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ANNUAL PUBLIC HEALTH REPORT

OF THE

PROVINCE OF BIHAR

FOR THE YEAR

1936

AND THE

ANNUAL VACCINATION REPORT

FOR THE YEAR

1936-37

BY

Lt.-Col. S. L. MITRA, D.P.H., I.M.S., Director of Public Health, Bihar.



SUPERINTENDENT, GOVERNMENT PRINTING, BIHAR, PATNA. 1938.

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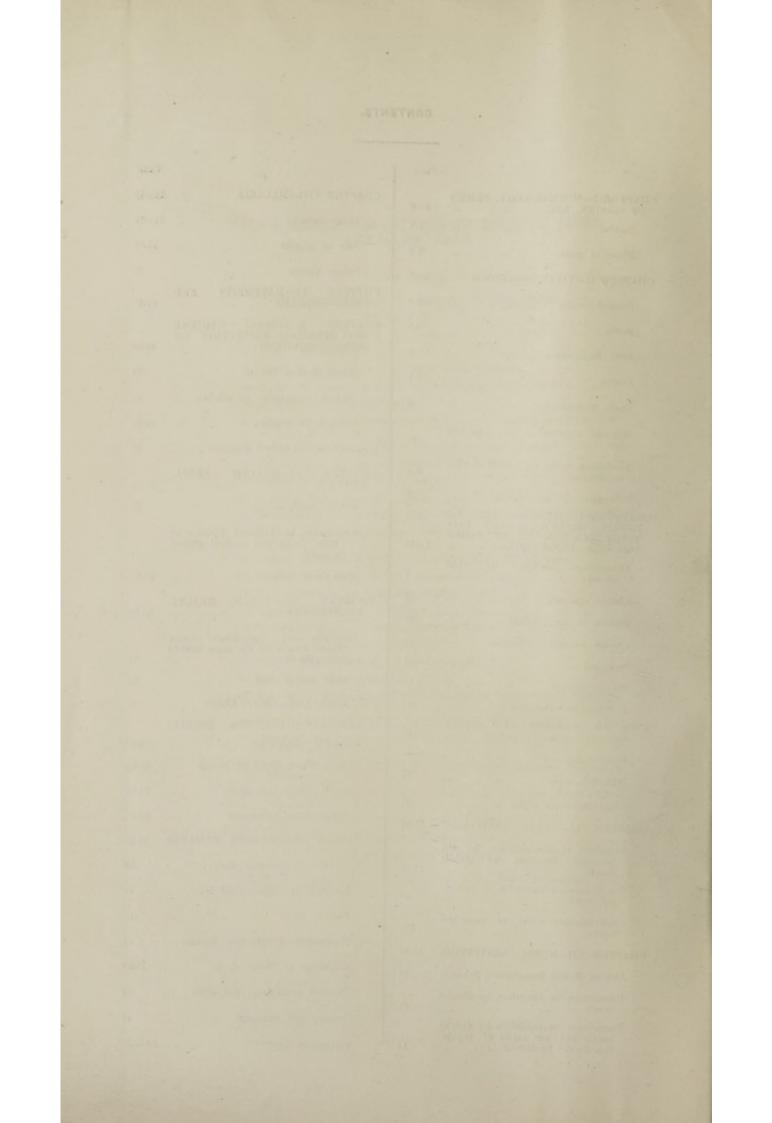
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ANNUAL PUBLIC HEALTH REPORT

OF THE

Province of Bihar for the year 1936.

CHAPTER I.

METEOROLOGY, PRICES OF GRAINS, ETC.

1. Rainfall.—The following short account of the meteorological conditions in the province during the year 1936 is taken from the report of the Director-General of Observatories :—

The total rainfall in January was in defect by 0.09" in Chota Nagpur and 0.19" in Bihar. The eastward passage of the disturbance caused fairly widespread rains in east central India on the 29th and rainfall extended into Chota Nagpur on the 29th and 30th and into Bihar on the last day of the month. The maximum temperature was below normal in Chota Nagpur and above in Bihar. The minimum temperature was below normal in the province while humidity was in defect throughout the province.

The total rainfall in February was in defect by 0.48" in Chota Nagpur and 0.50" in Bihar. The weather was cloudy during the month in almost all the parts of the province. Both the maximum and minimum temperatures were below normal in Chota Nagpur and above in Bihar and the humidity continued to be in defect.

The total rainfall in March was in defect by 0.40" in Chota Nagpur and 0.27" in Bihar. Thunderstorms occurred intermittently during the month in the east United Provinces. Both the maximum and minimum temperatures were above normal in the province and the humidity continued to be in defect.

The total rainfall in April was in defect by 0.64" in Chota Nagpur and 0.39" in Bihar. Air was drier than usual in Chota Nagpur and Bihar. Skies were less clouded than usual in Bihar. The maximum temperature was below normal in Chota Nagpur and above in Bihar. The minimum temperature was below normal in the province and the humidity continued to be in defect.

The total rainfall in May was in excess by 2.12" in Chota Nagpur and 0.26" in Bihar. Thunderstorms, sometimes attended with hail occurred intermittently during the first three weeks of the month in Chota Nagpur and Bihar. The total rainfall of the month was in large excess in Chota Nagpur and in slight to moderate excess in Bihar. Cloud amount was in excess in the province. The maximum temperature was below normal in the province. The minimum temperature was below normal in Chota Nagpur and above in Bihar. The humidity was in excess in Chota Nagpur and above normal in Bihar.

The total rainfall in June was in excess by 3.36" in Chota Nagpur and in defect by 1.25" in Bihar. Skies were more clouded than usual throughout the province. Both the maximum and minimum temperatures were below normal. Of the day to day march of temperatures may be mentioned the marked lowering, due to rain-cooling, of temperatures, particularly the maximum in Chota Nagpur between the 12th and 14th. Humidity was in excess in Chota Nagpur and normal in Bihar. The total rainfall in July was in moderate excess by 4.87" in Bihar and in slightly above normal by 1.22" in Chota Nagpur. A depression formed at the head of the Bay of Bengal early in the month and had passed inland across the Orissa coast by the 3rd morning. It became unimportant over Chota Nagpur three days later. A depression which formed off the Orissa-Ganjam coast on the 20th, crossed the Orissa coast near Puri three days later and, travelling across Orissa and the east Central Provinces, filled up over Bihar on the 26th. Floods were reported from North Bihar. Both the maximum and minimum temperatures were below normal and the humidity was above normal in the province.

The total rainfall in August was in defect by 0.88" in Chota Nagpur and 1.05" in Bihar. The maximum temperature was in defect in Chota Nagpur and above normal in Bihar. The minimum temperature was normal in Chota Nagpur and above normal in Bihar while the humidity was normal in Chota Nagpur and in defect in Bihar.

The total rainfall in September was in large excess by 7.77" in Bihar and in moderate excess by 3.14" in Chota Nagpur. The spell of strong monsoon in north-east India during the second week of the month caused widespread and locally heavy rain in Chota Nagpur and Bihar between the 10th and 12th, attended with severe floods in the rivers of Bihar causing widespread damage and distress. The towns of Gaya and Chapra were partly submerged and Patna was cut off from the rest of the country. Railway lines and roads in Bihar and Chota Nagpur were breached leading to serious dislocation of traffic. Both the maximum and minimum temperatures were in defect while the humidity was above the normal.

The total rainfall in October was in large excess by 2.77" in Chota Nagpur and in moderate excess by 1.19" in Bihar. Rainfall was exceptionally heavy on the 4th and intensive damage was reported to have occurred over a wide area in the province. Railway services as well as telegraphic and telephonic communications in Chota Nagpur and Bihar were seriously dislocated. Maximum temperature was in defect. The minimum temperature was in defect in Chota Nagpur and above normal in Bihar. The humidity was above normal in Chota Nagpur and in defect in Bihar.

The total rainfall in November was in slight excess by 0.06" in Chota Nagpur and in defect by 0.25" in Bihar. Skies were clouded than usual throughout the province. The maximum temperature was in defect in Chota Nagpur and above normal in Bihar. The minimum temperature was above normal in the province. The humidity was above normal in Chota Nagpur and in defect in Bihar.

The total rainfall in December was in large excess by 0.31" in Chota Nagpur and 0.28" in Bihar. Associated with the eastward passage of the disturbance, thunderstorm and rain was fairly widespread in Bihar and Chota Nagpur on the 19th and 20th. Scattered showers occurred intermittently during the month in Chota Nagpur. Both the maximum and minimum temperatures were above normal in the province. The humidity was above normal in Chota Nagpur and in defect in Bihar.

The total rainfall in the province during the year under report was 61.49", that is above normal by 10.81". These figures include the figures of Orissa from January to April 1936.

The total rainfall during the year in Bihar and Chota Nagpur was 60.44" and 62.21" respectively as against 43.98" and 49.77" respectively in the previous year.

2. Price of common grain.—The average price of common rice during the year varied from 9 seers in the district of Purnea to 17 seers 4 chittaks in Santal Parganas. But in the majority of the districts it remained over 12 seers as in the previous year. The following statement shows the average monthly price of common rice at the headquarters of the districts of the whole province for the year 1936.

Districts.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem: ber.
welling first \$1 story fit	Sr. ch.	Sr. ch.	Sr. ch.	Sr. ch.	Sr. ch.	Sr. ch.	Sr. ch.	Sr. ch.	Sr. ch.	Sr. eh.	Sr. ch.	Sr. ch.
Patna	11 0	11 0	10 12	10 8	10 8	11 0	11 0	11 0	11 0	11 2	11 0	11 14
Gaya	11 4	11 0	11 4	11 8	11 0	11 0	11 4	11 0	11 0	11 0	11 0	13 8
Shahabad	13 8	14 0	13 4	12 8	11 0	11 0	12 0	11 6	11 8	12 0	11 12	11 12
Saran	12 8	12 0	12 0	11 4	11 0	11 4	11 8	11 0	10 4	11 0	11 0	12 0
Champaran	12 0	11 0	11 0	10 0	10 8	10 0	10 0	10 0	10 8	11 8	12 4	13 4
Muzaffarpur	10 8	10 8	10 8	10 8	10 0	10 0	10 8	10 0	10 0	10 0	10 0	10 0
Darbhanga	10 14	11 0	10 8	10 4	94	9 12	. 10 8	10 0	10 0	10 0	10 0	10 8
Monghyr	10 8	10 6	10 8	10 8	10 6	10 0	10 0	10 0	10 0	10 2	10 0	10 4
Bhagalpur	, 11 12	11 12	11 4	11 4	11 61	12 0	10 10	11 4	11 14	11 4	11 14	13 8
Purnea	12 0	12 0	12 0	12 0	12 0	12 0	11 8	10 0	9 8	9 0	9 8	10 4
Santal Parganas	. 12 6	12 4	12 0	12 0	11 4	11 12	11 8	12 0	12 8	13 0	17 4	16 8
Hazaribagh	12 0	12 0	11 14	11 10	10 12	11 0	11 10	11 8	13 0	13 0	15 0	15 8
Ranchi	13 8	13 0	12 0	11 12	11 8	11 8	11 12	12 4	12 0	12 0	15 12	16 0
Palamau	12 0	12 0	12 0	12 0	11 8	11 12	11 12	11 0	12 8	12 0	12 0	13 8
Manbhum	12 0	12 0	12 0	11 12	11 0	10 12	11 8	11 0	12 8	12 0	15 0	16 8
Singhbhum	12 0	12 0	12 0	11 4	11 14	11 8	11 4	11 4	13 0	14 8	15 8	16 0

Statement showing the monthly average price of common rice (cheapest) at the headquarters markets of the districts of the province of Bihar for the year 1936.

The average price of common rice during 1933 and 1934 varied from 10 seers 2 chattacks to 27 seers 13 chattacks and 10 seers to 24 seers 10½ chattacks to the rupee respectively. The average price of common rice during the five years 1928—1932 ranged from 4 seers 3 chattacks to 23 seers 10 chattacks as compared with 4 seers to 19 seers 11 chattacks to the rupee in the previous quinquennium. It will therefore appear that the price of common rice steadily went down till 1934, when it showed a slight increase during 1935 and 1936.

CHAPTER II.

VITAL STATISTICS.

1. The population of the province at the census taken in February 1931 was 32,371,434. This figure has been used as usual to calculate the ratios in the report.

The mid-year population as ascertained by the natural increase method, i.e. by addition of excess of births over deaths from the 1st of July 1935 to 30th June 1936 was 34,293,254 as against 33,904,649 of the previous year. This figure cannot be regarded as quite accurate on account of errors due to emigration and immigration and due to faulty recording of births and deaths. Every year a large number of labourers emigrate from this province to Bengal and Assam but the figures of emigration and immigration are not available.

2 The estimated population for the year under review was 34,039,314 as against 33,705,738 of the previous year. This figure has been calculated on the assumption that the population has increased by arithmetical

progression. The following two statements record the estimated population in various age groups and also the ratios of births and deaths from the chief diseases calculated on the estimated population of 1936.

STATEMENT A.

Population according to age group of the province of Bihar.

1		2		3		4		5	6	6	
10-10 A. 10	Under	l year.	One and under 5 years.		5 and under 10 years.		10 and under 15 years.		15 and under 20 years.		
	Male.	Female.	Male,	Female.	Male.	Female.	Male.	Female.	Male.	Females	
Census, 1921	428,171	430,762	1,242,286	1,359,885	2,379,710	2,288,361	1,839,157	1,512,999	1,218,397	1,124,128	
Census, 1931	389,476	396,266	1,996,260	2,110,112	2,330,522	2,129,096	2,005,728	1,767,032	1,322,530	1,361,558	
Decennial increase or decrease.			+753,974	+750,227	49,185		+166,571	+254,033	+1,041,133	+237,430	
Annual increase or decrease, 1936	- 19,345		+376,985	+375,115			+ 83,285	+127,015	+ 52,065	+118,715	

2 1 a. a.	1 7 20 and under 30 years.		8 30 and under 40 years.		9 40 and under 50 years.		10 50 and under 60 years.		11 60 years and upwards.	
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
Census, 1921	2,238,042	2,509,809	2,119,934	2,208,112	1,473,372	1,458,625	818,288	851,054	655,716	876,508
Census, 1931	2,763,352	2,894,276	2,347,958	2,314,501	1,595,753	1,513,295	904,766	913,225	594,542	727,186
Decennial increase or decrease.	+525,310	+384,467	+222,024	+106,389	+122,381	+54,670	+86,478	+62,171	-61,174	-149,322
Annual increase or decrease, 1936	+262,655	+192,235	+111,013	+53,195	+61,190	+27,335	+43,240	+31,085		-74,660

STATEMENT B.

Ratios of births and deaths from chief diseases calculated on the estimated population of 1936.

		1	Male.	Female.	Total.	
Births		 	17.3	16.3	33.6	
Total deaths	dia	 	21.6	19.6	20.6	
Cholera		 	0.2	0.2	0.2	
Small-pox		 ·	0.7	0.6	0.7	
Plague		 	0.03	0.04	0.04	
Fevers		 	16.8	15.4	16.1	
Dysentery and	Diarrhoea	 	0.1	0.08	0.09	
Respiratory dis	eases	 	0.1	0.08	0.09	

3. Births.—The total number of births in this province during 1936 was 1,144,008 (587,616 males and 556,392 females) as compared with 1,108,571

in 1935. This means an increase of 35,437 births or 1.1 per thousand population during the year over those recorded in the preceding year. The provincial birth-rate for the year 1936 was 35.3 as compared with 34.6 in 1935. The average birth rate for the last 10 years was 33.6.

The statement below gives figures regarding birth rates in other provinces of India.

Province.				Birth rate per mille of popula- tion, 1936.
Bihar		 		85.84
Orissa		 	,	36.63
Bengal		 		33.53
United Provinces		 		38.99
Central Provinces -		 		42.50
Punjab		 		46.85
Bombay		 		41.40
Madras		 		37.76
Burma		 		84.27
Assam		 n or i		30.24
North-West Frontier	Province	 		32.64
Sind		 		20.52

4. Birth Registration.—The highest birth-rate 45.8 was recorded in the Gaya district and lowest birth rate 23.6 in the district of Singhbhum. The municipalities of Tikari, Revelganj and Lalganj registered the highest birth rates, namely 42.3, 41.3 and 40.0 respectively whilst the municipalities of Jamshedpur, Deoghar and Sahebganj registered the lowest rates, viz., 3.5, 7.1 and 7.6 respectively.

The rural and urban areas of the province recorded 1,113,921 and 29,813 births, the mean birth rates for these areas being 35.9 and 22.5 per mille population respectively.

The majority of the districts and the towns recorded birth rates near the mean figures and the average rate is not affected to any appreciable extent because exception of both high and low rates are few and variations occur amongst comparatively small population.

5. Deaths.—The total number of deaths in the province during the year under review was 701,814 (369,974 males and 331,840 females) as compared to 786,710 in the previous year. Out of these, the rural areas recorded 683,439 deaths and the urban areas 18,375. The total deaths show a decrease of 84,897 deaths or 2.6 per mille of population over those recorded in the preceding year. The provincial death rate for 1936 was 21.7 as compared with 24.3 in 1935. The average death rate for the last ten years was 23.3. The statement below shows comparative rates in other provinces :—

Province.			Death rate per mille of popula- tion, 1936.
Bihar	 	 	21.68
Orissa	 	 	27.84
Bengal	 577	 	24.50
United Provinces	 153	 	22.61

Province.			Death rate per mille of popula tion, 1936.
Central Provinces		 	 34.89
Punjab		 	 23.97
Bombay		 	 27.75
Madras		 	 23.30
Burma		 	 21.84
Assam		 	 19.63
North-West Frontie	r Province	 	 17.92
Sind		 	 12.49

6. Death Registration.—The highest death rates were recorded in the districts of Palamau, Purnea and Bhagalpur as 26.0, 25.1 and 24.3 respectively, whilst the lowest were recorded in Manbhum and Santal Parganas districts as 18.0 and 18.2 respectively. Amongst the towns in the province the highest death rates were recorded in Gaya (32.4), Hajipur (21.5), Chapra (21.3) and lowest in Katihar (2.6), Dumka (3.3) and Dumraon (3.5).

The average death rate of the rural areas was 22.0 and of the urban areas 13.7. Thus the rural death rate was higher than that of the urban area by 8.3.

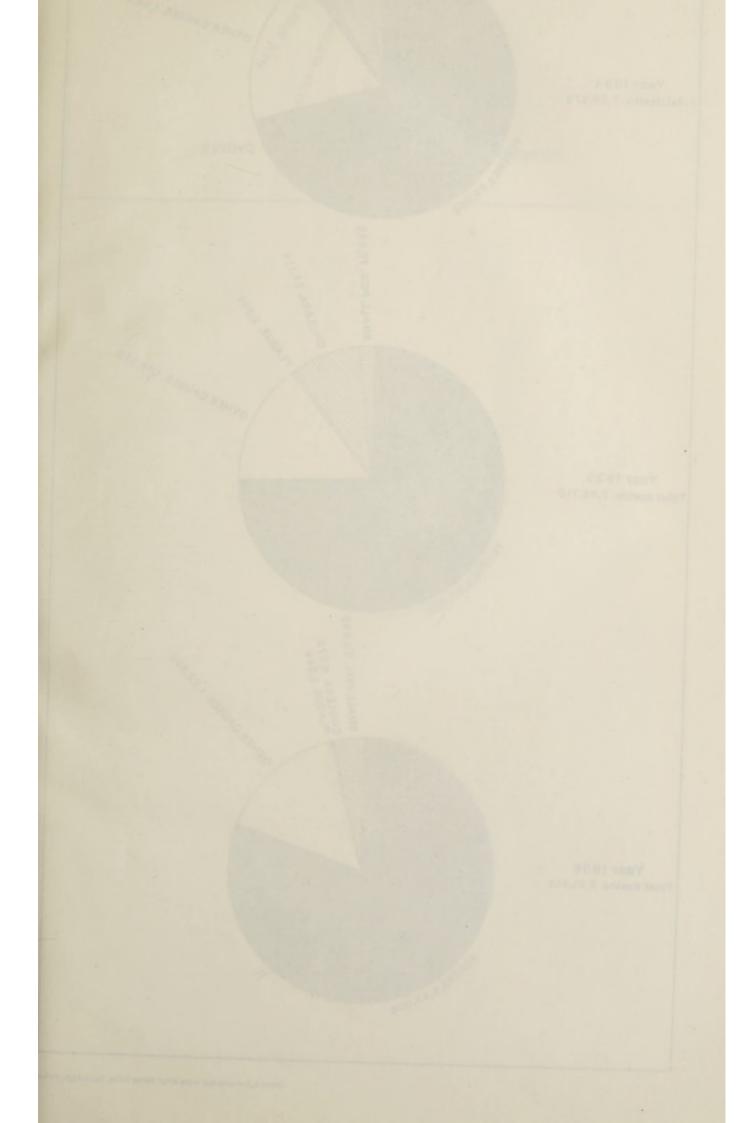
The rate of increase in the population, i.e., the excess of birth rate over the death rate in the province was 13.6 as compared with 9.9 in the previous year.

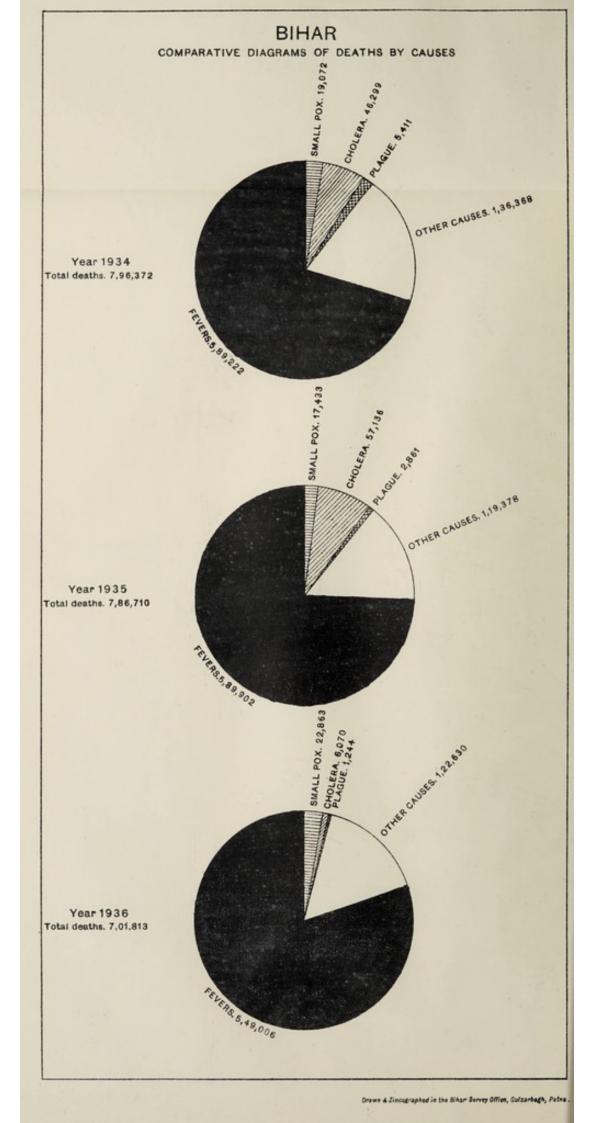
7. Mortality according to age, class and sex.—The mortality rate based on the census figures of 1931 was 191.2 for male infants and 152.6 for female infants under one year of age per mille population as compared with the corresponding figures of 181.7 and 147.6 in the previous year. But when calculated from the actual births recorded in 1936 the mortality for infants under one year was found to be 126.7 for males and 108.7 for females per mille with the total infant mortality rate of 118.0 per mille as against the corresponding total of 116.6 in 1935. With the termination of the first year of life the rate fell to 37.7 for males and 33.0 for females as compared with the corresponding fall to 45.5 for males and 40.0 for females in the previous year. As usual the total mortality amongst males was higher than that amongst females in the ratio of 111 to 100.

There was, as usual, considerable differences in the death rates amongst the different communities. The death rate was highest amongst Hindus (22.1) and lowest amongst Buddhists (3.8). The Muhammadan death rate was 20.0, the Christian death rate was 13.3, and that of other classes 20.8.

8. Verification of the registration of vital occurrences.—Registration of vital occurrences is compulsory in all the municipalities of the Province. The accuracy of 21,141 vital occurrences was investigated and verified by the health officers and by the officers of the Vaccination Department. One hundred and sixty-one omissions were detected, 115 prosecutions were instituted and 93 convictions were obtained. The registration of vital occurrences is not compulsory in rural areas. The reporting agency in the rural areas as also in most municipalities is the police. The village chaukidars attend their respective thanas on parade day, perhaps more frequently when there is an epidemic to report the vital occurrences of their respective villages. This system although it prevails in every part of India remains defective, specially with regard to the correct classification of the causes of deaths. The diagnosis of the disease lies with the village chaukidars who are mostly illiterate and as they have to depend entirely on what they are told by the members of the family, it is obvious that a classification based on such diagnosis cannot be accurate.

An attempt has been made during recent years to transfer the responsibility of collection, tabulation and verification of the vital occurrences to





the staff of the bigger municipalities, namely Patna City and Ranchi. A partial transfer has also been affected in Gaya, Chapra and Muzaffarpur municipalities, where both the municipality and police report these statistics separately. The figures thus supplied by the police and those by the municipal health staff are compared and cases of under and over reporting are verified. The results show that the figures collected by the staff of the municipalities are more accurate and it is expected that as more and more municipalities appoint their health officers they will be in a position to assume the responsibility of collecting and registering accurate vital statistics.

Verification of vital statistics in rural areas.—In rural areas 161,087 vital occurrences were verified by the vaccination staff as against 155,911 in 1935. Verification of vital statistics in rural areas is very difficult specially in the districts which do not maintain complete health organisations under district health officers. The district health officers, where such officers exist, check the figures supplied by the vaccinators and the Civil Surgeons compare the figures supplied by the police with those furnished by the health officers.

9. Publication of vital statistics.—The weekly publication of vital occurrences for all the municipal towns in the Province with a population of over 20 thousand continued, as usual, throughout the year.

Weekly epidemic reports from all the districts, showing attacks and deaths from cholera, small-pox, plague and influenza, were published regularly in the *Bihar Gazette* and also in some of the important newspapers.

By the publication of these statistics the general public is kept informed of the actual state of health of the larger towns and of the prevalence of epidemic diseases in the districts. Publicity of this kind also demonstrates the utility of vital statistics and helps to create an interest in the mind of the people for general public health.

CHAPTERS III AND IV.

STATE OF PUBLIC HEALTH IN THE PROVINCE AND HISTORY OF THE CHIEF DISEASES-EPIDEMIOLOGY.

1. Comparative incidence of the chief diseases.—The undermentioned statement compares the ratios under the chief heads of mortality in 1936 with the average ratio of the previous ten years :—

	Urba	an.	Rur	d.	Combined.		
	Ten years' average.	1936.	Ten years' average.	1936.	Ten years' average.	1936.	
Cholera	 0.9	0.1	1.6	0.2	1.6	0.2	
Small-pox	 0.6	0.7	0.5	0.7 -	0.5	0.7	
Plague	 0.08	0.1	0.2	0.03	0.2	0.04	
Fevers	 7.1	5.5	17.2	17.4	16.8	16.9	
Dysentery and Diarrhoea	 0-6	0.5	0.1	0.08	0.1	0.1	
Respiratory diseases	 0.5	0.6	0.07	0-07	0.09	0.1	
Injuries	 0.5	0.5	0.3	0.3	0.3	0.3	
All other causes	 4.4	4.7	3.4	8.2	3.5	3.3	
Total	 14.7	13.7	23.4	22.0	23.0	21.7	

The death rate has decreased from 24.3 in 1935 to 21.7 per mille population in 1936. The decrease in the number of deaths was due chiefly to comparatively less number of deaths from cholera and fevers, the death rates being 0.2 and 16.9 as against 1.8 and 18.2 of the previous year.

The highest death rate 16.9 was recorded from fevers but in the absence of any arrangement to report correct diagnosis it is not possible to say what percentage of deaths under fevers is definitely due to malaria.

The urban death rates for cholera and fevers were lower than those of the rural areas. This is ascribed to better standard of sanitation in the municipal towns, but the mortality rate from the respiratory disease still remains higher in the urban areas. The incidence of pulmonary tuberculosis is reported to be increasing in many of the bigger towns. This disease together with influenza and pneumonia appears to be mainly responsible for the increased mortality rate from respiratory diseases. Control of tuberculosis particularly in towns is necessary.

2. Cholera statistics.—The death rate from cholera decreased from 1.8 per mille in 1935 to 0.2 per mille in 1936. The districts of Manbhum, Santal Parganas and Hazaribagh recorded the highest death rate, viz. 0.9, 0.4 and 0.4, respectively. Amongst the towns Deoghar (1.4), Purulia (0.4) and Jhalda (0.4) reported highest death rates.

3. Cholera in the Province.—The year 1936 proved a favourable year for cholera. The total number of deaths from this disease in 1936 was 6,070 as compared with 57,136 in 1935.

A comparative study of mortality figures from cholera, district by district, from 1929 to 1936 further shows that cholera generally begins late in the summer in the districts of South Bihar and remains present till the advent of the winter months, but the disease begins early in the summer months in the districts of North Bihar and dies out by the end of the monsoon period. The bad year of cholera generally recurs after every five or six years and the highest intensity of the epidemics in the districts of South Bihar and in those of North Bihar occurs in two different but consecutive years. Cholera was widely prevalent in certain districts of South Bihar and Chota Nagpur, viz., Patna, Gaya, Shahabad and Palamau in 1930. The year 1934 proved again a bad cholera year for the abovementioned districts in South Bihar and Chota Nagpur while the districts of North Bihar were comparatively worse affected in 1935.

4. Cholera preventive measures.—With the growth of public health organisations in districts there is rapidly being created in those districts which employ health officers, an efficient and well trained staff to deal with the outbreak of cholera as soon as they occur. Ten district boards continued to maintain health officers with a suitable subordinate health staff. There were, as usual, fewer demands for epidemic doctors to combat cholera from these districts. But when the outbreak became widespread and the district staff were unable to cope with the situation, temporary epidemic doctors had to be detailed from this department. Twenty-eight Government epidemic doctors were detailed on epidemic duty during the year in the cholera and malaria affected areas of the districts.

Stock of disinfectants such as bleaching power, permanganate of potash and also cholera bacteriophage are kept in reserve by the district boards. If required, the Civil Surgeons also requisition for these disinfectants and drugs from the Director of Public Health, who also supplies these disinfectants to the local bodies in cases of emergency. Anti-cholera inoculation has now become a popular preventive measure and Government maintain a large stock of cholera vaccine at the Vaccine Depot, Namkum. The Superintendent, Vaccine Depot, is generally asked by telegram to despatch the vaccine immediately when it is required in the Province. The number of doses of cholera vaccine issued during the year was 288,930 against 945,665 doses issued last year. The use of choleraphage for the prevention and treatment of cholera is dealt with in Chapter XIV. 5. Small-pox.—The total number of deaths from small-pox during 1936 was 22,863 as compared with 17,433 in 1935. The mortality rate for the year 1936 was 0.7 as against 0.5 in the previous year. From 1925 to 1936, the mortality rate from small-pox rose high during 1927 and 1933. The lower death rate from small-pox in 1935 is attributed to the immunity conferred by the extensive vaccinations and re-vaccinations carried out during the year 1933 when a small-pox epidemic prevailed in the province and the death rate rose to 1.1.

As usual the rural areas suffered more than the urban areas and the highest death rate was registered in the districts of Purnea (2.0) and Shahabad (1.6) while the districts of Ranchi, Champaran and Muzaffarpur returned the lowest death rates, namely 0.05, 0.1 and 0.1. Amongst the towns Roserah, Chaibassa and Jamalpur reported highest death rates, viz., 5.6, 2.6 and 2.4 respectively.

Primary vaccination is compulsory under the Bengal Vaccination Act in all the municipal towns of the province and the rural areas of the districts of Patna, Gaya, Muzaffarpur, Saran, Champaran, Darbhanga, Purnea, Bhagalpur and Hazaribagh. All these districts except Hazaribagh have health organisations under district health officers. With the extension of section 92 to 96 of the Local Self-Government Act, the control of vaccination has been handed over to the local bodies who have taken up health organisation schemes and the health officers of the district boards of Gaya, Shahabad, Saran, Muzaffarpur, Purnea, Darbhanga, Patna, Champaran and Bhagalpur have been appointed Superintendents of Vaccination. The inspection of vaccination is now done by the district health staff in these districts and Government vaccination inspecting staff have been withdrawn. The Civil Surgeons still exercise the powers of the Superintendents of Vaccination in places where the local bodies have no health officers. Government exercise control over the administration of vaccination in the province through the Assistant Directors of Public Health who make annual vaccination inspection tours and submit special reports on this work. To make supervision of vaccination still more effective, Government have appointed three Special Vaccination Inspectors to work under each of the three Assistant Directors of Public Health. In addition to the inspection work, the Special Inspectors of Vaccination assist in organising the vaccination work in the districts where the Compulsory Vaccination Act has been introduced and also push on vaccination at places where small-pox breaks out in an epidemic form. It is expected that in the near future all the districts of the province will take over direct control of this important public health measure.

The vaccine lymph manufactured at the Vaccine Depot, Namkum, is supplied throughout the province free of cost. 1,586,143 vaccination operations were performed in the province during the year under report. Out of these 983,735 were cases of primary vaccination and 602,408 were those of re-vaccination. Although it is a known fact that vaccination definitely checks the incidence of small-pox, the rate of mortality from the disease tends to show sharp rises at times. This is due to the fact that a large number of children escape even primary vaccination and thus remain unprotected. Besides, the immunity conferred by primary vaccination passes off within six to seven years. It is, therefore, quite clear that so long as vaccination and also re-vaccination are not made compulsory throughout the province, the incidence of small-pox will continue.

6. Plague Statistics.—There were 1,245 deaths from plague in the province during the year under report as compared with 2,861 in the previous year, and the death rate was 0.04 as compared with 0.09 in the previous year. There are certain isolated tracts in the districts of Champaran, Saran, Muzaffarpur, Darbhanga and North Monghyr where plague starts almost every year with the approach of the winter season, reaches its maximum intensity during February and March and declines with the advent of the summer months. The district of Saran with 884 deaths recorded the highest death rate (0.3) followed by Muzaffarpur (0.07) and Champaran (0.07).

In the district of Champaran, plague was responsible for 146 deaths in 9 villages during this year. The town of Bettiah also remained infected with plague almost throughout the year with the exception of a short period during the months of August and October and reported 119 deaths as against 115 deaths in the preceding year.

A Government epidemic doctor was detailed on plague duty in Bettiah town and the district board health staff did plague duty in Bettiah and Bagha thanas.

In the district of Saran, the epidemic of plague in January 1936 was practically in continuation of the epidemic of 1935. The three Assistant Health Officers carried out anti-plague inoculations. As the epidemic increased an extra staff of two doctors, five Health Inspectors, and 22 sanitary jamadars were appointed by the district board. There were 884 deaths during the year as against 1,470 in the previous year. 20,472 anti-plague inoculations were performed and the usual measures of disinfection with Kerosine oil were carried out.

In Muzaffarpur, the disease was confined, as usual, to parts of Hajipur and Sadr subdivisions. The epidemic was milder than that of the previous year. 209 deaths were recorded this year as against 519 of the previous year. Anti-plague inoculations 3,780 in number were carried out by the medical officers of the dispensaries and the public health doctors of the district board.

In Darbhanga, only 5 deaths from plague were recorded during the year under report as against 446 of the previous year. The disease remained confined to the Samastipur subdivision.

No case of plague was reported from Monghyr district during the year although Beguserai subdivision had been recording this disease every year.

7. Dysentery and Diarrhoea.—There were 3,118 deaths from this group of disease as against 4,044 deaths in the preceding year and the mortality rate was 0.1 as against 0.1 in the previous year. The towns which recorded highest death rates were Lalganj (1.6), Jamalpur (1.5) and Barh (1.3).

CHAPTER V.

FAIRS AND FESTIVALS.

1. A large number of *melas* are held every vear in different parts of the province. Many of these *melas* are purely of local interest and are attended by the people of the district in which they are held and of the adjoining districts. Many of these are cattle fairs which are held during the religious festivals. The two sacred towns, Gaya and Deoghar attract pilgrims throughout the year. The Pitripaksha *mela* usually held at Gaya in the month of September, is visited by the largest number of pilgrims in South Bihar. The Sonepur fair also known as Harihar Chatra is annually held in the month of November in the district of Saran and lasts for a fortnight. This *mela* is considered as one of the largest cattle fairs of the world and is usually attended by about two lakhs of visitors.

2. The Sonepur fair, the biggest fair in India, started on the 24th November 1936 and lasted for a fortnight. The fair is famous for cattle, horses and elephants. The number of people visiting the fair has been gradually decreasing. About one lakh pilgrims came to Sonepur on the bathing day, which fell on the 28th November and about one and a half lakhs of people visited the place during the *mela* period. Besides 560 elephants. 2,060 horses and 34,006 cattle were brought for sale in the *mela* area. Special sanitary arrangements as in the previous years were made by the Public Health Department in conjunction with the district board health staff. The whole *mela* area was, as usual, divided into three health circles and each circle was placed in charge of a medical officer deputed by the district board. Each one of these officers was assisted by subordinate staff deputed by the district board. All the 65 wells in the *mela* area were dewatered and disinfected twice before the commencement of the fair and they were regularly chlorinated during the mela period. The drinking water-supply was mainly from the Government Waterworks by means of pipes and standposts throughout the mela area. No scarcity of drinking water was reported this year. Arrangement was also made to render the water of Mahura and Mahi rivers unfit for drinking by constant chlorination of the former and by oiling the latter during the mela period. No case of cholera was reported from the mela area this year.

The health staff delivered 12 lectures, illustrated with magic lantern slides on public health subjects. Printed leaflets on public health subjects in different vernaculars were widely distributed among the visitors and illustrated posters were also pasted at prominent places. 302 prostitutes camped in the *mela* area this year against 243 in the previous year. A constant watch was kept by the health staff over the prepared articles of food sold in the *mela* area. To keep down the dust nuisance, two motor lorries and six watering carts were regularly used.

3. The Pitripaksha *mela* at Gaya commenced on the 30th September and ended on the 15th October 1936. 56,992 pilgrims visited Gaya during the period as compared with 67,442 in the last year. The pilgrims, as usual, were chiefly accommodated in the lodging houses and Dharamshalas. The sanitary arrangements were made on the lines as in the previous year. The whole of the *mela* area received pipe water-supply every day during the *mela* period. As the tap water-supply was quite sufficient, the wells were hardly used, but as a precautionary measure, all the wells in the lodging houses as well as those on the road sides within the *mela* area were regularly disinfected. During the *mela* period the town remained free from epidemics. S cases of cholera occurred amongst the pilgrims of whom 3 died. These cases were promptly removed to the cholera hospital for treatment.

4. Of the other important *melas*, Bhadra Purnima and Shivaratri *melas* at Deoghar and the Singheshwar *mela* at Bhagalpur may be mentioned. About 10.000 pilgrims occupy the lodging houses and camping ground sheds during the *mela* periods in Deoghar. There has been a steady decrease in the number of pilgrims visiting Deoghar during the last four years.

The places of Pilgrimage Act is in force at Deoghar and Jasidih Bazar since 1920 and 78 licenses were issued under the Act for accommodation of 3,103 lodgers. The usual sanitary and water-supply arrangements made for the *mela* were found satisfactory. A special medical officer was, as usual, detailed from the Public Health Department for the *mela* period. A whole time health officer is considered necessary for the Deoghar municipality who can also look after the sanitary arrangement of the *mela* area.

The Singheshwar *mela* attracts about 30,000 people during Shivaratri. A large number of elephants, cattle and horses are brought for sale in the *mela*.

Besides, numerous other fairs are usually held in the province. In the districts where health organisations exist, sanitary arrangements are made on these occasions by the local bodies under the direct supervisions of the District Health Officers. The important *melas* are also attended by the Assistant Directors of Public Health who help the local bodies in organising the sanitary arrangements. Special epidemic doctors are detailed by the Public Health Department where their services are requisitioned.

CHAPTER VI.

URBAN SANITATION.

1. 27 out of 53 municipalities in the province were inspected by the Assistant Directors of Public Health during the year under review and reports of these inspections were duly submitted to Government. Most of these municipalities do not employ health officers on grounds of financial stringency and so long as their financial condition remains the same, the prospect of employment of suitably qualified health officers by them appears to be a remote possibility.

The towns of Gaya, Patna, Ranchi, Bhagalpur and Darbhanga continued to employ full time health officers. The health officers of the first three towns mentioned above belong to the provincial public health cadre and are paid by Government while the latter two receive their pay from the municipal fund.

As the sanitary condition of the town of Monghyr was disorganised after the earthquake, a health officer at first lent by Government but later on as the condition improved the officer was withdrawn and the municipality appointed a health officer of its own. This officer was discharged in 1935 by the municipality owing to financial stringency. It is regretted that the services of a health officer could not be permanently retained by this municipality.

The necessity of appointment of health officers in the larger municipalities such as Chapra, Monghyr, Arrah, Purulia, Hazaribagh, Jamalpur and Bihar has long been felt and had been stressed for number of years in the Public Health Reports. The town of Deoghar being an important pilgrim centre, usually attracts a large number of visitors from all over India. It is important that a Health Officer should be appointed to look after the sanitation of this town. The Assistant Directors of Public Health have also recommended time and again, in their inspection reports the desirability of appointing health officers for these municipalities. Sanitary Inspectors by reason of their limited training are not considered qualified enough to undertake the work of health officers, nor are they capable enough to carry out effective preventive measures during epidemics. It is for this reason that the municipalities which do not employ health officers frequently make requisitions for Government epidemic doctors.

Compulsory primary vaccination under the Bengal Vaccination Act is enforced in all municipal towns of the province and the Civil Surgeons are the Superintendents of Vaccination. But in the municipalities of Patna. Gaya, Ranchi, Bhagalpur and Darbhanga which employ fully qualified health officers the responsibility of control of vaccination has been transferred to the municipal commissioners and the health officers of these municipalities have been appointed as Superintendents of Vaccination under section 268 of the Bihar and Orissa Municipal Act, 1922.

Most of the recommendations made by the Assistant Directors of Public Health in their inspection reports involving small expenditure were carried out by the municipalities themselves, but recommendations with regard to bigger schemes and major public health projects for improved drainage and slum clearance, etc., have to wait till the finances of these bodies improve.

