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ANNUAL PUBLIC HEALTH REPORT

OF THE

PROVINCE OF ORISSA

FOR THE YEAR

1946



SUPERINTENDENT
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CUTTACK
1953

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ANNUAL PUBLIC HEALTH REPORT OF THE PROVINCE OF ORISSA FOR THE YEAR 1946

CHAPTER I

Vital Statistics

Area and population—The area of the Province is 32,198 sq.miles and the population according to the census of 1941 is 87,28,544 excluding the States. The average population per sq. mile is 271. As there is no arrangement for collection of Vital Statistics in certain parts of the Ganjam Agency and a large part of Koraput district, the statistics given in the report relate only to a population of 78,63,021.

The number of births registered during the year was 2,16,391, the number of males being 1,11,865 and females 1,04,526 against a total of 2,13,655 or 1,10,665 males and 1,02,990 females in 1945.

Birth and death rates—The Provincial birth rate was 27.52 per mille during the year under report against 27.35 in 1945. The death rate was 23.83 against 27.86 in the previous year.

Comparative figures of birth rates in other Provinces during the year are given below :—

Province	Rates	Province	Rates
Madras	31.62	C.P. & Berar	37.00
N.W.F.P.	18.16	Orissa	27.52
Bombay	33.20		
Sind	18.48		
Punjab	37.6		

Birth Registration—The rural and urban areas recorded 2,08,828 and 7,563 against 2,06,840 and 6,815 respectively in the previous year. The highest birth rate was 31.67 recorded in the Ganjam plains and the lowest was 5.41 in the Agency districts (Ganjam Agency and Koraput).

Death Registration—The death rates recorded by the rural and urban areas were 1,81,319 and 6,029 against 2,10,760 and 6,852 respectively in the year 1945.

The highest death rate was 29.59 recorded in the district of Cuttack and the lowest was 4.33 in the Agency districts (Ganjam Agency and Koraput).

Comparative figures of death rates in other provinces are given below :

Province	Rates	Province	Rates
Madras	18.88	Orissa	23.83
Bombay	23.04	C.P. & Berar	27.07
N.W.F.P.	11.18		
Punjab	18.00		

Mortality according to age, class and sex—95,522 males and 91,826 females died in 1946 with a death rate of 25.16 for males and 25.53 for females against 1,09,966 (29.18) and 1,07,646 (26.63) in 1945. 37,049 deaths were recorded amongst infants under 1 year giving a mortality rate of 175.83 per mille of live births against 380.53 and a mortality rate of 178.10 in 1945. The death rate was highest amongst the Hindus (27.41) and lowest amongst Christians and other classes (8.83 and 1.51 respectively).

CHAPTERS II AND III

State of Public Health in the Province and history of Chief diseases (Epidemiology)

Incidence of Chief Diseases—The statement below shows the mortality rates per one thousand of population from chief diseases during the year :—

	Urban	Rural	Total
Cholera	0.64	0.93	0.92
Smallpox	0.39	0.78	0.79
Fevers	6.89	13.14	12.94
Dysentery and Diarrhoea	2.75	1.77	1.80
Respiratory diseases	1.63	0.57	0.60
Injuries	0.31	0.33	0.33
Other causes	11.54	6.31	6.47
Total	23.97	23.82	23.83

Cholera—The death rate from cholera decreased from 1.36 in the previous year to 0.92 per mille this year. The highest incidence was recorded in the Cuttack district, the death rate being 1.61 and the lowest was in the Agency districts with a rate of 0.01.

The following table will show the distribution of cholera incidence in the Province month by month during the year :—

Month	No. of Deaths
January	486
February	985
March	1,622
April	691
May	799
June	389
July	437
August	259
September	399
October	363
November	479
December	300

Preventive measures for the control of cholera were adopted by way of inoculation disinfection of water sources, etc. and by educative propaganda by Public Health lectures, with and without magic lanterns, distribution of pamphlets, etc. A free supply of 5,48,000 ccs. of cholera vaccine at a cost of Rs. 26,343 was made by the Department to the local bodies concerned.

Smallpox—There were 6,060 deaths from smallpox giving a rate of 0.79 per mille in 1946 as compared to 12,018 (1.54) in 1945. Cuttack district recorded the highest incidence (1.45) and the Agency districts recorded the lowest (0.01).

The following table will show the distribution of smallpox incidence in the Province month by month during the year :—

Month	No. of deaths	Month	No. of deaths
January	871	July	393
February	819	August	252
March	922	September	189
April	1081	October	95
May	761	November	94
June	501	December	82

As usual vaccine lymph was supplied from the Vaccine Institute of the Government of Bihar to the Local bodies. Vaccine lymph worth Rs. 35,030 was purchased from the institute during the year.

2,13,414 primary and 9,13,552 re-vaccination operations were done during the year giving a total of 11,26,966 against 14,35,029 in the previous year.

Plague :—The Province was free from plague.

Dysentery and Diarrhoea :—There were 14,157 deaths from this group of diseases with a rate of 1.80 per mille during the year under report against 17,093 (2.19) in 1945. The districts of Cuttack (3.64) and Puri (1.99) recorded high death rates while the incidence was low in Angul subdivision (0.23) and Agency districts (0.33).

Respiratory diseases :—There were 4,731 deaths from respiratory diseases during the year giving a mortality rate of 0.60 against 4,407 (0.56) in the previous year. These figures include deaths from Tuberculosis which probably claims a large percentage.

