number of reported deaths from this disease was 16,766 in 1925, against 9.997 in 1924, 4,565 in 1923, 1,531 in 1922 and 1,552 in 1921. The number of Kala-azar cases treated at hospitals, dispensaries and special centres was 188,949 in 1925 against 139,085 in 1924, 57,238 in 1923, 13,317 in 1922 and 7,689 in 1921. It is gratifying to note that in 1925 every endeavour was made by District Boards to eradicate the disease by utilizing District Board dispensaries and Kala-azar centres and by opening special centres in addition to those started by voluntary organizations such as the Central Co-operative Anti-malarial Society and the Bengal Health Association.

Sanitary Engineering.—Fourteen water-supply and drainage schemes were prepared, and thirteen detailed projects of municipal water-supply and sewerage were drawn up by the Chief Engineer, Public Health Department, in 1925. Sixteen water-supply and sewerage projects were under consideration, four water-supply and two sewerage schemes were completed, and

two water-supply and two sewerage projects were partially completed during the year under review. The total capital expenditure on water-supply in 1925 was Rs. 6,81,452, while the total expenditure on municipal drainage and sewerage works was Rs. 4,08,369.

Personal.—The Government of Bengal have recently lost the services of Mr. G. Bransby Williams, who had held the post of Chief Engineer, Public Health Department (formerly called Sanitary Engineer) since 1909, and who has had to retire under the age-limit.

The Engineering branch of the Public Health Department is practically the creation of Mr. Bransby Williams, and it is largely due to his ability and the example set by him that so much sanitary engineering work of a high

order of excellence has been carried out by the branch.

The fact that Mr. Bransby Williams's services were freely requisitioned to advise on schemes outside Bengal is itself evidence of the high reputation which his professional skill had earned for him.

Mr. F. C. Griffin officiated successfully as Chief Engineer during half

the year under report.

In Dr. C. A. Bentley the Public Health Department has a Director of great enthusiasm, imagination, professional knowledge and ability to inspire his subordinates with his own zeal. Lieutenant-Colonel Stewart, I.M.S., acted as Director of Public Health with remarkable efficiency for the most part of 1925 and in particular showed the greatest energy in visiting all sorts of out of the way places to investigate health conditions.

Government in the Ministry of Public Health associate themselves with the tributes which the Director of Public Health and the Chief Engineer have paid to the assistance given by officers subordinate to them. Special mention should be given to the propaganda work carried out by Rai Sahib

K. P. Roy.

It is however considered that future reports should contain a more critical estimate of the efficiency of the Health staffs employed under Government and local bodies and of other Health agencies such as Cooperative Anti-malarial Societies. Under the recently sanctioned scheme for rural health organization, there will be a rapid expansion of staff and its duties will not be confined solely to public health work, but much new administrative work will fall upon it. The closest attention to efficiency will be necessary if the staff is to be properly utilized.

By order of the Government of Bengal

(Ministry of Public Health),

A. J. DASH, Secretary to the Government of Bengal (offg.).

Nos. 1448-1458P.H.

Copy of the resolution (with copies of reports) forwarded to (1) all Commissioners of Divisions for information and communication to all District Officers and all Chairmen of District Boards in their respective divisions, (2) the Surgeon-General with the Government of Bengal, the Inspector-General of Prisons and the Inspector-General of Police, Bengal, for information, (3) the Director of Public Health, the Chief Engineer, Public Health Department, and the Secretary to the Sanitary Board, Bengal, for information.

By order of the Government of Bengal

(Ministry of Public Health),

G. C. SEN,

CALCUTTA; Assistant Secretary to the Government of Bengal.

The 16th July 1927.

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