2. Expenditure on sanitation in municipal towns.—The statement below shows the receipts and expenditure for sanitary purposes during the year 1935-36 as compared with those of the previous year :—

No. of municipali- ties.	inclu	receipt ading balance.	Heads of expenditur				diture to	of expen- the total eipts.
	1934.35.	1935-36.			1934-35.	1935-36	1934-35	1935-36.
	Rs.	Rs.			Rs.	Rs.		
58	72,29,436	66,67,359	Conservanc	y	10,69,059	10,48,308	14.8	15.7
			Dramage	· ···	3,94,924	3,84,603	5.5	5.8
			Water-supp	ply	6,15,424	4,72,285	8.5	7.1
			Vaccination	n	14,061	13,808	0.2	0.2
			Epidemics		17,591	17,181	0.2	0.2
			Markets fairs,	and	40,797	32,279	0.6	0.5
		-	Other charges-	sanitary	10,636	22,511	0.1	0.3
			Public Staff.	Health	70,776	61,861	1.0	0.9
			Total		22,33,268	20,52,786	30.9	30.8
	*Contag	ious disease	s hospital		2,83,176	2,42,585		

*This represents cholera hospitals and leper asylums, etc. An expenditure of Rs. 2,42,535 has been incurred in 1935-36. The expenditure ismainly met from Government grants.

3. Chief sanitary works in municipal towns.—The details of expenditure under this head are dealt with in the report of the Superintending Engineer, Public Health Circle.

CHAPTER VII.

RURAL SANITATION.

1. The health organisation scheme continued to function in 10 out of 16 districts, namely Patna, Gaya, Shahabad, Muzaffarpur, Saran, Champaran, Darbhanga, Bhagalpur, Purnea and Manbhum. The primary aim of this organisation is to prevent the occurrence of epidemic diseases and diffuse knowledge of elementary hygiene and sanitation among the rural masses. Each of these districts has a qualified health officer with the requisite number of subordinate health staff. Some of these districts have also Assistant Health Officers of L.M.P. qualification who are posted at the subdivisional headquarters. Under this scheme the districts are usually divided into a number of circles consisting of one or two thanas. Each of these circles is put in charge of a trained health inspector. The health officers of the district boards of Gaya, Muzaffarpur, Saran, Bhagal-pur, Darbhanga, Champaran and Shahabad belong to the Public Health Cadre of the province and they draw their salaries from the provincial budget while the health officers of the district boards of Patna, Purnea and Manbhum are the servants of the board and draw their pay from the board's funds. Patna and Muzaffarpur district boards receive contribution from Government for their health organisation schemes. Previously the Civil Surgeons were entirely responsible for the control of vaccination as Superintendents of Vaccination and Government inspecting officers (inspectors and sub-inspectors of vaccination) were employed to check the work of the vaccinators. But with the introduction of the health organisa-tion scheme in some of the districts, it has been possible to transfer the responsibility of vaccination to the district boards. The health officers of these districts have been appointed Superintendents of Vaccination and the Government vaccination inspecting staff have been withdrawn from such districts.

The Bengal Vaccination Act has been enforced in the rural areas of the districts of Patna, Gaya, Muzaffarpur, Saran, Champaran, Darbhanga, Bhagalpur, Purnea and Hazaribagh. Vaccination is not compulsory in the remaining districts of the Province.

Introduction of the health organisation scheme with a qualified health officer is considered to be an urgent necessity for every district board. Without a health officer in the district, efficient supervision of the work of the subordinate health staff and effective control of epidemics can hardly be possible. It is regretted that the district boards of Monghyr, Ranchi and Hazaribagh have not yet been able to give effect to the suggestion for the employment of health officers. The district boards which have not adopted the health organisation scheme usually maintain a certain number of health staff which is increased temporarily during the time of epidemics. But as soon as an epidemic becomes serious they generally requisition for Government doctors. This means delay and the districts which have no health officers are naturally handicapped to take immediate steps to combat epidemics, in the proper way.

2. Expenditure on sanitation by district boards.—The following statement shows the receipt and expenditure of district boards under the principal headings of sanitation :—

Number Total receipt in- of cluding opening district balance. boards.		Heads of expenditu	re.			Percentage of expendi- ture to the local receipts.			
	1934-35.	1935-36.			1934-85.	1935-36.	1984.85.	1935-36.	
	Rs.	Rs.			Rs.	Rs.			
15 1	,75,84,940	1,86,75,861	Conservancy		2,71,750	2,59,747	1.5	1.4	
			Drainage		4,013	4,189	0.02	0.02	
			Water-supply		2,19,963	1,39,484	1.2	0.7	
			Vaccination		18,495	13,263	0.1	0.07	
			Epidemics		1,03,181	92,618	0.6	0.5	
			Markets and fairs		20,137	21,553	0.1	0.1	
			Iotal		6,37,539	5,30,954	8.6	2.8	

	Income of financial year.								Expenditure			Expenditure			Expendi- ture per capita			Expendi- ture per capita		er		
District.		Income d 1935-3		-	Balance in of the prec year.	edi		Tota	1.		on gen sanitati	eral		on drainag water-su	zo a	nd	inel w	udi ate ly	ng r- and	exc wa	ilud ter-	ling
	196	Rs.	a. p	h.	Rs.	a.	p.	Rs.	a.	р.	Rs.	a.	p.	Rs	. a.	p.	Rs.	a.	p.	Rs.	a.	p.
Patna		11,90,921	0 (0							49,810	0	0	16,026	0	0	0	0	8	0	0	6
Gaya		16,22,262	0 0	0	2,48,799	0	0	18,71,061	0	0	54,216	0	0	5,755	0	0	0	0	5	0	0	9]
Shahabad		7,152	7 (0	617	1	5	7,769	8	9	1,089	11	0	2,832	8	3	11.6		- 1			
Saran											24,976	1	2	6,948	13	9	0	0	21	0	0	2
Champaran		9,19,131	4 (0	1,23,336	0	0	10,42,467	0	0	18,203	0	0	12,351	5	1	0	0	2}	0	0	1
Muzaffarpur		18,82,487	0 0	0	1,38,518	0	0	20,21,005	0	0	29,000	0	0				0	0	31	0	0	1
Darbhanga		15,12,872	0 (0	4,25,346	0	0	19,38,218	0	0	31,042	2	10	31,097	14	3	0	0	4	0	0	2
Monghyr		11,21,468	0 (0	1,00,328	0	0	12,21,796	0	0	12,041	0	0	21,068	0	0	0	0	3	0	0	1
Bhagalpur		9,58,331	0 0	0	2,16,321	0	0	11,74,652	0	0	7,436	0	0	4,715	0	0	0	0	1	0	0	0
Purnea		10,92,286	0	0	4,01,009	0	0	14,93,295	0	0	39,170	0	0	11,364	0	0	0	0	31	0	0	1
Santal Parganas		10,705	0	0	1,500	0	0	12,205	0	0	12,205	0	0	3,723	0	0	0	0	$0\frac{1}{6}$	0	0	0]
Hazaribagh		9,54,221	0	0	47,789	0	0	10,02,010	0	0	531	0	0	2,388	0	0	0	0	01	0	0	0
Ranchi		3,83,283	0	0	49,479	0	0	4,32,762	0	0	3,053	0	0	4,005	0	0	0	0	1	0	0	03
Palamau		3,85,052	0	0	79,210	0	0	4,64,262	0	0	4,591	0	0	3,241	0	0	0	0	14	0	0	1
Manbhum		7,11,786	0	0	1,00,832	0	0	8,12,618	0	0	9,645	0	0	4,682	0	0	0	0	1	0	0	1
Singhbhum		2,73,325	0	0	64,522	0	0	3,37,847	0	0	282	0	0	3,835	0	0	0	0	1	0	0	1

Statement of expenditure on sanitation by district boards and per capita of population district by district.

It will be seen from the above statement that the expenditure on sanitation by district boards, although some of them are in receipt of Government grants towards the maintenance of a health organisation scheme in their districts, is too little to provide for adequate public health amenities to the people.

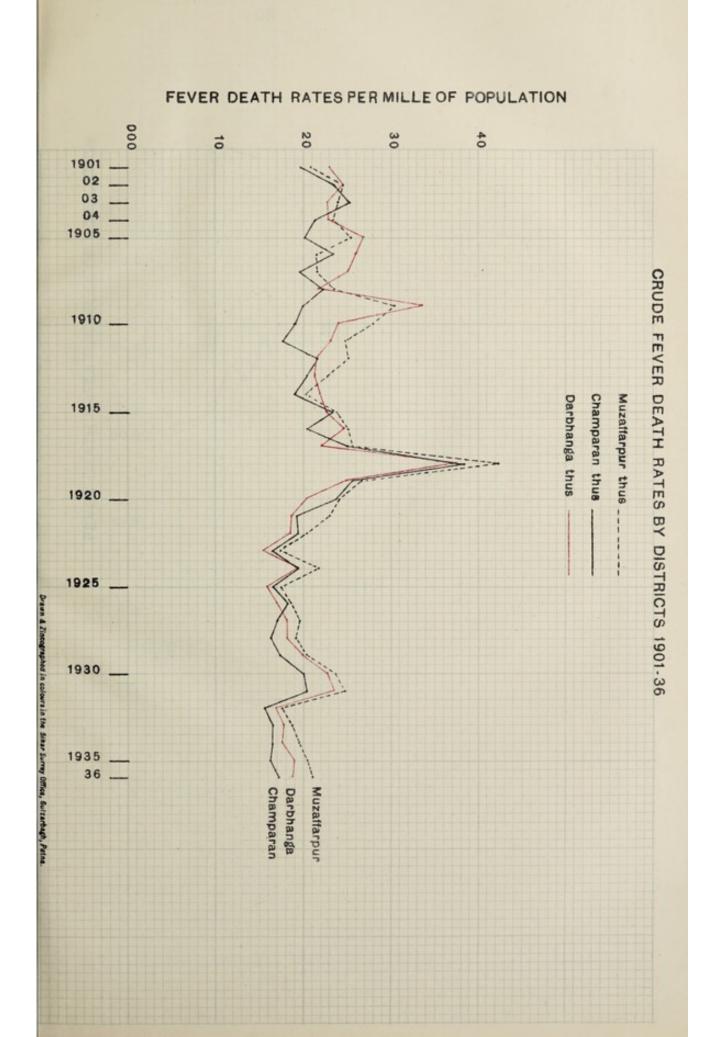
CHAPTER VIII.

MALARIA.

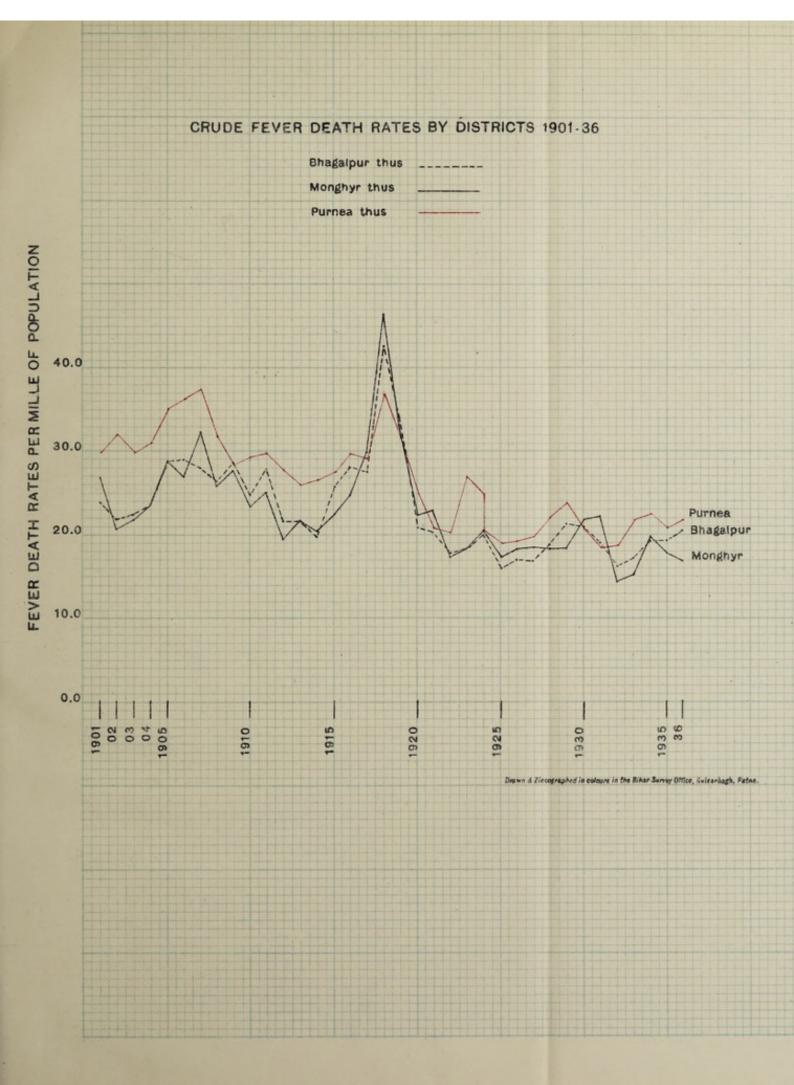
1. Fever is undoubtedly the principal cause of mortality in the Province. Out of a total number of 701,813 deaths, registered during the year fever alone claimed not less than 549,006 victims or 78.2 per cent of the total mortality. Though it is realised that deaths caused by any malady associated with a rise of temperature is registered under the broad head of ' fever', still the fact remains that malaria is responsible for the bulk of deaths.

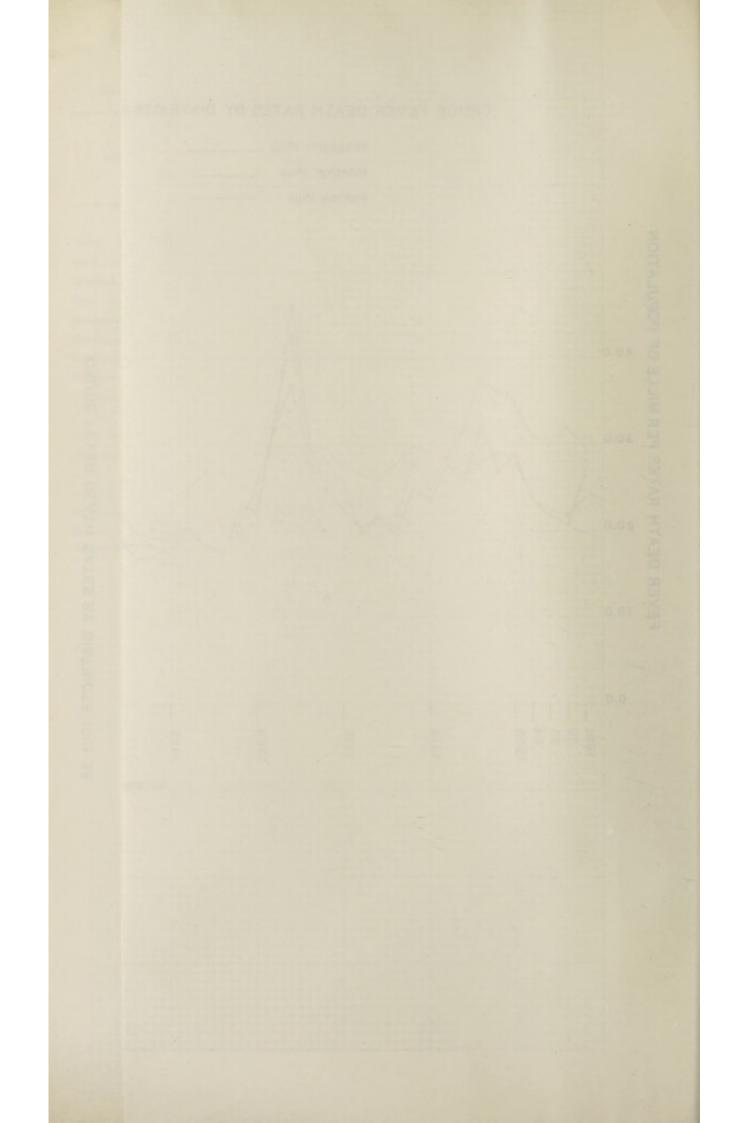
The year 1936 witnessed fulminant epidemics of Paludism in certain portion of North Bihar, particularly in Muzaffarpur, Darbhanga, Bhagalpur and Purnea. The endemic areas of Champaran and Manbhum districts also recorded increased incidence. Minor outbreaks were reported from Monghyr. Epidemic malaria is often associated with enhanced mortality rates, but the incidence being specially discrete and localised the fever death rate for the Province does not show any increase as compared with (18.2 per mille in 1935 and 16.9 per mille in 1936) the previous year, 1935. The highest rates for the year were recorded in the districts of Purnea (21.4), Palamau (21.2), Muzaffarpur (21.0), Bhagalpur (20.6) and Darbhanga (18.3). Towns recording the highest rates being Lohardaga (27.3), Gaya (18.2) and Jhalda (15.7).

The crude death rates from ' fever ' since the year 1901 in six of the districts of North Bihar (Tirhut and Bhagalpur divisions) reporting outbreaks of malaria have been graphically represented in the accompanying









diagrams. A glance at the diagram for Tirhut districts would show convincingly that after the pandemic influenza in 1918 the fever mortality curve in each of these districts do show the upward or downward trend simultaneously, but varying only in the degree of intensity. In the diagram for Bhagalpur it is noticed that except for the years 1918 and 1931 the district of Purnea has all along been maintaining the highest death rate in the group.

Malaria of a more or less static character may be said to be prevalent throughout the Province, the intensity depending on local conditions and variations in the epidemiological factors from year to year. The tracts particularly liable to be malarious being (1) a long belt in North Bihar contiguous to Nepal. The endemic area of Champaran and Purnea, particularly the latter has a long history of malaria. (2) Villages in the neighbourhood of hills and *ghats* in Shahabad and Gaya districts and (3) patches adjacent to some of the hill ranges of Chota Nagpur plateau. There is a possibility that malarious conditions here are associated with 'aggregation of labour', particularly in the mining areas. Black water fever also is reported from Singhbhum.

During the recent years North Bihar has come into prominence owing to repeated outbreaks of malaria occurring from time to time in one district or another. These outbreaks are definitely confined to the spill areas of certain rivers possessing one feature in common, e.g., changing their course too often. All these rivers, particularly Kosi in Bhagalpur, Kamla in Darbhanga and Bagmati in Muzaffarpur, intersect the respective districts from the North (Nepal) and ultimately merge in the river Ganges. One marked wave of malaria was noticed in 1929, followed by minor outbreaks. The biggest wave of malaria so far on record occurred during the year 1936. It appears that there was a slightly increasing incidence of malaria in some of the affected localities in the autumn of 1935, which in the usual course of events would have passed unnoticed if the 1936 epidemic had not been unusually severe. The Director of Public Health went round the epidemic area of Muzaffarpur thrice as the outbreak of an un-precedented type occurred there. The Assistant Directors toured throughout the affected areas. Ten epidemic doctors of the Public Health Department were detailed for malaria duty in the district of Muzaffarpur, three in Darbhanga and six in Purnea. A brief description of the outbreaks in each of the districts is given below.

Muzaffarpur.—The epidemic malaria started almost simultaneously in Minapur, Katra, Belsand and Majorganj thanas during the spring months, spread over Keotsa side in the month of May. After rains Shakra and part of Muzaffarpur thanas were also affected. Two hundred and twenty-four villages have been reported to have suffered from malaria and they are allsituated in the spill areas of Bagmati, Puranidhar (which is said to carry Manusmara water from Nepal) and Burhi Gandak. In almost all the affected villages malaria claims a heavy toll. Besides 128,815 patients treated in the permanent hospitals and dispensaries of the district, 203,502 treatments were given in the 8 temporary clinics organised by the Government and the district health staff. Out of 740 pounds of quinine spent on treatment the Government supplied 700 pounds and only 40 pounds were provided for by the district board. An officer of this department was deputed late in the year to investigate into the conditions. His report has been published by this department.

Darbhanga.—Early in the year increased incidence of malaria was noticed. From April onwards the disease assumed very serious proportions causing considerable distress and mortality. Out of 198 villages affected as many as 69 villages were situated in the spill areas of Kamla and Balan rivers under the jurisdiction of Madhubani thana in the neighbourhood of Pandaul. Twenty-five treatment centres were opened with the help of the Gevernment and the district board epidemic doctors. 114,475 persons were treated in these centres, in addition to 213,746 patients treated for malaria in the various hospitals and dispensaries in the district. Four hundred and thirty-nine pounds of quinine were used up for treatment and out of this amount the Government supplied 412 pounds.

Bhagalpur.-The year 1935 was a bad malaria year to the people of Supaul and Madhipura subdivisions but 1936 was worse still. During the year under review 1,441 villages in Supaul subdivision, 694 villages in Madhipura subdivision and 15 villages in Sadr subdivision were reported to be suffering from malaria. The affected villages in North Bhagalpur embrace an area of about 2,000 square miles. Majority of the villages lie within the jurisdiction of Partapganj, Tribeniganj, Supaul, Madhipura and Bangaon thanas. The Health Officer reports that 13,018 persons died of malaria only in five months' time. Ten epidemic doctors, 9 compounders, 61 santary jamadars and 22 coolies were appointed by the district board to combat the epidemic in addition to two assistant health officers working whole time on malaria. With this staff 12 temporary malaria clinics and 12 sub-centres were opened in North Bhagalpur. 833,470 persons were treated for malaria in the various hospitals, dispensaries and temporary clinics. Seven hundred and sixty-two pounds of quinine, 578 pounds of cinchona and 14 ozs. of tasteless quinine were used up for treatment. Out of the above amount, 350 pounds of quinine and 100 pounds of cinchona were supplied by the Government.

Purnea.—Epidemic malaria was first noticed in Dhamdaha thana in August, and in October there was a sudden outbreak all over the Araria subdivision, which is supposed to be the healthiest area in the district. There was increased incidence of malaria all over the district but the north and the western parts were badly affected. The district board appointed eight epidemic doctors and the Government deputed six. All these officers were in charge of the 15 temporary malaria clinics and 30 sub-centres. 144,109 persons were treated for malaria in the hospitals and dispensaries in the district against 84,374 treated in 1935. Three hundred and eightynine pounds of quinine sulph and 231 pounds of cinchona febrifuge were purchased by the district board for the year, and the Government supplied 300 pounds of quinine.

Champaran.—The epidemic areas of Bagaha, Ramnagar, Shikarpur and Mainatand thanas suffered from increased malaria. Some cases occurred in Lauriya thana also. It is thought that this year the rivers were in high floods and by the end of September the wave of malaria started. During the month of December the Health Officer carried out a spleen census in some of the villages and spleen rate was found to be more than 30 per cent in the mojority of cases. 893 villages were visited and 4,534 patients were treated by the Health Department in addition to 91,889 (62,616 in 1935) cases in the permanent hospitals and dispensaries. The disease here did not cause any increase in mortality.

Monghyr.—Minor outbreaks of malaria were reported from some of the villages in Gogri, Bukhtiarpur, Choutham and Khagaria thanas late in the year. Three epidemic doctors were appointed by the district board. With proper treatment the outbreaks quickly subsided.

Manbhum.—Increased incidence of malaria were reported from some of the thanas of the Sadr subdivision. An officer of this Department who carried out a short-period survey states that certain amount of endemicity exists in the villages situated near the hill ranges spreading over the southern and western parts of the district. Patamda, Baghmundi and Bundwan thanas are comparatively worse. The highest spleen rate observed was 84 per cent in one of the villages at the foot of Dalma range.

The health staff of the district board distributed quinine to 20,828 sick persons in addition to 54,423 persons treated for malaria at the hospitals and dispensaries during the year. The respective figures for 1935 being 12,121 and 31,844. Out of 77 pounds of quinine used by the health staff of the board 30 pounds were supplied by Government. The wave of malaria caused no increase in mortality, same as noticed in Champaran.

2. Sale of quinine.—Sale of quinine treatments in the various post offices in the province has been in force for many years. These treatments are supplied to the post offices by the Civil Surgeons, who obtain their requirements from the Presidency Jail at Calcutta where the products of the cinchona plantations in Bengal are made up into tablets. Twenty tablets of four grains each, packed in small tubes constitute one treatment and is sold at the post office at five annas three pies per treatment. The amount purchased annually cannot be regarded as satisfactory.

406.4 pounds of quinine sulphate in tablet form were sold during the year under report as against 316.9 pounds in the previous year. The largest quantities were taken by the districts of Purnea, Ranchi, Muzaffarpur, Champaran, Santal Parganas and Manbhum.

3. Spleen census.—The Assistant Director of Public Health, Chota Nagpur Circle carried out spleen census during his vaccination tours in the districts of Ranchi, Manbhum, Hazaribagh, Singhbhum and Santal Parganas.

CHAPTER IX.

MATERNITY AND CHILD WELFARE.

1. The Bihar Maternity and Child Welfare Society continued to work through a Managing Committee with Lady Sifton as the President, the Inspector-General of Civil Hospitals as Honorary Secretary and the Accountant-General, Bihar, as Honorary Treasurer. There are six Maternity and Child Welfare Centres in the province, namely three in Patna, and one each in Monghyr, Muzafiarpur and Ranchi. Besides these there are four midwifery circles, viz. one each in Patna, Darbhanga, Manbhum and Ranchi. The Society has its own fund and also gets an annual grant from the local Government which in the financial year 1936-37 was increased from 6,900 to 9,000. The Society makes contribution to the various centres which are ordinarily maintained by subsidies from the local bodies, donations raised from the local people, help received from the Victoria Memorial Scholarships Fund and the Provincial Branch of the Red Cross Society. The municipalities of Ranchi, Darbhanga, Purulia, Dhanbad and Patna Administration Committee also maintain a midwifery service for their respective areas. One midwife is employed by each of the municipalities. The midwives conduct normal labour cases at the houses and also train indigenous *dais* at the maternity centres.

Some of the industrial areas of the province such as Jharia Mines Board of Health and Tata Iron and Steel Company have their own maternity and child welfare organisations. There are three maternity circles on the Jharia Mines Board of Health, viz., at Sijua, Kenduadih and Jharia. These circles remained in charge of qualified health visitors. The Maternity and Child Welfare Centre in the Dhanbad municipality continued to be worked by a qualified midwife under the supervision of the Chief Medical Officer of the Board. The payment of a reward of annas four for each case conducted by indigenous *dais* under the supervision of a health visitor was continued All indigenous *dais* undergoing training under various centres were also paid a reward of annas two per attendance. All the *dais* working under the maternity scheme are supplied with fully equipped boxes for conducting normal labour cases.

The Maternity Ward of the Tata Hospital at Jamshedpur remained open throughout the year and the Lady Doctor employed there continued to conduct labour cases free at the houses in the local areas.

No maternity and child welfare centre exists exclusively for the benefit of the rural areas of the province.

The maternity and child welfare organisation in the various districts are as noted below :---

Purnea.—The Purnea municipality has sanctioned the opening of a maternity centre in the town and has provided Rs. 1,000 in the budget.

Bhagalpur.—One maternity and child welfare centre has been started in the town since 1934 and has been working satisfactorily.

Monghyr.--The Lady Stephenson Child Welfare Centre was kept open throughout the year and the work was carried out by the Lady Health Visitor. During the year the centre was fortunate to receive a grant of Rs. 13,000 from the Silver Jubilee Fund for construction of a new child welfare centre and Rs. 1,000 by His Excellency the Governor of Bihar and Orissa for equipment. The work of the construction has started and it is hoped that the new centre will open shortly.

Darbhanga.—A midwife is maintained by the Darbhanga municipality who attends labour cases. A midwife is also maintained by the Darbhanga district board to train village *chamains*. She also attends labour cases in rural areas so far as possible.

Champaran.—There is no maternity and child welfare centre in the district. One midwife has been engaged who tours throughout the district, trains local *chamains* and attends labour cases as far as possible.

Muzaffarpur.—A maternity and child welfare centre has been in existence in this town since 1931 and a Lady Health Visitor is employed. A baby show was organised and prizes were awarded to the best babies. This method of propaganda has undoubtedly increased the scope of the centres. A suitable building for the clinic has been constructed and quarters for the health visitor provided in the same compound.

Patna.—There are three child welfare centres within the Patna City municipality. Trained lady health visitors are in charge of these centres. The Maternity Supervisor visits these centres as Honorary Doctor, Indigenous dais are trained in these centres and they get four annas each for attending the centres.

Gaya.—At present there is no scheme in this district. The Gaya municipality should institute a child welfare centre and maternity scheme. It is regrettable that in the second town of Bihar no attempt in this direction has been made so far.

Shahabad.—Trained dais have been provided in district board dispensaries and hospitals. These dais train the local chamains within a radius of five miles from the dispensary for conducting labour cases.

Ranchi.—A maternity and child welfare centre has been organised in the Ranchi town since the year 1935 and a lady health visitor has been appointed. Trained midwives have also been appointed by the Ranchi municipality and Doranda Notified Area Committee.

Singhbhum.—There is a proposal to open maternity and child welfare centres at Chaibassa and Jamshedpur. A fairly decent sum has been collected in the latter place.

Manbhum.—There is one midwife attached to the Sadr Hospital at Purulia who attends to delivery cases in the town without any fee.

A set of rules has recently been framed by the Bihar and Orissa Council of Medical Registration and Medical Examination Board and facilities for the training of midwives were as usual provided in most of the bigger hospitals of the province. Classes were also held for the training of indigenous dais in accordance with the Victoria Memorial Fund Syllabus in most of the important Sadr and subdivisional hospitals. Each of the pupil dais was awarded the usual stipend of Rs. 5 to Rs. 10 a month from the Victoria Memorial Fund and the local bodies fund for their training periods. The Bihar and Orissa Medical Examination Board hold examinations for the midwives twice a year. Thirteen midwives passed the Board's examination during the year. The Bihar and Orissa Nurses' Registration Act, 1935 was passed last year. The Act provides for the compulsory registration of the midwives declared to have been successful at the Board's examination and authorises the local bodies for making bye-laws prohibiting unregistered persons from practising as nurses' health visitors, midwives and trained dais. It is expected that these legislative provisions will prove definitely useful in promoting clean midwifery and people will soon begin to appreciate the value of the activities of the maternity and child welfare centres.

CHAPTER X.

SCHOOL HYGIENE AND MEDICAL INSPECTION OF SCHOOL CHILDREN.

1. The Government maintain a special staff of officers for the medical examination of scholars of the high English schools since 1920. This system was subsequently extended to the middle English schools at places where there is also a high English school.

There are four School Medical Officers and four Assistant School Medical Officers for the four divisions of the province. There is also a Lady School Medical Officer for the girls' schools of the Province. These officers visit all the high schools and most of the middle English schools in their respective divisions. Besides these, some of the Medical Officers of Health of the district boards where such officers exist, also supervise medical examinations of the students, carried out by the district board Medical Officers, of the middle schools which were situated at places where there is no high schools.

2. Medical Examination of Scholars.—Usually all the new scholars admitted to the schools since the previous visit of the School Medical Officers are thoroughly examined and a complete medical history of each new entrant is recorded on a prescribed form. All scholars found to be suffering from physical defects at a previous inspection are re-examined and a further note on the defects is recorded. At the end of the inspection, parents or guardians of boys found to be suffering from physical defects are informed of the particular defects the boys are suffering from and they are recommended to consult their medical attendants or to take the boys for treatment to the nearest dispensary. The medical officers of the dispensaries or hospitals are required to note on the counterfoils of the forms, the treatment the boys have received and the results. Attempts have also been made since 1933 to start school clinics attached to each of the divisional hospitals.

The following is a statement showing the number of children examined by each of the School Medical Officers and number recommended for treatment in 1936 :---

D	ivisions.		Number of children examined.	Number recom- mended for treatment.	Percentage of those re- commended.
Patna .		 	3,020	1,269	42.01
Chota Nagpu	r	 	1,550	918	59.2
Bhagalpur .		 	3,402	1,166	34.2
Tirhut .		 	1,604	725	45.1

The Lady School Medical Officer examined 485 girls out of whom 419 or 86.39 per cent were found defective or diseased. The main defects pointed out being unclean nails and head, poor nutrition and enlarged tonsils.

From the statement noted above it would appear that out of 9,576 boys examined 4.140 or 43 per cent suffered from some kind of ailments. The majority of them as usual had minor troubles, viz., enlarged tonsils, caries teeth, scabies, and pulpable glands in the neck. 235 or 2.4 per cent of the boys were found to be suffering from common eye diseases, e.g. trachoma, conjunctivitis, blepheritis and corneal opacity whilst 6.8 per cent of them suffered from visual defects due primarily to errors of refraction. 226 or 2.3 per cent of the boys had heart troubles. Out of these 44 suffered from organic lesion of heart, most of them having valvular troubles, 118 boys or 1.2 of those examined showed enlargement of spleen and 6 were suspected as suffering from pulmonary tuberculosis. Five cases of leprosy were also detected in the Chota Nagpur Division. Quite a number of children were found un-vaccinated.

Lectures on Hygiene.—The School Medical Officers also deliver lectures on hygiene, sanitation and the epidemic diseases common in India to the students of the X and XI classes of the high English schools. These are mostly illustrated with magic lantern slides. 1,397 lectures were delivered during the year. Attendance at ten such lectures is compulsory for every boy before he is allowed to sit for the Matriculation Examination, but as hygiene is neither a compulsory nor an optional subject in the Matriculation Examination, the lectures do not receive quite the attention they deserve. These lectures afford an opportunity for the propagation of knowledge and information on public health subjects. They are expected to awaken an interest in the minds of the boys for healthy living and prevention of disease. During the summer vacation, these officers devoted themselves as in previous years to special propaganda work by arranging lectures and demonstrations for the village *gurus*, *maulavis* and sub-inspectors of schools in different selected centres.

The school and hostel buildings are regularly inspected by the School Medical Officers during their visit to each school. 230 such school premises were inspected during the year. These inspections have definitely helped in recent years to improve the sanitation and to rectify defects in the sanitary convenience and drinking water-supply for both day and night scholars.

The School Medical Officers during their inspection to each school also look into the arrangements made for physical exercises, games and suitable sitting accommodation in the class rooms and by their constant advice they try to impress upon the head masters, guardians and parents that in their zeal to impart mental education, the physical development of the child should not be neglected.

The scheme of providing mid-day school lunch based on a fee of annas six per school child per month has been introduced in some of the schools in the Chota Nagpur Division.

CHAPTER XI.

HEALTH PROPAGANDA.

1. A Public Health Bureau on a modest scale is attached to the office of the Director of Public Health with the object of awakening public health conscience in the masses, to stimulate their interest in public health matters and to educate them by the persistent presentation of simple sanitary principles by such methods as lectures, leaflets posters, magic lantern demonstrations and press publications.

The Officer-in-charge of the Public Health Bureau carried out propaganda work as usual, during the year. A large number of pamphlets and leaflets were issued from time to time to the local bodies for distribution among the visitors at the different exhibitions organised in connection with the fairs and festivals in the province and many popular articles on public health subjects were contributed to the local press. A special health section was organised at the provincial exhibition held at Patna.

Lectures illustrated with magic lantern slides and demonstrations on public health subjects were given to the cadets of the Police Training Colloge at Hazaribagh. Hygiene lectures and magic lantern demonstrations were also given by the Officer-in-charge, Public Health Bureau at a special course organised by the Co-operative Department for the training of Rural Welfare Officers (Co-operative Educational Inspectors and Village Guides) at Patna

Urdu translation of the pamphlet entitled "Tuberculosis Problem in Bihar and Orissa" was prepared and widely circulated in the province by the Public Health Bureau.

The Assistant Directors of Public Health gave short lectures on sanitation and hygiene during their vaccination inspection tours in rural areas. 344 such discourses were held during the year. They are also provided with a magic lantern and complete sets of slides on all important topics of health.

2. Red Cross Society.—The Red Cross Health Museum was open to visitors throughout the year 1936. It is lodged in the north verandah of the Patna Museum which has been specially enclosed with glass to provide permanent accommodation for the health exhibits.

The following models, viz., one each on "Rat Proof Godown", "Lady Health Visitor", "Sanitary Privy", "Sanitary Well", "Sanitary House" "Insanitary House" and "Insanitary Well" were purchased during the year at a cost of Rs. 78 out of the contingent grant of the Public Health Bureau and were added to the exhibits at the Health Museum for the benefit of the visitors. Twelve illustrated and coloured posters on the causation and prevention of tuberculosis received from the Indian Red Cross Society were also mounted on cardboards and put up as exhibits in the Museum.

The Health Museum continues to attract every year a large number of visitors who are drawn from every part of the province. 132,781 persons as against 149,642 in the previous year visited the Museum from the 1st January to 31st December 1936. Of these 22,597 persons visited the Museum on the 28th November 1936 on the occasion of the Sonepur Fair as against 24,166 of the previous year.

The Officer-in-charge, Public Health Bureau attended the Museum as usual on all important occasions during the year and arranged for the distribution of leaflets on public health subjects in English and the vernaculars among the visitors.

In view of the decision to devote the greater part of the money collected in the province for King George V Memorial Fund towards anti-tuberculosis scheme in all the districts of Bihar, details of a scheme were worked out whereby it is proposed to establish a tuberculosis clinic in the headquarters of every district. It is proposed to allot a sum of Rs. 10,000 to each district for the construction of the clinic and to approach Government for a small annual grant for each district for the maintenance of the clinic. This grant will be made only to those districts that will guarantee to provide a sum at least equivalent to the grant towards the cost of running of the clinic. It is also hoped that a Special Tuberculosis Officer to supervise and co-ordinate the work of the clinic in the various districts will be appointed by Government.

Dr. Hargobind Prasad, M.B., D.P.H., Health Officer, Ranchi municipality was deputed to undergo a special course of training in tuberculosis held in Calcutta under the auspices of King George Thanks Giving (Anti-Tuberculosis Fund) from the 6th to 31st January 1936.

CHAPTER XII.

PUBLIC HEALTH ADMINISTRATION.

1. The statement below shows the receipts and expenditure under the head "33-Public Health (Medical) for the year 1934-35 and 1935-36":---

	Beer	ipt.	a Complete	193	6-38,	1935-36,		
-Head,	1934-35, 1935-36,		Head of expenditure.	Budget provision.	Expenditure.	Bodget provision.	Ex penditure	
L	.2	3	4	5	6	7	8	
Property and	Rs.	Rs.	d Razelli towned	Rs.	Re.	Rr.	Re.	
Sale proceeds of sera and vaccine, etc.	39,794	88,384	Public Health estab- lishment	1,82,241	1,59,864	1,64,434	1,68,253	
vaccine, etc.		E Hong	Medical Examination of scholars and teach- ing of bygiene in high schools	45,654	36,707	43,000	38,261	
			Bubonic plague	6,000	13,767	6,000	9,383	
			Malaria	11,600	7,740	10,600	8,429	
hison'T to	handhang	-	Other epidemic diseases	1,18,823	1,84,157	1,29,463	1,16,737	
and a line the state	Jarra -vi	19731234	Publicity campaign	1,786	1,715	1,802	2,094	
			Public Health Labora- tories	23,571	21,919	22,097	18,872	
	7the		Total	3,99,625	3,75,869	3,77,396	3,60,029	

All requisitions of the Director of Public Health were met by Government and the funds were made available in most cases.

2. The three Assistant Directors of Public Health, one for South Bihar Circle, with headquarters at Patna, one for North Bihar Circle, with headquarters at Muzaffarpur and one for Chota Nagpur Circle with his headquarters at Namkum, in the Ranchi district continued to function.

The Assistant Directors of Public Health are employed to investigate into the epidemics, suggest measures of control and to see that the actions taken are adequate to combat the epidemic. They supervise the prophylactic measures, such as vaccination, cholera and plague inoculations. They inspect and report on all nuisances occurring in their areas. A systematic inspection of all district boards, municipalities and high schools, also the fairs and melas are included in their legitimate duties. They do propaganda work by lectures and magic lantern demonstrations. Regular inspection of mines in their respective circles have also been added to the routine duties of the Assistant Directors of Public Health. Their supervision and expert advice have done much to assist the local bodies towards the improvement of all sanitary matters that may prejudice the health of the people.

There are four School Medical Officers and four Assistant School Medical Officers for the four divisions of the province. There is also a Lady School Medical Officer for the girls' schools. In addition to her own duties she is also employed as a Medical Inspectress of Factories in accordance with the recommendation of the Royal Commission on Labour to examine the health of the female employees of factories in Patna district.

Epidemic doctors with L. M. P. qualification are employed temporarily to help the local bodies in combating epidemics in the province. Over and above those, one hundred reserve of vaccinators are provided for duties in the districts, who in addition to vaccination work are also trained to carry out disinfection during epidemics.

The Medical Officer of Health who acts as Personal Assistant to the Director of Public Health also holds charge of the Public Health Bureau attached to the office of the Director of Public Health. He contributes popular articles to the press on the public health subjects and distributes pamphlets and posters to the local bodies. He delivers lectures on hygiene to the police cadet at the Police Training College, Hazaribagh, and also at melas and fairs with the aid of magic lantern slides. He is also the Health Officer of the Patna Administration Committee.

Seven Medical Officers of the Government Public Health Cadre have been lent to the district boards of Muzaffarpur, Saran, Champaran, Gaya, Bhagalpur, Shahabad and Darbhanga to work as Health Officers of the district boards.

Three Medical Officers of the cadre have also been lent to the municipalities of Patna, Gaya and Ranchi to work as Health Officers.

A Medical Officer was also employed as Chemical Analyst at the Public Health Laboratory where water and articles of food are analysed but the services of this officer was transferred under the Bengal Government in September, 1935, and since then his Assistant who is a non-medical man has been temporarily allowed to work in his place. A Medical Officer of the cadre has also been appointed as Officer-in-charge of the Bacteriophage Laboratory and a medical graduate has been temporarily employed as his Assistant.

A Medical Officer of the cadre also works as Superintendent of Vaccine Depot at Namkum. Vaccine Lymph is manufactured and distributed throughout the province from this depot.

CHAPTER XIII.

The Annual Vaccination Report is submitted as an annexure to this report.

CHAPTER XIV.

OTHER PUBLIC HEALTH SERVICES.

1.. Jharia Mines Board of Health.—The Jharia Mines Board of Health controls the sanitation of Jharia and the neighbouring mining areas which extend over an area of 787 square miles and covers the whole of the Dhanbad subdivision with the exception of Dhanbad municipality. According to the census of 1931, the population of this area is 504,736 and the estimated population for 1936 excluding that of the municipality of Dhanbad is 531,401 as against 526,322 of 1935.

The total number of births during the year was 13,781 giving a birth rate of 25.93 as against 27.08 of the previous year while the total number of deaths was 8,556 recording death rate of 16.10 as against 20.43 of the preceding year. The death rate was decreased by 4.33 due chiefly to the absence of cholera epidemics in the mining area during the year. The infant mortality rate was reported to be 108 as compared with 102 in the previous year.

The total number of deaths from cholera, small-pox, fevers and respiratory diseases was 37,322, 5,595 and 428, respectively as compared with 446. 51, 7,265 and 483 in the preceding year. 217 cases of venereal diseases were reported by the colliery doctors. The preventive measures against cholera and small-pox were taken by the health staff of the mining board. 6,350 anti-cholera inoculations and 75,840 vaccination operations were performed during the year.