There is one Tuberculosis Clinic in the premises of the Cuttack General Hospital, which has been provided with six observation beds. Examination of blood, sputum, etc., was done as usual and where necessary the cases were sent to different sanatoria in India. 623 patients attended the clinic during the year.

CHAPTER IV

Fairs and Festivals

The Province is popular for its fairs and festivals, specially so for its Car festival at Puri. The Snan, the Car and the Return car festivals attract a large number of pilgrims from all parts of India. A Committee was formed to draw up plans for improving sanitary conditions in the Puri town and making arrangements for dealing with the problems arising out of the annual Ratha Jatra. Government sanctioned Rs. 19,000 to the Puri Municipality and Rs. 10,000 to the Puri District Board to enable them to give effect to the recommendations of the Committee.

The Directors of Public Health of other Provinces were requested to keep the Health Officer, Puri Municipality informed of the epidemic position in their respective Provinces and also to see that the intending pilgrims from their Provinces were inoculated against Cholera before they left for the festival. Similar arrangements were made with the Health Officers of the districts within the Province.

Eight Sub-Assistant Surgeons, 3 District Leprosy and Epidemic Officers and 3 Health Inspectors were deputed by Government to supplement the municipal staff for festival duty. A field laboratory was established in the premises of the Headquarters Hospital, Puri, to help diagnosis of cases.

The attendance in the festivals was approximately 1,75,000. The pilgrims were instructed by propaganda to observe sanitary and hygienic principles. Strict control was also exercised over the sale of unwholesome food in the streets, markets and hotels.

During the whole festival period only 11 attacks and 2 deaths from cholera were reported. The excellent services rendered by the voluntary organisations, viz., St. John Ambulance, Bharat Seva Sangha etc., deserve commendation.

CHAPTER V

Urban Sanitation

There are 8 Municipalities in the Province with a total population of 2,39,476 according to the census of 1941.

There are class I Health Officers at Cuttack and Puri and a II class Health Officer at Berhampur. The remaining Municipalities employed qualified Health Inspectors to look after the Municipal sanitation.

The Municipalities of Berhampur and Puri have got protected piped water-supply but the supply is not adequate. There is no drainage system in the Province worth mentioning. The post-war scheme contemplate a Province-wide installation of water-supply and drainage. The statement below shows the receipts and expenditure of the Municipalities for sanitary purposes during the year 1945-46 as compared to the previous year.

Total No. of Municipalities	Total receipts including operating balance		Head of expenditure	1944-45	1945-46	Percentage of expenditure to the total receipts.	
	1944-45	1945-46				1944-45	1945-46
	Rs.	Rs.		Rs.	Rs.		
8	12,17,423	15,71,509	Conservancy ..	2,96,102	2,94,602	24.3	18.8
			Drainage ..	18,456	15,917	1.5	1.0
			Water-supply ..	66,420	38,923	5.5	2.4
			Vaccination ..	4,127	5,624	0.3	0.3
			Epidemics ..	27,081	23,912	2.2	1.5
			Markets and Fairs ..	6,336	8,150	0.5	0.5
			Other sanitary charges	3,387	3,452	0.3	0.2
			Public Health Staff ..	12,039	14,549	1.0	0.9
			Total ..	4,34,018	4,05,189	35.6	25.9

The report of the Superintending Engineer-in-charge, Public Health Works, Orissa, is appended in which the activities relating to sanitary improvements in urban areas are included (See Appendix I).

CHAPTER VI

Rural Sanitation

There was no change in the Public Health Organisation of the various districts of the Province during the year under report. Each district has got a class I Health Officer except Koraput where the Civil Surgeon is in charge of Public Health Administration. The Civil Surgeons, Ganjam and Cuttack are respectively in charge of the Public Health in Ganjam Agency and Angul subdivision.

Sanitary masonry wells are very few in the rural areas, the chief source of water-supply being rivers, canals, tanks, shallow, wells, etc.

There is no conservancy at all. A few health units have been functioning to improve the general sanitation of the villages.

The following statement shows the expenditure on sanitation incurred by the District Boards during the year 1945-46 as compared to the previous year.

No. of District Boards	Total receipt including opening balance		Head of expenditure		1944-45	1945-46	Percentage of expenditure to the total receipt.	
	1944-45	1945-46					1944-45	1945-46
	Rs.	Rs.			Rs.	Rs.		
6	26,39,378	21,46,210	Conservancy	..	32,909	41,244	1.2	1.9
			Drainage	..	3,433	3,160	0.1	0.1
			Water-supply	..	4,941	14,134	0.2	0.6
			Vaccination	..	34,817	37,743	1.3	0.3
			Epidemics	..	12,197	7,689	0.3	0.3
			Markets and Fairs	..	7,490	6,861		
			Other sanitary charges..		1	nil		
			Public Health Staff	..	88,398	1,01,228	3.4	4.7
			Total	..	1,84,186	2,12,059	7.0	9.9

CHAPTER VII

Fevers

Fever is one of the chief causes of mortality in the Province. There were 1,01,720 deaths with a mortality rate of 12.94 per mille of population against 1,21,585 or 15.56 per mille in the previous year. High death rates were recorded in Khondmals (20.02) Balasore (18.18) and lowest incidence was recorded in the Agency districts (2.02).

The incidence of fever is distributed in the year against the previous year as follows—

Months	1945	1946
January	11,767	11,203
February	9,910	8,153
March	10,795	9,025
April	10,027	9,054
May	10,561	8,136
June	8,753	6,321
July	7,839	6,802
August	10,033	7,256
September	9,363	8,071
October	10,647	7,955
November	10,414	8,897
December	11,473	10,847

During the year under review there was outbreak of Malaria in some villages in Cuttack district notably in Bantala and Indipur in Kenirapara. Brief investigation of these places revealed the presence of *A. Annularis*. This preponderate species is famous for breeding in silt laden water. The spleen rates of both the places was about 90 per cent.

Anti-malaria measures are instituted by the District Board, Cuttack, by distributing anti-malarial drugs to control the epidemic. No other measures against the mosquitoes were carried out due to the financial and local conditions of the place.

One Malaria Survey Unit at Bhubaneswar was opened in the month of August 1946 to find out the vector species and favourable local conditions responsible for the breeding of mosquitoes in connection with the construction of the capital town. The vector species has not yet been detected. The report will duly be submitted to the Government after the survey work is finished.

Two control units were established one at Cuttack and the other at Koraput to carry out anti-larval measures more efficiently. Malaria control unit at Koraput could not function during the year as most of the staff did not join in time.

Anti-malaria measures in other Municipalities were carried out satisfactorily. There was no severe epidemic of malaria during the year under report.

Government sanctioned grants of Rs. 2,000 each to all Municipalities except a sum of Rs. 4,000 to Balasore Municipality. A sum of Rs 1,500 each is given to Parlakimedi and Jajpur Municipalities and the Puri Municipality was also given Rs 2,000 for this purpose. All the District Boards were given a sum of Rs. 5,000 each to combat malaria.

During the year 830 lbs. of quinine, 338 lbs. of Cinchona febrifuge, 26,92,405 tablets of quinine substitutes and 25,900 tablets of quinine sulph, 4,573 boxes of quinine injections and 15,650 tablets of Pamaquin were issued to hospitals and dispensaries, Local Bodies, Chemists and Druggists and Post Offices and schools for sale to the general public and distribution among the school children besides the quantity issued to the Health Officers and Civil Surgeons for free distribution in the affected areas. Government also secured $\frac{1}{2}$ ton of D. D. T. and supplied to the Local Bodies. During the latter part of the year Government sanctioned Rs. 45,000 to various Local Bodies for carrying out anti-malaria measures.

CHAPTER VIII

Maternity and Child Welfare

During the year under review 6 maternity and child welfare centres functioned at Cuttack, Berhampur, Sambalpur, Puri and Russelkonda on an organised basis under the management of local maternity and child welfare committees. 8 maternity centres carried on their usual activities at Koraput, Jeypore, Umerkote, Parlakimedi, Purushottampur, Khurda, Bargarh and Bhadrak under the supervision of the Local Medical Officers. Arrangements were being made to bring the centres at Angul, Rayaghada and Hatigarh up to the standard.

2. The centres at Cuttack and Balasore were in charge of a lady Sub-Assistant Surgeon and a Maternity Supervisor respectively. The centres at Puri, Sambalpur and Berhampur were previously sanctioned by Government, but could not function due to non-availability of qualified personnel. Steps are being taken to train suitable candidates for the posts.

3. Dai training classes were held in Cuttack Centre where 4 to 6 candidates were trained under the auspices of the Victoria Memorial Scholarship Fund.

4. Out of a total of 3,278 domiciliary midwifery cases conducted by the staff of 14 centres in the Province, 627 cases were conducted in Cuttack, 520 in Puri and 306 in Parlakimedi.

A statement showing the record of work is given below :

	Normal		Abnormal		Total
	Booked	Unbooked	Booked	Unbooked	
Total cases confined	2,581	616	67	19	3,283
<i>Domiciliary Midwifery</i>					
By Centre staff	1,131	133	9	4	1,277
By trained Dais	940	67	..	..	1,007
By Pupil Dais	118	..	..	..	118
By Other Dais	80	273	..	..	353
Cases referred to Hospital	310	143	55	15	523
Still births	67	7	5	2	81

	Normal		Abnormal		Total
	Booked	Unbooked	Booked	Unbooked	
<i>Maternal deaths</i>					
Before confinement ..	51	10	..	3	64
During labour ..	3	..	..	..	3
Within one month of confinement.	3	..	..	..	3
<i>Deaths of infants</i>					
Within 10 days of birth ..	17	6	2	3	28
From 10 days to 1 month ..	12	4	..	..	13

Distribution of milk to pre-natals, nursing mothers and infants was carried on during the year. Dried milk obtained through the courtesy of the Indian Red Cross Society, Multivitamin tablets supplied by the American Mission were also distributed amongst the expectant mothers and needy children under the supervision of lady Doctors.

Ante-natal and post-natal clinics were held regularly on fixed days, twice a week in almost all the urban maternity and child welfare centres. The lady doctors entrusted with the supervision of dais' work carried on their duties efficiently by regular visits to homes of patients in the afternoons.

CHAPTER IX

School Medical Inspection

During the year under report, medical examination of students was conducted only in 24 High Schools. As many as 2,646 students were medically examined of whom 1,716 were found defective. Of 835 old defective students recommended for treatment, 504 students actually received treatment and benefited thereby. All the guardians of the defective students were advised to get their wards treated and most of such students were found to have been cured of their ailments when they were re-examined.

Medical examination was carried out for the new entrants, the old defective students and the students who were never examined before. The usual system of the detailed examination was (1) a general clinical examination of the whole body including the heart, lungs, ear, nose and throat, (2) a test for normal vision, (3) Examination of the private parts to find out the leprotic patches or any contagious diseases under the cover of clothing and also the diseases of the genitals.

In almost all the schools the guardians were communicated about the diseases detected in their wards, but only a low per cent of them took advantage of such information and got their wards treated.