Drainage.—The drainage scheme which was completed last year is now in perfect running order.

Water-supply.—In the course of the year under report seven more collieries were connected to the Jharia Water Board Mains, bringing the total number of the connected collieries to 185. It is considered that the collieries not yet linked up with Jharia Water Board Supply constitute a source of danger to the neighbouring ones. Notices were, therefore, served on six collieries by the board requiring them to link up with the Jharia Water Board Mains. The question of adequate supply of pure water to the various outstill liquor shops in the mining area is still under consideration of the authorities concerned. The Board reserved one tank at Katras for drinking throughout the year and 9 tanks temporarily for the prevention of cholera. These were guarded by the chaukidars deputed by the Board and the villagers. 52 samples of water were examined chemically and 625 bacteriologically at the Board's own laboratory.

Sanitation.—Two rubbish lorries for carrying the refuse to the dumping ground were maintained throughout the year in Jharia town and refuse carts, introduced in 1935, carried refuse from the narrow lanes where the lorries do not go. 120 public latrines provided by the board were maintained during the year.

Housing.—The five years housing programme was enforced during the year. The improvement affected in this direction during the past two years has been maintained.

Maternity and Child Welfare.—The work in connection with child welfare scheme was continued as usual. The whole area is divided into three circles, namely Sijua, Kenduadih and Jharia. Sijua Circle has three centres, namely Sijua, Loyabad and 'Angarpathra while Kenduadih circle has nine centres and Jharia circle one centre. Three qualified health visitors were in charge of these circles. They regularly visited the centres, supervised ante-natal and post-natal conditions and conducted the practical training of the indigenous Dais. Most of the normal labour cases were attended by the Dais who had received training in the previous years. These Dais have all been supplied with fully equipped boxes containing outfit required for conducting normal labour cases and are now given annas four as a reward from the board's fund for conducting each labour case under the supervision of the Health Visitors. Soap, oil, milk and medicines were also distributed to mothers and children at all centres throughout the year.

Leprosy.—All Leprosy Relief Work within the Jharia Mining Settlement continued to be carried on by the Dhanbad and District Leprosy Relief Fund under the supervision of the Chief Medical Officer of the Board, who is the Honorary Secretary of the Fund.

Clinics.—The Fund continued to maintain the three clinics at Jharia, Katras and Dhanbad. The management of the clinic at Pandra which was originally vested in the district board, was made over to the fund by the district board in September, 1936, with a view to secure uniformity of procedure and unity of control over leprosy work within the Mining Settlement area. With the exception of the clinic at Pandra which is held once a week, the clinics at other three places are held twice a week. The total number of treatments given during the year was 22,984, out of which 818 were new cases.

Food Adulteration.—483 samples were examined in the Board's laboratory, of which 173 were found to be adulterated and 134 prosecutions were carried out.

2. Public Health Laboratory.—During the year 3,035 articles were chemically and bacteriologically examined as compared with 2,847 articles in the preceding year. Of these 15 samples were received from private individuals or firms for analysis on payment of fees. The increase in the number of samples analysed is due to the fact that the local bodies are beginning to realise the importance of the Food Adulteration Act and send greater number of samples of food stuffs.

One thousand two hundred and six samples of water were examined bacteriologically of which 492 samples were also examined chemically.

The following	were	the	sources	and th	e number	of	analysis:	-
Water-works								865
Jails								148
Other sources	s							193

Food Stuffs.—The total number of samples examined was 1,825, as opposed to 1,740 of the previous year. The samples were received from the 19 districts of the province and Orissa. No samples were received from the districts of Palamau and Angul.

Ghee.—Seven hundred and eighty-two samples of ghee were examined out of which 353 or 45.14 per cent were found below the standard or adulterated as opposed to 58.17 per cent of the previous year. 132 samples were found to be of doubtful purity.

Mustard oil.—Six hundred and twenty-seven samples of mustard oil were examined out of which 253 or 40.35 per cent were found to be adulterated or below standard as opposed to 37.87 per cent of the previous year. Four samples were found to be of doubtful purity.

Sweets.—One hundred and thirty-one samples of sweetmeats (Methai, Puri Kachauri, etc.), were examined with a view to find if they were made of pure ghee or oil. Out of 131 samples, 65 samples or 49.61 per cent were found to have been made of ghee or oil which was below the standard or adulterated as opposed to 70.27 of the previous year.

Milk.—91 samples of milk were examined out of which 58 samples or 63.73 per cent were found to me adulterated.

Atta.-137 samples of wheat-flour were examined. All of them were found free from foreign starches.

Miscellaneous.-22 samples of rice were examined. No change in the rice grains could be detected by microscopic examination in any of the

samples. Eight samples of ground-nut oil were examined of which 3 were found adulterated. Out of 7 samples of linseed oil examined, 6 showed adulteration. One sample of Suji, 14 samples of vegetable products, 2 samples of common salt, 1 sample of niger-seed oil, 1 sample of *Mahua* oil and 1 sample of seasame oil were also examined. Three samples of disinfectant fluids were analysed with a view to find out the Rideal-Walker-coefficient. One sample of vegetable powder (Nigrahi) said to be the medicine for birth control, received from a private person of the district of Saran was examined and was found to contain vegetable alkaloids. It was declared unfit for human consumption.

Analysis of Excisable Articles.—The Laboratory for Excise work was started in December 1934 and continued to function throughout the year under report. The Assistant Excise Chemist appointed in 1934 was designated as the Officiating Chemical Examiner for Excise work on the transfer of Rai Bahadur Dr. K. N. Bagchi to Bengal and was allowed to continue his work independently. Four hundred and ninety samples of excisable articles were analysed and 371 mathematical instruments such as thermometers, etc., were standardised during the year in the Laboratory.

3. Bacteriophage Laboratory.—The Bacteriophage Laboratory continued the production of choleraphage on a large scale as before. 102,830 phials of choleraphage of 50 CC each were prepared and 81,106 phials were distributed during the year on requisitions received through the Director of Public Health to various towns and districts of the province. Besides this, the basic research on bacteriophage was continued. It has been found that many cases of acute bacillary dysentery pass off as cholera. This necessitated introduction of dysentery phage also in our phage mixture. Experiments were conducted to produce dysentery phage on a large scale of high virulence, active against both Shiga and Flexner bacilli. This was mixed with the choleraphage suspension issued for therapeutic purposes in the proportion of 1 in 15. This proportion did not lower the potency of the choleraphage and the phage remained active against dysentery bacilli.

Endeavours were made to improve the media for the production of choleraphage which would give the optimum growth of vibrios and bacteriophage. After a considerable number of experiments it was found that the optimum number of bacteriophage mixture was obtained by using lactose in the proportion of 0.1 per cent and glucose 0.048 per cent in the media.

Changes in the variants of cholera vibrio as produced by phage were studied. Secondary cultures were produced by the action of each pure live phage on culture 653 Shillong. Each of these was plated out and different colonies were picked up. These were resistant to the phage from which they were prepared. They were agglutinable and the morphological characters and fermentation re-actions were typical. The original broth tubes containing the secondary cultures were kept at room temperature and after six weeks each of them was plated out. The secondary cultures of PE, H, K, L gave two types of colonies. One transparent typical vibrio colony like the colonies in other plates, and the other a typical colony with a distinct thick white ring at the margin. The transparent colonies were typical agglutinable. They were resistant to the phage from which they were originally prepared but they were touched by other phages. Morphologically they still showed the vibrio character. Thus an agglutinating vibrio can be altered by the action of some of the types of phage, so as to render it un-recognisable by the ordinary agglutination tests. This, as also the variants from the combination of phage are being investigated further.

Now types of phage K, L, M were studied for their virulence tests, generation time. It is very difficult to preserve phage L in the liquid media for a long time. It must be grown on solid and liquid media alternately. Phage K and L are absolutely rough phage and they do not touch the smooth vibrios. Type M touches S R vibrios. Investigation was undertaken to test the vitality of phage in water. Phage mixture was put in ordinary well and the water tested at an interval of 24 hours. It was found that the phage is preserved well enough to be used prophylactically up to 72 hours.

Possibility of using phage as prophylactic in place of cholera vaccine.— As the phage filtrates contain a high concentration of anti-genic material derived from bacterial bodies necessary for the development of antibodies, the question is whether they can be used in producing immunity. Thus they should play an important role in prophylaxis as they do in therapy.

Larkum, experimenting with typhoid phage has observed that serum of persons receiving one dose of bacteriophage filtrate showed agglutination equal to those receiving one dose of vaccine, but the antibodies after six months in those receiving one dose phage were higher than in persons receiving one dose of ordinary vaccine and equal to these having had three doses of vaccine. No untoward re-action of any importance occurred in the phage injected group of cases.

Other bacteriologists have also confirmed the views. Topley and Wilson have observed that a phage was an effective immunising agent when injected 14 days before the injection of a total dose of the culture.

Experiments are being carried on in rabbits by injecting them with phage and cholera vaccine and testing their serum.

The sera which was used for the diagnosis of typical vibrio cholera was raised against the Inaba Strain of vibrio cholera an internationally recognised strain of stable type. The 'O' serum was raised in rabbits by means of the dried 'O' antigen prepared by Brucewhite and issued by the Central Research Institute, Kasauli. This method has been recognised as a standard one.

Typhoid Phage.—Work was started to study the typhoid phage systematically. Five types of Typhoid phage, five of Para-Typhoid A and 3 of Para-Typhoid B were isolated. Further studies of these phages are being done. The mixture of all these types was prepared and issued to the leading practitioners and in the hospitals for experiment. No detailed report has been received but the results have been reported to be very encouraging.

Choleraphage is now issued for sale to the public at Re. 1 per 50 CC phials and annas six per 5 CC ampoules. Choleraphage was issued to Orissa Government on payment at a concession rate.

Field Work.—Choleraphage was used throughout the year in the cholera affected districts of the province. The reduction of the quinquennial average of cholera mortality rate during years 1931-35 and 1936 in the two districts of Muzaffarpur and Purnea where phage was exclusively used has been un-precedented, as will appear from the statement below :—

Districts.	1901-05.	1996-10.	1911-15.	1916-20.	1921-25.	1926-30,	1931-35.	1936.
Muzaffarpur	3	3	4	6	1.5	4.2	•3	0.01
Purnea	1.3	4	1.1	2.4	1.8	2	-5	0.2

This definitely shows by comparison that choleraphage has effected a remarkable reduction in the cholera mortality rate in these districts. The maintenance of continued reduction of cholera mortality in 1936 almost definitely proves the prophylactic value of choleraphage. An examination of the recorded cholera mortality figures of these districts from 1901 to 1936 shows that the period of normal cholera periodicity wave has been tried exclusively with choleraphage with a definite reduction of cholera incidence.

All and a local de la constante	Muzaffar	pur.		Purnea.
Year.		Re	corded deaths.	Recorded deaths.
1901	 		2,749	326
1902	 ·		13,299	209
1903	 		9,423	1,049
1904	 		8,612	736
1905	 		7,967	9,705
1906	 		12,072	17,579
1907	 		2,884	16,063
1908	 		8,145	5,375
1909	 		2,765	1,316
1910	 		24,016	4,035
1911	 		15,415	10,333
1912	 		19,797	1,164
1913	 		12,969	1,339
1914	 		1,054	1,767
1915	 		6,892	6,013
1916	 		23,317	5,359
1917	 		19,037	4,689
1918	 		32,356	4,228
1919	 		1,133	8,257
1920	 		1,644	154
1921	 		1,000	22
1922	 		6,398	726
1923	 		46	240
1924	 		7,721	1,999
1925	 		779	8,208
1926	 		3,249	4,283
1927	 		6,429	2,077
1928	 		9,578	6,369
1929	 		7,594	2,170
1930	 		38,017	5,609
1931	 		264	418
1932	 		142	413
1933	 		337	428
1934	 		530	1,323
1935	 		4,843	3,304
1936	 		49	. 184

The prophylactic value of choleraphage can now only be definitely established by its continued use in these districts.

As to the curative value of choleraphage the mortality rate of cases treated with phage as reported by the health officers of Muzaffarpur and Purnea are appended below. The curative value of choleraphage was accepted by the conference of the Indian Research Fund Association held in Calcutta in 1936 after an examination of a series of controlled experiments which were statistically scrutinised.

	Muzaffarpur.	Purnea.
	1936.	1936.
Total number of cholera cases treated with phage	195	134
Total deaths among phage treated	. 16	42.
Mortality per 100 among phage treated	8	3.1
Total cases not treated with phage but treated by village doctors and Vaids.	16	
Total deaths among them	8	
Mortality per 100 of cases treated otherwise than with phage.	18	d

CHAPTER XV.

GENERAL REMARKS.

1. Epidemic dropsy.—Beri-Beri was reported from the districts of Patna, Bhagalpur, Manbhum and Singhbhum during the year under report. Steps were taken by the municipal and district board authorities to instruct the people to avoid using over-polished rice and adulterated mustard oil and *ghee*. In the Bhagalpur municipality pamphlets were printed and distributed for selecting suitable nourishing diets. A report on epidemic dropsy in Manbhum district was received from the Director, School of Tropical Medicine and Hygiene, Calcutta in which it was pointed out that the cause of the outbreak of the disease might be attributed to the use of diseased rice. Further investigation on the subject is being carried out at the Tropical School and an interesting report is awaited. It is now strongly believed that the cause of Beri-Beri is due to the consumption of a deleterious substance of unknown nature or origin which might be present in certain supplies of mustard oil. A number of samples of rice, mustard oil and *ghee* were examined at the Government Public Health Laboratory and the results were communicated to the boards concerned.

2. Incidence of Cerebro-spinal fever.—Seventeen cases of cerebro-spinal fever were treated in hospitals and dispensaries of the province during the year as compared with 55 of the previous year. Two cases were admitted in the Patna Medical College Hospital, one died and the other left. One case was treated in Madhubani hospital of Darbhanga district one in each of Kishanganj and Katihar hospitals of Purnea district, two in Godda hospital of Santal Parganas, one in Barhiya dispensary of Monghyr and one in Sariya dispensary of Hazaribagh districts.

3. Leprosy Relief.—The Bihar and Orissa Leprosy Relief Committee was constituted by the Government of Bihar and Orissa in August 1926 as the provincial branch of the British Empire Leprosy Relief Association, to receive and expend funds received from the Indian Council and to discharge all duties in connection with the leprosy work in the province. One meeting of the Committee was held during the year under the presidentship of the Minister of Local Self-Government.

Sixty-three outdoor leprosy clinics functioned in the year as against 59 of 1935 and 20,611 patients were treated in them as against 17,813 of the previous year. Four new clinics were opened during the year, all in the district of Cuttack. Of the 63 clinics, three are maintained by Government, three by the Bettiah Raj, four by the Missions and the rest by the municipalities and the district boards with grant-in-aid from the Bihar and Orissa Leprosy Relief Committee.

4. Notification of Infectious Diseases.—The Bihar and Orissa Municipal Amendment Act. 1935 which provides for the compulsory notification of cases suffering from certain infectious diseases, namely cholera, smallpox, plague and tuberculosis by the occupier of the house, a manager of factory, Dharamshala, hotel or sarai where a case occurs and by the medical practitioner treating such a case, to the Health Officer, Civil Surgeon of the district or the commissioners, came into force in all the municipalities of the province from the 1st July 1935. Steps were taken to disseminate knowledge about the Act as widely as possible throughout the municipal areas of the province through the Assistant Directors of Public Health and the municipal health officers. With the enforcement of the Act it is expected that the municipal health staff will be in a position to undertake preventive measures as soon as a case is reported and thus check the further spread of the disease with greater celerity.

5. Inspection of Mines.—The Assistant Director of Public Health, Chota Nagpur Circle, as an ex-officio Medical Inspector of Mines inspected the following mines in the districts of Singhbhum and Hazaribagh :—

- 1. Iron Ore Mine of the Tata Iron and Steel Company, Ltd., at Noamundi.
- Iron Ore Mine of the Indian Iron and Steel Company, Ltd., at Gua.

- 3. Copper Mine of the Indian Copper Corporation, Ltd., at Mosabani.
- Iron Ore Mine of the Bengal Iron Company, Ltd., at Chiria and Duia.
- 5. Bhura '74' Mica Mine in Koderma Area.
- 6. Thani Mica Mine in Koderma Area.
- 7. Majhlee Mica Mine in Koderma Area.
- 8. State Railways Colliery near Giridih.

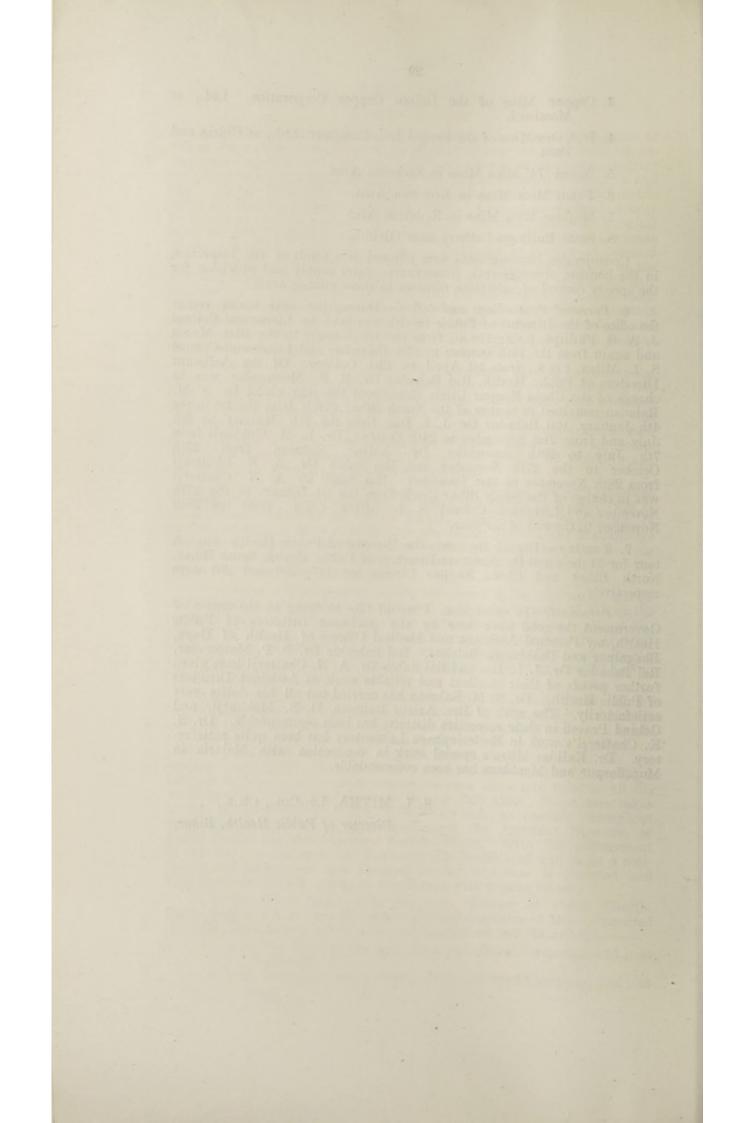
Considerable improvements were effected as a result of the inspection in the housing arrangements, conservancy, water-supply and provision for the speedy control of infectious diseases in these mining areas.

6. Personal Proceedings and Office.—During the year under report the office of the Director of Public Health was held by Lieutenant-Colonel J. A. S Phillips, C.I.E., I.M.S., from the 1st January to the 31st March and again from the 14th October to 31st December and Lieutenant-Colonel S. L. Mitra, I.M.S., from 1st April to 13th October. Of the Assistant Directors of Public Health, Rai Bahadur Dr. B. P. Mozoomdar was in charge of the Chota Nagpur Circle throughout the year whilst Dr. S. M. Rahman remained in charge of the North Bihar Circle from the 1st to the 4th January, Rai Bahadur Dr. J. L. Das from the 5th January to 6th July and from 21st September to 24th October, Dr. L. M. Mukherji from 7th July to 20th September, Dr. Azizur Rahman from 25th October to the 27th November and Rai Sahib Dr. A. N. Chatterji from 28th November to 31st December. Rai Sahib Dr A. N. Chatterji was in charge of the South Bihar Circle from the 1st January to the 27th November and Lieutenant-Colonel S. L. Mitra, I.M.S., from the 28th November to the end of the year.

7. Touring —During the year, the Director of Public Health was on tour for 71 days and the Assistant Directors of Public Health, South Bihar, North Bihar and Chota Nagpur Circles for 117, 200 and 203 days respectively.

8. Personnel.—In conclusion, I would like to bring to the notice of Government the good work done by the Assistant Directors of Public Health, my Personal Assistant and Medical Officers of Health of Gaya, Bhagalpur and Darbhanga districts. Rai Bahadur Dr. B. P. Mozoomdar, Rai Bahadur Dr. J. L. Das and Rai Sahib Dr. A. N. Chatterji have given further proofs of their excellent and reliable work as Assistant Directors of Public Health. Dr. S. M. Rahman has carried out all his duties very satisfactorily. The work of Drs. Azizur Rahman, D. B. Mukharji, and Gobind Prasad in their respective districts has been commendable. Dr. S. K. Chatterji's work in Bacteriophage Laboratory has been quite satisfactory. Dr. Kalidas Mitra's special work in connection with Malaria in Muzaffarpur and Manbhum has been commendable.

> S. L. MITRA, LT.-Col., I.M.S., Director of Public Health, Bihar.



ANNUAL VACCINATION REPORT

OF THE

Province of Bihar for the year 1936-37.

1. The statistics in the Vaccination Report are for the financial year while the statistics in the Annual Public Health Report are for the calendar year The arrangement facilitates the inclusion of the figures for the complete vaccination season from October to March in the Vaccination Report.

2. Staff.—Lieutenant-Colonel S. L. Mitra, I.M.S., held charge of the office of the Director of Public Health, from the 1st April to the 13th October 1936, while Lieutenant-Colonel J. A. S. Phillips, C.I.E., I.M.S., remained in charge of the Department from the 14th October 1936 to the 14th February 1937 and Lieutenant-Colonel S. L. Mitra, I.M.S., from 15th February to the end of the year.

The whole province is divided into three circles for the purpose of Public Health Administration, namely South Bihar, North Bihar and Chota Nagpur. Each is under the charge of an Officer of the rank of the Assistant Director of Public Health. Rai Bahadur Dr. B. P. Mozoomdar was in charge of the Chota Nagpur Circle throughout the year. Rai Sahib Dr. A. N. Chatterji was in charge of the South Bihar Circle from the 1st April to the 27th November 1936, Lieutenant-Colonel S. L. Mitra, I.M.S., from the 25th November 1936 to the 14th February 1937 and Dr. S. M. Rahman from 15th February 1937 to 31st March 1937. Rai Bahadur Dr. J. L. Das was in charge of the North Bihar Circle from the 1st April to the 6th July and again from 21st September to 24th October 1936, Dr. L. M. Mukherji from the 7th July to 20th September 1936 and Dr. A. Rahman from the 25th October to the 27th November 1936 and Rai Sahib Dr. A. N. Chatterji from 28th November 1936 to 31st March 1937.

The provincial vaccination inspecting staff consisted of 11 District Inspectors and 25 Sub-Inspectors of Vaccination. Out of the 25 Sub-Inspectors of Vaccination three were employed at the Vaccine Depot, Namkun. The total number of vaccinators employed during the year was 1,187 of whom 78 were employed in towns and 1,109 in rural areas. Vaccination is performed by paid vaccinators in the municipal areas while licensed vaccinators are generally employed to perform vaccination operations in the rural areas. Each district has been divided into suitable small areas (elakas) and a licensed vaccinator who also has an apprentice with him is permitted to carry out vaccination within his area or elaka. The licensed vaccinator is allowed to charge a fee of annas two to four for each vaccination operation performed in the houses. There are also free vaccination depots in each elaka which are attended by the vaccinators on fixed days in a week and no fee is charged for carrying out vaccination at these depots. Besides these licensed vaccinators, paid vaccinators are also employed by the local bodies for short periods to deal with outbreak of small-pox. Over and above these, Government provide for the temporary appointment of one hundred paid vaccinators every year and Director of Public Health sanctions the appointment of these vaccinators by the local bodies or the Civil Surgeons for such periods as are considered necessary for combating small-pox epidemics.

3. Operations performed.—1,586,143 vaccination operations were performed during the year as against 1,774,176 during the previous year. This shows a decrease of 188,033 in the number of operations as compared with the figure for 1935-36.

There was a decrease of 49.346 in the number of primary operations and 140,570 in the number of re-vaccinations done during the year under report.

Of the total operations performed 72.52 per cent were successful as against 71.57 in the previous year.

1,550,949 operations were performed by the vaccination staff as against 1,740,865 done in the preceding year. Of these 980,315 were primary and 570,634 re-vaccinations as against 1,029,661 primary and 711,204 re-vaccination in the preceding year. Although vaccination is generally recognised as the only preventive measure against small-pox, it has not yet become as popular as it should be with the masses in the province. When small-pox breaks out in an epidemic form, the people show some degree of willingness to get their children vaccinated, but when the epidemic is absent the incentive is much less and the number of vaccinations performed also fall. This is illustrated by the fact that during 1926-27 when the disease broke out in an epidemic form, a greater number of vaccinations was recorded, but the number of operations fell during 1928-29 when fewer cases of small-pox occurred. Again during 1932-33 when an epidemic of small-pox prevailed in the province, the number of vaccinations increased by 368,090 operations over those performed in the preceding year while during the year 1934-35 which happened to be a milder year for small-pox the total number of vaccination operations appear to have been proportionately less and in the year 1935-36, 164,049 more operations were performed than the preceding vear.

4. Vaccination in municipalities.—The number of operations performed in municipalities decreased by 62,932 as compared with last year's returns. The total number of operations performed was 135,297 and the number of successful operation was 59,826 of which 37,891 were primary and 21,935 re-vaccination, as against 39,618 and 42,515 respectively in the previous year. The ratios of success in municipalities were 91.43 per cent for primary operations and 23.37 per cent for re-vaccinations as compared with 87.32 per cent and 27.81 per cent respectively of last year.

5. Vaccination in districts.—The number of operations performed in rural areas was 1,415,652 as compared with 1,542,636 in the preceding year and the ratios of success were 98.20 per cent for primary operations and 32.68 per cent for re-vaccinations.

The districts of Patna, Gaya and Shahabad reported decrease of 28,568, 3,511 and 246 respectively. The districts of Muzaffarpur, Darbhanga and Champaran recorded decreases of 16,637, 21,800 and 15,337 respectively while Saran recorded an increase of 19,002. In all these districts vaccination is controlled by the health officers of the district boards.

The districts of Bhagalpur, Monghyr and Purnea recorded decreases of 44,432, 3 407 and 17,611 while Santal Parganas recorded an increase of 5,096 in the number of vaccination operations performed in these districts respectively. Vaccination in the rural areas of the districts of Bhagalpur and Purnea is controlled by the health officers of the district boards, but the Civil Surgeons still function as Superintendents of Vaccination in the districts of Monghyr and Santal Parganas.

The districts of Ranchi and Palamau recorded increases of 4,400 and 1,463 respectively while the districts of Hazaribagh, Manbhum and Singhbhum recorded decreases of 7,807, 3,248 and 53,058 respectively. The Civil Surgeons still continue to be the Superintendents of Vaccination in these districts because Health Organisation Scheme has not yet been introduced to them.

6. Vaccination in towns and compulsory areas.—Statement V shows that during the year 15,547 children under one year of age out of an available number of 25,503 or 60.96 per cent were successfully vaccinated.

The towns of Bihar, Dinapur, Tikari, Arrah, Jagdishpur, Sasaram, Sahebganj, Deoghar, Dumka, Hazaribagh, Giridih, Ranchi, Lohardaga, Daltonganj, Purnea and Jamshedpur show the smallest proportion of vaccination work done. 7. Protection of infants.—During the year under report the number of children under one year available for vaccination was 983,017 and the number of successful operations was 273,466 or 278 per thousand as against 276,796 or 267 per thousand successful operations out of 1,037,551 available children during the previous year. The protection of infants in municipalities is separately shown in Statement V. It gives a ratio of 661 per thousand of the surviving infant population as compared with 628 per thousand in the previous year.

These figures still remain unsatisfactory inasmuch as they show that nearly three-fourths of the total number of infants under one year were left unvaccinated in the rural areas and a little less than two-fifths in the municipal areas. This is attributed to the common prejudice of the people against vaccination at an early age. Though primary vaccination has been made compulsory in the majority of the districts and all municipal towns in the Province, vaccination to the infants and children is avoided by many people. There are obvious advantages in retaining the present age limit for compulsory primary vaccination. No untoward complication occurs after early vaccinations and the people should be educated in the benefit of early vaccination because the sooner an unprotected child is vaccinated, the quicker it acquires protection against the disease and ceases to remain a scurce of danger to the community.

8. Incidence and mortality of small-pox.—The total number of deaths that occurred from small-pox in the province during the last ten years was 154,355.

9. Prevention of small-pox.—The proportion of vaccinated persons in the province still remains far below the figure necessary to prevent epidemic outbreaks and although the total annual vaccination operations amount approximately to two millions or so, these are quite insufficient to ensure the immunity of the total population against small-pox. Hence the incidence of this fell disease continues to remain high. This state of affairs is not so much due to insufficiency or inefficiency of the existing arrangement for vaccination in the province, but is chiefly due to the inherent apathy of the public towards the simple and efficient method of protection. Small-pox is a preventable disease and vaccination can prevent it. In the light of this knowledge and in face of the unsatisfactory vaccination state of the people, there is a great necessity for a more vigorous and complete vaccination policy. Primary vaccination has been made compulsory for many years in all municipal towns, but all the provisions of the Act do not appear to be rigidly enforced with the result that a great proportion of the children do not get vaccination until they cross the first year of their lives. Besides a large number of unvaccinated persons are to be found in every municipal town.

The incidence of small-pox can be definitely prevented provided repeated vaccinations are practised, but re-vaccinations are always accepted with reluctance and the people do not seem to realise that immunity conferred by primary vaccination wears out within 5 to 7 years. Thus during epidemics the percentage of protected persons is small and not until the disease has had its toll that the public realise the importance of re-vaccination. Prejudices born of ancient traditions die hard and appear to be the chief obstacle in the way of pushing vaccination among the masses. Much of the efforts of the public health staff has, therefore, to be directed towards overcoming these obstacles. Vaccination operations are easily done and generally cause no complications. No case of encephalitis following vaccination has so far been recorded in this province.

Almost all the district boards with health organisation scheme, have now assumed the responsibility of the control of vaccination in the rural areas and the cost of running the vaccination schemes is insignificant.

The Bengal Vaccination Act is enforced in the districts of Patna, Gaya, Hazaribagh, Muzaffarpur, Darbhanga, Saran, Purnea, Champaran and Bhagalpur and arrangements are being made to extend it to the district of Shahabad. Introduction of the Act in all the remaining districts of the province and definite arrangement for re-vaccination are necessary.

10. Inspection of work.—During the year under report the Assistant Directors of Public Health inspected 44,619 vaccinations (30,811 primary and 15,808 re-vaccinations) as against 50,139 in the previous year.

The Assistant Directors of Public Health performed vaccination inspection tours of 14 districts as compared with 15 in the previous year. Valuable reports were submitted on the work done in each of these districts.

11. The Superintendents of Vaccination of the province inspected 43,309 primary and 13,739 re-vaccinations against 51,130 primary and 9,520 re-vaccinations last year. The Vaccine Depot, Namkum, continued to supply the province with vaccine throughout the year. A large supply of vaccine is held in reserve and ample stock of the necessary stores and supplies for the manufacture is maintained. 3,353,686 doses of vaccine were manufactured during the year as compared with 2,993,183 doses last year. 3,212,580 doses were issued as against 3,298,463 in the previous year and 4,891,045 doses were left in stock at the end of the year. The number of cattle used during the year was 1,118 as compared with 949 in the previous year. The average yield of crude vaccine was 33,033 grammes per animal. The total expenditure of the Vaccine Depot amounted to Rs. 37,185 during the year as compared with the expenditure of Rs. 30,232 of the previous year. The average cost of the vaccine per dose came to 2.12 pies when calculated on the gross expenditure. The sale proceeds of vaccine lymph was Rs. 27,769 as compared with Rs. 35,264-4-3 of the previous year.

12. Vaccine Depot and Cold Storage.—There was no serious outbreak of any epidemic disease among the calves. Only a few had a mild attack of foot and mouth disease but the outbreak was promptly checked. Only nine calves died after admission into the Vaccine Depot, the death rate being 0.8 per cent during the year as compared with the same rate of previous year. Besides vaccine lymph, cholera, plague and influenza vaccines were also as usual stocked at the Depot.

13. Experimental work.—The following is a summary of the experiments carried out by the Superintendent during the year :—

- Vaccine lymph diluted with glycerine shows a tendency to acid re-action on keeping. This change of re-action which is more rapid in the room temperature than in the cold storage indicates deterioration of the lymph.
- (2) Experiments have been started to find out if redeveloped pocks on calves can be used with any advantage. So far the results obtained have not been conclusive.
- (3) Experiments have been taken up to find out if weak solution (1 per cent), of carbolic acid can be used with advantage to make vaccine lymph free of other germs sooner and fit for use in emergency.

(4) Experiments have been started to find out whether the paste made from the crude pulp preserved in crude form in the cold chamber retains the potency to the fullest extent.

14. Cost of the Department.—The total cost of the Vaccination Depart-ment excluding that of the Vaccine Depot during the year, as noted in Statement I was Rs. 59,081 as against Rs. 68,819 in the previous year. The cost per each successful operation was ten pies as compared with

nine pies of last year.

15. Personnel .- In conclusion, I desire to bring to the notice of Government the good work done by the Assistant Directors of Public Health in their respective circles.

Dr. B. P. Mozoomdar was in supervising and controlling charge of the Vaccine Depot in addition to his own duties whilst Dr. C. N. Banerji continued as Superintendent of the Depot. Both the officers showed great keenness and interest in all matters connected with the Depot.

> S. L. MITRA, LT.-COL., I.M.S., Director of Public Health, Bihar.

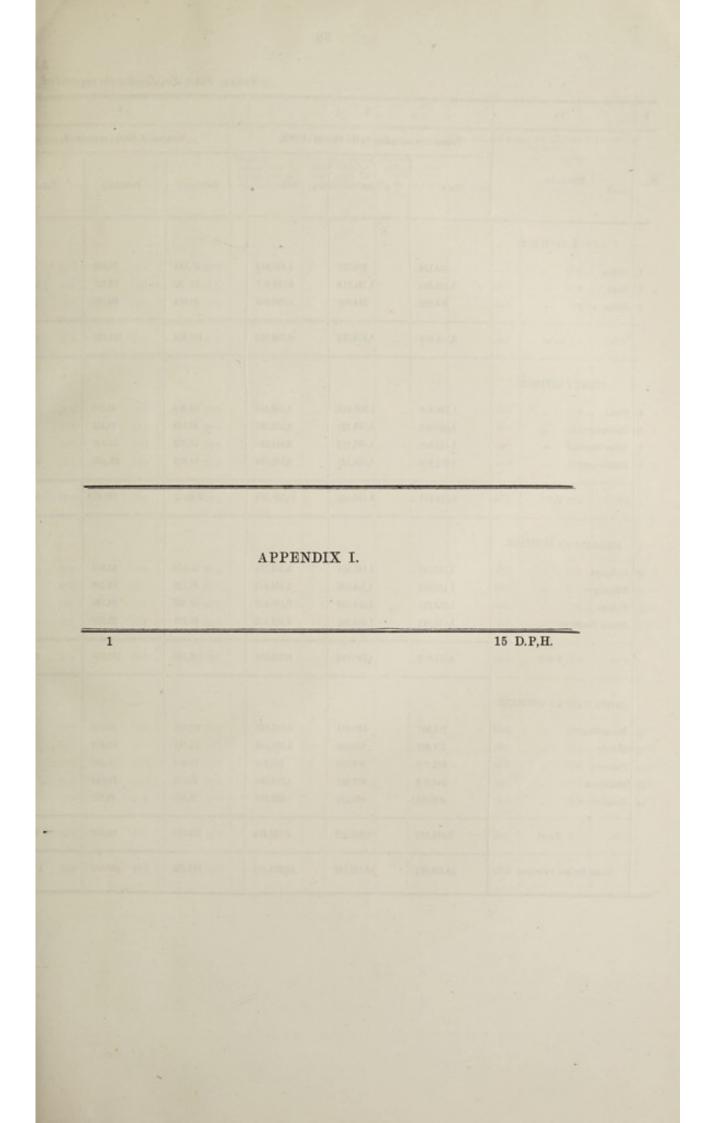
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			1Burths	A	PP
Annual	Form	No.	1 Burths	registered	in.

1	ź			3		4					
-			Population ac	cording to the Cen	sus of 1931.	Num	ber of Births regist	ered.			
No.	Districts.		Male.	Female.	Total.	Male.	Female.	Total.			
-	PATNA DIVISION				-						
1	Patna		956,124	890,350	1,846,474	35,140	\$3,643	68,5			
2	Gaya		1,193,643	1,194,819	2,388,462	55,790	53,713	109,1			
3	Shahabad		999,099	994,390	1,993,489	43,004	39,183	82,1			
	Total		3,148,866	3,079,559	6,228,425	183,984	126,539	260,4			
	TIRHUT DIVISION										
4	Saran		1,220,049	1,266,419	2,486,468	49,804	46,495	95.1			
5	Champaran		1,080,956	1,064,731	2,145,687	42,015	39,415	81,			
8	Muzaffarpur		1,443,847	1,497,178	2,941,025	58,359	55,449	113,			
7	Darbhanga		1,570,959	1,595,135	3,166,094	54,893	52,460	107,			
	Total		5,315,811	5,423,463	10,739,274	204,571	193,816	398,			
	BHAGALPUR DIVISI	ON.									
8	Monghyr		1,145,797	1,141,357	2,287,154	43,348	42,832	88,1			
9	Bhagalpur		1,130,584	1,104,048	2,234,632	37,120	35,198	72,5			
10	Purcea		1,129,681	1,056,862	2,186,543	37,393	34,106	71,4			
41	Santal Parganas		1,025,921	1,025,551	2,051,472	26,978	25,539	52,0			
1	18,80	0.02									
	Total		4,431,983	4,327,818	8.759,801	146,899	137,675	284,5			
	CHOTA NAGPUR DIVIS	ION.									
12	Hazaribagh		751,956	765,401	1,517,357	23,942	22,938	46,8			
13	Banchi		777,063	790,086	1,567,149	23,781	23,474	47,5			
14	Palamau		409,778	408,958	818,736	17,413	17,207	\$4,6			
15	Manbhum		940,009	870,881	1,810,890	25,970	23,944	49,9			
16	Singhbhum		469,421	460,381	929,802	11,166	10,799	21,9			
	Total		3,848,227	3,295,707	6,643,934	102,272	98,342	200,6			
	Total for the Province		16,244,887	16,126,547	32,371,434	587,616	556,392	1,144,0			

89

I. riets of Bihar Province during the year 1986.

	5		6	7	8		9		10
Bstio of birt	hs per 1,000 of p	opulation.		N	Excess of	lean ratio of birtl	hs per 1,000 durin vo years.	g previous	1
Male.	Female.	Total.	Number of males born to every 100 fe- males born.	Excess of births over deaths per 1.000 of population.	deaths over births per 1,000 of popu- lation.	Male.	Female.	Total.	N
									1
19-0	18-2	37-2			-	17-1	16.3	33.4	i
233	22-5	45-8	1	-i.		22.4	21.5	43.9	
21.6	19-6	41-2				20-3	18.7	39-0	
21.2	20-3	41:8				20.1	19.1	39-2	
19.8	18.7	285				18.4	17.5	359	
19-6	183	37-9				16.6	16-0	32.6	
19.8	18-8	38-6				17.7	16-8	34-5	
173	16-6	33-9				16-2	15-3	31-5	
19.0	18-0	87.1				172	16.4	33-6	
19-9	18-9	38-8				19-3	18-1	37.4	
10.6	15-7	32-3				15.8	15-1	30.9	
175	15-6	32 7		***		15'1	13-9	29-0	
13-1	124	25-5	110			14.5	140	28.5	
168	15-7	82-5	188			16.3	15-3	31.6	
				1	1				
15-7	15-1	30'8			***	18-6	18.0	36-6	
15.2	14.9	- 30-1	4			16.2	16-2	32-7	
21.3	21.0	42-3		1.0		21.7	21.0	42.7	
14.4	13-2	276				14-6	14.0	28.6	
190	11.0	23-6				13-2	12.7	25.9	
15-4	14-8	\$0.2	÷			16-7	16.1	32-8	-
18-1	17-2	35-3	106	13-6		17.4	16.6	34-0	1

	1000	100	100	
A	D	D I	60	N
- 23			Ŀ.	

Annual Form No. IA .- Births registered according to class in each town and rural areas in

1 and a second second		1			3	
		Christians,			Hindas.	
Registering circle.	Male,	Female,	Total.	Male.	Female,	Total.
Patna.						
Patna town	 1		1	1,248	1,158	2,40
Bihar town	 			271	. 276	512
Dinapur Nizamat town	 			156	156	31:
Dinapur Cantonment	 1		1	100	105	200
Barh town	 			157	144	30
Khagole town	 			86	65	15
Total of towns	 2		2	2,012	1,904	3,91
Total of rural	 			30,393	29,123	59,51
. Total of district	 2	•	2	82,405	31,027	63,43
GATA.						
Gaya town	 			1,158	968	2,12
Tikari town	 			85	86	17
Daudnagar town	 			195	178	37
Total of towns				1,438	1,232	2,67
Total of rural	 			49,241	47,503	96,74
Total of district	 			50,679	48,735	99,41
SHAHABAD.						1
touch town				210	153	36:
Parent term	 	1		165		291
hammen terre	 2		2	118	.126	20
Jagadispur town				80	77	15/
Sasaram town	 			250	202	45
Bhabua town	 			67	65	13:
Total of towns	 2	1	3	890	714	1,00
Total of rural	 3		3	39,508	36,236	75.74
Total of district	 5	1	6	43,398	36,950	77,34

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DIX I-contd.

the districts of Bihar province during the year 1936-contd.

	4			5			6			7	
1	Mubammadaus			Buddhist			Other Classes,			Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total,	Male.	Female.	Total,
817	264	581							1,560	1,422	2,982
84	91	175							355	867	722
42	45	87							198	201	399
34	34	68							135	139	274
35	29	74		*					192	183	875
21	10	31							107	75	182
533	483	1,016							2,547	2,387	4,934
2,200	2,133	4,333							32,593	31,256	63,849
2,733	2,616	5,349							35,140	33,643	68,783
1012	811				-		-				of multi-12
265	218	183	-						1,423	1,186	2,609
33	28	61							118	114	232
-44	44	88							239	222	461
342	290	632	12.00		12.5		1 (P)		1 700	1 500	3,302
4,769	4,688	9,457							1,780 54,010	1,522 52,191	106,201
5,111	4,978	10,089							55,790	53.713	109,503
-112	051							-		-	rat [empla.]
82	73	153							292	226	518
27	43	70							192	170	360
20	8	28							140	90	239
30	19	49							110	96	206
102	88	190							352	290	642
33	26	59							100	91	191
294	257	551							1,186	972	2,158
2,307	1,975	4,282							41,818	38,211	\$0,029
2,601	2,232	4,833							43,064	39,183	82,187
1 400.14	100,1		12.04.				-			and his	
2										15 D	. Р. Н.

1			2			3	
Total	1		Christlans,		elditer (Hindus.	and the
Registering circle.	June	Male.	Female,	Total.	Male,	Female.	Total.
SARAN.							
Chapra town					659	554	1,24
Revelganj town					149	119	26
Siwan town		-			185	178	36
Total of towns					1,023	851	1,87
Total of rural					38,429	36,919	75,34
Total of district					39,445	37,770	77,21
CHAMPABAN.			-				
Bettiah town		49	48	97	362	320	683
Motihari town				•••	138	118	256
Total of towns		49	48	97	500	438	938
Total of rural		11	11	22	34,740	32,739	67,479
Total of district		60	59	119	35,240	33,177	68,417
MUZAFFARPUR.	1.37						22.0
Muzaffarpur town			1	1	431	373	804
Bitamarhi town					148	131	279
Hajipur town					323	285	605
Lalganj town					, 161	150	311
Total of towns			1	1	1,063	939	2,005
Jotal of rural		10	10	20	49,995	47,554	97,549
							07,010
Total of district		10	11	21	51,055	48,493	99,551
DARBHANGA.							100
Darbhanga town					899	732	1,631
Roserah town					131	116	247
Samastipur town					105	101	206
Madhubani town					186	214	400
Total of towns					1,821	1,163	2.00
Total cf rural					46,700	44,804	2,484 91,504
and of							01,004
Total of district					48,021	45,967	93,988

Annual Form No. IA .- Births registered according to class in each town and rural areas

in the districts of Bihar province during the year 1936-contd.

	4			5		1	6			7	
Mahamm	adans.	ing H	B	addhists.		0	ther Classes,			Total,	
Male.	Female.	Total.	Male.	Female	. Total.	Male,	Female.	Total.	Male.	Female.	Total.
											-
194	137	331							883	691	1,574
53	43	96						. ,	202	162	364
81	66	147							266	244	410
328	246	574				2		-	1,351	1,097	2,448
9,531	8,479	18,010							47,953	45,398	93,351
9,859	8,725	18,584							49,304	46,495	95,799
					<u> </u>						
Cash.	11	- 10			-			T-			and and the
216	193	409							627	561	1,188
62	56	118							200	174	374
278	249	527							827	735	1,562
6,437	5,930	12,367							41,188	38,680	79,868
-			-	_							
6,715	6,179	12,894							42,015	39,415	81,430
INS .	1 ST	1 10 10		-		1		1	-	110 2	Protona to-
152	149	301							583	523	1,106
36	27	63							184	158	342
67	58	125							- 390	343	733
22	35	57							183	185	368
277	269	546	8						1,340	1,209	2510
7,014	6,673	13,687					2		57,019	64,237	2,549 111,256
										- ine-	111,200
7,291	6,942	14,233							58,359	55,446	113,805
									ALTAORA	S PATRIN	
343	273	615							1,241	1,005	2,246
4		4							135	116	251
00	22	55							138	123	261
94	100	194							280	814	594
473	395	868							1,794	1,558	3,352
6,399	6,098	12,497					-		58,099	50,902	104,001
6,872	6,493	13,365	1.81			100	11	-	54,893	52,460	107,353
0,072	C,100	10,000							1		

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Annual Form No. IA Births regis	stered according to class in	each town and rural areas
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	1				3			3	
	Registering	g eirele.			Christians.		deciliaren .	Hindus.	Assessments M.
	- 11	an M	.taret	Male,	Female.	Total.	Male	Female.	Total.
	Mosei	IYB.					1		1-22
Monghyr	town						672	567	1,239
Jamaipur			1	5	2	7	434	425	869
014						1		10	
T	Cotal of towns			5	2	7	1,106	1,002	2,108
2,449	Cotal of rural	100,0	· -	10	7	17	39,948	37,629	77,577
1111,59	805,84	6.09,50		10			50,000	01,000	102.0
т	Cotal of distric	t	-	15	9	24	41,054	38,631	79,685
007,00	044,04	100,01		10		-1		00,001	10,000
	BHAGALP	UB.				!			
Bhagalpur	r town						820	722	1,545
Colgong to	own						90	65	150
									-
Т	otal of towns						910	757	1,693
T	otal of rural	255					33,117	\$1,626	64,743
Т	otal of district						34,027	32,413	66,440
	PURNE	Α.							
Purnea tov					1	1	129	112	241
Kishengan	ij town	L.C					42	34	76
Katihar to	wn	··· 19					65	61	126
Forbesganj	j town						64	29	93
T.	otal of towns		1	_	1	1	300	236	
	otal of rural				1	2			536
007,111	otal of ruras	000,54		2		2	21,731	19,882	41,613
	otal of district						20.001		
113,805	otal or district			2	1	- 3	22,031	20,118	42,149
	SANTAL PAI								1.000
									1
Bahibganj							59	56	115
Deoghar to							45	45	90
Dumka tow					1	1	31	30	61
Madhupur	town				••		36	32	68
	1.1.4.		-						
	otal of towns				1	1	171	163	334
Te	otal of rural	00.22		75	67	142	13,280	12,502	25,782
	and of States		-						
Te	otal of district	046.00		75	68	143	13,451	12,665	26,116

in the districts of Bihar province during the year 1936-contd.

	4	1		5		e.	6			,	
Ма	bammadans.	Reade		Buddhists			Other Classes.			Total.	
Male,	Female.	Total,	Male,	Female.	Total.	Male,	Female.	Total.	Male.	Female.	Total.
							1		.116.	mann	
144	126	270							816	639	1,509
94	75	169							533	612	1,045
238	201	439							1,349	1,205	2,554
4,041	3,991	8,032			11				43,999	41,627	84,626
4,279	4,192	8,471							45,348	42,832	88,180
428 - 44	214		-	-	25	10	- 00	-			pros Elsardi
162	127	289							982	849	1,831
28	15	43							118	80	198
Contract_							149		-		
190	142	832							1,100	929	2,029
2,903	2,643	5,546							36,020	34,269	70,289
3,093	2,785	5,878				:			37,120	35,198	72,318
116494											
55	45	100							184	158	342
37	25	62							79	59	138
29	19	48							91	80	174
34	23	62							98	57	155
155	117	272							455	351	809
15,070	13,718	28,788	135	150	285		2	2	36,938	33,752	70,690
15,225	13,835	29,060	135	150	285		2	2	87,393	34,106	71,499
147	67		2		8	1	0				Clear In case bi
001 4	2	6							63	58	121
11 11		11							56	45	101
100 7	3	10				7	11	18	45	45	90
4	5	9				1		1	41	37	78
26	10	36			×	8	11	19	205	185	390
3,366	2,980	6,346				10,052	9,805	19,857	26,773	25,354	52,127
3,392	2,990	6,382			2.062	10,060	9,816	19,876	26,978	25,530	52,517
-										15 D	DH

15 D.P.H.

1 1				2			3	
.in P			Case o.	Christians,		and the set	Hindus.	
Begisterin	g circle.	i				1	[
		-ta ta	Male,	Female,	Total.	Male,	Pemale.	Total.
HAZABI	BAGH.							
Hazaribagh town	- 10.0					183	155	141 335
Chatra town	184					52	56	100
Giridih town						79	17	121
Total of town	8					307	268	57
Total of rural	10.000		6	5	11	20,775	20,015	40,79
Total of distri	ict		6	5		21,082	20,283	41,365
43,812 88,100							103,7 009,3	6.000
RANC	E1.						-	
Ranchi town			40	36	76	128	106	23
Lohardaga town			4	1	5	64	50	110
Total of town	10.5		44	37	81	192	1,56	34
Total of rural			3,149	3,232	6,381	7,660	7,630	15,29
Total of distri	iet		3,193	3,269	6,462	7,852	7,786	15,63
PALA	WAU.						A.I.S. 648.0	809.2
Daltonganj town						88		1 and and
Total of rural	021.22		216	202	418		59	14
Total of distri				202		15,623	15,563	31,18
Point of distri	cs		810		418	15,709	15,622	31,331
MANBE	и м.						4. 25	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Paralia town			13	3	16	245	231	47
Raghunathpur town						114	90	20
Jhalda town						119	104	223
Dhanbad town			1	1	2	169	117	28
Total of towns			14		18	645	548	1,18
Total of rural	35h		68	54	122	22,175	20,609.	and the second
000,07 247,08	810,75	2						42,78
Total of distri	et		82	58	140	22,820	21,151	43,97
SINGHE	HUM.	2	1.5		- 300	1001 100	61.00 20.04	1
Chaibassa town			5	3	8	-		
Chakradharpur town			8		4	75	72	143
Jugsalai town			2	1 2		85	63	14
101 100	· · ·		100	1.14	-4	114	1 120	23
Jamshedpur town	30	0.00	2	3	5	158	108	26
Total of towns		1	12	9		427	363	79
Total of rural			130	96	226	4,870	4,732	9,61
Total of distr	icts		142	105	247	5,306	5,095	10,40
Province.		10,807		eroper			1000	10,40
Total of town			128	104	232	12,391	10,817	23,200
Total of rural	10,00	100.00	3,680	3,684	7,364	468,187	445,066	913,253
Total of distri	iots		3,808	3,788	7,596	480,578	455,883	936,46

Annual Form No. IA .- Births registered according to class in each town and rural areas

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M T T T T BT

in the districts of Bihar province during the year 1936-concld.

T	4	1.0.1		8			6			7	
N	(uhammadans,			No ddhiete			Other classes.			Total.	
Male,	Female,	Total.	Male.	Female.	Total.	Male.	Female,	Total,	Male.	Female.	Total.
	(nanip	Norma Rec.	10,00	1	Tatho T	anters [alas a	Contraction of the second			
83	62	145							266	217	48:
26	19	45							78	75	15
46	32	78							118	89	20
155	113	268							463	381	84
2,515	2,224	4,539				384	313	697	23,450	22,557	46,03
2,470	2,337	4,807	····			384	313	697	23,942	22,938	46,88
					1					tracit title	
64	67	131				29	8	37	261	217	47
35	17	52				5	4	9	108	72	18
99	84	183				34	12	46	369	289	65
958	1,024	1,982				11,645	11,299	22,944	23,412	23,185	46,59
1,057	1,108	2,165				11,679	11,311	22,990	23,781	23,474	47,25
	C. M. A.	P.G. DAT	20012			1 11			Surveyority Say	Linter+	
24	18	42							110	77	18
1,455	1,356	2,811				9	9	18	17,303	17,130	34,43
1,479	1,374	2,853	1.9			9	9	18	17,413	17,207	34,62
1,470	1,074	2,000									
		6	8						1) erro	Sugaritan	0
28	26	54							286	260	54
2	2	4							116	92	20
3	3	Lintat 6	000.1						122	107	22
20	16	48				1		1	195	134	32
59	47	106	1415			1		1	710	593	1,31
1,342	1,189	2,531				1,666	1,499	3,165	25,251	23,351	48,60
1,401	1,236	2,637				1,667	1,499	3,166	25,970	23,944	49,91
		47	3		23					crupt dans	1
			3				40	80	128	131	25
14	10	24				34	46	1	99	75	1 17
10	11	21				1	2	3	131	138	26
14	14	18				1		6	175	123	29
16	10	26				4	2		533	467	1 1,00
54	45	99				40	50	90		10,332	20,96
66	60	126				6,558	5,444	11,002	10,633	10,000	
120	105	295				5,598	5,494	11,092	11,166	10,799	21,96
9.505	9.020	6,191					73	156	16,127	13,960	30,08
3,525	2,966	135,334	135	150	285	29,314	28,371	57,685	571,489	542,432	1,113,92
70,173	65,161	130,334	130	150	285	29,397	28,444	57,841	587,616	556,392	1,144,00

- 4	P	DI	177	đ.
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1	1		2			3	
Alexandra State		. 1034	Christians.		and them	Hindus.	-
Registering circle.		Male.	Female.	Total.	Male.	Female.	Total.
Patna.						241	100
Patna town					25	14	39
Bihar town					4	3	7
Dinapur Nizamat town					4	1	5
Dinapur Cantonment					2	2	4
Barh town					2		2
Khagole town					2	2	4
Total of towns					39	22	61
Total of rural					1,625	1,313	2,938
AN A AN A A A A A A A A A A A A A A A A					-		
Total of district					1,664	1,335	2,999
GATA.	Ì		_		-	C4	100
1002 27 2002 77	11.		-		67	47	114
Gaya town					7	1.000	11
Fikari town					8	3	11
Daudnagar town					0	J	-
Total of towns	1				82	54	136
					1,333	1,161	2,494
Total of rural					2,000	1,101	-,
Total of district					1,415	1,215	2,630
	101.4	9.4.2				1000	that the second
SHAHABAD.	1010		77.9.7	1000		tona T	ME.I
Arrah town					1		1
Buxar town					1		1
Dumraon town							
Jagadispur town							
Sasaram town							
Bhabua town							
Total of towns	•				2		3
Total of rural					42	24	60
Total of district					44	24	68

Annual Form no. IB .- Still births registered according to class in each town and rural

areas in the districts of Bihar province during the year 1936-contd.

	4			5			6			7	
Mul	hammada	D8	E	udhists.		Otl	her Classe	8.		Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
										. Markad	
7	4	11			· ·			··	32	18	50
1	1	2						· · ·	- 5	4	9
					·			••••••	** 4	1	5
	1	1							2	3	5
	:								. 2		2
									2	2	4
				_							
8	6	14							47	28	75
38	36	74							1,663	1,349	3,012
46	42	88						••• •	1,710	1,377	3,087
					1					See to the	
			199.5	1.	1		1			nin 15 le	1
16	12	28				••			83	59	142
	1	1							7	5	12
3		3							11	3	1.
19	13	32							101	67	168
90	69	159							1,423	1,230	2,653
109	82	191							1,524	1,297	2,821
PC-KA		-	TATE	1			-				
									1		1
									1		1
	1	1								1	1
	•• •										
	1	1							2	1	
9	7	16							51	31	85
9	8	17							53	32	84

A)		

1			2			3					
Registering circle.			Christians.		equinent.	Hindus.					
registering circle.	1.12	Male.	Female.	Total.	Male.	Female.	Total.				
SARAN.	-										
Chapra town					25	15	40				
Revelganj town					3	2	5				
Siyan town					5	2	7				
Total of towns		···· ·		· · · · ·	33	19	52				
Total of rural		· ·			1,940	1,532	3,472				
Total of district					1,973	1,551	3,524				
						the ta	10				
Снамравая.											
Bettiah town					7	6	13				
dotihari town					2	3	5				
Total of towns					9	9	18				
Total of rural		1		1	1,547	1,237	2,784				
Total of district		1		1	1,556	1,246	2,802				
5		** **	1.11	54	1. 1. 1.	1 1 2	1				
MUZAFFARPUR.						1					
duzaffarpur town					15	19	34				
Sitamarhi town			•• , .		3	8	11				
Tajipur town					3	1	4				
Lalganj town					2	9	11				
Total of towns		· · · ·		· · ·	23	101 37	60				
Total of rural		1		1	2,734	2,092	4,826				
Total of district		1		1	2,757	2,129	4,886				
DARBHANGA.		** *			-		1.00				
Darbhanga town					1	01					
loserah town					14	21	35				
amastipur town							• 3				
fadhubani town					2	1	2				
Total of towns	-				10						
Total of rural					18 908	24 730	42				
Total of district					000	130	1,638				

Annual Form no. IB .- Still births registered according to class in each town and rural

areas in the districts of	f Bihar province during	g the year 1936-contd.
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	4			5			6			7	
Mul	hammada	ns.	B	udhists.		Otl	her Classe	ø.		Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
-				+							
2		2							27	15	42
									3	2	5
									5	2	7
2		2	172.7	· · ·			·		35	- 19	54
198	192	390							2,138	1,724	3,862
200	192	392				·	·		2,173	1,743	3,916
	• *	*	-	+	1			-			
2	1	3	-						9	7	16
	1.1.1		i.						2	3	5
100	1.2.31		1						1		-
2	1	3		·					11	10	21
271	224	495							1,819	1,461	3,280
273	225	498							1,830	1,471	3,301
											Stan Den M
4	7	11							19	26	45
1		1							4	8	12
									3	1	4
									2	9	11
5	7	12							28	44	72
603	456	1,059							3,338	2,548	5,886
608	463	1,071							3,366	2,592	5,958
										11007.80	pi B. M
	1	1							14	12	26
									1	2	3
									2		2
									1	1	2
	1	1							18	25	43
58	53	111							966	783	1,749
58	54	112							984	808	1,792

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1	_		2		3 Hindus.					
T		(Christians.							
Registering circle.	14	Male.	Female.	Total.	Male.	Female.	Total.			
Monghyr.										
Monghyr town					9	2	11			
Jamalpur town		1		1	12	8	20			
Total of towns		1		1	21	10	31			
Total of rural					1,618	1,475	3,093			
Total of district		1		1	1,639	1,485	3,124			
BHAGALPUR. Bhagalpur town		-			35	30	64			
Colgong town					1	1				
Total of towns					36	31	67			
Total of rural					319	304	62			
Total of distric					355	335	690			
					000					
PURNEA.					4	4	200.			
Kishenganj town					1		1			
Katihar town					2	3				
Forbesganj town					2		1			
Total of towns				·	9	7	1			
Total of rural					738	569	1,30			
Total of district					747	576	1,32			
SANTAL PARGANAS					1					
Sahibganj town										
Deoghar town						anti-				
Dumka town						1011 015	1.00			
Madhupur town										
Total of towns										
Total of rural		1		1	95	45	14			
Total of district		1		- 1	95	45	14			
HAZARIBAGH. Hazaribagh town					1					
Chatra town	••									
Giridih town						2				
Total of towns Total of rural	::				1 362	2 246	60			
Total of district					363	248	61			

Annual Form no. IB .- Still births registered according to class in each town and rural

areas in the districts of Bihar province during the year 1936-contd.

	7			6			5			4	
	Total.		8.	her Classe	Ot		Budhists.	I	ns.	ammada	Mul
emale. Total.		Male. Fem		e. Female. Total. Male. Female. Tota		Male.	Total.	Female.	Male.		
	mention										
1	5	11							5	3	2
2	8	13									
3	13	24							5	3	2
3,91	1,845	2,067							819	370	449
3,94	1,858	2,091							824	373	451
								-		CIE	
7	35	38							8	5	3
rgino 16	1	1									
7	36	39							8	5	3
77	382	396							155	78	77
85	418	435							163	83	80
	annie 1										
	4	5							1		1
		4							3	•••	3
	4	5							4	1	3
1 -drus	2	2									
2	8	16							8	1	7
2,45	1,058	1,392							1,143	489	654
2,47	1,066	1,408							1,151	490	661
•••											
											••
••											
		145		34	··. 46	::			6	3	•• 3
22	82	145	80	34	46				6	3	3
		1						-			031
	2										
	2	1			·						0170
650	263	387			(42	17	25
653	265	388							42	17	25

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1			2		. 3					
Registering circle.			Christians.		Hindus.					
Actual concerns and		Male.	Female.	Total.	Male.	Female.	Total.			
RANCHI.										
Ranchi town					1	3	4			
Lohardaga town		2	4	6	2	4	6			
Total of towns		2	4	6	3	7	10			
Total of rural		128	106	234	387	308	695			
Total of district		130	110	240	390	315	705			
PALAMAU.							in the second se			
Daltonganj towa										
Total of rural		4	2	6	331	252	583			
Total of district		4	2	6	331	252	583			
MANBHUM.										
Purulia town	•••									
Raghunathpur town	••				1	1	2			
Jhalda town	•••					1	1			
Dhanbad town					1		1			
Total of towns					2	2	4			
Total o' rural					295	217	512			
Total of district					297	219	516			
SINGHBHUM.										
Chaibassa town										
Chakradharpur town		1	1	2	2		2			
Jugsalai town			=							
Jamshedpur town					3	1	4			
Total of towns		1	1	2	5	1	6			
Total of rural					93	63	156			
Total of districts o Province.	of	. 1	1	2	98	64	162			
Total of towns		4	5	9	283	225	508			
Total of rural		135	108	243	14,367	11,568	25 935			
Total of districts		139	113	252	14,650	11,793	26,443			

Annual Form no. IB .- Still births registered according to class in each town and rural

areas in the dis	stricts of Bihar	province during th	he year 1936-concld.	
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	4			5			6		7					
Mul	Muhammadans.			Budhists.		Ot	her Classe	8.		Total.				
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.			
									1	- 3	4			
1		1				1		1	6	8	14			
1		1				1		1	7	11	18			
114	106	220				208	124	332	837	644	1,481			
115	106	221				209	124	333	844	655	1,499			
	-		- HER				-	2.07						
15	16	31							350	270	620			
15	16	31							350	270	620			
									1	1	2			
										1	1			
1	1	2							2	1	3			
1	1	2							3	3	6			
1	2	3				1	1	2	297	220	517			
2	8	5				1	1	2	300	223	523			
		- sure						1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						
									3	1	4			
									3	1	4			
									6	2	8			
2		2				89	67	156	184	130	314			
2		2				89	67	156	190	132	322			
50	39	89				1		1	338	269	607			
2,607	2,118	4,725				344	226	570	17,453	14,020	31,473			
2,657	2,157	4,814				345	226	571	17,791	14,289	32,080			

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-	1		2					3	4		6			
						Othes Clause				re mile.	Number of deaths registered.			
ю,	Later			Distric	st.				ź	n bez ed n	-	-		of males
									Area in square miles.	Årorage population per square mile.				Number of deaths of males to every 100 deaths of females
		-	•	1		-			Area in	Average	Male.	Female.	Total.	Number o
			PA	TNA DIV	ISION.							1		
1		•• []]	•••					***	2,068	893	19,489	18,420	37,909	
24					100 **				4,714	\$06	29,367	26,782	56,149	
3	Shahabad								4,872	456	22,044	21,440	43,484	
					Total				11,154	558	70,900	66,612	137,542	
	- Aller	-	TIRE	IUT DIVI	SION.									
4	Garan								2,683	927	26,123	24,142	50,265	
5	Champaran	-							8,531	607	24,218	20,835	45,053	
6									8,036	968	37,819	33,983	71,252	
7	Darbhanga .	-							8,348	945	85,5%	31,955	67,479	
					Total				12,598	852	123,184	110,865	234,049	
	1.00	BHA	BALF	UR DIVI	810.8.									
8	Monghyr .					· · · · · ·			3,927	583	26,990	24,855	51,845	
9	Bhagalpur .								4,2:26	528	28,497	25,771	54,268	
0	CONTRACTOR OF A								4,972	439	29,173	25,760	54,933	
1	Santal Pargana								5,458	375	20,387	16,999	87,296	
	- 154				Total		-		18,583	471	105,047	93,295	196,342	
		CHOTA	NAG	OPUR DI	VISION									
2									7,021	216	15,885	13,974	29,859	
3	Ranchi .								7,102	220	17,280	15,166	82,446	
5	Palaman .								4,916	166	11,437	10,211	21,648	
5	Manbhum								4,095	442	17,996	14,656	32,632	
6	Singhbhum							-	3,879	239	8,265	7,031	15,296	
1	514				Total		· · ·		27,013	235	70,843	61,038	131,881	
	Total for t	ha Pros	rince						69,348	465	369,974	331,840	701,814	111

Annual Form No. 11 .- Statement of Births and Deaths registered

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in the districts of Bihar Province, during the year 1936.

understand underst						2	7						8		9
No 1 <td< th=""><th></th><th></th><th></th><th>Death-r</th><th>ate per 1,</th><th>000 of po</th><th>pulation fr</th><th>om-</th><th></th><th></th><th></th><th>Mean ratio áuring pr</th><th>o of deaths revious five</th><th>per 1,000 e years.</th><th> </th></td<>				Death-r	ate per 1,	000 of po	pulation fr	om-				Mean ratio áuring pr	o of deaths revious five	per 1,000 e years.	
0 07 0 5 123 0 9 0 5 0 4 6 2 20 3 20 7 20 5 21 1 21 5 22 5 20 1 28 5 29 1 <th29 1<="" th=""> <th29 1<="" th=""> <th29 1<="" th=""></th29></th29></th29>										All causes.					
007 0.5 123 0.3 0.6 0.2 20.3 20.7 20.5 22.1 22.5 20.1 22.5 20.1 22.5 20.1 22.1 22.5 20.1 22.1 22.6 22.5 20.1 22.1 22.0 22.5 22.1 22.0 22.5 22.1 22.0 22.5 22.1 22.0 22.5 22.6 22.7 22.0 22.5 22.6 22.7 22.0 22.5 22.6 22.7 22.0 22.5 22.6 22.6 22.5 22.6 22.6 22.6 22.5 22.6 22.6 22.6 22.5 22.6 22.6 22.5 22.6 22.6 22.6 22.6 22.5 22.6 22	Cholera.	Small-por.	Plague.	Fovers.	Dysentery and diarrhosa.	Respiratory discases.	Injuries.	All other causes.	Male.	Fomale.	Total.	Male.	Female.	Total.	No.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.07	A-5		1.9-2	03	123	0.4	2.0	00-0	00-7	90-5	000	08-0	00-E	1
03 1.6 1.50 0.92 0.92 0.92 0.46 22.9 21.5 21.8 24.8 24.9 24.4 02 1.0 15.0 0.1 0.2 0.3 5.3 22.5 21.0 22.1 20.0 25.3 25.0 04 05 0.3 11.5 0.1 0.3 0.4 6.9 21.4 15.9 29.9 24.2 29.8 22.5 004 0.5 0.3 11.5 0.1 0.3 0.4 6.9 21.4 15.9 29.9 24.2 29.8 22.5 004 0.7 0.07 10.0 0.04 0.02 0.3 25.9 25.8 25.9 25.7 29.9 24.5 25.7 29.2 24.5 25.7 29.2 24.5 25.7 29.2 24.5 24.3 21.4 22.6 25.8 24.3 21.4 22.6 25.8 24.3 21.4 22.7 22.9 24.5 25.8 24.0 24.19 24.7 22.9 24.5 25.8 24.0					1.000			1. 1. 1. 1.	2.20	30123					2
02 1 m 1 0 0 0 0 1 0 1 0 0 0 004 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1000</td> <td></td> <td>1000</td> <td></td> <td>1.1.1</td> <td></td> <td></td> <td>3</td>								1000		1000		1.1.1			3
00004 01 007 171 002 0006 02 34 924 195 209 936 207 227 001 01 007 210 006 002 03 25 255 226 244 257 232 245 001 02 001 183 005 000 04 21 226 200 213 237 208 222 002 02 01 172 005 000 04 36 232 204 218 243 214 226 002 02 01 172 005 000 04 36 232 204 218 243 214 226 02 06 206 003 003 92 244 252 233 243 244 217 229 1 02 06 206 003 003 92 243 257 233 244 251 239 221 230 1 1	0-2	1.0		15-0	0.1	0-2	0.3	\$.3	22.5	21.6	22-1	26.0	25-3	25-6	
00004 01 007 171 002 0006 02 34 924 195 209 936 207 227 001 01 007 210 006 002 03 25 255 226 244 257 232 245 001 02 001 183 005 000 04 21 226 200 213 237 208 222 002 02 01 172 005 000 04 36 232 204 218 243 214 226 002 02 01 172 005 000 04 36 232 204 218 243 214 226 02 06 206 003 003 92 244 252 233 243 244 217 229 1 02 06 206 003 003 92 243 257 233 244 251 239 221 230 1 1								_							
00004 01 007 171 000 006 02 34 924 195 209 936 207 227 001 01 007 210 006 002 03 255 256 236 237 232 245 001 02 001 183 005 000 04 21 226 200 213 237 298 222 002 02 01 172 005 000 04 36 232 204 218 243 214 226 001 10 169 067 065 03 42 233 218 243 214 226 02 06 206 003 063 92 244 252 233 243 241 217 229 21 230 1 239 221 230 1 1 165 182 205 180 192 1 04 04 12 185 006	0.08	0.5	0.3	11.2	0.1	0.3	0.4	6.9	21.4	18.9	20 5	24.2	20.8	22-5	1
0 10 0 2 0 001 13*3 0 05 0 03 0 4 21 22.6 20 0 21:3 23.7 29.8 22.2 0 02 0 2 0 1 17.2 0 05 0 09 0 4 3.6 23.2 20.4 21:8 24.3 21.4 22.6 0 01 1 0 16*9 0 07 0 05 0 3 42 23.5 21.8 22.6 25.8 24.0 24.9			0.02	17.1	0.05	0.000	0-2	8.4	92-4	19-5	20.9	23.6	20-7	23-7	3
0.1 0.1 1.1 0.1 <t< td=""><td></td><td>0.1</td><td>0.02</td><td>21.0</td><td>0.04</td><td>0-02</td><td>03</td><td>2.5</td><td>25.8</td><td>22.6</td><td>24-3</td><td>25.7</td><td>23-2</td><td>24.5</td><td>6</td></t<>		0.1	0.02	21.0	0.04	0-02	03	2.5	25.8	22.6	24-3	25.7	23-2	24.5	6
001 110 $$ 16° 007 005 003 42 235 218 226 258 240 249 229 02 06 $$ 206 003 003 92 244 2552 233 243 2411 21.7 22.9 02 06 $$ 206 003 003 92 244 2552 233 243 2441 21.7 22.9 02 00 102 112 22.9 205 18.9 19.2 11 0.4 12 $$ 151 005 02 02 198 165 18.2 205 18.9 192 11 0.2 1.2 $$ 185 005 006 02 22.3 23.7 21.5 22.6 23.7 21.5 22.6 23.7 21.5 22.6 23.7 21.5 22.6 23.7 21.5 22.6 23.7 21.5 22.9 20.5 2	0.01	0.3	0-001	18.3	0.02	0.03	0.4	2-1	22-6	20-0	21-3	23-7	20-8	22-2	7
001 1.5 0.0 0.0 0.0 0.0 1.5 <t< td=""><td>0.05</td><td>0.5</td><td>0.1</td><td>17.2</td><td>0.02</td><td>0.09</td><td>0-4</td><td>3.6</td><td>23.2</td><td>20-4</td><td>21-8</td><td>24:3</td><td>21:4</td><td>22-6</td><td></td></t<>	0.05	0.5	0.1	17.2	0.02	0.09	0-4	3.6	23.2	20-4	21-8	24:3	21:4	22-6	
001 1.5 0.0 0.0 0.0 0.0 1.5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.01	1.0		16-9	0.02	0.05	0.3	42	23.5	21.8	22 6	25-8	24.0	24-9	8
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0.5	2.0		21.4	0.04	0.01	0.3	1.3	25.8	24.4	25.1	23-9	22.1	23.0	10
0.4 0.4 12.3 0.02 0.03 0.2 2.2 21:1 18.2 19.6 22.9 20.5 21:7 1 0.3 0.05 17.4 0.6 0.03 0.2 2.7 22.2 19.2 21:2 24:1 21:0 12:5 1 0.2 0.8 21:2 0.04 0.01 0.3 3.7 27.9 25.0 26.6 29.0 26.4 27.7 1 0.9 0.5 14.6 0.08 0.1 0.2 1.5 1.91 16.8 18.0 19.0 17.3 18.2 1 0.9 0.5 16.4 0.03 0.01 0.2 1.6 17.6 15.2 16.4 16.6 14.0 15.2 1 0.1 0.9 16.2 0.2 0.05 0.2 2.2 21.1 18.5 19.8 21.9 19.6 20.8 0.4 0.5 16.2 0.2 0.05 0.2 2.2 21.1	0-4	1-2		15-1	0.02	0.2	0.5	1.0	19-8	16-5	18-2	20-5	18-0	19 3	11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0-2	1.5		185	0.02	0.06	0.5	2-3	23.7	21.5	23-6	23.7	21.3	22.6	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				a.											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.4	0.4		10.3	0-02	0.03	02	2.2	21.1	18-2	19-6	22.9	20.2	21-7	12
0·2 0·8 21·2 0·04 0·01 0·3 3.7 27·9 25·0 26·0 29·0 26·4 27·7 1. 0·9 0·5 14·6 0·08 0·1 0·2 1·5 '19·1 16·8 18·0 19·0 17·3 18·2 1. 0·1 0·9 13·4 0·03 0·01 0·2 1·6 17·6 15·2 16·4 16·6 14·0 15·2 1. 0·4 0·5 16·2 0·2 0·2 2·2 21·1 18·5 19·8 21·9 19·6 20·8	10000	0.02		17.4	06	0.03	1000	2-7	22-2	19-2	21.2	24.1	21.0	22.5	13
0.1 0.9 13.4 0.03 0.01 0.2 1.6 17.6 15.2 16.4 16.6 14.0 15.2 16 0.4 0.5 16.2 0.2 0.05 0.2 2.2 21.1 18.5 19.8 21.9 19.6 20.8	1000/001	0.8		21-2	0.04	0.01	0.3	37	27.9	25.0	26 0	29.0	26.4	27-7	14
0.4 0.5 16.2 0.2 0.6 0.2 2.2 211 18.5 19.8 21.9 19.6 20.8	0-9	0.2		14.6	0-08	01	0.2	1.5	191	16.8	18 0	19.0	17.3	18.2	15
	0.1	0.9		13-4	0.03	0-01	0.5	1.6	17.6	15-2	16-4	16.6	14.0	15.2	16
	0.4	0.5			0-2	0.02	0.5	2-2	21 1	18.5	19-8	21.9	19*6	20.8	
	0\$2	0.7	0.04		0.1	0.1	0.3	3-3	22.8	20.6	21.7	24.0	21.8	22 9	

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APPEN

Annual Form No. III Deaths re-	istered in the districts of Bihar
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1	2					3	and and		
No.	District.			Population according to census, 1931.	January.	February.	March.	April.	May.
	PATNA DIVISI	ON.				.	1		
		[Urban		258,284	341	274	237	275	239
1	Patna District	Rural		1,588,190	1,919	1,870	2,511	3,003	3,83
		Total		1,846,474	2,260	2,146	2,748	3,278	4.07
	and the second	Urban		105,185	206	168	213	226	25
2	Gaya District	Rural		2,283,277	3,580	3,010	3,243	3,800	5.10
		1					0,640	0,000	5,133
		(Total		2,388,462 117,630	3,788	3,178	3,456	4,086	5,383
				111,000			46	46	77
63	Shahabad District	{ Reral	***	1,875,859	2,997	2,697	2,823	3,071	4,779
		Total		1,993,489	3,047	2,786	2,869	3,117	4,856
	TIRHUT DIVISI	ION.							
		(Urban		70,475	87	92	86	105	121
4	Saran District	Rural		2,415,993	3,510	3,305	8,905	4,042	4,62
	· ·	Total		2,496,468	8,597	3,397	3,991	4,147	4,75
		Urban		45,486	103	63	100	90	e
5	Champaran District _	Raral		2,100,201	3,328	2,449	2,399	4,065	4,383
		(Total	•••	2,145,687	3,431	2,512	2,499	4,155	4,445
6	Muzaffarpur District	Rural		82,241	82	78	117	158	153
	musually realized	Total		2,858,784	4,757 4,839	4,003	4,837	5,067	6,971
		(Urban		98,225	159	131	4,974 .	5,225	7,126
7	Darbhanga District	Rural		3,067,869	4.245	3,802	4,655	5,550	6,513
B		Total		3,166,094	4,404	3,933	4,818	5,721	6,68(
	BHAGALPUR DIV								
		Urban	•••	83,209	78	85	117	91	126
8	Monghyr District	Rural		2,203,945	3,330	3,448	8,555	4,191	5,807
		Total		2,287,154	3,402	3,533	3,672	4,282	5,433
	in we	(Urban		89,380	124	88	146	194	0,400
9	Bhagalpur District	Rural		2,145,552	3,899	3,628	4,813	3,908	
		1			0,000	0,000	4,010	0,000	4,852
		[Total	•••	2,234,632	4,023	3,716	4,459	4,097	4,507
		(Urban	***	46,223	30	38	43	63	47
10	Purnea District	Rural		2,140,820	3,920	3,872	5,065	5,570	6,419
	and the	Total		2,186,543	3,950	3,910	5,108	5,633	6,466
		Urban		48,536	13	12	11	30	27
11	Sa: tal Parganas District	Rural		2,002,936	2,831	2,711	2,841	3,005	3,400
		(Total	***	2,051,472	2,844	2,723	2,852	3,035	3,427

DIX I-contd.

Province, during each month of the year 1936 .

			4				5	
June.	July.	August.	September.	October.	November.	December.	Total deaths registered during the year.	No.
						CALL CONTRACT	1.91.05	1
327	368	361	272	261	222	230	3,407	
0.040								
2,849	3,507	3,619	2,680	3,404	2,334	2,971	34,502	
3,176	3,875	3,980	2,952	3,665	2,556	3,201	37.909	J
253	312	370	297	309	265	262	3,134	1
4,429	4,387	6,614	5,816	4,953	4,106	3,905	53,015	2
4,682	4,679	6,984	6,113	5,262	4,371	4,187	56,149	
68	. 96	73	69	63	45	. 55	717	6
4,270	3,490	4,700	4,303	3,617	3,102	2,918	42,767	1 3
			a).000	0,017	0,105	-,-10	92,101	1
4,338	3,576	4,773	• 4,372	3,680	3,147	2,973	43,484	μ.
				1 Martin	file fait		-000	
130	155	150	100	93	8)	110	1,326	1
4,534	4,378	4,839	4,738	3,969	3,292	8,755	48,939	1 4
4,664	4,533	4,969	4,853	4,082	3,372	3,884	57,265	ß
31	69	37	35	65	71	84	814	h
4,051	3,088	4,164	3,833	3,477	3,617	5,383	44,239	1 3
4,082	3,157	4,201	3,868	3,542	3,688	5,469	45,033	IJ
124	139	136	111	106	96	107	1,404	1
6,070	4,691	5,926	5,491	6,890	6,777	8,298	69,848	1 6
6,194	4,830	6,062	5,602	6,996	6,873	8,405	71,252	J
122	126	150	113	134	161	. 175	1,770	h
5,566	4,122	5,444	5,297	6,169	6,314	8,030	65,709	1 1
5,688	4,248	5,594	5,410	6,303	6,475	8,205	67,479	1
93	. 122	108	82	67	91	90	1,144	h
4,422	3,687	4,757	4,457	4,546	4,282	4,719	50,701	1 8
4,515	3,809	4,865	4,539	4,613	4,873	4,809	51,845	
141	123	114	104	112	100	123	1,523	h
3,497	3,355	4,446;	4,483	4,879	5,967	6,023	52,745	.
3,638	3,478	4,560	4,587	4,991	6,067	6,145	54,268	5
30	36	39	30	48	51	46	501	1
4,561	3,445	3,968	8,177	3,739	4,543	6,153	54,432	1
4,591	3,481	4,007	3,207	3,787	4,594	6,199	54,983	J
29	19	9	17	25	22	13	227	'n
3,050	3,269	3,659	3,485	2,962	2,714	3,122	37,069	1
3,079	3,288	3,668	3,502	800 1	2,736	3,135	37,296	

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1	2				3				
No.	District.			Population according to census, 1931.	January.	February.	March.	April	May.
1	CHOTA NAGPUR	DIVISION.		1		1	1	1	
		Urban		50,857	17	18	- 28	36	52
12	Hazaribagh District	{ Bural		1,466,500	3,575	9,532	2,600	2,759	2,769
	147	Total		1,517,357	3,592	2,550	2,628	2,795	2,821
		Urban		58,094	141	7	9	7	14
13	Ranchi District	{ Rural		1,509,055	2,099	2,258	2,479	2,622	2,565
		Total		1,567,149	2,240	2,265	2,488	2,629	2,579
	1.	Urban	-	12,040	7	1	3	2	2
14	Palamau District	Rural		806,696	2,031	1,670	1,706	1,580	1,781
		Total		818,736	2,038	1,671	1,709	1,582	1,783
		(Urban		56,393	60	54	41	54	65
15	Manbhom District	{ Rural		1,754,497	2,182	2,705	2,619	3,032	3,253
		Total		1,810,890	2,342	2,759	2,660	3,086	3,318
		(Urban		30,697	48	66	82	117	83
16	Singhbhum District	{ Bural		899,105	1,174	1,169	1,411	1,293	1,194
		Total		929,802	1,922	1,235	1,493	1,410	1,277
		Urban		(a)1,336,393	1,542	1,209	1,442	1,665	1,653
	Total for the province	Rural		\$1,035,941	49,477	45,179	50,962	56,613	67,283
		Total		32,371,434	51,019	46,388	52,424	58,278	68,935
		Urban			1.1	0.9	1.1	1.5	1 2
	Ratio per 1,000 of pop	ula-{ Rural			1.6	1.4	1.6	1.8	2-2
	tion.	Total			1.6	1.4	1-6	1.8	2.1

Annual Form No. 111.	Deaths registered	in the districts of	f Bihar
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(a) Including cantonment population.

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DIX I-contd.

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Province, during each month of the year 1936-concld.