Diseases and Defects—Out of 2,646 scholars examined 1,716 or 64.85 percent scholars were found defective as compared with 66.2 percent of the previous year. Although there has been some development in the sense of hygienic consciousness and knowledge about better food amongst the people, scarcity of food materials and abnormal prices of commodities stood in the way of the parents to provide nutritious diet for their children. In consequence the standard of nutrition amongst the scholars did not give any better indication than what was in the previous year.

In addition to this, malaria has played a very significant roll in bringing about this deplorable state of affairs. The schools in the district of Balasore contributed a large percent of defectives towards the total figure and many scholars though had been taking adequate diet, had presented a low standard of nutrition due to chronic malaria.

During the year under report, 23 cases of leprosy were detected, all of whom were early neural patches and were in non-infective stage. In most cases the guardians of these scholars were persuaded to get their children treated without any delay. The old cases were re-examined and were found either cured or in improved condition. They received special attention from their Headmasters who always demanded the outdoor receipts of the clinics where they under went treatment.

5. Students unprotected against smallpox—The school authorities were advised to get each of the students vaccinated as were found unprotected against smallpox. During the year under report as many as 100 or 3·7 per cent of scholars were found without any successful marks of vaccination on their persons and they were recommended or immediate vaccination.

Midday Refreshment—The supply of tiffin to scholars during the interval of school hours has been made compulsory. The schools in the urban areas who have got better facilities to procure the foodstuff easily have been supplying tiffin of the prescribed varieties regularly.

Scholars benefited by the School Medical Examination—Of the 835 old defective scholars examined, 504 or 60·45 per cent were found to have been benefited. Some of the benefited scholars had minor ailments which needed very little attention. Change of weather, diet and environment played a great part in curing these defects. The few cultured guardians who are conscious of the consequence of the defects in their wards paid necessary attention and got their wards properly treated. In certain schools the Headmasters took initiative in the matter and got the defective scholars treated in the local dispensaries.

Hygiene lectures—Lectures on Anatomy, Physiology and Hygiene were delivered to the students of the two topmost classes of the high schools visited. The total number of lectures delivered was 236 which included 32 lectures delivered to the teachers of primary schools in the different districts of the Province during summer vacation.

Vacation course of lectures to the teachers of Primary Schools—During the year under report the School Medical Officer delivered a course of lectures on various subjects of Public Health interest to the teachers of Primary schools when the schools were closed for summer vacation and the routine duties in schools were suspended.

CHAPTER X

Health Propaganda

This work was carried on as usual by public lectures and talks with and without magic lantern demonstrations. Some films on health subjects were also obtained from the Red Cross film Circulating Library, New Delhi, and were exhibited in Cinema Halls for the public, free of cost. Besides, several press notes and leaflets on various communicable diseases were issued. Advantage was also taken of exhibitions and cattle shows where health stalls were installed.

A detailed statement showing health propaganda done during the year under report is furnished below :—

(1) Number of lectures with magic lanterns	..	4,255
(2) Number of lectures without magic lanterns	..	20,805
(3) Total number of leaflets on different health subjects	..	25,000
(4) Total number of leaflets distributed throughout the Province	..	15,000
(5) Total number of exhibitions attended and Health Stalls opened	..	7
(6) Total number of village and Mahallas where propaganda work was done	..	18,500
(7) Total number of people attended the lectures with or without magic lanterns		20,50,000 approximately.

CHAPTER XI

Public Health Administration

The Director of Health and Inspector-General of Prisons, Orissa, is the administrative head of the Public Health Department. The following other staff were also maintained :—

- (1) The Assistant Director of Public Health
- (2) The Provincial Leprosy and Health Publicity Officer
- (3) Bacteriologist and Pathologist to Government of Orissa
- (4) The Provincial Malaria Officer
- (5) The School Medical Officer

- (6) Four Medical Officers of Health
- (7) Two II Class Health Officers
- (8) One Assistant School Medical Officer
- (9) Seven District Leprosy and Epidemic Officers
- (10) One Sub-Assistant Surgeon, One Analytical Chemist, One Assistant Analytical Chemist attached to the Public Health Laboratory
- (11) Health Inspectors
- (12) Vaccinators

The services of the Health Officers of Cuttack, Puri and Balasore districts so far maintained by the District Boards have since been Provincialised. Some of the Health and Ministerial staff under the local bodies have also been brought under Government service.

Besides the above regular staff temporary staff of Sub-Assistant Surgeons, Health Inspectors and Vaccinators were appointed from time to time to supplement the district staff in controlling epidemics.

The statement below shows the receipts and expenditure under the head "39—Public Health" for the year 1946-47 as compared to the year 1945-46 :

Receipts.	Head of Expenditure	Budget Provision Expenditure.	Budget Provision Expenditure.
1945-46--1946-47		1945-46	1946-47
Nil	Public Health Establishment ..	87,387	87,684
	Medical Examination of scholars and teaching of hygiene in H. E. Schools	7,855	8,224
	Malaria	16,542	14,230
	Other epidemic diseases	43,127	72,602
	Publicity Campaign	24,299	28,401
	Bacteriological Laboratory	25,373	26,440
	Grants to District Boards and Municipalities for Public Health purposes	88,786	1,59,894
	Contribution to Pasteur Institute for Vaccines	1,800	2,938
	Diet Surveratory	2,664	2,732
	Total ..	2,97,833	4,03,145

CHAPTER XII

Vaccination

Primary Vaccination (Statement No. 1)—During the year under report 2,13,414 persons were primarily vaccinated against 2,46,874 in the previous year. Out of 2,13,414 primary vaccinations 96.29 were successful.