	4							3	
1.1	Total devths registered during the year.	December.	November.	tober.	Oet	September.	August.	July.	June.
.1	364	38	28	31		23	86	30	27
	29,495	2,263	2,276	2,143		2,416	2,368	1,801	1,993
,]	29,859	2,301	2,304	2,174		2,439	2,404	1,831	2,020
h	511	48	55	77		60	56	21	16
5	31,935	2,643	2,202	2,623		3,385	3,959	2,652	2,448
, []	32,446	2,691	2,237	2,700		3,445	4,015	2,673	2,464
h	70	7	4	4		13	9	11	7
1	21,578	1,791	1,951	1,972		1,990	1,904	1,599	1,603
1	21,648	1,798	1,935	1,976		2,003	1,913	1,610	1,610
h	653	60	46	36		65	53	81	18
1	31,979	3,009	1,887	2,076		2,890	3,185	2,395	2,646
	32,633	3,069	1,933	2,112		2,955	3,?38	2,476	2,684
h	810	54	56	54		41	80	70	19
	14,456	1,651	1,074	925		1,083	1,279	1,111	1,122
1	15,296	1,705	1,130	979		1,124	1,859	1,181	1,181
h	18,375	1,510	1,393	1,485		1,432	1,781	1,768	1,455
11	683,439	66,646	56,438	58,884		59,539	64,831	50,957	57,111
1	701,814	68,156	57,831	59,869		60,971	66,612	52,725	58,606
h	13.7	1.1	10	1.1		1.1	1.3	1.3	1.1
1	22.0	2.1	1.8	1.9		1.9	2.1	1.6	1.8
1	21.7	2.1	1.8	1.8		19	2.0	1-6	18

15 D.P.H.

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Annual Form No. IV .- Deaths registered according to age in th

1	2									
1			1							Deaths und
			1			Not e	according one n	oonth.		
					Male.			Female.		and 6.
No.	District			Under one week.	Over one week.	Total.	Under one week.	Orer one week.	Total.	Total of columns 3 and 6.
		12		1	2	3	4	5	6	7
_	PATNA DIVISI	ON.							T	
	1,00,0	(Urban		101	69	170	76	47	123	293
1	Patna district	{ Rural		1,501	974	2,475	1,215	723	1,938	4,413
		Total		1,603	1,043	2,645	1,291	770	2,061	4,706
		[Urban		226	71	297	110	48	158	455
2	Gaya district	Rural		8,186	1,129	4,315	2,544	857	3,401	7,716
	at 1 Contraction of	LTotal		- 3,412	1,200	4,612	2,654	905	3,559	8,171
		Trban		50	13	63	27	6	33 3,909	96 8,738
3	Shahabad district	Rural		4,131	748	4,879	3,340 3,367	569 575	3,942	8,884
- 3		(Total		4,181	761	4,912	0,007	010	3,000	0,001
	100								and the second	
	TIRHUT DIV	1810N.								
	1 1 10									
		Urban		52	31	83	23	. 32	55	13:
4	Saran district	Baral	•••	1,975	1,184	3,159	1,407	849	2,256	5,412
		U Total		2,027	1,215	3,742	1,430	881	2,311 28	5,555
		Urban		28	11	39	20 2,156	8 546	2,703	6,084
5	Champaran district	Bural		2,684	698	3,382 3,421	2,136	554	2,730	6,151
		(Total	***	2,712	709	114	54	23	77	191
	N	Urban		72 2,072	42 1,167	3,239	1,860	766	2,625	5,86
6	Muzaffarpur district	Total		2,072	1,107	3,353	1,914	789	2,703	6,051
		(Urban		76	25	101	36	26	82	18
7	Darbhanga district	Rural		2,188	601	2,789	1,757	459	2,216	5,00
		Total		2,264	626	2,890	1,813	485	2,298	5,18
	BHAGALPUR D	IVISION.								
							I			-
		Urban	-	40	26	66	36	13	49	11
8	Mongbyr district	{ Rural	•••	1,490	808	2,298	1,826	645	1,971	4,28 4,38
		(Total		1,530	834	2,364	1,362	658	2,020	4,00
		Urban		31	44	75	34	32 628	1,628	3,60
9	Bhagalpur district	{ Rural		1,205	571	1,976	1,000	628	1,694	3,74
		(Total	***	1,236	815	2,051	9	9	18	5
	Parnea district	Bural	***	19 1,465	10 640	29 2,105	1,227	472	1,699	3,80
10	e drues district	Total		1,484	650	2,105	1,226	481	1,717	3,831
		(Urban		1,405	1	12	8	2	10	21
11	Santal Parganss district			719	273	992	532	256	788	1,780
		Total		730	274	1,004	540	258	798	1,800
						1				
								and the second s		

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tricts of Bihar Province, during the year 1936-contd.

	3
and the second se	
year.	

140 1,992 2,132 140 2,397 2,537 20 1,494 -1,514	9 9 100 1,677 1,777 91 2,041 2,132 17 1,250 1,267	10 240 3,669 3,900 231 4,438 4,600 37	11 105 1,347 1,452 68	ч на 12 107 1,149 1.256	13 212 2,496	Total male columns 3, 8 and 11. 14 415	Total female columns 6, 9 and 12. 15 330	Total. 16 745	No.
140 1,992 2,132 140 2,397 2,537 20 1,494	100 1,677 1,777 91 2,041 2,132 17 1,250	240 3,669 3,90) 231 4,438 4,659	105 1,347 1,452 68	107 1,149	212				
1,992 2,132 140 2,397 2,537 20 1,494	1,677 1,777 91 2,041 2,132 17 1,250	3,669 3,90) 231 4,435 4,639	1,347 1,452 68	1,149	and the	415	330	745	
1,992 2,132 140 2,397 2,537 20 1,494	1,677 1,777 91 2,041 2,132 17 1,250	3,669 3,90) 231 4,435 4,639	1,347 1,452 68	1,149	and the	415	330	745	
1,992 2,132 140 2,397 2,537 20 1,494	1,677 1,777 91 2,041 2,132 17 1,250	3,669 3,90) 231 4,435 4,639	1,347 1,452 68	1,149	and the	415	330	745	100
1,992 2,132 140 2,397 2,537 20 1,494	1,777 91 2,041 2,132 17 1,250	3,90) 231 4,438 4,639	1,452 68		2,496				n
2,132 140 2,397 2,537 20 1,494	91 2,041 2,132 17 1,250	231 4,438 4,639	1,452 68	1.256		5,814	4,764	10,578	1
140 2,397 2,537 20 1,494	2,041 2,132 17 1,230	4,438 4,639			2,708	6,229	5,094	11,323	J
2,397 2,537 20 1,494	2,132 17 1,250	4,639		67	135	503	316	821	h
2,537 20 1,494	2,132 17 1,250	4,639	1,602	1,432	3.034	8,314	6,874	15,188	2
20 1,494	1,250	37	1,670	1,499	3,160	8,819	7,190	16,009	J
			17	28	45	100	78	178	h
-1,514	1,267	2,744	1,140	972	2,112	7,513	6,131	13,644	3
6		2,781	1,157	1,000	2,157	7,613	6,209	13,822	μ
Can I I	1.1								
47	42	89	42	37	79	172	134	306	1
1,559	1,078	2,637	1,156	836	1,993	5,874	4,170	10,044	1 4
1,606	1,120	2,726	1,198	873	2,071	6,046	4,304	10,350	P
24	15	39	24	18	42	87	61	148	n
1,443	1,090	2,533	738	535	1,273	5,563	4,327	9,890	1 5
1,467	1,105	2,572	762	553	1,315	5,650	4,388	10,038	P
50	37	87	62	38	100	226	152	378	Π.
2,043	1,747	3,790	1,171	1,007	2,178	6,453	5,380	11,833	1 6
2,093	1,784	3,877 -	1,233	1,045	2,278	6,679	5,532	12,211 387	Ľ
75	63	138	32	34	66	208	179	9,701	1.
1,563 .	1,405	2,968	932	796	1,728	5,284	4,417	10,088	11
1,638	1,468	3,106	914	830	1,79\$	5,492	4,595	10,000	ľ
					85	161	136	297	h
49	48	97	46	39	2,529	5,571	4,690	10,261	} 8
1,882	1,581	3,463	1,391	1,138	2,614	5,782	4,826	10,558	D
1,931	1,629	3,560	1,437	43	85	163	153	315	1
46	43	2,231	92	769	1,690	4,106	3,419	7,525	1 9
1,209	1,022	2,331	963	812	1,775	4,269	3,571	7,840	P
1,255	20	36	12	14	26	57	53	109	h
1	1,665	3,607	763	676	1,439	4,810	4,010	8,850	10
1,942 1,958	1,685	3,643	775	690	1,465	4,867	4,003	8,959	1
1,058	2,000	16	2	9	11	21	28	49	
801	616	1,417	453	372	825	2,246	1,776	4,023	} u
808	625	1,483	455	381	838	2,267	1,804	4,071	h

1	2								
_			1						Deaths an
				Harris I.	Not es	ceeding one me	onth.		
				Male.			Female.	Contraction of	.9 pq
No.	District.		Under one week.	Over one week.	Total.	Under one week.	Over one week.	Total.	Total of columns 3 and
		11	1	2	3	4	5	6	7
	CHOTA NAGPUR DIVISION.								
	Urban		13	3	16	8	3	11	
12	Hazaribagh district Bural		711	391	1,102	580	340	920	2,0
	Total		724	394	1,118	588	343	931	2,04
	(Urban		13	4	17	14	3	17	
13	Ranchi district { Rural		866	434	1,300	691	404	1,098	2,39
	Total		879	438	1,317	708	407	1,115	2,43
	No.2 Contraction	100				1			
	(Urban		7	1	8	5	2	7	. 1
14	Palamau district { Rural		972	450	1,422	802	358	1,160	2,58
	Total		979	451	1,430	807	360	1,167	2,59
1	Urban		22	8	30	9	7	16	4
15	Manbhum district { Rural		70.)	388	1,097	458	264	729	1,81
	Total		731	396	1,127	467	971	738	1,86
	Urban		11	7	18	20	8	28	4
16	Singhbhum district { Rural		\$15	142	457	233	96	329	78
1	Total		326	149	475	253	104	357	83
1	Urban		772	366	1,135	509	982	778	1,91
	Total for the Province { Reral		26,189	10,798	36,987	21,131	8,232	29,363	66,35
	Total		26,961	11,164	38,125	21,640	8,501	30,141	68,20
	Total population for the province					***		-	-
	Ratio per 1,000 of population								

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Annual Form No. 1V .- Deaths registered according to age in

APPE

IX 1-contd.

stricts of Bihar Province, during the year 1936-contd.

1		8							
16 .									
ver one me	onth and not ex- months.	ceeding six	Over six more	ths and not excee months.	ding twelve	Total male	Total famala		
Male.	Femalo.	Total.	Male.	Female.	Total.	Total male columns 3, 8 and 11.	Total female columns 6, 9 and 12.	Total.	N
8	9	10	11	12	13	14	15	16	
						-	many a contra		
14	11	25	16	10	26	46	72	78	h
945	808	1,753	442	378	890	2,489	2,106	4,595	
959	819	1,778	458	388	846	2,135	2,138	4,673]
14	9	23	3	7	10	34	33	67	h
898	762	1,660	443	391	834	2,641	2,251	4,892	
912	751	1,683	446	398	844	2,675	2,3:4	4,939	1
2	3	5	3	2	5	13	12	25	h
€75	651	1,326	388	375	763	2,485	2,186	4,671	
677	654	1,331	391	377	768	2,4 8	2,198	4,696	1
25	23	48	7	9	16	62	48	110	h
669	457	1,126	339	271	610	2,105	1,450	3,555	
694	480	1,174	346	280	626	2,167	. 1,498	3,665	P
22	24	46	24	24	48	65	76	140	h
275	235	510	141	131	272	873	695	1,568	
297	539	556	165	155	320	937	771	1,708	ľ
691	555	1,246	505	486	991	2,334	1,819	4,153	
21,787	18,085	39,872	13,367	11,228	24,5.5	72,141	58,676	130,817	
22,478	18,640	41,118	13,872	11,714	25,586	76,475	6),495	134,970	
						389,476	396,266	785,742	
						191-2	152-6	171-8	

APPE

Annual Form No. 1F .- Deaths registered according to age in the

1 Petra district Reni 9.373 0.65 672 359 344 359 444 2 Gaya district Reni 941 225 66 74 55 66 56 56 56 56 56 56 56 56 56 56 56 56 56 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 660 565 565 660 565 565 660 565 565 660 565 565 660 565 565 565 660 565 565 565 565 565 565 565 565 565 565 565 565 565 565 565 565 565 565	1	2				3	1	4		5 1		6
No. District T is year.												
IT IS IP IP<	No.	District							10 years 15 y	oars.		
17 18 19 20 21 22 23 34 PATNA DIVISION. 264 214 97 86 83 107 106 11 Patna district		And I the Area			lale.	Pemalo.	falo.	Female.	fale.	female.	lale.	emale.
PATNA DIVISION. Patna district CP (Tran S4) S4 S1 S4 S7 S6 S3 S07 S6 S3 S07 S6 S3 S07 S6 S3 S4 S3 S3 S3 S3 S3 S3 S3 S3 S3 S3 <ths< th=""><th></th><th>1.5 1.1</th><th></th><th>17</th><th>1 2327</th><th></th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th><th>1</th></ths<>		1.5 1.1		17	1 2327		1	1	1	1	1	1
1 Pataa district		PATNA DIVIS	10N.	-	1				1	1		
1 Pata district Bara 3.373 5.377 663 672 339 344 339 2 Gaya district Teal 3.883 3.886 760 758 421 471 446 333 2 Gaya district 911 225 66 74 53 465 563 10 3 Blashabed distrit 6,525 6,613 11,806 11,206 722 863 123 721 863 3 Blashabed distrit 477 44 13 177 7 10 16 22 721 863 1313 1365 131 1365 132 23 23 22 135 131 135 131 135 131 23					945	914	07					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Patna district	1					1	1	10.5	1.1.1	12
2 Gaya district - Urban 91 223 66 74 53 64 56 10 2 Gaya district - Rusal - 6,525 6,513 1,566 1,300 1225 666 665 665 665 3 Sbahabed distrit - Wrban - 47 41 13 17 7 10 16 2 3 Sbahabed distrit - Wrban - 47 41 13 17 7 10 16 2 4 Bara - 44,603 4,515 666 566 460 383 512 53 5 Champaran district - Urban 71 66 20 15 13 25 25 25 6 Manaffarpar district - Urban 84 6.80 1,255 1,063 846 669 131 67 6 Manaffarpar district - Urban 111 100 21 47 25 25	1	1.1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1 84.00	1000	10. 500
2 Ogya district - Russi - 6,684 1,685 1,485 1,205 725 655 655 3 Bhahabad distrit Urbas - 47 41 13 117 7 10 165 22 3 Bhahabad distrit Wrbas - 47 41 13 117 7 10 165 22 4 Branal 4,403 4,515 909 585 467 903 5.23 <		ALL ALL			1	E		1.16	1001	0	1	53
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	Gava district			1		1		1 200	1.1.1	1.5895	10
3 Shahabed distrit Urban 47 41 13 17 7 10 16 2 3 Shahabed distrit Reval 4,403 4,477 966 585 460 535 511 511 535 54 22 53 54 22 53 54 22 53 54 535 545 <td< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>312.00</td><td></td><td>1 6.53</td><td>1000</td><td></td></td<>			1					312.00		1 6.53	1000	
3 Stahabed distrit Reval 4.403 4.477 566 568 469 383 512 513 7 Tital 4.400 4.518 969 585 467 393 528 545 8 FIRHUT DIVISION. 71 66 90 15 19 25 2.3 22 4 Saran district 4.602 3.968 1.218 1.046 627 674 755 757 5 Champaran district	-	11.1						1,010	101	602	/#1	80
Image: Second secon		Shahahad district	1	****						10	16	2
TIBHUT DIVISION. Urban TI 68 20 15 19 25 23 22 4 Baran district Fural 4,573 4,690 3,865 1,215 1,048 827 674 735 739 5 Champaran district Urban 58 45 50 37 92 15 96 9 731 98 5 Champaran district (Urban 58 45 50 37 92 15 96 9 706 68 6 Muzaffarpur distriet (Urban 121 106 21 47 23 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 23 24 28 24 28 24 28 24 28 24 28 24 28 24 25 24 28 </td <td>P</td> <td>onanaoad distitt</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.68</td> <td>1995</td> <td>51</td>	P	onanaoad distitt	1							1.68	1995	51
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11	10. 1 Mar 10. 1			4,400	9,010	903	885	487	393	518	54
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	TIRHUT DIVISIO	N.		125	-		1	114.5			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		a			1			15	19	25	25	2
John Start John Start </td <td></td> <td>Saran district</td> <td>1</td> <td></td> <td>1.125 10.01</td> <td>1</td> <td></td> <td></td> <td></td> <td>674</td> <td>726</td> <td>78</td>		Saran district	1		1.125 10.01	1				674	726	78
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	21	17. A.C.	(Total	•••	9,873	4,036	1,238	1,063	846	659	751	80
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		10 A 10 A	Urban		58	45	30	37	22	15	26	2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	Champaran district	Rural		4,144	3,388	1,255	999	663	412	677	46
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	no f	51 B4	(Total	•••	4,202	3,433	1,285	1,036	685	427	703	48
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	- 1	17.1 HTT	(Urban		121	106	21	47	23	25	24	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	6	Muzaffarpur district	Rural		7,667	7,115	2,532	2,031	1,328			89
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		inter to be	[Total		7,788	7,221	2,553	2,078	1,351	1,008		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	- Pe	11, 125 TA 12	(Urban		154	143	57	: 10	95			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	7	Darbhanga district	1		1 1 1 1 1 1 1 1 1 1	1	100			10085	121	
BHAGALPUB DIVISION. Urban 125 120 32 33 24 25 32 11 8 Monghyr district	1	100	Total		1000000				300.00	1938	12000	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		EHAGALPUR DIV	ISION				-					1,024
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Distance Di			125	120	20	99				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	8	Monghyr district	1 2012007		1 1 1 2 3 3 1	1000				100	1000	Ш
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			The strength			10.167.067					1000	
9 Bhegalpur district Rural 5.634 5.276 2.053 1,634 1,178 852 916 871 9 Bhegalpur district Total 5.634 5,276 2,053 1,634 1,178 852 916 871 10 Purnea district Urban S1 29 12 9 11 9 13 11 10 Purnea district Rural 5,679 5,219 2,191 1.771 1,344 975 1,099 1,077 10 Purnea district Urban 5,710 5,248 2,205 1,780 1,355 984 1,112 1,089 11 Santal Parganas district Urban 22 16 15 10 4 5 1 5 11 Santal Parganas district Rural 3,863 3,216 1,662 1,392 1,083 794 1,208 1,094 1,094 <td></td> <td></td> <td>(Theban</td> <td></td> <td>170</td> <td>100</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>524</td>			(Theban		170	100	1					524
10 Purnea district 5,806 5,415 2,106 1,677 1,214 879 943 900 10 Purnea district Urban 5,806 5,415 2,106 1,677 1,214 879 943 900 10 Purnea district Urban 5,710 5,219 2,191 1,771 1,344 915 1,099 1,077 11 Santal Parganas district Urban 22 18 15 10 4 5 1 5 11 Santal Parganas district Rural 3,863 3,216 1,662 1,392 1,083 794 1,208 1,090	9	Bhegalpur district	1		10.000	1,2534	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Seis / U.S.				81
10 Purnea district State 10 11 9 13 11 10 Purnea district State 5,679 5,219 2,191 1,771 1,344 9'5 1,099 1,077 10 Purnea district State 5,679 5,219 2,191 1,771 1,344 9'5 1,099 1,077 11 Santal Parganas district Urban 22 18 15 10 4 5 1 5 11 Santal Parganas district Rural 3,863 3,216 1,662 1,392 1,083 794 1,206 1,094			1000000		10000			10000	1	100		871
10 Parnea district Reval 5,679 5,219 2,191 1,771 1,344 9'5 1,099 1,071 11 Santal Parganas district Urban 22 18 15 10 4 5 1 5 11 Santal Parganas district Rural 3,863 3,216 1,662 1,392 1,083 794 1,206 1,090								1,011	1,214	879	943	900
Unit Unit <thunit< th=""> Unit Unit <thu< td=""><td>10</td><td>Perman district</td><td>100000</td><td></td><td>1.000</td><td>1.183</td><td>1023123</td><td></td><td>11</td><td>9</td><td>13</td><td>11</td></thu<></thunit<>	10	Perman district	100000		1.000	1.183	1023123		11	9	13	11
Ultrain Urban 22 18 15 10 4 5 1 5 11 Santal Parganas district Image: Control Parganas district	10	r ernes district	100000		100000	201032	1	1 007A30	535.00	9:5		1,07
11 Santal Perganas district Bural 3,863 3,216 1,662 1,392 1,083 724 1,208 1,020					6,710	5,248	2,203	1,780	1,355	984	1,112	1,08
11 Santal Perganas district Bural 3,863 3,216 1,662 1,392 1,083 724 1,208 1,024			0.000		2.025	18	15	- 10	4	5	1	2
Total 9.005 0.004 1.000 1.000	11	Santal Perganas district	1000000	••••	100000	1000000	1	1,392	1,083	794		1,000
			(Total		3,885	3,234	1,677	1,402	1,087	799	1,209	1,0 %

I-contd.

riets of Bibar Province, during the year 1936-contd.

1	7	8 30 years and under		- 9		1	0	1 1	1	12
30 years 30 y	and under ears.	30 years a 40 ye	nd ander ars.	40 years au 50 ye	nd under ars.	50 years a 60 ye	ad under ars.	60 year upwr	s and rds.	N
Male.	Femalo.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Femalo.	
25	26	27	28	29	30	\$1	32	33	34	
							N 1917	1.1.1.1.1	Yata	1
					1	3	- 10 T		259	
168	209	137	145	. 119	97	111	-86	2(9	3,129	11.
922	1,164	944	- 947	1,02)	849	1,275	1,096	2,846 3,115	3,388	11
1,090	1,373	1,081	1,092	1,189	946	1,000	1,182	0,110		1
147	170	143	93	108	55	152	116	244	214	1
1,827	2,062	2,734	1,588	1,669	1,252	1,883	1,524	3,278	3,380	2
1,974	2,233	1,877	1,681	1,777	1,307	2,035	1,640	3,522	3,594	P
29	38	20	23	31	17	34	-21	83	69	h
1,511	1,981	1,440	1,507	1,243	1,111	1,189	1,150	2,417	3,176	3
1,540	2,019	1,460	1,530	1,274	1,128	1,223	1,171	2,500	3,245	J
		15		1		C				
			6	1.	1		in and			
54	72	54	58	47	38	52	. 35	190	150	1
1,944	2,131	1,950	1,929	1,759	1,596	1,815	1,969	4,474	5,253	11.
11,998	2,203	2,034	1,987	1,806	1,634	1,867	2,004	4,664	5,403	2
50	55	57	32	: 50	19	40	20	44	42	1
2,092	2,178	2,161	1,955	2,169	1,798	2,095	2,033	2,935	2,932	1 5
2,142	2,233	2,218	1,987	2,219	1,817	2,135	2,053	2,979	2,974	P
62	61	69	55	C4	34	48	46	93	100	h
3,200	2,747	8,238	2,770	2,955	2,508	3,28)	3,158	4,743	5,766	6
3,262	2,909	3,302	2,825	3,019	2,542	3,328	3,204	4,836	5,866	1
83	86	106	76	107	59	69	50	124	109	6
3,287	2,877		2,810	3,001	2,573	3,148	3,174	4,209	4,702	12
8,370	2,963	3,459	2,884	3,108	2,632	3,217	3,224	4,333	4,811	11
	-				18	35	34	93	92	6
38 1,643	39		37 1,555	25	1,329	2,123	2,068	3,466	3,889	11.
1,681	1,629	1	1,592	1,075	1,347	2,158	2,102	3,559	3,981	
										F
60	66	and the second second	53	83	89	48 2,436	43 2,407	112 3,686	109	11
2,485	2,309		2,276	2,459	2,067 2,106	2,435	2,407	3,086	3,957 4,060	1.1
2,545	2,373	2,790	2,329	2,542					*,***	r
40	33		23	31	23	23	20	33	17	11
2,940	3,451		2,733	No. No. Constant	2,005	2,084	1,794	2,826	2,471	
2,950	3,481	3,157	2,756	2,823	2,028	2,107	1,814	2,859	2,488	1
11	10	12	8	12	2	7	4	18	16	1
2,080	1,995	2,167	1,733		1,421	1,748	1,435	2,247	2,020	
2,091	2,000	2,179	1,741	1,972	1,423	1,755	1,439	2,265	2,036	

1	2		3		4		1	5		6
	Service C		l year and 5 yea	l under 178.	5 years ai 10 ye	nd under are.	10 years a 15 ye	ind under 9318.	15 years a 20 y	nd under ars.
No.	Dis'rict,		Male.	Female.	Male.	Female.	Male.	Pemale.	Male.	Fomalo.
			17	18	19	:0	21	22	23	24
	CHOTA NAGPUR DIVI	SION.	1	1		1				
	ſ	Urban	37	28	8	10	10	5	8	
12	Hazaribagh district {	Bural	3,356	3,148	1,319	1,097	745	590	634	
	(Total	3,393	3,176	1,827	1,107	755	595	642	24
	ſ	Urban	44	28	15	12	13	11	15	
.13	Ranchi district {	Rural	3,810	3,435	1,155	806	6.6	170	652	21 1
	l	Total	3,854	3,463	1,170	878	689	581	667	THE R
1	{	Urban	8	4	1	1	2	2	3	
14	Palaman district {	Rural	2,923	2,726	821	677	438	313	372	
	l	Total	2,931	2,730	823	678	440	315	375	
	[Urban	58	37	14	14	10	10	19	
15	Manbhum district {	Rural	2,531	2,324	1,189	1,019	868	647	1,161	1,
		Total	2,589	2,361	1,203	1,033	878	657	1,180	1,0
		Urban	77	74	22	13	18	12	10	
16	Singhbhum district {	Rural	1,447	1,343	697	591	388	2.9	420	
		Total	1	1,417	719	601	406	281	430	
	Total for the Province	Urban		1,319	475	463	369	358	419	
		Rural	75,239	68,315	23,392	19,221	13,793	10,043	12,378	11,
		Total	10,000	69,634	23,870	19,684	13.763	10,401	12,817	31,
	Total population for the prov	isce	1,996,980	2,110,112	2,330,52?	2,129,096	2,005,728	1,767,032	1,322,530	1,361,
	Batio per 1,000 of population	a	37-7	33-0	10-2	92	6.8	5.9	97	

1 121.2

Annua Form No. IV .- Deaths registered according to age in

APP

X I-contd.

rists of Bihar Province during the year 1936-coneld.

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17	7	8	8	9		10		11	1	13
9 yaars 30 y	and under ears.	30 years a 40 y	nd under cers.	40 years and 50 yea	l under re.	50 years and 60 year	l under re.	60 year upwa	rs and irds,	No
Male.	25 Femalo. Male.		Female.	Male.	Femalo.	Male.	Female.	Male.	Female.	
25	26			29	30	31	82	33	34	
12	31	81 9		20	8	12	12	36	19	h
1,496	1,514	Contraction of the second	1,199	1,325	932	1,480	1,364 1,376	1,350 1,886	1,292	1 1
1,510	1,545	1,500	1,210	1,345	940	1,492	24	1,000	1,311	Ľ
25	1,482	16	1,179	1,497	1,038	1,690	1,642	1,690	33 1,854	11
1,517	1,518	1,508	1,216	1,518	1,054	1,729	1,666	1,928	1,887	11
2,010	8	1	4		2	6	1	2	2	ĥ
1,001	955	860	780	895	672	817	785	787	733	11
1,003	958	961	784	895	674	823	786	789	735	
39	29	54	53	49	22	28	21	45	87	h
2,116	1,868	2,100	1,507	1,816	1,115	1,692	1,312	2,020	2,087	11
2,155	1,897	2,154	1,540	1,865	1,137	1,720	1,833	2,065	2,124	IJ
73	54	84	28	42	19	24	17	46	35	h
815	715	876	589	888	535	696	637	699	951	1/1
894	769	960	617	930	554	730	674	745	976	1
899	992	878	714	809	468	728	550	1,470	1,292	1
38,878	31,016	31,498	27,057	29,327	22,801	29,451	27,568	. 43,873	47,592	1
\$1,777	32,008	32,376	27,771	30,136	23,269	30,179	28,118	45,844	48,885	1
63,332	2,894,276	2,341,958	2,314,501	1,595,753	1,513,295	1,513,295	913,225	394,548	727,186	
11-5	11.0	13-8	12.0	18.9	15-4	33-3	30-8	76-3	67-2	1

9

15 D.P.H.

-	1			.1	7		3	
	Registering eire	ile.	1	Christians,		1	Hindar.	· · · · · · · · · · · · · · · · · · ·
		1000	1	1	1		1	
			Male,	Female.	Total.	Male.	Female,	Total,
	PATNA.			1	1	1	1	1
Patna town						190	180	370
Bihar town						- 38	31	
Dinapur Niz						33	20	53
Dinapur Can	tonment					21	13	37
Barh town						25	. 10	35
Khagole tow	n					17	10	27
					1			
	Total of to					324	267	591
	Total of r	oral .				5,561	4,564	10,115
	Total of dist	rict .	• •••			5,855	4,831	10,716
	GATA.				10 2			
Gays town						369	218	587
Tikari town						17	10	27
Daudnagar te	awn	··· ··				31	23	51
	Total of tov					417	251	668
	Total of rur	al				7,864	6,516	14,380
	Total of distr	riet				8,281	6,767	15,048
	SHAHABAD.		1					
Arrah town						24	20	44
Buxar town								P
						21	16	37
Dumraon town	n					8	8	16
Jagadispur to	wn					10		
e			-			10	4	14
Sasaram town						20	21	41
Bhabua town						9		
							1	9
	Iotal of tow					91	70	161
	Total of run	ral .				7,284	5,909	13,143

7,225

5,979

13,304

Total of district

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Annual form No. IVA .- Deaths under one year registered according to class in each town and

APPEN

DIX I-contd.

rural areas in the districts of Bihar Province during the year 1936-contd.

	•			5			6			7	
	Muhammedan	•.		Bodd hist	•.		Other class	es,	1	Total.	
Male,	Female.	Total,	Male.	Female.	Total.	Male.	Female.	Total.	Male,	Female,	Total.
64	44	108						-	254	224	478
13 3	8 7	21 10							51	39 27	90 €3
7	4	11							28	20	48
2		2							27	10	37
2	-	2							19	10	29
. 91	63	154							415	330	745
253	200	453							5,814	4,764	10,578
344	263	e07							6,229	5 094	17,323
					1					- Mart	
SO	63	143							419	281	730
5	1	6							22	11	33
3	1	4							34	24	58
88	65	153							505	316	821
460	358	88							8,314	6,874	15,188
633	423	961							8,819	7,190	16,009
1	1	2							25	21	46
5	1	6							26	17	43
									8	8	16
									10	4	14.
3	6	9							23	27	50
									8	1	9
9 279	8 222	17 501							100 7,513	78 6,131	178 13,644
288	230	518							7,613	6,209	13,822

	1		+		3			3 .	
	Begistering	g circle.			Christians,	+		Hindus.	
				Male,	Female.	Total.	Male.	Female,	Total.
	SARAN.		1				1		
hapra town							94	. 67	16
levelganj to	wn						20	24	4
iwan town							27	24	5
-	Total of	towns					141	115	25
	Total of						4,541	3,269	7,81
	Total of d	istrict					4,632	3,384	8,06
	CHAMPAR.	AN.	-						123
Bettish town				7	6	13	48	22	1
fotibari tov		····					19	15	
	Total of	towns		7	6	13	67	37	10
	Total of	f rural		2	1	3	4,885	3,818	8,7
	Total of d	listrict		9	7	16	4,952	3,855	8,8
	MUZAFF.	ABPUR.	-						
Muzaffarpur	r town						67	43	1
Bitamarhi to	own						31	23	
Hajipur tow	m						54	39	
Lalganj tow	m						23	18	
To	tal of towns	'					175	123	2
	tal of rural			2	1	3	5,357	4,512	9,8
To	tal of distric	t		2	1	3	5,532	4,635	10,1
Darbhanga	DARBHA						126	114	5
Roserah tov							22	15	
Samastipur							18	13	
Madhubani							30	24	
	otal of towns						196	166	-
Te	otal of rural						4,752	3,981	8,

Total of district

...

...

4,948

...

...

4,147

9,095

Annual form No. IVA .- Deaths under one year registered according to class in each town and

DIX I-contd.

rural areas in the districts of Bihar Province during the year 1936-contd

						1			1		
	Mubammadane	•		Buddbists			Other classes	•		Total.	
Male,	Female,	Total.	Male.	Female,	Total,	Male,	Female.	Total.	Male.	Female.	Total,
29	15	44							123	82	203
	1	1							20	25	4
2	3	5							29	27	5(
31	19	50						- 18	172	134	30
1,833	901	2,234							5,874	4,170	10,04
1,364	920	2,284							6,046	4,804	10,35
										and to In	
8	14	22							63	42	10
- 5	4	9							24	19	4
13	18	31							87	61	14
676	508	1,184							5,563	4,327	9,89
689	626	1,215							5,650	4,388	10,08
										-	
19	8	27						·	86	51	13
9	7	16							40	30	7
18	8	26							72	47	il
5	6	11							28	24	5
51	29	80							226	152	37
1,094	867	1,961							6,453	5,380	11,88
1,145	896	2,041							6,679	5,632	12,21
N. N. N.	0 2.1		1			12	10			theil be det	1
9	11	20							135	125	20
									22	15	1 8
1	1	8							19	14	1
2	1	3							32	25	
12	18	25							208	179	3
532	436	968							5,384	4,417	9,7
541	449	993		-					5,492	4,596	10,0

APPEN

Annual form No. IVA .- Deaths under one year according to class in each town and

1			3			3	
			Christians.			Bindus,	-
Registering eirel	e.	Male.	Female,	Total.	Male.	Female, -	Totalj
MONGRYB							
Monghyr town					79	69	14
Samalpur town					58	51	10
Total of towns					137	120	
Total of rural					4,639	8,965	8,60
Total of district					4,776	4,085	8,96
BHAGALPUR.							
Shagalpur town					133	115	24
Colgong town					8	9	1
Total of towns					111	124	
Total of rural					3,542	2,978	6,52
Total of district					3,683	8,102	
PURNEA.	and the second						6,78
urnea town					21	21	
Kishenganj town					6	3	4
Katihar town					9	3	-
°orbesganj town	•••				14	9	1
Total of towns					50		
Total of rural					2,854	40 2,372	9
Total of district					2,904	2,012	5,22
SANTAL PARGAN						0,910	5,31
ahibganj town					4	9	1
Deoghar town					6	10	1
amka town					3	1	2
fadhupur town	••• •••				1	5	
Total of towns					14	25	35
Total of rural		3	1	4	1,653	1,255	2,898
Total of district		3	1	4	1,657	1,280	2,937
HAZABIBAGH				-			
Iszaribagh town					18	12	30
hatra "					7	3	10
iridih "					8	6	14
Total of towns					33	21	54
Total of rural					2,222	1,867	4,089
Total of district							_

10

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DIX I-contd

rural areas in the districts of Bihar Province during the year 1936-contd.

	4			5			8			7	
M	ubammadars.		1	laddhists.		0	Other classes,			Total.	
Male,	Female,	Total,	Male,	Female,	Total.	Male,	Female,	Total.	Male,	Female,	Total
11	12	23				-			90	81	171
13	4	17							71	55	12
24	16	40					<		161	136	29
932	725	1,667							5,571	4,690	10,26
956	741	1,697							5,732	4,826	10,55
21	28	49							154	143	29
1		1							9	9	1
22	. 28	50							163	152	31
564	441	1,005							4,106	3,419	7,52
586	469	1,055							4,269	3,571	7,84
1	7	8							22	23	
31	2	5				1			9	5	
1		1							10	7	1
2	3	5							16	12	21
7	12	19							57	52	10
1,947	1,661	3,608				9	7	16	4,810	4,040	8,81
1,954	1,673	3,627				9	7	16	4,867	4,093	8,9
+		4							8	9	
1	1	2							7	11	
1	1	2						* 1	. 4	3	
						1		1	2	5	
6	2	8				1	1	2	21	28	
185	149	384				415	371	786	2,216	1,776	\$,0
191	151	342				416	372	788	2,267	1,804	4,0
8	4	12							26	16	
8	3	6							10	6	
2	- LOB 4	6							10	10	-
13	11	24							46	32	
255	231	486				12	8	20	2,489	2,106	4,5
268	242	510	· · · ·			12	8	20	2,535	2,133	4,6

1			3			3	
	1	A strategy	Christians,	1		Hindus.	
Registering circle.		Male.	Female.	Total.	Male.	Female.	Total.
RANCHI.	1		1				
Ranchi town		7	4	11	6	6	12
Lohardaga "		4	7	11	8	6	14
	-						
Total of towns		11	11	22	14	12	26
Total of rural		410	844	754	872	732	1,604
Total of district		421	855	776	886	744	1,630
PALAMAU.	-						
Daltonganj town					13	11	24
Total of rural		20	36	56	2,298	2,004	4,302
Total of district		20	36	56	2,311	2,015	4,326
	-						
MANBHUM.			1				
Perulia town			1	1	19	7	26
Raghunathpur town					11	12	23
Jhalds town					10	17	27
Dhanbad town					19	6	25
Total of towns			1	1	59	42	101
Total of rural					1,995	1,971	3,366
	-						
Total of district			1	1	2,054	1,413	3,467
SINGRERUM.	• -						11.00
	1						
Chaibassa town		1	1	2	11	17	28
Chakradharpur town			1	1	14	14	28
Jugsalai town			1	1	9	9	18
Jamshedpur town			1	1	19	18	32
Total of towns		1	4	5	53	53	106
	-						-
Total of rural		8	8	16	504	404	908
Total of district Province.	[9	12	21	557	457	1,014
Total of towns		19	22	41	1,925	1,477	3,402
Total of rural		445	391	836	60,763	49,517	110,280
Total of districts		464	413	877	62,688	50,994	113,682

Annual form No. IVA .- Deaths under one year registered according to class in each town and

DIX I-contd.

rural areas in the districts of Bihar Province during the year 1936-concld.

	•			5			6			7	
3	Muhammadans.			Buddhiste			Other classes.			Total.	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total,	Male.	Female,	Total.
2	3	5				3	1	4	18	14	3
3	1	4				1	5	6	16	19	5
5	4	9				4	6	10	34	33	6
122	94	216				1,237	1,081	2,318	2,641	2,251	4,89
127	98	225				1,241	1,087	2,328	2,675	2,284	4,95
			•								
	1	1							13	12	2
162	146	308				5		5	2,485	2,186	4,67
162	147	309				5		5	2,498	2,198	4,69
									19	11 [3
	3	3							11	11	2
	1	1							10	18	2
3	1	4							22	7	2
3	5	8							62	48	11
75	43	118	10000			35	36	71	2,105	1,450	3,55
78	48	126				35	36	71	2,167	1,498	3,66
				-							
2	3	5				5	11	16	19	32	5
2	1	3							16	16	3
	1	1							9	11	2
1	3	4							20	17	• 3
5	8	13				5	11	16	64	76	14
7	8	15				354	275	629	873	€95	1,56
12	16	28				359	286	645	937	771	1,70
380	302	682				10	18	28	2,334	1,819	4,15
8,866	6,990	15,856				2,067	1,778	3,845	72,141	58,676	130,81
9,246	7,292	16,538				2,077	1,796	3,873	74,475	60,495	134,97

					37.0					05.31	-	1.11.		1.00	100	
1	2								8							
							Nu	mber of	deaths r	egistered					-	1
No.	District.	Ch	ristian	s.		Hindus.		Mu	hammade	ins.	Bt	ıddhist		Oth	er cla	84
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Femalo.	Total.	Male.	Female.	Total.	Male.	Female.	-
	PATNA DIVISION.															
1	Patna	2	2	4	17,746	16,756	\$4,502	1,740	1,662	3,402						
2	Gaya				26,627	24,316	50,943	2,738	2,465	5,203	2	184	2		1	
8	Shahabad TIRHUT DIVISION.	3	1	4	20,716	20,247	40,963	1,325	1,192	2,517			·			
4	Saran				23,536	21,*26	45,362	2,587	2,316	4,903						
5	Champaran	35	35	70	20,750	18,029	38,788	3,424	2,771	6,195						
6	Muzaffarpur	7	6	13	82,618	29,918	62,531	4,699	4,009	8,708						
7	Darbhanga	2		2	30,890	27,850	58,740	4,632	4,105	8,737						
	BHAGALPUR DIVI- SION.										-					
8	Monghyr	13	8	21	24,433	22,574	47,007	2,544	2,278	4,817						
9	Bhagalpur	14	14	28	25,779	23,486	49,265	2,699	9,269	4,968				5	2	
10	Purnea	6	3	9	17,141	15,356	32,497	11,914	10,310	22,224				112	91	
11	Santal Parganas	74	56	130	10,881	9,221	20,102	2,048	1,682	3,730				7,334	5,950	1:
	CHOTA NAGPUE DIVISION.															
12	Hazaribagh	10	6	16	14,141	12,524	26,665	1,505	1,267	2,772				229	177	
13	Ranchi	1,964	1,756	3,720	5,608	4,944	10,552	583	480	1,063				9,125	7,986	11
14	Palamau	121	94	215	10,350	9,250	19,600	966	864	1,830					3	
15	Manbhum	28	23	51	15,642	12,782	28,494	906	733	1,639				1,400	and a	2
16	Singhbhum	84	63	147	8,857	3,400	7,237	122	84	206				No.	3,484	
	Total for the Province	2,363	2,067	4,430	300,719	272,479	173,198	44,432	38,482	82,914	2		2	22,457	18,812	41

Annual Form No. V .- Deaths registered according to class in

API

DIX I-contd.

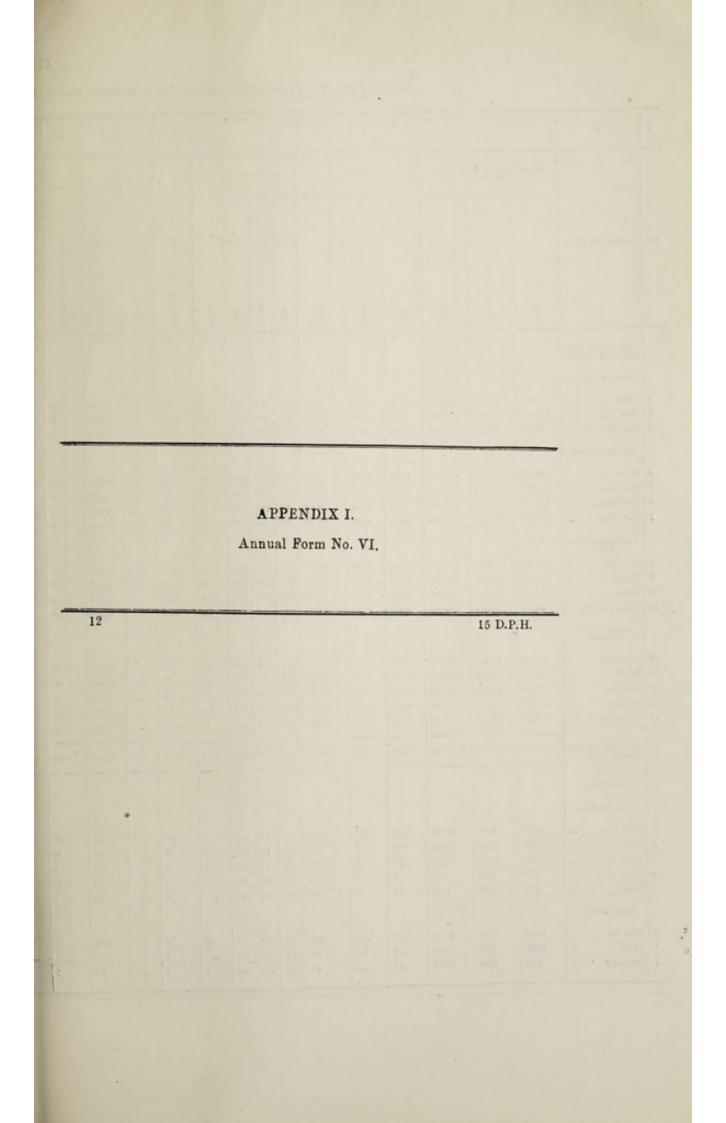
districts of Bihar Province during the year 1936-coneld.

-							4								
					Ratio	o of deaths	per 1,000 c	f popu	lation.		frenett."				
	Christians.			Hindus.		Mul	ammadan	ı.	В	addhis	sta.	Of	ther classes		No
Malo.	Female.	Total.	Male.	Female.	Total.	Male.	Fomale.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
														-	
1.0	1.3	11	20.8	21.2	21.0	17.2	16-3	16.7							
			24.7	23.0	23-9	23-3	18-1	25.0	153-8		105-2		2.7	1.3	1 2
2.7	0.7	1.7	22-4	22-1	22-2	18.0	15.2	16.6							3
										-					
			21.9	19.7	20-8	17.5	14.3	15.8							4
20'8	17:7	19-1	22.9	20.3	21.7	194	15.5	17.4							5
14.5	14.7	14-6	25-9	23.1	24.3	25.4	19.4	22.5							6
6-9		3.7	22.7	20.3	21.2	21.4	18.2	19.8							7
12-3	9-3	10.9	23.7	22.1	22-9	23-2	19-1	21.1							
15.8	20.6	17.9	25.9	24:0	24-9	21.5	18.2	19.9	***	•••	***				8
62	8.5	4.9	25.7	24-8	25-3	26.1	23-9	25.7				2.8 16.2	1·2 14·8	2.1	9
11.4	8.1	9.7	22-8	19-4	21.1	181	15.1	16.6				17.1	18.7	15·6 15·4	11
	J												10'1	10.4	1
5.8	4.1	5.0	23.6	20.2	22-0	17-7	14.5	16-1				33	2-6	\$-0	12
15.1	13-2	14.2	12.9	11.3	12-1	16.6	14-8	16.1				50-7	42-2	46.3	13
28.5	21-1	24-9	30.8	2.6	29-2	25.8	23-3	24.5					0.09	0.04	14
7.1	6.1	6.6	189	16.6	17-8	14.7	14.7	14.7				27-7	22-8	. 25.3	15
8.3	6.6	7.5	16-2	15.3	15.7	7:4	8-2	7.7				20.4	15-9	18-1	16
14-3	12.4	13.3	23.0	21.2	22.1	21.6	18.4	20.0	5.8		3.8	22-9	18-7	20-8	-

.

Number.	Distri	cte.	Christians.	Hindus.	Muhammadare.	Buddhists.	Other classes.	Total.
1	2	S. I.S.	3	4	5	6	7	8
1	Patna	{Urban Bural	 1·1 1·2	14'3 21'9	10 ^{.6} 19 [.] 9			13-2 21-7
2	Gaya	$\dots \begin{cases} Urban \\ Rural \end{cases}$	 	30·7 23-6	27-9 19-7	 111-1	 3·1	29 8 23-2
3	Shahabad	$\dots \begin{cases} Urban \\ Rural \end{cases}$	 2-2 1-5	6:1 23:6	6~0 19·3			6 0 22-7
4	Saran	$\dots \begin{cases} Urban \\ Rural \end{cases}$	 	18·7 28·8	19.0 15-6			18·8 20·2
5	Champaran	$ \begin{cases} Urban \\ Rural \end{cases}$	 26·4 11·9	17-6 21-7	17-2 17-4			17-9 21-0
6	Muzaffarpur	$ \begin{cases} Urban \\ Rural \end{cases}$	 5-4 29-7	17·4 24·7	16·1 22·5			17 [.] 0 24 [.] 1
7	Darbhanga	{Urban Rural	 18·1	20·5 21·5	11·5 20·3			18°0 21°4
8	Monghyr	{Urban Bural	 6·1 21·7	14·3 23·2	13-2 21-7			13·7 23·0
9	Bhagalpur	{Urban Rural	 12-8 23-1	18·8 25·9	13·0 20·7		 2-2	17·1 24·5
10	Purnea	{Urban Rural	 9·7 3·9	10.4	11-6	-	15·4 15·6	10°8 25°4
11	Santal Parganas	{Urban Rural (Urban	 7*9 9*8	4.7	3-3		15·1 15·4	46 185
12	Hazaribagh	"{Baral	 1.9	8·2 22-5	4.9		 3-0	7·1 20·1
13	Ranchi	{ Urban Rural (Urban	 5-9 14-4	7.7	6·5 18·6		34-9 46-4	8-8 21-2
14	Palamau	{Urban (Urban	 25-6	6·8 29·6	2-5		0.04	5·8 26·7
15	Manbhum	{Urban (Urban	 7.0	12-5	7-1		63-8 25-3	11.5
16	Singhbhum	" [Bural	 5°6 9°2	7.4	5.6 13.4		8-7	7.0
	Total for the Province	{Bural	 7.5	15·5 22 4	12·5 29·6	5.0	24.5	13-7 22-0

Annual Form no. VA. — Death rates according to class, in urban and rural areas separately in each district of Bihar province during the year 1936.



Annual Form No. VI .- Deaths registered from different causes in 1

-	-		-													
1	2		9			4			5		6	,	8		1)	1
		Populatio	n according of 1931.	to census		Births,		в	rth rat	es.					-	
No.	Districts and Towns.	Male.	Pemale.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Cholern,	Small-por,	Plague.	Feren.	Dysentery and diarrhose.	
	DISTRICTS EX- CLUDING TOWNS.															
1 9	Patos Gays	811,800 1,134,074	776,390 1,149,203	1,588,190	32,593 54,010	31,356 63,191	63,849 106,201	20'3 23'7	19 7 21'8	40-2 46-5	85 345	730 1,963		21,636 38,880	485 67	
3	Shahabad TIANUT DIVELON.	930,945	938,911	1,875,589	41,618	38,111	80,020	23-3	20.3	43 6	675	3,086	I	29,512	13	
4 5 6	Saran Champaran Musuffarpar	1,181,847 1,085,771 1,897,930	1,234,146 1,044,430 1,400,854	2,415,993 2,100,201 2,858,784	47,953 41,188 57,019	45,398 38,680 54,237	93,851 79,863 111,256	19-8 19-6 19-9	18-8 18-4 19-0	35-6 38-0 35-9	104 1 41	1,909 377 276	876 27 203	28,127 36,426 61,033	180 31 71	
7	Darbhanga BEAGALFUE DIVI- SION.	1,518,105	1,549,764	3,067,839	53,099	50,902	194,901	17:3	16-6	33-9	41	841	5	57,820	144	
8 9	Monghyr Bhagalpur	1,101,576 1,081,084	1,102,809	2,900,945 2,145,553	43,999 36,020	41,627 34,209	85,628 70,289	:9'9 16'8	189 159	38*8 33*7	32 445	2,285 1,264		38,29 2 45,367	97 27	
10	Santal Parganas CECTA NAOPUR	1,101,882 998,960	1,038,438	2,140,320 2,002,936	36,938 26,7 7 3	83,752 25,854	73,690	17-2	15 8	25.0	385	4,304 2,515		46,456 30,853	60 112	
12	Division. Hazaribagh	735,619	7+0,551	1,466,500	23,490	22,557	46,037	16 0	15-4	31'4	684	538		24,507	85	
13 14	Banchi Pala nau	748,829 403,177	762,728 4/0,519	1,509,055 806,096	23,413 17,303	23,185 17,130	44,597 34,433	15-5 21-6	15-3 21-2	30°8 42°6	425 195	73 694		25,953 17,355	916 26	
15 16	Manbhum Singhbhum	908,615 401,278	845,832 414,089	1,754,497 815,307	25,251 10,633	23,851 10,852	43,003 20,055	14·4 1*0	13°3 12'7	27-7 25-7	1,505 53	1,011 779		26,074 12,291	145 14	
	Total for the pro-	15,594,995	15,830,046	31,035,041	571,499	541,432	1,113,921	18.4	17-8	35.9	5,010	21,857	1,114	540,397	2,454	27
	TOWNS. Patha District.															
1	Pains City	93,535	67,452	159,690	1,500	1,423	2,982	9.8	9.9	18-7	50	165	1	647	187	
2 8	Bihar Dinapore	24,533 12,847	22,4/12	45,934 24,221	355 198	367 201	723	7.5	78	15·3 16·4	6 1	46 81		164	16 9	
4	Barh	8,179	4,571	9,750	193	183	375	19.7	18-7	38.4		4		80	13	
8	E hagolo GATA DISTRICT.	4,119	3,203	7,412	107	75	162	14-6	10-1	24-5		13		45	3	
6	Gaya	50,625	\$7,389	89,005	1,423	1,186	2,609	16.1	18-5	29-6	15	33		1,601	73	
7	Tikari Dandnagar	20,887 6,887	2,794 5,443	5,491 11,699	118 239	114 222	233 491	21.5	20'8	43-3		23		76 114	- 1	
	-															

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X I-contd.

tricts and towns of Bihar Province, during the year 1936-contd.

	•	1:			15		14							15		_				
		Isju	ries.			Tota! deat	its from al	l causes.			Rati	o of deat	bs per	1,000 o	f popu	lation.				
ide.		inata									1			1			F	rom all	eanses	
Femalc.	Wounds or arridents.	Smake-bite or killed by wild animals.	Rabies.	Total.	All other causes.	Male.	Female,	Total.	Cholera.	Smill-pcr.	Plague.	Forers.	Dysentery and diarrhoxs	Respira o y discases.	Injaries.	All other causes.	Male.	Female.	Total.	Mean of previous five years,
105 45	146 219	225	4	585 580	10,157 11,219	17,743	19,762 25,305	84,502 83,015	0.45	0.2	-	13-6 17-0	0.03	0.2	0'3	6% 49	2118 2414	21°5 22°0	21.7 23.2	23-8
59	210	150	3	473	8,975	21,664	21,103	43,767	014	1.6		197	0.01	0.01	03	4'8	23-1	22-4	32.7	28-9
117	263	516	23	1.026	16,618	25,419	23,63)	48,039	0.04	0.4	6*3	11.6	107	0.3	0.4	6-0	21-5	19.0	2072	12 6
13 50	121	3'30 507	8	474 1,064	7,002	23,754	20,485 33,240	44,239	0:000	0.1	0.01	17:3		0.0004		8.3	22.5	19*6	21.0	23-4
12	600	568	1	1,192	5,919	34,543	33,240	69,849 65,709	0°01 0°01	03	0.001	21·3 18·7	0.02	0-001 6-001	0'3 0'4	2*4 1*9	26'1 22'7	22:7 2011	24.4 21*4	24-6 23-3
13	166	377	11	633	F,342	26,399	24,3/2	5^,701	0.01	1.0		17-4	0.04	0102	0'3	42	21-9	22.0	23.0	
21	104	313	12	483	5,132	27,677	21,068	53,745	0.3	0.6		21.1	0.01	0.01	02	2.4	23.0	23-5	21.5	25-2 23-4
66 43	33 72	358 136	8	671 821	9,641 2,407	24,898	25,534 16,805	54,432 37,069	072 074	870 172		21-7 13-4	0°03 0°05	0.3	0.3	1-2	-26-2 90-3	34% 167	25-4 18-5	23-4 19-8
47	163	82	2	322	3,222	15,697	13,816	29,495	0'4	014		16-8	0.05	0.03	0-2	22	21-6	18*8	20.1	22-1
20 23	140	196	4	233 267	4,153 3,038	17,020	14,915 10,179	\$1,935 21,578	0'8	0.04		17 2 21-5	0.03	0°03 0°01	0.3	2.7 3*8	22 8 20'3	19-5	;21·2 30·7	23-2 28-0
43	118	115	7	410	2,683	17,598	14,381	81,979	0.9	0.0		14.8	0.08	0.08	0.2	14	19'3	17.0	18.3	18-4
23	40	111	2	197	1,230	7,799	6,6+7	14,486	0.1	6.0		14.9	0.01	0-005	0.5	1.2	19:4	16'1	17.7	16.6
C78	3,043	4,308	109	8,913	100,497	330,(7)	323,360	683,429	0.3	0.7	0.03	17-4	0.08	0.02	0-3	3-2	23.2	20.8	23.0	23-3
2	75	4		83	977	1,170	1,130	2,309	0-3	1.0	0.006	40	1.5	1.5	0.2	61	12.8	16.7	14.2	15.8
-	8	1		9 2	159 61	296 115	196	422 237	0.1	0.9		3.5	04	0.8	0.2	3.4 2.5	9.3	8.7	8.8	8.6
-	17			17	45	50	85	164		0.4		9.1	1-3	1.6	1'8	4.6	19.0	18-6	18.8	14'8
-	3	-	-	2	28	50	44	94		1.7		8.0	0.4	0.5	0.3	3-7	12-1	13-3	127	12-0
	81	6		59	954	1,572	1,270	2,851	0.3	0*4		18-2	0'8	1'3	07	10'8	31.0	34:2	32-4	36-0
		I		2	22	68	44	103		0.4		13 8			0.4	40	1000	10000	18-6	35-7
1	2		***		49	67	94	181	0108	0.2		9.7	0.08	0.8	0'3	4-2	13-9	17-3	15.2	19.6

Annual Form No. VI .- Deaths registered from different causes in the

1	2		8			4			Б		6	7	8	9	10	1
1		Populatio	s seconding to of 1931.	0.00000		Births.		BI	rth rat	e.						
0.	Discricts and Towns.	Male.	Prusie.	Total.	Main.	Female.	Tota".	Male.	Female.	lotal.	Cholers.	Small-por.	Plague.	Yerera.	Dysentery and diarthus.	
	TOWNS-cont !.															
	Arrah	28,675	22,267	48,023	292	128	518	5.9	48	10-5		7		1 140	5	
10	Busar	7,430	6,019	13, 619	192	170	362	14:3	1278	26.9	1	3		79	0	
11	Dumraon	7,602	6,819	14,421	140	60	139	8.7	6.8	16.2		3		30		
12	Jagadispur	4,791	4,870	9,661	110	95	208	11%	9'9	21.3				35		
18	Sararam	12,473	12,703	28,175	352	290	642	14:0	1'5	25.5	1	11		171	6	
4	Blabhua Sazas Distaict.	3,220	2,782	6,093	100	91	191	16.6	15-2	31.8			-	33	-	
	-							18.6	14.5	33-1	8	71	1	201	35	
5	Chapra Bevelganj	15,934	21,514 4,525	47,419	883 202	691 16g	1,574	18.6	14.5	413			-	59	4	
7	Siwan	4,297 7,981	6,234	8,912	202	241	510	16.7	17.1	35'8			8	107	2	
	CHAMPARAN DIS- TRICT,															
8	Bettlah	14,059	13,282	27,941	637	541	1,188	2214	301	42 5		6	119	274	11	
19	Motihari	10,526	7,019	17,515	200	174	374	11:4	99	21.3			-		15	
	raier.		-	100			2.2					1				
50	Muzsflarpur	25,050	17,999	43,045	563	523	1,106	13:5	13-1	25%	2	20	3	243	33	
11	Sitsmarhi	6,255	4,446	10,701	181	186	343	17.3	117	31.9		2.		131	6	
12	Hajipur	9.936	9,363	19,399	390	343	333	0.5	17.7	37.9	1	15		218	5	
13	Lalganj DARBHANGA DIS- TRICT,	4,676	4,516	P,192	163	185	308	19.6	20.1	4070				09	15	1
4	Darbhanga	32,274	18,402	60,676	1,941	1,015	2,346	874	16.6	57.0		3		480	23	
5	Roserah	4,533	4.836	8,900	135	116	211	15'2	13.1	38.9		10		82	2	
8	Sauastipur	6,101	3,190	9,891	135	123	261	13-9	12.4	26.3	-	1		59		
7	Madhubaui Mononya Uza- TRICT.	9,546	8,943	18,799	250	314	694	14-8	16.7	31.0			***	116	2	
8		27,843	25,020				100	15.4	18-1	23.5		55		300	15	
-	Jamalpur	16,378	13,908	52,803 30,346	816 533	678	1,509	17-6	16-9	34.4		72		167	40	
	BRAGALPUR DIS-															
,	Bhagalpur	44,808	36,979	83,847	F87	849	1,-31	1:7	1/1	21'è	25	184		673	46	
1	Colgong	2,632	2.601	5,233	118	80	198	32.5	15.3	37-8				74	-	1
	PURNER DISTRICT.		-					-	-		-		-		**	
	Pornes	9,255	6,219	15,474	184	15:	342	11.0	122	23-1		. 3		214	12	
	Kishenganj	8,827	3,129	8,945	79	50	138	88		15-4	-	1		47	1	
	Katihar -	9,014	0,450	15,+64	94	50	174	5.0	28223	10-9	-	2	-	20	1	
1	Forbesganj	3,715	2,236	5,939	98	87	155	10.5	9.6	201	1	11	-	61	11	

IX 1-contd.

stricts and towns of Bihar Province, during the year 1936-contd.

			11			12		13							14							18
		Īn	Juries				Tota	deaths fr causes,	rom all				Ratio of (deaths	per 1, %	o of po	opulati	om,				
Salelde			wild animals													ł	1		From	a) eace		
- Venala	· An other	Wcurds or accidents,	Snake-bite or killed by w	Rabies.	Total.	All other carses,	Male.	Fenals.	Total.	Cholera.	Small-por.	Plague.	Fertes.	Pysentery and diarrhose.	Replicatory diseases.	Injurtee.	All other causes.	Male.	Female.	Total.	Mean of previous five years.	No.
2		8 1 3 1 78 2 3			11 1 3 1 70 3 3 4	37 37 17 13 31 8 490 64 64 146	114 73 23 24 120 26 540 63 92 809	91 55 28 30 118 15 63 95 95	2005 1258 611 544 238 411 1,0:44 1255 187 2573) 0°1 0°03 0°2 	0'1 0'2 0'3 0'4 1'5 		2 8 5 9 2 1 3 6 6 8 5 3 6 1 6 7 7 5 9 8	0°1 0°4 0°7 0°4 0°1 0°4	01 01 	02 01 01 01 01 03 03 03 03 03	0.7 28 1.1 13 13 13 13 976 61 45 52	472 578 370 570 978 870 911 1476 1175 2170	4'1 9'1 6'1 9'2 8'3 13'7 16'2 19'8	4-1 9-5 3-5 5-5 9-9 6-8 21-3 14-2 13-1 20-4	419 1018 317 915 1110 1919 1412 1415 975	P 10 11 12 13 14 18 16 17
	3	12 41 3 21 3 43 2 3 5	s 5 3 1		15 64 3 26 7 63 2 4 7	222 83 14) 38 864 85 85 87 99	155 343 113 219 77 720 59 54 115	67 263 105 197 93 544, 63 52 110	243 601 318 415 170 ,1,264 172 106 325	 0~1 	0°3 0°4 1°9 0°8 0°08 8°6 0°1 		5-6 12-3 11-3 10-7 7-9 3-6 3-9 6-1	079 07 05 07 16 07 16 07 07 07 07 07 07 07	0°1 0°6 0°8 1°1 0°5 0°1 0°5 0°2	0°9 1°3 1°3 0°7 0°8 0°2 0°4 0°3	570 571 479 772 471 1079 975 877 572	1147 13.6 18.0 21.9 16.4 2273 19.6 8.8 11.8	19-3 14-3 23-6 20-5 19-1 19-1 19-1 19-1 19-6	1397 1399 2003 2108 1854 2008 1973 1077 1301	1:-1 16-7 24-0 90-6 28-7 28-7 28-0 35-6 12-5 12-5	19 20 21 23 23 24 26 20 27
	0 1	8 15 35 1	1 5 1		6 16 60 3	281 133 353 18	249 214 774 46	317 236 665 48	006 475 1,429 91	 60) 673 	111 124 122 		87 61 80 141	0°5 1°5 0°5 	0.7 0.7 0.6	0-1 0-5 0-7 0-6	47 44 47 84	12-5 14-7 16-5 17-4	12-7 11 9 17-7 18'4	13-6 15-7 17-4 17-9	14°0 16°3 13,3 20°6	28 30 30 31
	1	1	1	1	81 9 1 1	24 9 14 23	162 51 22 60	117 82 19 48	289 63 41 108	 0'2	0-2 0-1 0-1 1-3	1 1 1	13-8 5-3 10-3	0'8 0'1 0'06 1'8	0'3 0'3 0'2 0 2	2.0 0.5 0.06 0.3	1'8 1'0 0'9 8-7	8-3 2-4 16-2	10/4 15/3 2/8 21/6 D.H	18.7 7.0 2.6 18.3	12-7 6-7 6-1 14-1	32 33 34 32

Annual Form No. VI .- Deaths registered from different causes in the

						_										_
1	2		8			\$	-		8		6	7	8	9	D	11
		Populatio	n according t of 1931.	o census		Births,		Bi	rth rat	ie.						
No.	District and Town.	Rale,	Female.	Total,	Male.	Female.	Total.	Male.	Female.	Total.	Cholera.	Suall-por,	Plague.	Ferens.	Dreentery and diarrhous.	Respiratory diseases.
	TOWNS-emcld. SANTAL PARGANAS DISTRICT.															
56	0.1.D			15.000						7.6	1	31				
20 87	Deoghar	8,530 8,117	7,353	15,863	63 86	58 45	121	3.8	8.7	70	30	5		35	1	
38	Dumka	5,817	4,154	9,471	45	45	99	47	4'8	9.8			-	26		:
39	Madhupur	4,997	8,968	8,965	61	87	78	4.6	61	8-7				28		
19	1	e 12	14 192.													
	HARABIBAGE DISTRICT.	1.1.1	en [11.7]	14 12		-										
40	Hazaribagh	10,903	10,074	20,977	263	217	463	12.7	10-8	23-0		1	-	114	3	
-41	Chatra	4,312	4,448	8,758	78	75	153	8-9	8.2	17-4	1	9		70	3	
-42	Giridih	11,122	10,000	21,133	118	68	307	5.6	4.3	9.8		4		63		
	BANCET DISIBIOT.															
43	Ranchi	\$6,916	23,500	60,817	261	217	478	5-2	42	94	6			144	13	
-44	Lobardaga	3,816	3,761	7,677	108	72	180	16'2	9.5	23-7				207		
	PARAMAN DISTRICT.															
45	Daltonganj	6,601	5,439	12,040	310	77	187	91	0.4	15.5				43	4	
	MANDRON DESTRICT.	12 12	-													
56	Parulia	14,888	11,586	35,976	286	960	545	11.0	10.0	21.0	11	2		204		
67	Ragbunstbpur	3,654	3,485	7,139	116	93	208	16-2	12-9	29-1	2			93	3	
65	Jhalds	3,470	3,454	0,924	123	107	229	17.6	15.4	33*0	3			109	2	
60	Dhanbad	9,882	6,476	16,355	195	134	329	11.9	8.2	20.1	2	,		29	100	
	SINGNERTM District.		-							11				1		1
60	Chaibassa	8,716	5,069	13,785	128	131	350	11.0	191	26.0	1	39		83		
81	Chakradbarpur	6,215	4,978	11,191	99	75	174	8.8	67	15.2		11		55	1	-
53	Jagsalai	5,075	3,645	8,731	131	139	200	15.0	15-9	80%				28		
53	Jamshedpur	51,137	32,601	13,738	175	123	298	\$-0	1.2	3-5		37		178	18	3
(4)	Total for all Towns	733,983	592,193	1,320,176	15,003	13,821	20,813	13.1	10.4	22.5	160	997	131	8,635	661	7
(a)	Total for the whole Province.	14,238,978	16,133,3 19	83,361,217	587,481	656,233	1,143,734	18-1	17.3	85-3	6,070	22,655	1,845	\$48,933	3,116	3,11

(4) Excluding eantonment population,

[I-contd.

ricts and towns of Bihar and Orissa Province, during the year 1936-concld.

		11			12		13						1	•			-				1
	Inj	arics.				Total d	leaths from causer.	all			Batio	of death	s per l	lo 600,	popula	tion,					
.		à animals.								1							Fr	om all	causes.		
Female.	Wounds or accidents.	Saske-bite or killed by wild animals	Rables.	Total.	All other causes.	Male.	Female.	Total.	Cholers.	Small-por.	Plague.	Peretts.	Dysentery and diarrhoza.	Respiratory duscases.	Injuries.	All other causes.	Male.	Female.	Total.	Mean of previous five	N
	1			1	13 16	39 44	34	73 83	0.06	1.8		1.6	0.02		0.08	0.8	4.8	4'6 6'4	6.0°	5-3 3-6	
	1			1	3	16	16	32			-	5.7	-	0.3	01	0.8	3.0	3.8	3-3	47	
-		-			9	24	15	39		-	-	3.1		0-3		1.0	4.8	37	44	40	
	6			6	. 40	98	76	174		0.04	-	5-4	0.1	0'1	0-3	2.3	879	7.8	8"3	97	
-	1 1		-		11 29	81 - 69	42 48	93 97	0·1 	1.0 0.3		7'9 2'9	0° 1	0.04		1'3 1'3	11'8 4'4	9*4 4*8	10-6 4-6	11°8 5°3	
	3			3	108	144	128	992	0.1	01			0.3	01	0.1	20	0.3				
	1		-	1	17	116	113	320				278 27-3	0.5		01 01	13	30%	5-8 3010	5.5 37-2	6'5 16'4	
,		1		6	17	38	33	70	1	-		3-8	0.3	-	0.2	14	87	59	5.8	61	
	1			4	25	149	103	253	0-4	0-1		7.8		0'2	0-1		10-3	879	97	11-0	
				1	18	61	50	111	0*3		-	12-8	0.4			2.1	167	14'3	15-5	18-2	
	13			14	96	61 107	64 58	125	0.4	0.2		157	0.9	0.8	0°1 0°9	 5.8	17.6	18-5	18°0 10°1	15-9	
				4	64	91	97	188	0.1	2-6		7.8	0.3	0.3	0.3	8.8	18-9	19-1	17-6	17-3	
	1 2	1 1		- 1	51 27	59 34	00 27	119 61		0.5		4.9	0.1	 071	0'1 (rt	4'5	978	12-0	10-#	77	
3	31	1		30	188	293	160	442		0-4		3*3 2*1	0.2	0-1	0.3	\$1 218	6'7 5'6	7.6	0.8 2.3	5.1	
28	534	- 44	5	651	6,200	9,915	8,399	18,214	0'1		0'1	10.5	0.8	0.0	0.2	4.7	13'4	16 2	13.7	13.7	-
	\$.577	1 412	114	8,594	108,717	389,894	831,759	701,663	0.3	0.7	0.04	17.0	0'1	0.1	0.3	3.3			11-7	32.9	-

APPENDIX TO ANNU!

Births and Deaths registered in the cantonment of t.

1	2	-	8			4				5	6	7	8	9	10
		Indian no population Census	on-military according to of 1931.		Births.		B	irth-rat	<i>.</i> 0.						
No.	Name of cantonment.	Male.	Female. Total.	Malo.	Female.	Total.	Male.	Female.	Total.	Cholern.	Small-pox.	Plague.	Forers.	Dysentery and diarrhoss.	Reepiratory diseases.
1	Dinapar	5,009 4,	.366 10,217	135	189	274	13-2	13.6	25-8		9	i	73	3	

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*

ORM No. VI.

ihar Province, during the year 1936.

The last			11	1		12		13	1	1		1			14						15
		Iı	ijaries.				Total	deaths	from s.		Ratio	of deat	ihs per	1,000 of	popula	tion.		A	ll cause	e.	
Male.	Female.	Wounds or accidents.	Snake-bite or killed by wild animals.	Eables.	Total.	All other causes.	Malo.	Female.	Total.	Cholera.	Small-pox.	Plague.	Fevors.	Dysoutery and diarrhoas.	Respiratory diseases.	Injuries.	All other earses.	Male.	Female.	Total.	No.
I		1	2		3	59	80	81	161		0.9		03	1.3	1.3	0.3	5.7	13.3	18.8	15-7	1

14

15 D.P.H.

ANNUAL FOI

Deaths registered from different kinds of feve

				-		1	-	-							_	
	Mun	lolpalities.			Malaria.	Katerio Verer.	Measles.	Rainpeing Fevers(Spirochastal).	Kala Amr.	Inforena.	Cerebrospinal Faver,	Thypas Ferre.	Blackwater Forer.	Other Fevers,	Dysentery.	Diarrhoes.
	. best	1	a la disa		1	3	4	8	6	7		9	10	11	13	13
	PATNA	DISTRICT	r.			1				1						
Patna City									-					647	1	
Bihar Dinapore					13					13		15	-	125	9	
Barh							-					-		119	3	
Khagole			-		-			-		-	1				13 3	-
		DISTRICT										-				
Gaya														1,604	73	
Tikari				-		-								76	-	
Dan inagar					18		9			13				75	1	-
	HAHABA				13									1000		
Arrah		-							-				-	117	8	
Dumraon					-	-						-	-	79	3	
Jagdishpur					8	1.000		3		3				17		
Sascam.					94	-	-							77	6	
Bhabua				-	4		28	-								
Be tiah CE	BAMPAR	AN DISTR	HOT.	-	25		-	1	5	15	1	10		317		-
Motihari									1					28	14	
MU			BICT.				1.1						1764			
Munaffarpur Hajipur						-	3							840	21	
Lalganj							-			-		-		218	6	-
Silamarhi														131	15	-
м	ONGHYI	DISTRIC														
Monghyr					3	3	1		7	3		3	4	278	3	
Jamalpur	PURNEA	DISTRICT		-	'		1			3				177	14	
Pornes					185		3			5		1		-		
Katibar					15		3		1	3				20	8	
Kishang nj					43					1		1			1	
Forbosganj					51		7		1			1	1		7	
Sahibganj S	ANTAL	PARGANA	s,													
Peoghar					27									23	- 1	
Dumks					1	-								26		
Mad' upur									-					28	_	-
Ranchi	EANCHI	DISTRICT	r. 		84					1				50		
Lohardaga				-	50				-					157		
Porulla M.	ANBHUM	DISTRIC			78											
Jhalla					50	-		-		3	-	8		124	1	
Raghusathput					10	48						*	_	34	3	-
Dhau'. ad				-	6	1			1	1		1		18	0	
Chalbassa SIN	GHBUU:	M DISTRIC		_	75					1999						
Chakradharp u												-	-	7 55		-
Jogsalui					8			-						20	1	
Jamshedp ur				!		-				-				173		
(The second	ARAN D	ISTRICT.							8	1						-
lievilganj				_						-		. 3		283	n	24
Slwan									_	31		- ,		50 84	2	-
				-	-			1				1			- [3

10. VI(a)

ysentery, diarrhoea, respiratory diseases and other causes.

Preumonia.	Pulmonary Tubeccalouia.	Hooping coagh.	Other respiratory diseases,	Berl-berl.	Acute polioargelitia.	Diptheria.	Chickenpor.	Manops.	Tuberculosis of joints.	Other tabezoular diseases.	Leprosy.	Canore,	Deaths from ohild-birth.	Deatha under one year.	Infantile mortality rate per 1,000 b trtha
14	15	18	17	19	19	20	21	22	23	21	25	26	27	28	29
									1	1		-			
**		1	197				5							478	16
		- 1	24										13	90	13
		16		-			53					1	10	63	15
		-		1			13							87	9
													•	2)	LSI
	-	98	18				25		-				103	730	27
							3							33	14
•			9				-	***				-	11	58	13
			5							1					
		- 1	1											48	8
								-					-	43 16	11
		5					-							16	6
		4	11				11		-					50	7
11						-	3			13			1	105	
		1	21				5				1		Sec. 1	105	
												1		-	11
		:	91 7			-	3					•	-43	137	12
			10						-			6	2	119	16
			4				18				-			52	14
				-	-						-		°	70	20
24	8	4 14					.54			6			6	171	21
-		1.0		•	-		58						1	136	15
		5					1				1				
1			2										3	50	14
1	-		2		-		1						5	17	1
	1						4						3	28	1
								-							
													-	17	1
	-	1	1						-					18 7	17
			2								-			7	7
			5			8	1			13			1		
													1	33	0
3		-	-	_											16
1			3				1			1				30	5
)				'							28	22
10											3		3	33 29	110
									land a						81
									***				3	5	19
			1										5	33	183
		_	1					-				-		20	74
	i										1				124
17	-	-	53	1									10	205	130
	-		5				-	-						45	123
	a construction of the		-		-	-			***					56	200

Annual Form No. VII .- Deaths registered from Cholera in t

.1	2			3											
and the second	Districi.			Circles of registration.		Villages.									
N •.				Number in each district.	Number from which deaths from cholera were reported.	Namber in each district.	Number from which deaths from cholers were reported.	January.	February.	March.	April.	May.	June.	Jaly.	
2	PATNA	DIVISION			1	1									
1	Patna			20	14	2,315	70	2	33	6	11	9	18		
2	Gaya			16	14	6,038	223	12	10	1	20	48	29		
3	Shahabad	· ···		17	5	4,785	152		1	5	40	146	285		
		Total		53	33	13,108	545	14	44	12	71	203	,832	1	
	TIRHU	r DIVISIO	N												
4	Saran			18	9	4,305	32		-	-	11	35	33		
5	Champaran			11	1	2,548	1		1	7					
6	Muzaffarpur			14	9	4,039	21	10	1	6	5	5	6		
7	Darbhanga			14	4	3,135	18	8	3	1	8			1	
	-	Total		52	23	14,047	72	18	5	14	24	40	*89		
	DHAGALD	ID DIVIS	TON											-	
	BHAGALPUE DIVISION. Monghyr			13	8	0.010	13			-		10			
9	Bhagalpur			14	14	2,610 3,080	. 90	49		4	6 10	10 2	5	1	
10	Purnes			17	9	4,160	180	56	87	2	56	47	2 45		
11	Santal Parga			10	8	10,160	454	21	5	21	10	14	69		
THE S	The second second second													1	
		Total		54	39	20,010	737	119	48	<0	82	73	121		
	CHOTA NAG	PUR DIV	ISION.												
12	Hazaribagh			21	19	6,087	75	21		3	25		1		
13	Banchi			32	14	3,838	182				2	1	6	4.1	
14	Palamau			10	8	3,134	146				3	11	7		
15	Manbhum			35	83	4,643	580	23	88	138	266	399	267		
16	Singhbhum			13	4	3,013	12	4	16	19	15	1			
											-				
		Total		111	71	20,714	995	48	102	160	311	412	281		
	10-1-	-						-			-	-	-		
-	Total for	sàs Provis	·ce	270	166	67,879	2,349	199	199	226	488	728	773		

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APPE

istricts of Bihar Province, during each month of the year 1936.

						6			8	1		
					Total.			Batio of deaths per 1,000 of population.			previous	Ī
August.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	F emalo.	Total.	Mean ratio per 1,000 of previous five years.	No.
10	1	3	26	8					100 10	1		Ē
26	21	21	129	8 34	84	58	142	0.1	0.06	0.02	1.1	1
39	28	53	4		196	165	361	0.3	0.1	0.1	2.0	2
					359	318	677	0.3	0.3	0-3	1.5	3
75	50	76	159	42	639	541	1,180	0.5	0.5	0.5	1.4	
		20										
				***	46	66	112	0.01	0105	0.04	03	4
5				***		1	1		0.001	0*0004	1.0	5
10				***	29	15	44	0.03	0.01	0 01	0.4	6
			***		22	19	41	0-01	0.01	0.01	0.2	7
15		21			97	101	198	0.05	0.02	0.02	0.2	
	10				un -	THE AL						
***			***		19	14	33	0.05	0.01	0.01	1.4	8
72	45	64	100	71	277	193	470	0.3	0.2	0.5	1.8	9
16	305		18	98	187	199	386	0-9	0-2	0.2	0.5	10
131	86	60	155	91	443	393	835	0.4	0-3	0.4	08	11
219	132	124	273	260	925	799	1,724	0.2	0.2	0.3	1.5	-
												-
81	95	148	256	48	334	351	685	0.4	0.4	0.4	1.0	15
223	68	46			231	200	431	0.3	0.3	0.8	03	
26	61	32	25	21	92	94	186	0-2	0.2	0-2	1.0	
148	88	17	24	40	767	866	1,613	07	0.9	0.0	0.6	
					30	23	53	0-1	0.1	01	0.1	
478	312	243										
		240	305	109	1,434	1,534	2,968	0.8	0.2	0.4	0.6	
787	494	464	787	411	3,095	2,975	6,070	0.5	0.5	02	0.9	

15 D.P.H.

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Annual Form No. VIII .-- Deaths registered from small-poz in t

L	2	8		4		1					5
1	The same of the same	Circles of R	egistration.	Villa	gos.	1					
No.	District.	Number in cach district.	Number from which deaths from small-pox were reported.	Number in each district.	Number from which deaths from small-pox were reported.	January.	February.	March.	April.	May.	June.
	PATNA DIVISION.		1		1	1	1	1			
1	Patna	- 20	20	2,315	231	116	117	167	190	201	
2	Gaya	. 16	16	6,059	745	101	250	249	312	389	
3	Shahabad	. 17	15	4,735	631	360	453	433	545	596	11
	Total	53	51	13,108	1,607	577	820	849	1,047	1,186	
	TIRHUT DIVISION.									_	
\$			11	4,315	302	47	69	108	105		
5	Champaran	- 11	7	2,548	151	36	27	21	197 39	332	3
6	Muzaffarpur	14	/ 12	4,059	191	37	19	25	40	49	1
7	Darbhanga	. 14	13	3,135	215	53	47	80	205	107 273	
	Total	52	43	14,047	949	173	162	234	481	761	41
	BHAGALPUR DIVISION		11	10							1
8			13						1.10		
9		- 13	13	2,610	556	101	241	302	444	553	3
10	Durante	. 17	17	3,080	188	136 926	144 306	201	297	320	1
п		. 10	8	10,160	755	108	177	722 258	936 495	1,163 555	4
	Total .		51	20,010	2,575	631	868	1,488	2,172	2,590	1,3
	CHOTA NAGPUE DIVISIO		100								
12		1									
12	Der M	. 32	21	6,087 3,838	306	103	53	58	103	110	
14	D. Lawrence	. 10		3,535	40	11	88	3	11	10	1
15	W 11-		34	4,642	478 625	31 72	109	93 142	107	132	1
16	61-111	. 13	11	3,013	254	38	14	114	201 247	209 208	1
	Tetal .	. 111	86	20,714	1,703	255	264	405	669	669	3
	Tutal for the Province .		231	67,879	6,834	1,636	2,114	2,971	4,369	5,206	2,8

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tricts of Bihar Province. during each month of the year 1836.

-									1						T
3	200-2						6			7		8		9	1
							Total.		deaths	ber of among dren.	T	tio of de er 1.000 o opulatio	of	of previous	
July.	Angust.	September.	October.	November.	Decomber.	Malo.	Fomale.	Total.	Under I year.	One year and under 10 years.	Male.	Fomale.	Total.	Mcan ratio per 1,000 of provious five years.	No.
1				1								1			
51	25	5	3	2	33	487	512	999	317	378	0.2	0.2	0-5	0.4	1
157	66	51	30	26	73	\$16	965	1,901	99	252	0°8 1°5	0-8	0.8	0.9	2
136	56	43	15	38	54	1,479	1,631	3,110	369	665	15	10	1:6	00	
344	147	99	48	66	166	2,882	3,128	6,010	785	1,295	0.9	1.0	1.0	0.7	
_															
			20	42	26	708	632	1,340	139	255	0.5	0.5	0.5	0.6	4
141 26	31 7	24 9	1	1	15	148	144	193	63	41	0-1	0.1	0.1	0.5	5
25	11	1	51	1 10	22	179	155	334	57	84	0.1	01	01	0.3	6
75	84	12	3	7	16	452	442	894	21	13	0.2	0.2	0.5	0.3	7
						-				-					
267	83	46	29	51	79	1,487	1,373	2,860	230	393	0.3	0.5	0.2	0-4	
_												(mu)			
134	53	36	23	26	55	1.237	1,178	2,415	\$1\$	575	1.1	1.0	1.0	0.2	
76	33	17	14	14	22	773	675	1,448			07	0-6	0.6	0.2	9
204	162	54	46	37	32	2,263	2,038	4,321	404	808	2.0	1.9	20	1.3	10
250	143	61	37	39	50	1,358	1,198	3,551	42	154	1.3	1.5	1.5	0~4	11
664	421	168	120	116	159	. 5,631	5,104	10,735	759	1,537	13	1.3	1.2	0.2	
				2.1.1		0.02	1100 1			1					
25	45	16	4	15	7	324	278	602	75	120	0.4	0.4	0.4	0.4	12
15			6	8	3	44	- 38	82			0.05	0.04	0-05	0.2	13
68	45	20	11	8	10	352	342	694			9.8	0'8	0-8	0.4	14
84	36	31	. 7	12	75	554	470	1,024	59	112	0-6	0.2	0-5	0.1	15
61	10	11	9	7	12	467	389	856	38	94	0-9	0'8	0-9	0'3	16
203	136	78	37	50	107	1,741	1,517	3,258	172	326	0.2	0.2	0.2	0.8	
1,478	787	391	234	283	521	11,741	11,122	22,963	1,946	3,551	0-7	0.7	0.2	05	
-															-

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Annual Form No. 1X .- Deaths registered from Fevers in the distri

						-			-					
1	1	2			3		4							
				Circles of tio	Registra- n.	vin	ages.							
No.	Dist	rict.		Number in each district.	Number from which deaths from ferers were reported.	Number in each district.	Number from which deathsfrom ferers were reported.	January.	February.	March.	April.	May.	June.	July.
	PATNA D	IVISION	τ.											
1	Patna			20	20	2,315	2,301	1,334	1,300	1,646	1,908	2,533	1,869	2,2
2	Gaya			16	16	6,058	6,000	2,827	2,349	2,540	3,039	4,003	3,402	3,2
3	Shahabad.			17	17	4,735	4,670	2,017	1,655	1,911	2,083	3,559	3,107	2,6
	T	fotal		58	53	13,108	12,971	6,205	5,314	6,097	7,030	10,100	8,378	8,2
	TIRHUT 1	DIVISIO	N.	-										
4	Saran			13	13	4,305	4,217	1,916	1,742	2,020	2,382	2,743	2,737	2,7
5	Champaran			11	11	2,548	2,520	2,802	2,043	2,034	3,433	3,764	3,494	2,4
6	Muzaffarpur			14	14	4,059	4,030	4,077	3,439	4,184	4,627	6,856	5,451	4,0
7	Darbhanga			14	14	3,135	3,085	3,738	3,354	4,087	4,975	5,799	4,899	3,4
	Т	'otal		52	52	14,047	13,872	12,553	10,578	12,325	15,407	18,662	16,491	12,0
	BHAGALPUR	DIVIS	ION.											
8	Monghyr			13	13	2,610	2,590	2,569	2,672	2,731	3,096	3,866	8,149	2,6
1 9	Bhagalpur			14	14	3,080	3,035	3,444	3,087	3,785	3,370	3,716	8,026	2,8
10	Purnea			17	17	4,160	4,099	3,491	3,409	4,148	4,392	4,952	3,755	2,\$
11	Santal Pargana	8		10	10	10,160	9,312	2,519	2,366	2,387	2,320	2,567	2,355	2,5
	т	fotal		54	54	20,010	19,086	12,023	11,534	13,051	13,178	15,101	12,285	10,5
	CHOTA NAGP	UR DIVI	SION.											
12	Hazaribagh			21	21	6,087	4,930	3,096	2,224	2,246	2,329	2,361	1,046	1,5
13	Ranchi			32	32	3,838	3,610	1,840	1,911	2,073	2,226	2,162	1,981	2,(
14	Palaman			10	10	3,134	2,810	1,745	1,338	1,347	1,289	1,375	1,260	1,5
15	Manbhum			35	35	4,642	4,515	2,053	2,250	2,173	2,365	2,388	1,984	1,1
16	Singhbhum			13	13	3,013	3,011	1,037	1,041	1,202	989	934	887	1
		Total		111	111	20,714	18,876	9,771	8,764	9,041	9,198	9,220	7,758	7;
	Total for P	rovince		270	270	67,879	64,755	40,555	36,190	40,514	44,813	53,083	44,912	39,

IX 1-contd.