Re-vaccination—9,13,552 persons were re-vaccinated against 11, 88,155 in the previous year. The percentage of successful cases was 58.43.

Out of 11, 26,966 persons vaccinated on the whole, 7,05,919 were males and 4, 21,047 were females.

Vaccine Lymph—During the year 9,35,642 doses of vaccine lymph were purchased from the Vaccine Institute of the Government of Bihar against 11, 88,567 doses in the previous year and were issued free of charge for vaccination in the Province. The expenditure on this account amounted to Rs. 30,030 against Rs. 30,952 in the previous year.

Compulsory Vaccination—Primary Vaccination is compulsory in all the Municipalities of North Orissa and in the districts of Cuttack, Puri and Balasore. Both Primary and re-vaccination are compulsory in Ganjam plains and in the Union Board areas of Koraput district.

CHAPTER XIII

Other Public Health Services

Training of Health Inspectors—26 candidates were given training in Health Inspectors' Course, out of which 24 candidates came out successful. The candidates were given a stipend of Rs. 20 per mensem each during the period of training extending for 10 months.

Public Health Laboratory—The Bacteriologist and Pathologist to the Government of Orissa was in charge of the Laboratory. He is also the Public Analyst to the Government.

10,187 samples were examined in the Laboratory against 12,877 in the previous year. Of these 305 were samples of water, 564 food stuffs and 9,318 pathological specimens including those of blood tested in connection with Blood Transfusion Service.

WORK DONE IN THE LABORATORY

Public Health Sections—	Total Number of Examinations				
	1946	1945	1944	1943	1942
Water (Bacteriological) ..	152	120	112	123	181
Water (Chemical) ..	153	133	112	120	160
Analysis of foodstuff, etc. ..	564	413	328	328	367
<i>Pathology Section</i> —Pathological tests (including serological tests, etc. done in connection with Blood Transfusion Service	9,306	12,152	12,349	7,824	4,723
Blood Donation ..	12	59	236	87	27
Total ..	10,187	12,877	13,137	8,487	5,464

The fall is due to absence of materials for examination from Military side after the stoppage of war.

PUBLIC HEALTH SECTION

(a) Analysis of water :

Altogether 305 samples were examined—153 chemically and 152 bacteriologically.

(b) Examination of foodstuff :

Out of 564 samples received 328 were found genuine and 210 adulterated, percentage of adulteration being 37.23. In 23 cases no opinion could be given due either to inadequate quantity of samples sent or due to want of prescribed standard or to breakage during transit.

PATHOLOGY SECTION

3,906 specimens were examined during the year under report. Samples were received from all parts of the Province.

SEROLOGICAL EXAMINATIONS

	Positive	Negative	Total
Wassermann Reaction	609	1,424	2,033
Kahn	625	1,416	2,041

1,124 agglutination tests were done with the following results—

	Positive
Bact. typhosum O	35
typhosum H	122
Para A	31
Para B	41
Para C	3

All sorts of clinical examinations, biochemical tests, diagnosis of tissue section, bacteriological cultures and preparation of autogenous vaccines were undertaken as usual.

BLOOD TRANSFUSION SERVICE

Whole blood Transfusion	6
Number of bleedings	12
Blood grouping and matching	90

Special work—A field unit was deputed to Puri during the Car festival to carry on investigation of cases of Cholera.

Port Health Administration—For the three minor ports in the Province a medical officer is in charge at each of the ports of Chandbali and Gopalpur and the Civil Surgeon, Puri, is in charge of the Puri port.

At Chandbali only two vessels ply to Calcutta on traffic. No vessel called at the Puri port. The traffic with Rangoon which Gopalpur used to maintain was suspended during the year. Therefore the disinfecting staff maintained there were discharged excepting a fireman to look after the disinfecting machine.

Conclusion—This report deals with the activities of the Department during the year 1946, during which, I. Lt.-Col. A. N. Chopra, Lt. O. B. E., T. M. S., was in charge of the administration except for the period from the 23rd July 1946 to the 16th October 1946 when Rai Sahib Dr. B. Nayak, M. B., D. P. H., officiated while Col. Chopra was on leave.

B. N. HAJRA
Lt. Col.

*Director of Health and Inspector-General of
Prisons, Orissa*

APPENDIX I

Precis showing the activities of Public Health works so far as they relate to the sanitary improvements in the rural and urban areas in the Province of Orissa for the year 1946.

The Public Health Engineering works in Orissa during the year 1946 were carried out by the Executive Engineer, Public Health Division, Cuttack under the control of the Superintending Engineer Incharge Public Health Works, Orissa, Patna.

The following works were under taken :—

	Amount spent up to December '46.		
	Rs.	a.	p.
I. Urban areas—			
1. Cuttack General Hospital Water-supply reorganisation of R.C. Water Tower.	42,715	3	0
2. Tulsipur Drainage Scheme.	.. 10,965	10	0
3. Water-supply, sanitary installation to the conversion of Sisters' quarters into ward.	3,373	10	0
4. Water-supply, sanitary installation and sewerage to the Cuttack Government House.	11,804	13	0
5. Water connection to the Collector's residence now occupied by Revenue Commissioner	667	12	0
6. Water connection to the Collector's residence at Puri.	.. 1,557	3	0
7. Water-supply to the proposed ward extension over the Terrace in the 1st floor in the C. G.H.	1,416	10	0
8. Provision for extending of gas pipes to the building of the Medical College and School from Gas plant to the Provincial Bacteriological Laboratory.	1,995	5	0
9. Providing a hand pump in the surface well of the residence occupied by the Education Minister.	29	5	0
10. Water-supply, sanitary installation and sewerage to the Cuttack Military Hospital.	1,27,237	12	0
11. Sinking 5 numbers of tube-wells in the Cuttack Municipal area.	.. 30,393	9	0
12. Providing a tap in the Dhobikhana in the Cuttack Government House.	689	9	0
13. Proposed additional storage tank for lawn—watering in the Cuttack Government House.	44	7	0
14. Joint Water-supply scheme for Hospital Jail and R. P. Lines at Koraput.	807	0	0
15. Cuttack Town Water-supply scheme.	.. 1,10,875	0	0
16. Sinking a tube-well in the Cuttack Jail	.. 376	0	0
17. Providing water tap in the vegetable garden in the Cuttack Government House.	68	2	0
18. Water-supply and sanitary installation to the Puri Zilla School and College	69	0	0
II. Rural areas—			
1. Investigation of water supply along the coastal tracts of the Cuttack and Balasore Districts.	72	10	0
2. Sinking 1½" diameter tube-well at Dhanua embankment	.. 1,914	0	0

APPENDIX II

The Annual Report of the Executive Committee of the Orissa Provincial Branch of the British Empire Leprosy Relief Association for the year 1946-47

This is the tenth year since the Orissa Branch of the British Empire Leprosy Relief Association was created. During the year there was steady progress which could be maintained in spite of adverse after-war influence. In spite of its meagre finance and the difficulties experienced in securing the necessary men and material, the Association steered through a smooth way under the inspiring president-ship of His Excellency, the Governor.

The main features of the anti-leprosy work, carried out during the period, were survey, propaganda treatment and isolation.

Survey—Survey was conducted only in selected areas as it was considered useful to pay proper attention to the treatment of cases already detected rather than continuing to detect cases and fail to provide necessary treatment for all. The staff appointed by the Association has been found quite inadequate to carry on more intensive survey on regular lines. As almost all of them have been attached to the rural leprosy clinics they find little or no time to carry on survey work. As a result of the survey and resurvey conducted in certain areas during the year, 681 cases were detected in 372 villages amongst a population of 0.145 lakhs actually examined. The District Leprosy and Epidemic Officers also visited 59 schools and detected 33 cases amongst 2,616 students examined. These figures reveal an incidence of 4 per cent in the population actually examined in villages and 1.2 per cent amongst the students examined.

Propaganda—This aspect of the scheme which aims at educating the public in elementary knowledge of cause, transmission and remedy of leprosy has been tackled in several ways. Besides the usual magic lantern lectures and distribution of specially printed booklets and leaflets through the District Leprosy staff and other agencies coloured posters, charts, models etc., were displayed at exhibitions, melas and at other places of public importance. A special feature of propaganda is the observance of 'Leper day' in some of the district headquarters as well as in rural areas. Booklets and leaflets numbering 26,40 were printed and distributed through the District Leprosy staff, who also, in course of their tours delivered 85 lectures with magic lanterns and 663 without magic lanterns on different aspects of the diseases with a specific view to persuade people to attend treatment centres regularly.

Treatment—The total number of cases undergoing treatment during the year was 5,970. For want of facilities there has been some fall in attendance at the dispensary clinics. The association sanctioned the cost of repairs of the Banki Dispensary clinic as a special case. In spite of the limited financial resources available with the Association some more clinic sheds have been constructed in addition to the usual maintenance of the existing sheds.

The total number of leprosy clinics now working throughout the Province is 188 as against 183 functioned during the last year. Out of 188 clinics, 42 have been opened in remote rural areas where there is no medical aid available and hospitals or dispensaries are far away from the infected village. These clinics are entirely managed by the Provincial Leprosy Relief Association. The Leprosy Assistants appointed by the Association have been placed in charge of the clinics. Treatment is usually given by them once or twice a week according to the number of patients coming forth.

A list of such rural clinics in each district is given below :—

- (a) Cuttack—Cuttack Leper Asylum, Chitalo, Gramanandipur, Derabisi, Barua, Balia, Kalakala and Sujanpur.
- (b) Puri—Janla, Tapang, Delang, Haladia, Ghoradia, Katini and Kaipadara
- (c) Ganjam—Padampur, Bhabanda, Ballipadaro, Bishnuchakra, Seshapur, Lati and Paralakimedi.
- (d) Koraput—Jagannathpur, Kujundri, Boriguma, Churahandi, Bamini, Maliguda, Chakunda, Vasuda Matuphilagrain and Charala.
- (e) Sambalpur—Bheran, Bijepur, Junani and Bargarh
- (f) Balasore—Khanthapara, Haladipada, Sebarang, Bampada and Rupsa

As a result of the treatment given at various leprosy clinics in the Province 4,215 cases have been found with definite improvement and 694 cases have been found sign free as against 4,149 and 740 of the previous year, respectively.

Isolation—Survey and propaganda are only methods of enlightening the staff and the public on the magnitude of the problem and the scientific truth of the disease. Even treatment has limited value in so far as it cannot by itself eradicate the evil from the community. Isolation is the only known method to tackle the problem in the right direction.

Isolation can be effected in institutions, homes and villages. Isolation in institutions such as Leper colonies and asylums is undoubtedly in ideal method of segregating infectious lepers, but want of funds is a great handicap. Though the initial and the recurring expenses of a well equipped Leper asylum, such as the one at Cuttack, are prohibitive, institutional segregation should be given effect to at the first instance when circumstances favour. Next comes home isolation, which, if properly done, can solve the problem to some extent. Home isolation has very limited scope and is not universally successful owing to many practical difficulties in ordinary Indian homes. Due to low economic condition or lack of perfect appreciation, the principles of isolation are often violated at homes.