Bihar Province, during each month of the year 1936.

						6			7		8	1
						Total.		Batio of	deaths per 1, opulation.	000 of	previous	
Angust.	September.	October.	November.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	
												Ī
2,283	1,738	2,164	1,656	2,115	11,445	11,347	22,793	11-9	12.7	12.3	13.0	
4,947	4,265	3,659	3,195	3,174	21,001	19,673	40,674	17.6	16-5	17.0	20.4	1
3, 13	2,896	2,392	2,132	2,134	14,835	15,154	29,289	14.8	15-2	15-0	-17-4	
10,613	8,899	8,215	6,963	7,428	47,281	46,174	93,455	15-0	15-0	15-0	17-2	-
2,883	2,808	2,399	1,959	2,293	15,203	13,381	28,584	12.4	10.2	11-5	12-8	l
3,269	2,973	2,790	3,106	4,750	19,680	17,119	36,799	18.2	16.0	17-1	17.1	ł
5,078	4,661	6,018	6,140	7,618	32,242	29,488	61,730	22-3	19-6	21.0	20-3	l
4,604	4,555	5,410	5,770	7,510	30,499	27,688	58,187	13.0	17:8	18-3	18-5	
15,834	14,997	16,617	16,975	22,181	97,624	87,676	185,300	18.4	16-2	17-2	174	
3,401	8,384	3,531	3,687	4,007	20,018	18,761	\$8,779	17.5	16.4	16-9	17.9	I
3,777	3,840	4,248	5,333	5,638	24,117	21,997	46,114	21.3	19.9	20.6	18.2	I
3,156	2,809	3,424	4,275	5,777	24,786	22,012	46,798	21.9	20.3	\$1.4	19-9	
3,075	3,072	2,640	2,362	2,796	16,850	14,118	30,968	16.4	18-7	15-1	16-1	
13,709	13,105	13,843	15,657	18,218	85,771	75,888	162,659	19-3	178	18.5	18.1	
1,898	2,021	1,728	1,759	1,983	13,130	11,714	24,844	17:5	15-3	16-3	17-1	
3,072	2,690	2,164	1,858	2,277	18,912	12,391	26,303	17.9	15.6	17:4	18.5	l
1,449	1,549	1,617	1,641	1,533	9,168	8,230	17,398	22-4	20-1	21-2	21-8	l
2,606	2,498	1,824	1,703	2,712	14,548	11,960	26,508	15.4	15.7	14.6	15.4	l
1,113	956	870	996	1,568	6,727	5,812	18,539	14.3	12.6	13-4	12-8	
10,138	9,714	8,203	7,957	10,073	57,485	50,107	107,592	17-2	15-2	16.2	16.9	
50,294	46,715	46,878	47,552	\$7,895	288,161	260,845	549,006	17.7	16.2	16.9	18.5	

16

15 D. P. H.

Annual Form No. X .- Deaths registered from Dysentery and Diarrhaa in t

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1	2		3		4					-				5
			Circles of 1 tio	Registra- n.	Villa	ges.								1
No.	District.		Number in each district.	Number from which deaths from Dyseutery and Diarrhon were reported.	Number in each district.	Number from which deaths from Dysentery and Diarrhom were reported.	Janaary.	February.	March.	April.	May.	June.	July.	
	PATNA DIVIS	SION.				i								1
1	Patna		20	20	2,315	859	42	31	39	50	29	60	90	9
2	Gaya		13	12	6,058	112	11	1	8	12	2	19	15	1
3	Shahabad		17	5	4,735	23	3		***		2	2	2	
	Total		53	37	13,108	493	56	32	38	62	43	81	107	11
	TIRHUT DIVIS	SION.				-								-
4	Saran		13	13	4.305	170	13	15	16	18	22	33	12	2
5	Champaran		n	9	2,543	28	1	8	4	1	14	3	7	2
6	Muzaffarpur		14	12	4,059	91	7	16	10	20	25	- 8	8	
;	Darbhanga		14	5	3,135	115	93	3	4	9	18	3	40	
	Total		52	89	14,047	404	41	37	34	48	79	47	67	1
	BHAGALPUR I SION.	DIVI-				-								
8	Monghyr		13	11	2,610	92	4	7	12	10	21	8	29	1
9	Bhagalpur		14	11	3,080	26	9	2	1	. 5	5	4	21	
10	Parnea		17	13	4,160	27	2	2	5	11	3	16	7	1 1
11	Santal Pargaras		10	7	10,160	113	18	7	5	2	17	14	15	1
	Total		54	43	20,010	238	33	18	23	28	46	42	72	
	CHOTA NAGPUI SION.	R DIVI												
12	Hazaribagh		21	13	6,087	35	3	1	3	4	6	3	1	
13	Ronchi		32	26	3,838	485	39	51	59	61	63	57	147	21
. 14	Palaman		10	6	3,134	17	1	7	1	1		1	3	
15	Manbhum		35	21	4,642	80	7	13	11-	17	17	16	29	
16	Sieghbhen		13	9	3,013	28	5	2		4	3	3	4	
	Total		111	75	20,714	645	55	74	74	87	89	100	184	25
	T.t.l for the Pr	ovince	270	193	67,879	1,800	185	161	169	225	237	270	430	50

X I-contd.

stricts of Bihar Province, during each month of the year 1936.

		.	1	-			a second s	and the second sec	and the second se	and the second se	
					Total.		Ratio	of deaths per of population.	1,000	revious	
Septembor.	October.	Norember.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean ratio per 1,000 of previous five years.	No.
54	82	65	76	369	346	715	0.4	0.4	0-3	0.2	1
12	19	12	14	92	49	141	0.07	0.04	0.06	0.1	
2	7	2	8	13	17	30	0-01	0-01	0.95	0.03	3
68	108			474	412	886	0.1	0.1	0.1	0.3	
	10							0.07		~~	
19	12 2	10	26 1	125	96 24	231 57	0.1	0.02	0.02	0.2	5
5	10		3	69	60	129	0.04	0.04	0.04	0.02	6
10	17	4	6	109	62	171	0.00	0.03	0.02	80-0	7
35	41	23	36	336	242	578	0^06	0.04	0.02	0.08	
19	7	7	15	93	65	158	0.08	0.06	0.07	0.07	8
3	5	4	8	46	27	73	0.04	0.05	0.03	0.02	9
4	2	2	4	58	27	85	0.02	0.05	0-04	0.03	10
16	8	2		60	57	117	0.02	0.02	0-05		
40	22	15	27	257	176	433	0.02	0.01	0.02	0.06	
									0.00	0:04	1
105	1 74	6	2	26	13	39	0°03 0°7	0.02	0.02	0.04	13
125	5	23 1	28	548 18	414 12	962 30	0.04	0.03	0.04	0-03	14
3	8	7	4	83	73	156	0.08	0.08	0.08	0.08	15
4	1	3	2	19	16	34	0.03	0.03	0-03	0.04	16
133	89	50		693	528	1,221	0.1	0-2	0-2	0-2	
276	260	167	197	1,760	1,358	3,118	0.1	0.08	0.1	0'1	

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Annual Form No. X1 .- Deaths registered from Respiratory diseases in t.

1	2			:	8	4								5
				Cirel Regist	es of ration.	vill	ages.				1			
No.	Dist	rict.		Number in each district.	Number from which deaths from Respiratory discases were reported.	Number in each district.	Number from which deaths from Respiratory diseases were reported.	January.	Fébruary.	March.	April.	May.	June.	
	PATNA D	IVISION	ī.											
1	Patus			20	20	2,315	286	81	72	132	85	84	60	
2	Gaya			16	11	6,058	118	18	10	16	20	15	10	
8	Shahabed			17	6	4,735	31	3	13	2	2	4	3	
	т	otal		58	37	13,108	435	102	95	150	107	103	73	
	TIBHUT	DIVISIO	N.											-
4	Saran			13	13	4,305	176	60	68	97	60	75	70	
5	Champaran			11	5	2,548	9	3	2	1	3	2		
6	Musaffarpur			14	18	4,059	48	7	4	7	5	13	6	
7	Darbhanga			14	7	3,135		6	6	9	8	3	2	
	Т	otal		52	38	14,047	233	76	80	114	76	93	78	
	BHAGALPUR	DIVISI	ION.											
8	Monghyr			13	10	2,610	39	10	15	11	10	23	14	
9	Bhagalpur	***		14	11	3,080	929	11	9	9	. 9	7	5	
10	Purnea			17	. 10	4,160	13		1	4	4	8	2	
11	Santal Parganas			10	8	10,160	169	20	21	40	30	50	34	2
	т	otal		54	39	20,010	230	41	46	64	53	88	55	11
	CHOTA NAGPU	R DIVIS	ION.											
12	Hazaribagh	***	***	21	13	6,087	20	6	2	18	4	4	4	
13	Ranchi			82	14	3,838	15	5	5	8	4	5	5	
14	Palamau			10	6	3,134	11	1	5	2	1			
15	Manbhum			.83	23	4,642	95	17	17	20	11	10	12	
16	Singhbhum			13	6	8,013	6		3	2	2	1		
	T	otal		111	62	20,714	147	29	32	45	22	20	21	-
	Total for the Pro	-		270	176	67,879	1,065	248	253	873	258	304	227	

X I-contd.

tricts of Bihar Province, during each month of the year 1936.

					Noninen -	6			7		8	1
1						Total,		Ratio of	deaths per l	1,000 of	rions	1
	September.	October,	Norember.	December.	Male.	Female.	Total.	Male.	Female.	Total.	Mean rutio per 1,000 of previous five years.	1
												Ī
85	80	88	94	117	553	520	1,073	0.2	0.6	0.5	0.2	
9	9	21	9	20	103	71	174	0.08	0.06	0.02	0-06	
5	2	5	3	6	30	20	50	0.03	0%2	0.03	0-03	
99	91	114	106	143	686	611	1,297	0.2	0-2	0.5	0-2	
66	76	61	34	48	431	346	797	0.3	0.2	0*3	0.3	
	1				8	5	13	0.002	0.004	0.006	0.000	
10	6	5	4	9	59	26	85	0.04	0.01	0-02	0.03	
21	9	9	4	6	70	40	110	0.04	0.05	0-03	0.01	
97	92	75	42	63	568	417	985	0-1	0.08	0.09	0.08	
2					64	45	109	0.05	0.04	0-05	0.03	
8	11 5	1 2	1 2	5 12	45	33	77	0.04	0.03	0-03	0.03	
		2	2	1	17	10	27	0.01	0.01	0.01	0.01	l
29	30	17	23	82	257	104	361	0.5	0.1	0.2	0-1	
34	48	22	28	50	383	191	574	0.08	0.04	0.06	6.62	-
2	3		1	5	27	25	50	0-3	0.03	0.03	0.03	
5	3	1 9	9	2	44	14	58	01	0.01	0.03	0.04	
1			1	1	10	2	12	0.02	0-005	0.01	0.01	
16	13	10	19	17	133	50	183	01	0-05	01	0.09	1
	1		1		9	1	90	. 0.03	0-002	0-01	0.03	
24	20	20	31	23	223	90	313	0-06	0.03	0.02	0.02	
254	249	231	207	281	1,800	1,309	3,169	0.1	0.08	01	0.09	1

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Annual Form No. XII .- Deaths registered from Plague in t

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PATNA DIVISION. 20 1 2.313 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> <th1< t<="" th=""><th>1</th><th>2</th><th></th><th>8</th><th></th><th>4</th><th></th><th></th><th></th><th></th><th></th><th></th><th>5</th></th1<></th1<>	1	2		8		4							5
No. District. Tip t	-		Cirel	es of	val								
Yes Yes <thyes< th=""> <thyes< th=""> <thyes< th=""></thyes<></thyes<></thyes<>													
Yes up of a digital state up of a digital state <thup a="" digital="" of="" state<="" th=""> up of a digita</thup>	No.	District.	strict	whiel	strict.	which 'lague					-		
PATNA DIVISION. 20 1 2.315	-		sch di	d									
PATNA DIVISION. 20 1 2.315			r in e	fron fron	r in ea	fro fro		ŕ					
PATNA DIVISION. 20 1 2.315			Tumbe	fumbe deaths were r	umbe	fumber denths were	anuar	ebrua	fareh.	peil.	lay.	une.	July.
1 Patas 1 2.313 1 1 1 </td <td></td> <td></td> <td>-</td> <td>4</td> <td>4</td> <td></td> <td>5</td> <td>Piq</td> <td>2</td> <td></td> <td>A</td> <td>5</td> <td>5</td>			-	4	4		5	Piq	2		A	5	5
2 Gaya .	,												
3 Shahabad <t< td=""><td>101</td><td></td><td>300</td><td></td><td>1000</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td></t<>	101		300		1000					1			
Total 53 1 13,108 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> <th1< th=""> 1 <</th1<></th1<>	100	61.1.1.1	1.										
TIEHUT DIVISION. 13 9 4,505 200 102 170 251 146 95 4 Saeaa 11 3 2,548 9 34 24 55 177 8 9 Musaffarper 14 4 4,650 191 19 46 91 10 10 <													
4 Saran 13 9 4,505 200 102 170 251 146 35 4 5 Champaran 11 3 2,546 9 34 24 59 17 3 2 6 Mozaffarpur 14 4 4,659 191 19 46 91 10		Total	53	1	13,108					1			
5 Champaran 11 3 2,548 9 34 24 50 17 8 2 6 Mazaffarpur 14 4 4,549 191 19 46 91 10 10 <td< td=""><td></td><td>TIBHUT DIVISION.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		TIBHUT DIVISION.											
6 Musaffarpur 14 4 4,859 191 19 46 91 10 10 7 Darbhanga 14 1 3,135 1 5	4	Saran	13	9	4,305	209	102	170	251	146	85	4	19
7 Darbhanga 14 1 3,135 1 5 <t< td=""><td>5</td><td>Champaran</td><td>11</td><td>3</td><td>2,548</td><td>9</td><td>34</td><td>24</td><td>59</td><td>17</td><td>5</td><td>2</td><td>200</td></t<>	5	Champaran	11	3	2,548	9	34	24	59	17	5	2	200
Total II II II II II III IIII IIII IIIII IIIII IIIII IIIII IIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1		14	4	4,059	191	19	46	91	10	10		
BHAGALPUB DIVISION. 13 2,010	7	Darbhanga	14	1	3,135	1	5						
BHAGALPUB DIVISION. 13 2,010													
8 Monghyr 13 2,010 <t< td=""><td></td><td>Total</td><td>52</td><td>17</td><td>14,047</td><td>410</td><td>160</td><td>240</td><td>401</td><td>173</td><td>48</td><td>6</td><td>1</td></t<>		Total	52	17	14,047	410	160	240	401	173	48	6	1
9 Bingslpur 14 3,080		BHAGALPUR DIVISION.	-										120
10 Purnes 17 4,160 <t< td=""><td>8</td><td>Monghyr</td><td>13</td><td></td><td>2,010</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	8	Monghyr	13		2,010								
11 Santal Pargenas 10 10,160 <td>9</td> <td>Bhagalpur</td> <td>14</td> <td></td> <td>3,090</td> <td></td> <td></td> <td></td> <td>***</td> <td></td> <td></td> <td></td> <td></td>	9	Bhagalpur	14		3,090				***				
Total <th< td=""><td></td><td></td><td>17</td><td></td><td>4,160</td><td></td><td>***</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>			17		4,160		***						
CHOTA NAGPUE DIVISION. 21 6.087 <td< td=""><td>u</td><td>Santal Parganas</td><td>10</td><td></td><td>10,160</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	u	Santal Parganas	10		10,160								
12 Hazaribagh 21 6.087		Total	54		20,010								
12 Hazaribagh 21 6.087		CHOTA NAGPUE DIVISION.					-						
18 Ranchi 32 3,838 <t< td=""><td>12</td><td></td><td>21</td><td></td><td>6,087</td><td></td><td></td><td>***</td><td></td><td></td><td></td><td></td><td></td></t<>	12		21		6,087			***					
15 Manbhum 35 4,642 <	18	Ranchi	32		3,838	1							
16 Singhbhum 13 3,013	14	Palamau	10		3,134								
Total 111 20,716			85		4,613								
	16	Singhbhum	13		3,013								
Total for the Province		Total	111		20,714								
100 100 100 100 100 100 100 100 100 100		Total for the Province	270	18	67,87 3	410	160	240	401	176	48	6	10

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X 1-concld.

tricts of Bihar Province, during each month of the year 1986

			0-0			6			7		8	
						Total.		Ratio of	deaths per 1 population.	,000 of	revious	
			1		-						sr 1,000 of pr	N
	Soptember.	October.	Norember.	December.	Male.	Female.	Total.	Male.	Fomale.	Total.	Mean ratio per 1,000 of previous five years.	
											~~~~	
					1	-		0.001		0-0005	0.007	
									-		0-003	
					1		1	0 v003		0.0002	0-005	
5	6	11	36	109	374 66	510	884 146	0'S 00'6	0.4	0·3 00·7	0-4	
			4	29	78	80 131	209	0-05	0.08	0.07	0.4	
					3	2	5	0.001	0.001	01001	0-3	
5	. 7	11	43	140	521	723	1,244	0-1	0.1	0-1	0.3	
-											0-2	
1						***						
						•••						
											0-95	
	-	-			- 36						-	
										•••	•••	
				-								
2												
-												
_												
5	7	11	43	140	522	723	1,245	0.03	0.04	0.04	0.1	

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#### APPENDIX II.

PROVINCIAL.

Statement showing details of registration in areas in which it is compulsory.

			ling to	of births per 1,000 ween the	irths re- year.	per mille	ate per	Number o regis during	of deaths stored the year,	Death-rate	per mille,	resecut- 8. C.) of	ne con-
Compulsory r	egistration are	na.	Population according Census of 1801.	Probable number of births at the rate of 296 per 1,000 married women between the ages of 15 and 40.	Actual number of births 1 gistered during the year.	Probable birth-mateper (columns z and 3).	Registered birth-rate solit during the year.	Including deaths in dispensary.	Ereluding deaths in dispensary.	Including deaths in dispensary.	Excluding desths in dispensary.	Number of persons prosecut- ed under Act IV (B. C.) of 1873.	Number of persons victed.
1			2	3	4	8	6	7	8	9	10	11	13
1. Patna City			150,600	1 (	3,983	h r	18.7	2,308	1,516	14.5	9.5		
3, Bihar			48,994		723	1	15-3	422	363	8.5	5-7		
4. Earh			24,321		200 375		16-4	237	215	9.8	819		
4. Darn			7,412		192		24-5	184	148	18-8	15-2		
6.Gaya			88,005		3,600		19-6	2,851	3,582	32-4	12.7		
7. Tikari			5,491		233		42-3	102	102	18.6	18.6		
8. Daudnagar			11,609	1	461		39-4	181	177	15.5	15-1		
9. Arrah			48,922		518		10-5	205	105	41	2.1	7	
10, Durar			13,449	1	362	1	- 20.9	128	90	919	7.3	-	
11. Dumraon	***		14,421	1 1	219		10.5	51	51	3.2	3-5		
12. Jagdispur			9,661		208		21.3		53	5.2	5.5		-
13. Sasaram			25,175		642		25-5	258	212	9-4	8-9		
14. Bhabua			6,002		191 1,5 <b>7</b> 4		31.8	41	41	6.8	6.8	-	
15. Chapra 16. Revelganj			47,448 8,812		304		61.3	1,014	967 125	21.8	20'4		
17. Siwan			14,215		510		35-8	187	138	14.2	14-2		
18. Bettlah			27,941		1,188		42-5	572	417	20.4	9.7	81	
19. Motihari			17,545		374		21-3	242	145	13.7	8.2		
20, Muzaffarpur			43,049	1 1	1,105	-	25*6	601	473	13-9	11.0		
11. Sitamarhi			10,701	1	343		31-9	\$18	169	20-3	15-8		
22. Hajipur			19,299		783		33-9	415	392	31.2	20'3		
28. Lalganj		-	9,193	1.1	308	i	40*0	150	-70	18-4	18-4		
24. Darbhanga		-	60,676	able	3,216	ble.	37.0	1,264	985	20-8	16-2		
35, Roserah			8,609	111	251	1241	28-3	172	173	19-3	19-3		-
26, Samastipur			9,891	Not available.	261	Not available.	26'3	106	77	10.7	78		
27. Madhubani		-	18,799		591	×	31'0	228	193	19-1	10-3		-
18. Monghyr 19. Jamalpur			53,863 30,346		1,045		34-4	665	532	13.0	19-6		
30. Bhagalpur			83,847		1,831		21.8	478	451	15.7	14.9		-
31. Colgong			5,233		198		37-8	P4	94	17-9	14-7		-
33. Purpes			15,474	1	348		23'1	210	194	187	19-5		
33. Kishanganj			8,946	1 1	138		15-4	63		70	_		
34. Katibar			15,854	1	174		10-9	41	19	3-6	1.8		
35. Forbeeganj	-		5,939	1	155		361	108	108	18-3	18-3		
\$6. Sahibganj	***		15,853	11	121	1	7-6	78	50	40	3.1	-	i
37, Deoghar			14,817	11	101		71	83	38	5-8	3.2	18	
\$8. Damka			9,471	1	90		9-5	32		8-3			
\$9, Madhupur			8,965	1 1	78		87	29	39	4.4	4-3		-
40. Hazaribagh			30,977		453		28-0	174	48	8-3	2-3		1000
41. Chatra			8,758		153		9.8	83	86	10-6	8-9		-
43. Giridih			91,198 50,517	1	478		54	97	78	4-6 5-5	3-7		
44. Lohardaga	-	-	7,577		180		23-7	290	128	30'2	30-3		-
45. Dalionganj			12,040	ii	187	ii	15-5	70	13	5.8	1.0	-	
46. Purulia			35,974		545		21'0	253	127	9-7	4.9		-
47. Raghunathpor 48. Jhaldah		=	7,139	1 1	208 219 329		29°0 33°0 20°1	111 175	104	15.5	15-1 18-0	=	
49. Dhanbad 80. Chaltassa 81. Chakradharput			16,356 10,785 11,191		319 259 174		24-0 15-5	1/5 189 119	19 149 91	30°1 17°4 10°6	1-8	=	1
53. Jugeslai 53. Jamshedpur			8,731 83,738	Ji	269 298	Ji	318	61 443	61 396	679 573	8-1 7-0 4-7		Ξ
			Concession in succession	Sec. 1994									

(a) Excluding eastonment population,

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#### APPENDIX III.

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#### JHARIA MINING AREA.

#### STATISTICS OF EPIDEMIC DISEASES.

#### 1936.

		-		Infla	éoza.	Chol	lera.	Smal	l-pox.	Pla	gue.
	onth,	Total births,	Total deaths.	Cases.	Deaths,	Cases.	Deaths.	Cipes.	Deaths.	Cases.	Deaths
	1	;	3	4	5	6	7	8	9	10	11
January		 161	130	295	1			156	13		-
February	-	 130	173	643	7~			309	20		
March	-	 134	178	454	8	2	1	188	43		-
April		 158	187	499	8	1	1	<b>#19</b>	63		
ilay		 171	163	353	2	10	8	270	44		
··· •aa		 195	107	588	3	6	1	52	8		-
aly		 193	127	1,143	3	1	1	17			
August		 175	166	1,050	2			1	1		
ieptember		 188	165	688	1	4	2	1			-
etober		 165	96	417	3			1			
November		 118	77	200				1		•••	
December	-	 153	82	. 165	1			4			-
	Total	 1,941	1,651	6,622	38	24	14	2,019	191		
tatio per mile		 15-1	12.8	50*8	0'3	0'2	0'1	157	1.2		1

N. B.-The figures relate to the labour population only and the ratios are calculated accordingly.

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15 D. P. H.

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#### APPENDIX IV.

Summary of the activities of the Public Health Circle. Public Works Department relations ing to sanitary improvements to urban and rural areas of Bihar during the calender year 1936.

I. Project.

(a) Forecast.—The following outline schemes were prepared and submitted to the local bodies concerned :—

Re

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								no.	
(i)	Monghyr drainage scheme Madhopur Roads.	for	Lalle	pokha	ır, G	hositola	and	18,900	
( <i>ii</i> )	Bhagalpur drainage scheme Mansoorgange roads.	for	the	stati	on,	Kotwali	and	11,000	
(iii)	Darbhanga water-supply		•••		••			6,65,600	
								5,67,300	
								(alternative)	)
( <i>iv</i> )	SiwanWater-supply							1,33,000	
					Total	L		8.28,500	

(b) Preliminary .- The following schemes were prepared and submitted to the local bodies concerned :--

		Rs.
(i)	Patna-Bankipore water-supply IInd extension. Provision of spill water drains.	28,500
(ii)	Patna sewerage scheme in B. M. Das Road, Lal Behari and Swaranasan lanes.	15,337
(iii)	Bettiah drainage scheme	2,68,500
	Total	8,12,337
(c) Det	ailed—	
		Rs.
(i)	Monghyr drainage scheme for the new town planning area.	69,400
• • •	MonghyrRe-arrangement of the water-supply distribu- tion system in new town planning area.	44,200
(iii)	Monghyr Extension of water-supply to outlying area	65,000
( <i>iv</i> )	MuzaffarpurEarthquake damage repairs to the drains (submitted to the Secretary, Public Works Department).	1,20,831
(v)	Lauthaha Drainage scheme (submitted to Government)	28,175
(vi)	Dumra-Water-supply (do.)	59,600
(vii)	Dumra drainage	13,872
(viii)	SonepurFourth tube well and pumping plant	16,735
(ix)	MotihariEarthquake damage repairs to the drains	77,827
	Total	4,95,640

#### Construction-

(a) Bhabua.—About 3,200 r.ft. of drains were constructed. Further progress was not possible due to delay on the part of the municipality in obtaining possession of land for the outfall.

(b) Bhagalpur.—Two overhead tanks, staff quarters and re-arrangement of the distribution system of the waterworks were completed and work on a new intake and filteration plant was in progress.

(c) Bihar.—The boring for the 5" tube-well in connection with the drain flushing scheme was completed.

(d) Daltonganj .- (i) The water-supply re-organisation scheme was completed.

(ii) Supplementary water-supply scheme. — Two old boilers and one high lift pump were replaced and are in use, also one low lift pump was installed. Three settling tanks with pipe connection were completed except for arrangements for addition of coagulants.

(iii) Flood protection works for the intake were completed.

(e) Deoghar.-10' diameter surface well in the pilgrim camping ground was excavated to a depth of 45 feet below G. L. but could not be completed during the year due to the large quantities of water and to the very hard rock strata met which necessitated blasting.

(f) Lauthaha.—(i) Water-supply one tube well with pumping plant and the distribution system were completed and a supply given from October 1936. Works on the construction of the 2nd tube-well and the service reservoir was in progress.

(ii) Drainage.—Work was in progress and was completed in three out of the four blocks into which it is divided.

(g) Monghyr.—Water-supply re-organisation. The installation of unfiltered pumping plant on pontoons at Kastharinighat was completed and the work of installing filtered water pumping sets was in progress.

(h) Patna.

(i) Drainage .- The sewering portion of the scheme was practically completed.

Construction of the outfall works is in progress. Contracts were accepted for the purification and pumping plants.

(ii) Water-supply .- The new 9" tube-well at Amlatola was completed.

(iii) Extensions of water mains in various lanes in the town were completed with the necessary standposts for use of the public.

(i) Sonepur.-A fourth 5" diameter tube-well was completed in time for use during the mela in November.

(j) Small tube-well with hand pumps were constructed in Lalganj, Katihar, Forbesganj and a supply of water provided for the melas at Bargaon, Angari, Bihta, Sonepur and Phulwari.

(k) Borehole latrine.—One was constructed in the Patna Administration Committee area.

(1) The municipalities of Arrah, Bhagalpur, Daltonganj, Gaya, Monghyr and Muzaffarpur were assisted in the maintenance of the public water-supply and no failure of a municipal water-supply occurred during the year.

(m) The Patna-Bankipore water-supply was maintained in a state of efficiency on behalf of the Joint Waterworks Committee.

#### E. R. SMITH,

Offg. Superintending Engineer, Public Health Circle, Bihar.

#### APPEN-

Table showing health services in Rural and Urban areas

								Rural areas,				0.00	
	course in	I Rold		Mad	licatoffice	ers of Hes	an».		Sector 1	Vac is	nators,	1.00	
	District B	loard.		Hol D. P	ding . H.	Licent L. M	tiates . P.	Epidemie staff,	Sonitary and Health Inspectors.	Male,	Female.	Schoel Medical officers,	Other Health
				Whole time.	Part time,	Whole time,	Fart time,			anne.	Pemalo,		
	1	in the		2	3	•	8	8	7	8		10	11
	NO. 1940	1 10	in hereit	Sara Co	1.00				-			in the second second	
										in a			
						and a second		Print and	anna an trì				1
Patna				1					15	89		)	83
						- ide		-	-	The second			
									adaptic a				-
									an man			a chord	
Gaya				1		4		25		95			24
						Osten		in the second second	in all a	in and	10 5 (1)		
				-sgad	.094	(and)				1.111		Bararia e	1
Shahabad				1			:	5	5	122			
					on Made	1 10					10.00	S. Simo	
Patna Div	ision											2	
Saran				1				9	3	88		The second	
									2	80			
Champaran	n			1					10	85			2
Muzaffarp	ur			1		1		19	4	79			
								İ					
Darbhang	a			1		3		2					
								2	11	95			
Tirhut Di	vision											2	

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### DIX.

### of Bihar Province during the year 1936.

				τ	leban are							-
	-	Medical	officers	of Health,			-	Vacela	nators.			
Municipalities.		Holdin D. P. H	g 	Lices (L, P.	tiates H. S.)	and 1	iltary lealth octors.			Inspector of	School. Medical	Other Health
		Whole time.	Part time,	Whole time,	Part time.			Male.	Female,	vaccination.	Officers,	staff.
13		13	14	15	16		17	18	19	20	21	23
C Patna City		1					5	7				8
Patna Administration Com	mittee		1				3	2				
Bihar							1	1				2
Jinspur Nizamat	•••						1	1				7
Dinapur Cantonment		1-R. A. M.C.					1	1				
Barh							1	1				
Khagole							1	1				
( Gaya		1				1	3	2				10
Tikari								1				
Daudnagar								1				
f Arrah							2	2				
Buxar							1	1				
Dumraon							1	1				
Jagdishpur								1				
Sasarām							1	1				
Bhabus							1	1				
		-				1						
Chapra							1	3				
Kevelganj							1	1				
Siwan								1				
{ Bettiah							1	1				
( Motihari							1	1				
Muzaffarpur				1			2	2				
Sitamarhi												
Hajipur							1	1				
L Lalganj								1				
Darbhanga		1					2	2				
Roserah							1	1				
Samastipur							1	1				
Madhubani							1	1				

15 D. P. H.

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#### APPEN

Table showing health services in Rural and Urban areas

						Ruri	al areas.					
		1	Med	ical offici	trs of Hes	alth.			Vacel	nators,		1
District I	Board.		Hold D. P	ling , H.	Licen	tlates d. P.	Epidemie staff,	Sanitary and Health Inspectors,			School Medi- cal officers,	Other Healt
			Whole time,	Part time,	Whole time,	Part time.	stan,	Luspectors,	Male.	Female.	car outers,	FLEE.
1			2	3	4	5	6	7	8	9	10	n
Monghyr							8	3	14			69
Bhagalpur			1				24	· 4	65			2
												and all
urnea			1				38	17	106		1	1
antal Parganas							2		14	1		
hagalpur Division											2	
Iszaribagh							3	.1	50			8
												and a state of the
Ranchi									8			
alamau							3		26			
lanbhum			1				5	2	42			
							1					Produces -
(			-									A Tomatic
inghbhum							-		2			to mill (angled
Chota Nagpur Divisi	on										2	

### DIX V.

## of Bihar Province during the year 1936-concld.

			Med	ical office	rs of Hea	lth.		Freed	nators.			
Manie	ipalities.		Hol	ding P.H.	1	tiates H. S.)	Sanitary and Health		Lors,	Inspector	School Medicul	Other
			Whole time,	Part time.	Whole tkme.	J'art titre.	inspectors.	Male,	Female.	of Vaccination,	officers,	Health staff,
	12		13	14	15	16	17	18	19	50	\$1	23
Monghyr							1	2		2		1
Jamalpur			1				2	1		\$ 1		
Bhagalpur			1				3	3		1		
Colgong								1				
Purnea							1	1				
Kishanganj							1	1				
Katibar							1	1				
Forbesganj								1				
Sabebganj		•.•					1	1		7		
Deoghar							1	2		} 1		
Dumka								1		1		
Madhupur						••• -	1	1		J		
	,											
Hazaribagh							1	1		1 1		
Chatra								1		} 1		
Giridih							1	1		;		
Ranchi						1.000	3	2				
Lohardaga			1					1		{ 1		
altonganj							- 1	1		1		
arcongang												
Purulia							1	1				
Raghunathpur								1		1		
Ibalda							1	1				
Dhanbad							2				-	
Chaibassa								1				
Chakradharpur								1		1		
Jugalai							1	2		j		
Jamshedpur No	tified Area		1				37	3	2	1		

## APPENDIX VI.

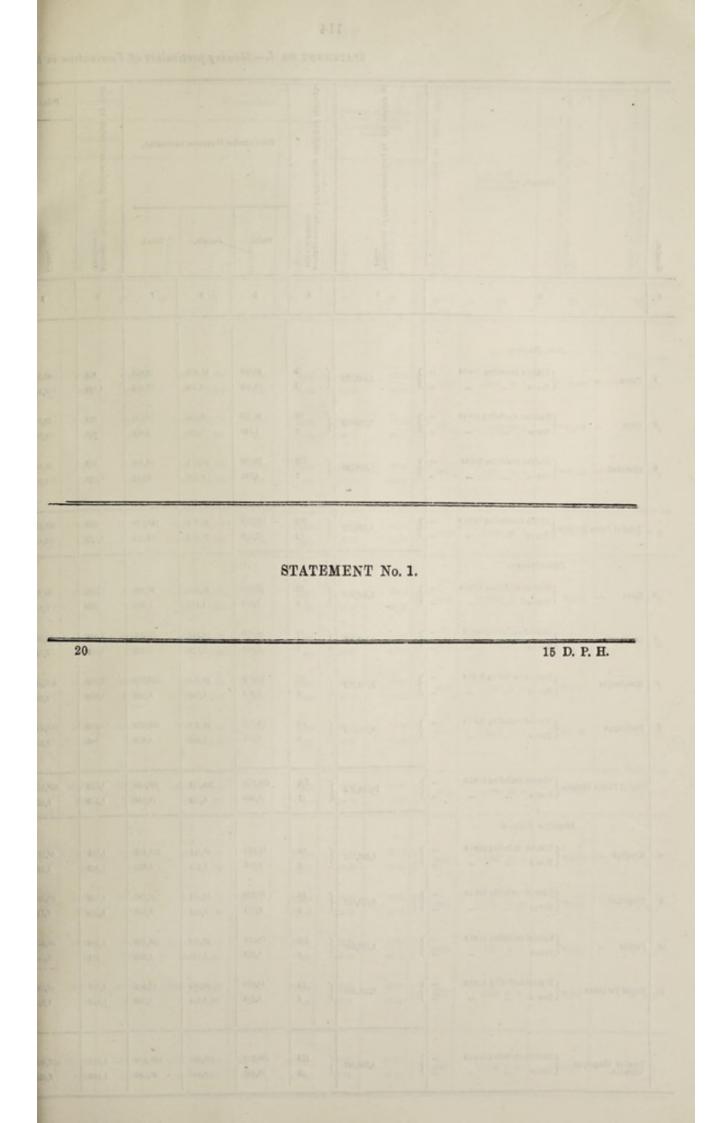
Table showing maternity and o	child welfare centres, health	visitors and	trained	midwives	in r	rural	and
	urban areas in Bihar di						

					Mai	ternity an	nd child	welfare.				-	
		Cent	tres main	tained by	r								
District.	Govern	ment.	Local an cipal b	d muni- odies.	Oth		Trai visit		Trai mide	ned vives.	Trai da		Remarks,
	Rural.	Urban.	Bural.	Urban.	Bural.	Urban.	Rural.	Urban.	Rural.	Urban.	Rural.	Urban.	-
1	2	3	6	5	6	7	8	9	10	u	12	13	14
tna	 	6(a)		. 1(a)		3		4(b)		7		- 8	
uzaffarpur	 					1		1					(a) Midwife
arbhanga	 			1(a)						1			circles. (b) Includi
onghyr	 					1		1				1	one Matern Nuper v i s
anbhum	 			1(a)	4				4	2			entertained Government
anchi	 			1(a)		1		1		2			
Total	 	6		4		6		7	4	12		4	im

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## 112



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

	District,		Population of district according to the census of 1991.	Average number of vaccinators employed through- out the season.	Total numl	ver of persons v	accinated.	Avarage number of persons vaccinated by each vaccinator.	Primary;
Number.			Population of 1961.	Average numb out the seaso	Male.	Female.	Total.	Average numi vaceinator.	Total.
1	1		•	4	5	6	7	8	9
1	Patna Division. Patna	1 1	3,840,474	{ 89 [ 13	40,359	31,e79 6,464	72,238	812 1,343	60,580 7,101
,	Gaya District excluding towns Towns		3,358,463	{ 95 4	48,245 1,945	38,833 1,390	87,077 3,345	916 836	73,960
•	Shahabad		} 1,003,489	{ 123 7	38,630 4,701	29,074 2,616	66,704 7,317	547 1,045	63,673 8,085
	Total of Patna Division { District excluding towns		6,238,425	{ 306 24	127,234 17,645	98,785 10,479	226,019 2 8,124	739 1,178	180,913 14,599
	Tirlat Division.		LENT No. 1.	ATES	12	1			
	Saran	-	} 2,495,459	{ 88 5	52,864 1,678	40,338 1,113	93,193 2,791	1,669 558	78,600 1,568
ł	Champaran {District excluding towns		} 2,145,667	{             78             2	44,007	35,284 1,125	79,381 3,938	1,018 1,460	00,382 1,340
6	Musaffarpur {District excluding towns		} 2,041,025	{ 39 5	83,638 · 4,034	65,681 3,347	149,319 8,281	3,899 1,656	109,528 2,509
,	Darbhanga {District excluding towns	1 1	3,100,094	{ 66 5	7 <b>3</b> ,116 3,035	57,423 1,803	129,530 4,638	1,349 967	104,641 2,519
	Total of Tirbat Division {     District excluding towns     Towns		} 10,739,274	{ 301 17	242,715 11,450	198,716 7,388	453,431 18,848	1,500 7,109	359,549 8,098
	Blagalgur Division.								
•	Monghyr		} 2,287,154	{ es 8	78,019 3,081	45,451 1,955	123,491 4,336	7,791 1,665	56,973 1,261
•	Bhagalpur		} 2,234,633	{ 34 4	88,329 6,073	56,454 2,840	143,783 8,918	6,199 9,229	65,459 3,713
10	Parnes		3,186,543	{ 106 4	78,981 1,774	47,658 3,110	128,687 2,884	1,194 721	68,679 1,686
11	Santal Parganas {District excluding towns Towns		} 9,061,472	{ 73 4	42,450 2,514	30,094 1,644	73,544 4,158	1,007 1,039	46,161 ),879
	Total of Bhagalpur { Division		8,759,501	{ 274 15	286,720 13,447	179,085 6,649	665,405 30,296	1,700 1,353	227,403 7,430