The third method is isolation in villages. This method which provides an isolation shed at the outskirts of a village or a group of villages, would solve the problem to a great extent. In the first place construction of sheds involves comparatively a small expenditure. In the second place it is nearer to the house of the patient and obviates any sense of total separation from the family. In course of time the village isolation centres can conveniently be converted into small leper colonies as funds permit. The Association since its inception has been able to establish 8 such small leper colonies at the following places and 114 infective cases have been segregated therein.

Place or name of the colony			accommodation available
1. Cuttack	..	(1) Chitalo	10 (This colony is temporarily suspended)
		(2) Kalakala	12
2. Puri	..	(3) Trivedi Leper Colony at Janla	10
3. Ganjam	..	(4) Lati	20
		(5) Paralakimedi	6
4. Balasore	..	(6) Lewis Leper Colony	20
5. Sambalpur	..	(7) Junani Leper Colony	30
		(8) Bargarh	6
			114

The Trivedi Leper Colony at Janla is a model colony being set up from a nucleus originally designed to accommodate 10 patients. The model colony, when fully established, will accommodate isolation of almost all the infective cases within a jurisdiction of 5 miles around. About 40 cases are estimated to be segregated and provision has been made accordingly. The colony is expected to start functioning shortly. The Provincial Government have been pleased to grant Rs. 10,000 towards the initial expenditure and the Central Council has agreed to meet the recurring expenditure to be involved in segregating 40 patients. The results of this model institution will be watched after ten years.

With regard to other leper colonies, stated above, the Association pays capitation grant of Rs. 5 per head per month and the local committee or the District Leprosy Council concerned meets the rest of the expenditure.

Seth Abdul Rahim Osman has most generously provided funds for the construction of a clinic shed for the patients of Muslim, Hindu and other communities who gather at the Pir of Hazrat Sayed Julaluddin Bokhari at Kaipodora with the belief of being cured of leprosy by prayer. The Sethji meets also the feeding charges of these patients. The clinic has started functioning from December 1st. The Sethji has also promised to construct a building for the establishment of a colony to accommodate 50 infective lepers in the neighbourhood of Kaipodora and to meet the cost of maintenance entirely. The Provincial Leprosy Relief Association will help him by lending a leprosy assistant with necessary drugs and equipments. Arrangements are already in progress for the construction of the proposed colony.

The leper colony at Gunupur in Koraput, the construction of which has since been completed, is expected to function during the current year. The District Council has already raised necessary funds for the purpose. The Council has also taken over the building belonging to Public Works Department on the banks of the Indrabati near Nowrangpur and has been devising ways and means to establish a colony there. This is a suitable place and will be the nucleus of the future colony in Koraput district.

There is a fairly large leper settlement at Hatigarh in the district of Balasore. At this colony the Leper population is more than 100. Many of the patients have practically settled with their families in this colony and maintain themselves by cultivation and daily wages and a few depend upon local charity. The Provincial Government contribute Rs. 1,200 to this colony for treatment and the Provincial Association give a grant of Rs. 400.

As many as 6,983 infective lepers have been detected so far, and it is essential that adequate hospitalisation is provided for them to ensure effective control of the disease. As a post-war measure there is a provision for hospitalisation of 300 patients in each of the districts and it is hoped that the problem can be solved to some extent when the scheme is given effect to.

Hydnocarpous plantation—A small plantation of *Hydnocarpous* is under experiment in Haripur reserve forest (Puri district). There are 57 plants reared in an acre of land. The progress of growth and fruiting is being watched to see how far the cultivation can be taken up on a commercial scale. The Divisional Forest Officer is in charge of this plantation.

District Councils—The District Councils of Ganjam, Sambalpur and Balasore have been doing satisfactory work. The District Council of Koraput has improved by collecting about Rs. 4,500. The District Council, Cuttack has been recently reconstituted. The District Council, Puri needs improvement.

Executive Committee—Lt. Col., A. N. Chopra, O.B.E., I.M.S., Director of Health and Inspector-General of Prisons, Orissa continued to be the *ex-officio* Chairman of the Executive Committee during the year under review except from the 23rd July 1946 to the 16th October 1946 when Rai Saheb Dr. B. Naik, M.B., D.P.H., was in charge of the Chairmanship as the former was on leave outside the Province. Rao Sahib Dr. B. Misra, M.B., B.S., continued to be the *ex-officio* Honorary Secretary and Honorary Treasurer during the whole year.

Business Meetings—The Executive Committee met three times during the year to conduct the business of the Association.

Finance—Besides the usual annual grant of Rs. 17,000 the Association received a sum of Rs. 10,000 from the Provincial Government towards the initial expenditure on account of the construction of the Trivedi Leper Colony. The British Empire Leprosy Relief Association (Indian Council) also paid Rs. 1,137-8-0 during the year excluding the amount of Rs. 5,110 paid already for one year's running expenses of the Trivedi Leper Colony.

Life Members—The number of life members has increased from 18 to 28 during the year.

The Association hopes to increase the number of life and ordinary members.

Financial Position—The existing finance of the Association is inadequate even to expand its normal activities. The Provincial Government have been approached to sanction the scheme, on anti-leprosy work on permanent basis and to increase their annual contribution from Rs. 17,000 to 27,000. Government have also been requested to sanction an additional amount of Rs. 10,000 to cover the deficit for the year 1945-46. A favourable response from Government and the public will improve the financial position to some extent.