## strets of Usian and Orissa during the year 1936-37.

main	Vacei	nation.		Re	vaccinatio	m.	Jul case	ge of success- s in which sults were	of popu-		and re- tion staff	eases performed
	Succe	soful.					k	nown.	1 per 1,000		e vacelna	
Under one year.	One year and under six years.	Total of all ages.	Unknown.	Total.	Successful,	Unknown.	Primary.	Revactination.	Persons successfully vaccinated per 1,000 of lation.	Total cost of Vaccination Department,	Number of all successful vaccinations and vaccinations performed by the vaccination only.	Average cost of each successful by the vaccination staff.
10	11	13	13	14	15	16	17	18	19	20	21	22
1,820 3,017	11,773 4,131	60,258 6,171	71 420	11,854 10,861	4,084 3,808	3,748 2,601	99-91 92-36	87-75 49-07	\$ 40'82	Re. s. p.	75,309	Rs. a. p. 0 0 7
13,969 1,877	50,412 793	72,275 3,077	1,341 3	13,117 642	5,614 293	5,643 54	90°53 99°15	75-79 49-66	} 34'18	1,451 15 6	81,627	0 0 4
15,371 1,794	27,697 1,562	54,059 5,051	503 45	11,131 9,992	7,209	1,015 587	98-73 100-00	71-26	} 04:94	925 0 0	¢8,454	0 0 3
3^,679 F,568	95,583 6,495	197,203 13,699	1,615 467	36,106 13,225	17,407 8,154	10,605 5,212	99- <b>4</b> 3 96-30	65-26 51-47	} 36.10	5,424 15 6	225,460	005
11,300 773	\$8,930 739	76,787 1,531	1,145	14,693	4,714 861	4,312 247	99°14 96°48	45°85 87°49	} 23-77	1,680 8 9	87,959	0 0 4
11,958 650	53,303 757	65,245 1,311	328 6	19,999 1,598	4,169 791	4.381 354	98-77 98-27	48-37 63-58	} 33-61	659 15 3	72,131	005
20,083 452	88,690 2,083	100,197 3,563	235	39,393 5,682	15,178 3,324	10,860 2,733	99755 98788	53°47 44°88	} 43.76	2,963 2 3	128,704	004
17,490 038	98,714 1,947	104,209 2,486	103 5	24,898	9,103 673	8,924 857	90°76 98'88	56-98 38-19	} 36-90	1,311 2 3	117,123	005
60,831 2,413	236,703 5,426	355,198 7,891	1,814 31	91,852 10,832	33,164 3,349	28,477 3,890	99°17 98°70	52-30 45-31	} 37.42	6,604 13 6	401,917	0 0 8
13,983 556	42,787 655	56,828 1,213	8	64,518 3,075	1,224	63,234 1,375	9978 96-27	37'11 19'41	} 26-08	4,847 12 0	59,603	013.
32,204 916	33,671 9,727	65,170 3,707	97 6	77,294 5,205	30,921 2,036	21,193 3,102	99-06 100-00	69-91 49-35	\$ 50"30	6,473 14 0	112,403	008
17,751 358-	83,410 65 <b>3</b>	53,493 1,000	8,190 14	67,909 1,800	8,159 712	65,003 409	96-28 83-46	15°63 51°18	} 29-05	5,450 4 6	63,525	014
31,737 673	23,417 609	44,270 1,265	1,456 61	26,283 2,786	1,741 743	23,225 845	95'80 96'49	56-93 38-12	} 24-25	8,895 8 6	49,747	0 2 10
55,735 2,383	131,755	219,700 7,185	4,681 83	238,003 12,996	50,345 3,818	163,145 3,721	98°67 97'78	67°25 61°79	} 33-67	23,674 7 0	186,277	0 1 4

Image: Second
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         1         5         4         5         6         7         8           12         Haaxibagh         -         District excluding towns         1,517,857         4         50,463         20,417         54,065         1,229           13         Banchi         -         District excluding towns         1,567,169         4         50,453         20,455         53,151         1,108           14         Palaman         -         District excluding towns         3         1,567,169         4         50,453         20,453         1,611           14         Palaman         -         Oistrict excluding towns          3         1,513,453         33,540         1,011           14         50         55         10,507         1,457         1,457         1,457           13         Manbhum         -         Distriet excluding
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         1         5         4         5         6         7         8           12         Haaxibagh         -         District excluding towns         1,517,857         4         50,463         20,417         54,065         1,229           13         Banchi         -         District excluding towns         1,567,169         4         50,453         20,455         53,151         1,108           14         Palaman         -         District excluding towns         3         1,567,169         4         50,453         20,453         1,611           14         Palaman         -         Oistrict excluding towns          3         1,513,453         33,540         1,011           14         50         55         10,507         1,457         1,457         1,457           13         Manbhum         -         Distriet excluding
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         1         5         4         5         6         7         8           12         Haaxibagh         -         District excluding towns         1,517,857         4         50,463         20,417         54,065         1,229           13         Banchi         -         District excluding towns         1,567,169         4         50,453         20,455         53,151         1,108           14         Palaman         -         District excluding towns         3         1,567,169         4         50,453         20,453         1,611           14         Palaman         -         Oistrict excluding towns          3         1,513,453         33,540         1,011           14         50         55         10,507         1,457         1,457         1,457           13         Manbhum         -         Distriet excluding
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         1         5         4         5         6         7         8           12         Haaxibagh         -         District excluding towns         1,517,857         4         50,463         20,417         54,065         1,229           13         Banchi         -         District excluding towns         1,567,169         4         50,453         20,455         53,151         1,108           14         Palaman         -         District excluding towns         3         1,567,169         4         50,453         20,453         1,611           14         Palaman         -         Oistrict excluding towns          3         1,513,453         33,540         1,011           14         50         55         10,507         1,457         1,457         1,457           13         Manbhum         -         Distriet excluding
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         1         5         4         5         6         7         8           12         Haaxibagh         -         District excluding towns         1,517,857         4         50,463         20,417         54,065         1,229           13         Banchi         -         District excluding towns         1,567,169         4         50,453         20,455         53,151         1,108           14         Palaman         -         District excluding towns         3         1,567,169         4         50,453         20,453         1,611           14         Palaman         -         Oistrict excluding towns          3         1,513,453         33,540         1,011           14         50         55         10,507         1,457         1,457         1,457           13         Manbhum         -         Distriet excluding
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         2         3         4         5         6         7         8           1         22         Haaribagh         {District excluding towns         1,517,857         {44         50,453         23,817         54,965         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,453         23,817         54,968         1,229           13         Ranchi          {District excluding towns          1,517,857         {45         50,813         23,819         1,011           14         Palaman          District excluding towns <t< th=""></t<>
1     2     3     4     5     6     7     8       Choice Naggur Division.       12     Hazzibagh
Choice Nappur Division.         12       Hasaribagh
12       Hamribagh       = {District excluding towns
12       Hamribagh       = {District excluding towns
12       Haaribagh         1,517,857       2       3       1,503       957       2,509       84,988       1,239         13       Banchi             3       1,502       957       2,509       84,988       1,239         13       Banchi </td
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Imment
14       Palaman <t< td=""></t<>
14       Palansau
15       Manbhum
135       Manbhum
16       Crowns
16       Singhbhum
Total of Chota Nagper       District excluding towns                                                                                                             <
Total of Choia Nagpur       District excluding towns          Total of Choia Nagpur       District excluding towns          Total of Vaceine De-       District excluding towns          Total            Total            Total            Total            Total            Total            Total            Total            Total         .
Total of Vacelne De- partment.
Total of Vacelne De- partment.
Division.     Course respect     Towns         Division.     Towns         Total of Vaceine De- partment.     District excluding towns        Total of Vaceine De- Total     District excluding towns        Total of Vaceine De- Total     District excluding towns        Total of Vaceine De- Total     District excluding towns        Total         Total
Total of Vacelne De- partment.         District excluding towns            32,871,434         1,109         830.665         594,987         1,415,653         1,576         9           1,157         94,957         04.055         135,297         1,734         1,557         94,957         1,615,053         1,734
Total of Vacelne De- partment, Total
Total of Vacelne De- partment, Total
Total of Vacelne De- partment, Total
partment. (Total
Jails
Castanana 27,982 706 28,598
Cantoo ments 195 187 381
Total of dispensary staff
Total of private medical practitioners
Total of Bailway Dispensary
Cooly Depot 1,058 809 1.867
Total of Colliery
······································
Grand Total 1,365 905,-03 65 \.341 1,586,143 95
····· ···· ···· ···· ···· ···· ··· ···

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STATEMENT NO. I .- Showing particulars of Vaccination in t

## tricts of Buhar during the year 1936-37-concld.

inatio	a. Success	ful.		Re-m	accination.		Percentage ful cases the resu kno	of success- in which lits were wn.	1,000 of popu-		s and revacel-	es performed
Under que year.	One year and under six years.	Total of all ages.	Unknowu,	Total.	Successful,	Unknown.	Primary.	Revaceination.	Persons successfully vaccinated per 1,000 lation.	Total costs of Vaccination Department.	Number of all successful vaceinations and revacel- nations performed by the vaccination staff only.	Average cost of each successful cases performed by the vacchation staff.
0	n	19	13	14	15	16	17	18	19	20	21	22
										Rs. a. p.		Rs. s. p.
6,828 589	21,807	\$8,983 1,290	14 59	15,569	8,780 365	7,041	99-70 98-09	e7-77 50'00	\$ 31.51	6,354 13 0	47,831	015
,681	8.404	37,158	63	15,929	9,915	2,337	99-89	72-95	} 31-93	5.871 15 10		
,270	471 7,593	1,905	336 408	5,897 13,261	3,494 6,577	1,639 3,417	100-00	58°57 68°20	5	00074 10 10	\$2,081	0 1 10
228	243	547		890	419	119	100-00	51.05	\$ \$3.72	3,267 15 6	20,785	0 8 0
,519 393	38,883	46,997	893 46	51,238 4,408	24,129 1,727	13,513	99'15 97'34	62-32	} 41.53	0,801 4 3	75,183	0 1 1
,497	6,100	18,459	236	16,803	8,988	3,183	99-02	. 77-35	} 38-50	5,381 1 9	85,902	016
,883	1,389	3,550	1,043	41,491	4,609	11,021	84-23	18-77	,			
,963 ,861	74,993 4,078	159,511 8,916	1,613 1,483	110,789 56,941	85,359 9,614	28,890	99'45 93'63	68'30 18'17	} 36.77	23,377 1 6	237,672	0 1 7
1,088	518,826	921,971	9,723	.476,790	156,305	230,917	99-25	63.57	1			
1,744	20,603	37,691	2,063	93,654	31,935	24,855	90.13	31.79	35'58	59,091 4 4	1,150,318	0 0 1
,832	\$59,519	959,983	11,783	570,631	178,249	255,773	P9-10	64-61	,			
6	6	540	115	27,296	9,327	6,735	66-91	45-36		-		
250	81	331	2	33	11	4	95-11	39-30	-			
-											·	
87	89	340	18	810	175	206	98-36	82-17				
153	93	402	64	1,401	7	1,378	100.00	30'43				
139	364	745	349	2,235	436	87	63-08	20'30				
,456	560,143	963,120	19,224	602,408	189,196	264,243	99-03	\$5.65	85-18	59,081 4 4	1,150,316	0 0 10

## SUMMARY.

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	Total nn persons v	mber of socinated.	Total nur operati perform	ODS	Percent successfu in which ti were kr	he results	Average no persons va by each v for.	scinated	childre	aber of n success- ocinated.			
	Primary.	Reraceination.	Primary.	Revaceination.	Prinoary.	Revacefnation.	Vaceinatora employed.	Persons vaccinated by each vaccinator.	Under one year.	One and under 6 years.	Ratio of success- ful vaccina- tions per 1,000 of popula- tion,	Total cost of Vaccination Department.	Avera cost each cas
1	2	3	•	5	6	7	8	Ð	10	11	12	13	14
BY SPECIAL STAFF.												Re. a. p.	Rs. s.
Statement (f)	960,315	570,634	987,315	570,634	\$9-10	85-61	1,167	1,907	<b>97</b> 7,832	850,519	]	1 11	100
BY OTHER AGENCIES.		11 11 14 14 14 14 14 14 14 14 14 14 14 1									35-53	59,051 6 6	0
Collieries, Dispensaries and Leger Asylum. Cooly Dep04, Jalls and Cantonments.	3,430	31,774	3,420	31,774	76-72	43-73	-		634	623	]	12.2	22
Total	963,735	60*,408	963,735	602,408	99103	86.62	1,187	1,307	273,406	\$60,143	80-83	59,081 4 4	0

15 I. P. M.

						Yes	178.				
Establishmen	ats,	1927-28.	1928-29,	1929-50,	1930-31,	1931-32,	1992-83,	1933-84.	1934-35.	1985-36.	1936-87.
1		,	3	•	5	6	7	8	0	10	п
jøvernment staff		 25.40	:4'13	7:36	9-56	9199		6.02	6-23	17-3	
Dispensaries		 29-76		14:75	9-45	75'00	14 08	58'30	24-93	48-21	24'4
funicipal		 62'74	73.47	71.71	64.03	67.18	\$7.88	99-92	33-07	22.27	301
District Board		 63-10	60'14	67-12	7070	64'30	38-61	17-94	43-69	61-90	68-
deensed vaccinators	-	 93-21	97-00	97.59	92.75	97-29	90.97	84-19	70'93		
tails and collicrics		 29-82	34-22	35-25	34-23	2878	21.47	9:04	8-97	11-12	39.
alls		 1.00	1.40	1.34	1.11	0.78	2-20	0.80	1-33	4.86	8.
ooly Deröt		 1.56	231	0.21	0.42	1'43	5*29	5-07	3.09	11-17	24
antonment		 30'49		93'48	69-21	94'03	63-81	73-73	60-81	30.06	91

.

Comparative statement no. 11.—Showing the percentage of persons primorily vaccinated to the total number of vaccinations performed in the Province of Bihar in each of the undermentioned official years.

					1	т	otal numb	er inspected -	•			Per	centage (
		Total number sons vuoi		By Assist or St	ant Direct	ors of Public at of Vaccin	e Health ation.	By Nati	ve Superin Inspecting	tendents or o	other	By Assist. or Supe	ant Direc rintender
District.				Assistant of Public	Oirectors Health.	Soperinten vaceanat		District In and Health tors.		Bub-Insp	ectors,	Assistant of Public	Director Health,
		Frimary.	Re-rascination.	Primary.	Re-racelaation.	Primary.	Re-rsecination.	Primary.	RevaceInstion.	Primary.	Re-racelnation.	Primary.	Re-raceination.
1		2		•	5	6	7	8		1)	11	13	13
Palas		67,958	33,693	2,783	2,211	3,403		11,951				6'09	9-31
iaya		76,663	14,796	4,154	1,533	1,603	1,201	5,474				5'43	17-11
bahabad		60,728	18,671	3,984	1,123	2,570	103	4,481	693			4.91	6-04
ITATI		80,168	16,514	1,478	479	504	241	9,049	143			1.84	2.0
hamperan		67,722	15,961	740	205	3,459	1,381	40,378	8,434			1.08	1.8
uraffarpur		112,825	48,649	4,779	3,752	12,802	***	38,712	349			4'24	8.0
arbhanga		107,915	27,736	401	1,013	2,331	13	40,163	49			0-37	3-6
tonghyr	•••	58,234	69,593			1,158		7,804		14,918	30		
hegalpur		69,212	87,206	7	1,064	7,540	3,997	20,045	15,666	***		0.01	1.3
uruea		59,763	70,397			2,311	4,176	11,859	2,107	31,381	8,715		
antal Parçanas		47,803	84,275	3,457	141	1,119		0,663	56	14,154	1,850	7.23	***
azaribagh	**	41.324	21,337 23,803	2,793		1,201	1	3,131	3	6,007	75	675	
anchi		39,523	15,495	1,969		51	809	7,636	235	17,587	781	4.98	-
alamau	***	19,923	67,163	3,594	1,440	808	15	2,971		3,357	198	13'02	91
lnghbhum		24,094	69,011	1,004		1,756 553	1,935	16,078 717	7,116	2,833 2,503	875 504	8° 83 4'17	
Total		953,735	602,408	80,811	13,806	43,309	13,739	326,001	29,840	82,313	12,708	3-13	22

## STATEMENT NO. III .--- Showing particulars of vaccination

Inspection t	o total nur	mber vacel	nated.			P	precutage o	l cases four	nd successf	ul to total	number in	spected.			
tors of Pub of Vaccinat		By Nat	ive Superin Inspectin	itendents o g Officers.	rother	By Assista or Supe	nt Directo rintendent	es of Publi of Vaccius	e Health tice.	By Nativ	e Superint sepecting	endents o Officers.	er other	success repo	ntage of sful case orted inater.
Superinter Vscejn	adent of atten.	Distr Inspec an Health In	tors	Sub-Ins	pectors.	Assistant I of Public	Directors Health.		tendent of sation.			Sub-Is	spectors.		
Primary.	Re-vaceination.	Primary.	Re-vacination.	Primary.	Re-vaccination.	Primary.	Re-vaceination.	Primary.	Re-raccination.	Primary.	Re-vaceination.	Primary.	Re-racoination.	Primary.	Bo-vaptination.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
5.01 2.09 4.23 0.70 5.15 11.46 2.17 1.98 10.89 5.96 0.13 4.36 3.50 2.10	 8-13 9-85 1-46 8-06  4-87 5-95  0-004 3-56 0-09 3-16 0-003	17-57 7-94 7-38 11-29 50-42 14-40 37-20 13-40 28-96 19-89 13-70 8-18 19-29 14-91 32-19 2-97	 373 0'86 21'49 0'75 0'18  17'96 2'19 0'18 0'18 0'16 0'99  12'45	   25%1  35%5 14%5 14%5 16%6 4%6 10%39		90.80 94.10 93.88	 06155 99/02 99/38 11/0/00  96 57         	0.25 160.00 96-23 96-45 99-46 99-46 99-28 100.00 97-54 99-25 69-16 100.00 \$9-04 99:17 \$9-43	 100'00  18 25 44'44  69 23  (2'31 5'21  100'00 32'68 (8'0 53'50 100'00	15'80 90'87 89'49 95'22 99'85 99'14 99'25 100'00 75'01 99'25 99'54 96'55 87'31	 43-72 97-18 33-25 41-88 33-26 41-88 33-25 52-38 33-09 19-64  58-18  58-18 			98:30 99:05 97:50 97:50 97:83 99:20 99:31 09:65 99:57 91:01 95:59 77:83 99:73 99:720 99:20 99:20 99:20 99:20	38'40 53'51 42'55 33'30 47'14 30'50 35'67 2'24 50'74 13'52 11'57 54'67 62'54 49'29 44'64 92'98
6-40	2-28	23-97	4.35	8'37	2*11		42-90	92.42	43'84	01°81	50.75	96-92	26.21	96-38	40.09

## verified by Inspecting Officers during the year 1986-37.

22

15 D. P. H.

			192	7-28.	193	8-29.	1920	<b>~3</b> 0.	1	930-31.
D	utriot.	-	Ratio of deaths from small-pox.	Ratio of successful vaccina- tion per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccina- tion per mille of population.	Ratio of douths from small-pox.	Ratio of successful vaccina- tion per mile of population.	Ratio of deaths from small-pox.	Ratio of successful vactua- tion per mille of population.
	1		3	3	4	5	6	7		9
Patna			1.07	45-78	0.49	33-32	0.40	28-34	0.23	25.86
Jaya			1.21	25.92	0.30	27.20	0.27	30-24	0.29	30-79
hahabad			1.60	31.61	0.37	24.90	0.16	23.68	0.32	23.65
aran			0.75	36 49	0.18	36.99	0.19	41-23	0.17	33-68
hamparan			0.34	23-24	0.07	23.84	0.10	24.51	0.06	20.98
luzaffarpur			0.26	37 26	0.18	35.52	0-25	36.18	0-06	34.63
arbhanga			0.34	39-22	0.16	36-36	0-12	37.63	0.18	35.24
fonghyr			0.93	36.65	0.53	38-29	0.42	35.86	0.42	30.35
Bhagalpur			1.13	40.63	0.45	38-32	0.16	35 17	0.08	34-53
urnes			0-95	25.03	0-65	23.77	0-18	22.20	0.08	21.38
iantal Pargana	84		1.06	36.28	0-46	34-28	0-20	31-32	0.36	34-28
Iavaribagh			0.73	38.77	0.30	38.74	0.12	35-92	0.13	36.81
lanchi			0.39	43.34	0.24	40.73	0.08	40.80	0.04	55-24
Palamau			1.01	30-57	1.35	30.66	0 95	30.67	0.13	33-58
fanbhum			0.12	45.66	0.06	38.21	0*05	35.79	0.13	38-93
inghbhum			0.13	28-59	0.12	27.58	0.11	29.46	0.327	35-62
	Total		0-78	35.41	0.40	32.25	6.21	32.80	6-21	32-20

STATEMENT NO. IF .-- Showing rule by side the ratios per mille of population of

1	931-32.	1983	1-33,	1933	1-34,	193	4-35,	1985-	34.	1936	-87.
Ratio of deaths from modi-por.	Batio of accessful recella- tion per mille of population.	Ratio of deaths from small-por.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-pox.	Batio of successful vacchation per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vacination per mille of population.	Ratio of deaths from small-por.	Eatio of successful vacination per mille of population.	Ratio of deaths from small-pox.	Ratio of seccessful vaccing- tion per mills of population.
10	11	12	13	14	15	16	17	18	19	20	21
0.30 0.29 0.53 0.34 0.12 0.06 0.12 0.06 0.17 0.16 0.07 0.05 0.25 0.10	26-19 25-96 25-31 52-43 20-44 31-32 32-47 28-85 34-15 19-67 30-05 23-06	C-68 1-15 1-20 1-29 0-85 0-37 0-37 0-44 0-37 0-41 0-24 0-27 0-27	41-13 41-84 29-36 39-63 27-41 37-23 37-23 37-29 32-96 37-20 24-55 38-04 34-05	1.06 1.44 0.33	35-65 37-20 26-07 47-99 31-13 49-18 34-29 31-44 47-24 36-64 30-22 38-83	0.26 0.70 0.51 2.55 0.57	41.63 30.12 20.97 23.31 32.33 50.36 41.66 30.25 41.56 41.30 28.10 28.10 28.10	0.57 1.34 0.19 0.29 0.29 0.029 0.029 0.034 0.034 0.091 0.091 0.216 0.074	52-04 \$5-75 29-97 28-32 37-96 47-32 41-93 25-53 61-72 38-87 27-03 31-71	0-42 0-69 1-08 0-48 0-11 0-09 0-24 0-79 0-48 1-43 1-09 0-97	40-82 34-18 34-34 33-77 33-61 43-76 36-99 26-06 50-30 29-05 24-25
0-10 0-05 0-23 0-05 0-14 0-18	35-04 37-35 30-53 25-28	0.46 0.31 0.02 	34.05 49.73 23.06 32.57 22.71 34.67	0.41 0.51 0.16 0.39	38-83 36-98 28-68 35-58 37-41 37-24	5 0·10 0·54 0·18 1 0·59	34-11 34-03 33-03 35-83 35-24 35-24 35-5	7 0.03 7 0.72 3 0.41 9 0.62	31-71 30-94 31-87 44-66 58-38 39-23	0.27 0.05 0.89 0.53 0.80 0.56	31-51 31-32 32-72 41-52 38-50 

deaths from small-pox and the ratios of successful vaccinations per mille of population during the ten years ending 1986-37.

9 DPH

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31

			1		1	1	1	
	District,		Towns,		Number of births dur- ing the year ending 31st March 1937,	Number of deaths amongst infants under one year during the year ending 31st March 1937.	Number of successin vaccinations amongst infants under one year during the year ending 31st March 1907.	Date of extension of Vacet- nation Act to town,
	1		2		3	6	5	6
			Patna		3,418	489	1,200	1st October 1884.
		-	Bihar		722	90	406	lst April 1887.
Patna			Dinapur		684	114	4.44	28th January 1891.
			Barh		378	42	74	lst April 1887.
		i	Khagole		176	84	48	lżth July 1910.
			Total		5,378	819	2,167	
		(	Gaya		2,725	786	1,545	lst January 1883.
Gaya		{	Tikari		238	37	291	Srd January 1891.
		(	Daudnagar		469	65	228	Ditto,
			Total		3,432	\$35	2,084	
		ſ	Arrah		551	. 46	889	20th July 1885.
			Buxar		355	40	143	lst April 1887.
Shahaba	A	J	Dumraon		213	14	87	Ditto.
	(24)		Jagadispur		201	11	103	20th December 1890.
		1.000	Sassaram		621	44	517	lst April 1887.
		l	Bhabhua		181	9	55	Ditto.
			Total		2,152	164	1,794	
				1				
			Total of Patns sion.	Divi-	10,962	1,821	6,0?5	
		٢	Chapra		1,406	205	161	lst April 1887.
Saran		{	Revelganj		831	49		12th December 1890.
		l	Siwan		451	57		lst April 1887.
			Total	-	2,188	311	778	
Champar		5	Motihari		850	38	166	lst April 1887.
Champar	*0		Bettiah		1,081	106	384	Ditto
			Total		1,881	144	550	

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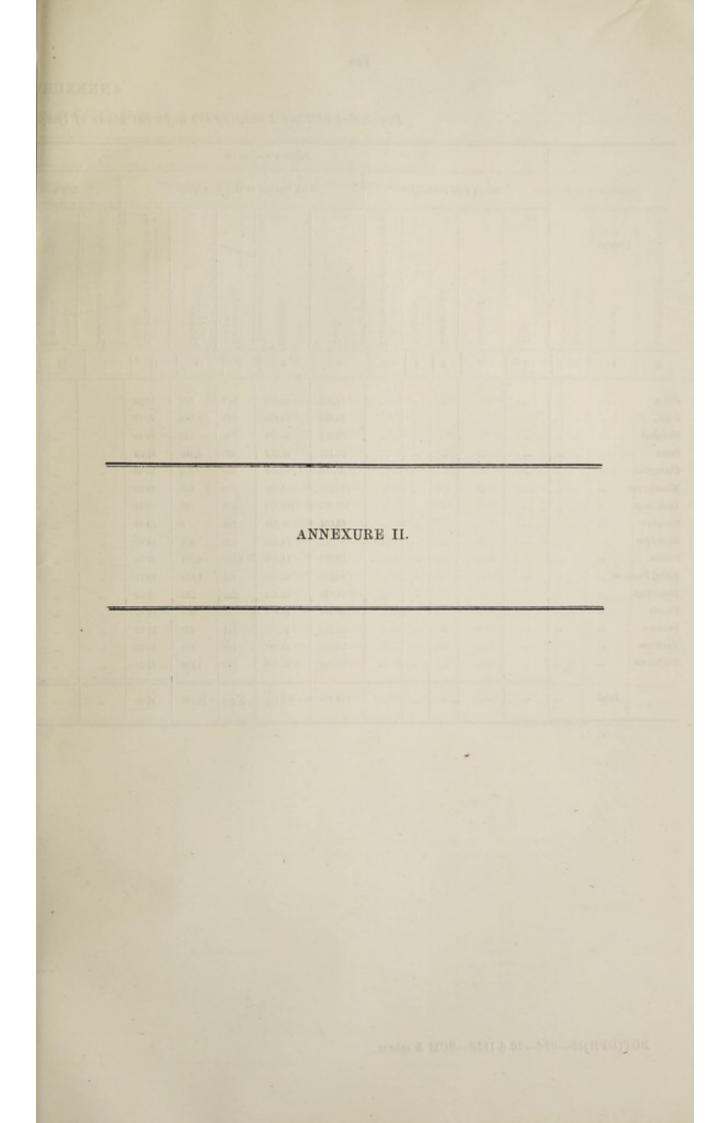
## STATEMENT NO. V .-- Showing the protection afforded to infants in each town in the Province of Bihar during the year 1936-37.

District.	Town	D.F.		Number of births dur- ing the year ending 31st March 1937.	Number of deaths amongst infants under one year during the year ending 31st March 1807.	Number of successful vaccinations aroungs ⁶ infants under one year during the year ending 31st March 1937.	Date of extension of Vacci- nation Act to town.
- 1	9			3	4	5	6
[	Muzaffarpu	r		943	154	283	1st January 1386.
Manuffamm	Sitamarhi			317	54	37	1st April 1587.
Muzaffarpur {	Hajipur			685	127	96	lst May 1890.
and and a second	Lalganj			823	28	36	Ist April 1887.
	Total			2,268!	363	452	
ſ	Darbhanga			1,590	248	431	24th May 1884.
Darbhanga }	Roserah			240	23	38	3rd January 1891.
Daronanga	Samastipur			208	30	82	25th July 1910.
l	Madhubani			484	47	142	lst April 1887.
	Total			2,767	348	638	
	Total of ' Divisi	Tirhut		9,104	1,166	2,413	
	Monghyr			1,500	169	407	15th November 1882.
Monghyr {	Jamalpur			1,055	118	149	Ditto.
	Total			2,558	287	556	
Bhagalpur {	Bhagalpur			1,642	260	866	15th February 1884 withdrawn on 16th October 1895; re- extended on 18th August 1898.
Price Presentation 1015.	Colgong			162	46	50	Ditto, re-extended ou 19th December 1901.
	Total			1,804	306	916	
ſ	Purnea			\$05	40	146	lst July 1887.
Purnea	Kishanganj			181	31	106	12th November 1892.
uruea }	Katihar			136	17	68	8th August 1910.
L	Forbesganj			152	41	18	9th August 1912.
	Total			774	129	338	

STATEMENT NO. V.-Showing the protection afforded to infants in each town in the Province of Bihar during the year 1986-37-contd.

15 D. P. H.

District.	Towns.	Number of births during the year ending 31st March 1937.	Number of deaths amongst infants under one year awing the year ending 31st March 1937.	Number of successful vaccinations amongst infants under one year during the year ending 31st March 1937.	Date of extension of VaceInstion Act to town.
1	3	3		5	6
[	Sahibganj	146	19	152	1st May 1884.
Rental Deserves	Deoghar	87	9	184	Ditto.
Santal Parganas {	Madhupur	80	8	108	22nd August 1910.
ł	Dumka	94	7	128	Notifications, date the 9th April 1884 and 23rd Augus 1910.
	Total	407		572	
	Total of Bhagalpur Division.	5,543	765	2,382	
ſ	Hazaribagh	375	87	238	1st January 1885.
Hazaribagh {	Chatra	199	24	158	lst August 1885.
l	Giridih	238	19	192	8th September 1910
	Total	812		588	
(	Ranchi	590	39	1,061	1st April 1887.
Ranchi {	Lohardaga	171	18	183	25th June 1882.
	'fotal	761	57	1,244	
Palamau	Daltonganj	215	19	228	9th October 1890.
ſ	Purulia	561	39	282	1st January 1887.
Manbhum {	Raghunathpur	190	23	19	9th February 1894.
Janonum ]	Jhalda	232	25	79	9th July 1892.
	Dhanbad	366	24	12	5th December 1918.
	Total	1,849	111	392	
(	Chaibassa	273	43	158	20th June 1892.
Singhbhum }	Chakradharpur	182	29	98	18th January 1919
	Jugsalai	268	21	149	lst April 1924
l	Jamshedpur	289	32	1,478	
	Total	1,012	125	1,883	
	Total of Chota Nagpur Division.	4,149	503	4,127	
	Total for the Province	29,758	4,255	15,547	



## ANNEXURE

									Primary vac	cinstion.			· · · · ·	
	rganas rb rganas gb 			Direct fr	om the	calf.			With Isnoline	or glyce	rine lymph		-	Arm-to-az
E	Pistriot.		Total.	Successful.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successfal.	Uneucceseful.	Uaknown.	Percentage of successful cases.	To:al.	Suocessful.
	1		2	3	4	5	6	7	8	9	10	11	12	13
Patna		(			1			67,938		1	1	1	1	T
Gaya		•							66,834	587	587	98-34		
Shahabad					]			76,663	74,953	367	1,344	97-77		
Saran								60,728	59,780	701	247	98-42		
Champaran								80,168	78,318	693	1,158	97.69		
								67,722	. 66,556	832	334	98.28		
Musaffarpur								112,525	111,760	520	245	99-32		
Darbhanga			***					107,915	107,174	555	186	99-31		
Monghyr								58,234	58,041	184	9	99.66		
Bhagalpur								69,212	€8,882	226	104	99'67		
Purnes								59,768	54,492	2,137	3,134	91.18		
Santal Pargan	8.61							47,893	45,753	591	1,559	95-11		
Hazaribagh								41,824	40,422	580	322	77-82		
Banchi								39,523	39,084	41	398	98.89		
Palaman								19,923	19,832	141	430	97.13		
Manbhum	1.1	'						50,100	48,711	450	939	97-22		
Singhbhum								24,084	22,009	797	1,278	91-38		
	fotal							963,735	962,120	9,891	12,224	97:80		

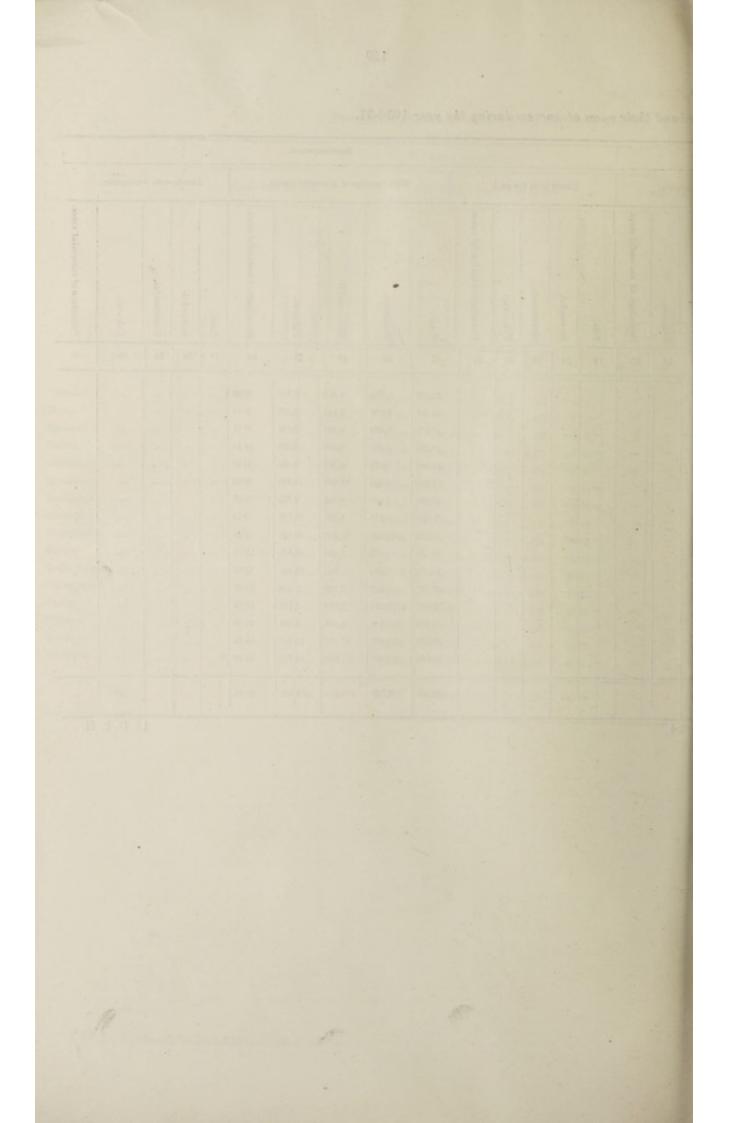
Provincial Statement showing the different kinds of lympl

										Re-vace	instion.						
in	ation.			Direct	from t	he calf			With lano	line or glyc	erine lymp	ь.		Arm-to	-arm v	raccination	ı.
"Initia Southers A	Unknown.	Percentage of successful cases.	Total.	Saccessfal.	Unsuocessful.	Unknown.	Percentage of successful cases.	Total.	Saecessfui.	Unsuccessful.	Unknown.	Percentage of successful cases.	Total.	Successful.	Unsuccessful.	Unknown.	Percentace of successful cases.
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
								23,693	8,535	7.452	7,706	36-03					
	1100		- Second		and the second	Sugar .		14,796	6,675	2,154	5,967	45.11					
								18,571	8,674	6,252	3,645	46.71				[	
								16,514	5,641	5,205	4,068	34.16					
								15,981	5.575	5,510	4,596	34.90					
								46,649	16.944	15,800	13,845	36-32					
								27,736	9,949	8,102	9,685	35-87					
								69,593	1,562	3,432	64,599	2-24					
								87.206	43,520	21,024	22,062	67.42					
1								10,897	9,033	5,299	\$6,065	12.83					
								34,275	3.994	4,635	25,626	11-65					
								21,337	7,399	6,262	7,676	34.67					
								22,803	12,997	5,662	4.144	56.99					
								15,634	7,433	3,529	4,732	47:36					
								57,152	26,472	17,072	13,603	46.32					
								60,011	13,793	31,500	14,718	22.96					
								602,408	158,196	149,970	254,242	81-24					

## sed and their rates of success during the year 1936-37.

129

1.



#### No. 1878-L. S.-G.

The curstive value of choleraphage was

#### GOVERNMENT OF BIHAR.

# LOCAL SELF-GOVERNMENT DEPARTMENT.

# RESOLUTION.

# Patna, the 12th April 1938.

READ-

# The Public Health Report for the year 1936 and the Vaccination Report for the year 1936-37.

1. Vital statistics.—The total number of births during the year rose from 1,108,571 in the previous year to 1,144,008 in the year under review. The total number of deaths decreased from 786,710 to 701,813 due chiefly to fewer deaths from Cholera and fever. The excess of birth over the death rate was 13.6 as compared with 9.9 in the previous year. Registration of vital occurrences is compulsory only in the municipal area. A certain percentage of the vital occurrences was investigated and verified by the officers of the Public Health Department. An attempt has been made in recent years to transfer the responsibility of collection, tabulation and verification of vital occurrences to the bigger municipalities and experience shows that the municipal statistics are more reliable than those collected by the Police. With the increasing number of health officers employed by municipalities, more of them will be in a position to undertake this work.

2. Infant mortality.—The rate of infant mortality rose from 116.6 in 1935 to 118.0 per thousand on the basis of actual births recorded during the year. The attention of the local bodies is again drawn to the importance of organising maternity and child welfare work in their areas which is the only effective step that can be taken to reduce child mortality. Some municipalities maintain midwives. It is also gratifying to note that some of the district boards have realised the importance of training indigenous dais and have taken up the work. The maternity centres rendered useful aid to the public.

3. Cholera.—The total number of deaths from Cholera decreased from 57,136 last year to 6,070 during the year under report and the corresponding death rate from 1.8 to 0.2. The districts of Manbhum, Santal Parganas and Hazaribagh and the towns of Deoghar, Purulia and Jhalda recorded highest number of deaths. To assist the local bodies in combating the disease Government deputed Doctors on epidemic duty to the cholera infected areas and disinfectants and cholera vaccine were distributed by the Public Health Department. The number of doses of cholera vaccine issued by that Department during the year was 288,930 against 945,665 of the previous year, the decrease is attributed to lesser incidence of the disease during the year as compared with the year before. An extensive use of choleraphage seems to be responsible for reducing the demand for cholera vaccine.

4. Bacteriophage.—102,930 phials of choleraphage of 50 c. c. were prepared during the year in the Bacteriophage laboratory at Patna and 81,106 phials were distributed to various towns and districts. During the cholera epidemic the use of choleraphage remarkably reduced the cholera mortality. To demonstrate the possibility of using phage as prophylactic in place of cholera vaccine, experiments are being made on rabits by injecting them with phage and cholera vaccine and testing their serum. The mixture of various types of Typhoid phage was prepared and issued to the leading practitioners and the hospitals for experiment and the results are reported to be very encouraging. The curative value of choleraphage was accepted by the Conference of the India Research Fund Association held in Calcutta in 1936 after an examination of a series of controlled experiments which were statistically scrutinized.

5. Small-pox .-- The number of deaths from small-pox rose from 17,433 in the previous year to 22,863 during the year under report and the corresponding death rate from 0.5 to 0.7. The lower death rate in 1935 is attributed to the immunity caused by extensive vaccinations and re-vaccinations carried out during the year 1933 when a small-pox epidemic broke out in the province. As usual the rural areas suffered more than the urban and the highest death rate was registered in the districts of Purnea and Shahabad. The districts of Ranchi, Champaran and Muzaffarpur recorded the lowest death rate. The towns of Roserah, Chaibassa and Jamalpur reported highest death rates. Primary vaccination is compulsory in all the municipal towns and also in rural areas of nine districts. In pursuance of a policy of decentralisation the control of vaccination has now been transferred to local bodies in those districts in which health organisation schemes are working, and the Government vaccination inspecting staff has been withdrawn therefrom. But in order to ensure efficiency of supervision, Government have appointed three special vaccination inspectors to work under each of the Assistant Directors of Public Health.

6. Plague.—The total number of deaths from plague decreased from 2,861 in the previous year to 1,244 during the year under report. The death rate was 0.04 as compared with 0.09 in the year before. Saran records the highest death rate followed by Muzaffarpur and Champaran. Necessary preventive measures were taken by the Public Health Department. Government deputed Doctors on plague duty to the affected districts and also to the Bettiah town. Anti-plague inocculations were also given. Plague again broke out in the town of Bettiah as in the past few years, taking a heavy toll of life. The question of devising means for stamping out the disease from the town is engaging the attention of Government.

7. Dropsy—Beri-Beri was reported from the districts of Patna, Bhagalpur, Manbhum and Singhbhum during the year under report. Steps were taken to instruct people to avoid the use of over-polished rice and adulterated mustard oil and Ghee. In the Bhagalpur municipality pamphlets giving suitable nourishing diets, were printed and distributed. A report on epidemic dropsy in Manbhum district was received from the Director of the School of Tropical Medicine and Hygiene, Calcutta, who attributes the disease to the use of polished rice. Further investigation on the subject is being carried on.

8. Malaria—The increased incidence of malaria in North Bihar is noticeable and is engaging the serious attention of Government. While Purnea has had a long history of malaria, conditions have been bad in Darbhanga and Muzaffarpur in the Tirhut Division, the outbreaks being definitely confined to the spill areas of rivers which change their course often. Bhagalpur has also fared badly in 1935 and worst in 1936. All possible measures were taken by deputing temporary doctors in the affected areas and distribution of quinine mostly from Government stock, free of cost. A more permanent method of tackling the problem on an intensive scale has since been worked out and is expected to be applied in the badly affected districts in turn.

9. School Medical Inspection.—Out of 9,576 boys and 485 girls examined as many as 4,140 boys and 419 girls were found to be defective or diseased. Besides minor troubles e. g., enlarged tonsils, scabies malnutrition found in most of the students, major defects of eye and heart, pulmonorary tuberculosis and leprosy were also noticed in some of them. A sincere co-operation of the parents or guardians who are kept informed of the particular defects in their wards is needed for affecting any appreciable improvements in the health of the students. The scheme for providing mid-day school lunch on a monthly fee of annas six per student which has been introduced in some schools in the Chota Nagpur Division seems to be a step in the right direction and Government hope that other schools will follow suit. 10. Public Health Department (Engineering Branch).—A summary of the activities of this department relating to sanitary works in areas under the jurisdiction of the local bodies during the year is appended to the report.

11. Health Propaganda.—The importance of this towards awakening public health conscience in the masses is clear. The Public Health Bureau continued to do useful work through distribution of pamphlets and leaflets on public health matters to local bodies and through them at fairs and festivals. Popular articles on such matters were also contributed to the local press by the Bureau. The activities had on the whole to be necessarily limited owing to the modest scale on which the Bureau is established.

12. The Office of the Director of Public Health was held by Lt.-Col. J. A. S. Phillips, C. I. E., I. M. S., from the 1st January to the 31st March and again from the 14th October to the 31st December and by Lt.-Col. S. L. Mitra, I.M.S., from the 1st April to 13th October. Government desire to thank both these officers for the efficient way in which they carried on the administration of the department and for the cordial relations which the Department maintained with the local bodies during the year. Government have also noted the names of the subordinate officers commended in the report.

By order of the Governor of Bihar,

### V. K. R. MENON, Secretary to Government.

10. Public Health Department (Engineering Branch).—A summary of the notivities of this department relating to sanitary works in arous under the jurisdiction of the local hodies during the year is appended to the report.

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