RECEIPTS				EXPENDITURE			
Subscription from—							
		Rs.	a. p.			Rs.	a. p.
1. (a) Life member ..	1,100	0	0	1. Pay and allowance of the staff	14,822	0	0
(b) Ordinary member ..	85	0	0	2. Travelling allowance on transfer of staff.	17	3	0
2. Grant from the Orissa Government during 1946-47.	17,000	0	0	3. Grant-in-aid of clinics ..	256	0	0
3. Grant from B. E. L. R. A., New Delhi.	1,137	8	0	4. Drugs and equipments ..	3,531	4	6
4. Fixed deposit withdrawn from Imperial Bank.	15,684	12	0	5. Colony ..	18,543	5	6
5. Three per cent defence loan bonds of 46 withdrawn from Imperial Bank including premium of Rs. 112-8-0.	15,112	8	0	6. Furniture and stationery ..	430	0	0
6. Interest received from Defence Bond and other investment.	236	3	0	7. Loan granted to Cuttack L. A. on the 13th March 1947.	600	0	0
7. Refund of pat, etc. ..	100	6	0	8. Propaganda ..	52	0	0
8. Interest of postal S. B. Deposit account for 1945-46.	77	8	0	9. Printing charges ..	263	4	0
9. Postal S. B. deposit withdrawn	2,628	0	0	10. Contingency of honorary Secretary and honorary Treasurer.	199	10	0
10. Interest of fixed deposit in Imperial Bank.	231	12	0	11. Contingency of D. L. E. Os. ..	1,145	15	0
11. Amount withdrawn from the current account of I. B. including uncashed cheques of Rs. 1,509-10-6, dated the 12th March 1947 and the 27th March 1947 (which are not encashed by the end of March 1947).	37,235	5	3	12. (a) Excess payment made to D. L. E. O., Balasore on the 27th March 1947.	0	0	3
Total ..	90,628	14	3	13. Deposit on P. S. B. Act ..	77	8	0
				14. Amount deposited in I. B. ..	50,455	0	0
				15. Amount with honorary Secretary out of amount withdrawn from P. S. B. account on the 21st August 1946.	0	5	0
				16. Short credit out of Rs. 100 deposited in I. B. on the 19th July 1946 to be recovered from I. B.	0	6	0
				17. Deposit in fixed deposit in Imperial Bank.	231	12	0
				Total ..	90,628	14	3

General—The fundamental requirements of the campaign to be successful, are adequate strength of trained personnel, buildings, equipment, drugs, etc., necessary funds and extravagant expenditure could have secured the strength of men and material needed, the limited resources of the Association cannot entertain any laxity nor can we liberally count upon external financial assistance. We are grateful to the official and non-official members who have readily responded to the needs of the Association. We are indebted to Seth Abdul Rohim Osman for the humanitarian project he has undertaken at Kaipodora. We look forward to similar support from the generous rich.

The services rendered by Mahammad Abdur Rawf Khan, Junior Inspector of Co-operative Societies are acknowledged with thanks.

The Association is greatly indebted to His Excellency the President for inspiration and support, it has always derived from him.

A. N. CHOPRA Lt.-Col., O.B.E., I.M.S.,
Chairman, Executive Committee

Rao Sahib Dr. B. Misro,
Hony. Secretary and Honorary Treasurer

St. John Ambulance Brigade-working of No. XIX district (of which the Director of Health and Inspector-General of Prisons, Orissa, is the Assistant Commissioner).

The year 1946 opened with 30 Divisions in the District No. 19. Although the end of War, which brought relief of a long struggle, was likely to create an easing tendency in the members, yet the Divisions engaged themselves enthusiastically in the day to day emergencies.

Activities—The Cuttack Divisions attended the Bali Jatra festival which is held on the Bank of river Mahanadi. It is a popular festival and attracts a large number of people from the town and suburbs. The members helped the Health Department in keeping the place in good sanitary condition and in reducing public nuisance. Cholera was apprehended to be imported from Dhabaleswar, a nearby place where a festival had just preceded Bali Jatra and where the epidemic threatened to break and spread out. The members kept keen vigilance over the sale of food stuffs and discouraged purchase of articles exposed to flies and dust. They persuaded the pilgrims not to drink water from polluted sources.

They established a First aid Camp in the festival area. About 20 minor injuries were treated. About 30 persons were given water to drink. One unconscious person was taken to the General Hospital for treatment. Some lost children were restored to their parents.

The Cuttack Divisions No. I and II and the Puri Divisions worked in connection with the Puri Car festivals. The festivals attract a huge number of pilgrims from every corner of the country. The assemblage is unwieldy, the rush uncontrollable and the number of accidents not too small. The members kept the atmosphere cool by sprinkling water and helped greatly in controlling the rush. They gave water to the thirsty and first-aid to the sick and injured. Special mention may be of some suspected cholera cases which the members attended on promptly and arranged to send them to the hospital immediately.

The members of the Cuttack Division No. II gave a good account of work in saving three boys from drowning, giving first-aid to seven persons injured in affray cases and helping in the cremation of destitute dead bodies. A man who had epilepsy was found drowned in a tank. He was rescued, given first-aid and sent to the hospital by car.

The Koraput Division helped on two occasions in removing out persons from houses on fire.

The Cadet and Nursing Divisions attended on the sick in hostels and at residences

2. All the Divisions met regularly. Their medical members and those who hold medallions gave instruction in First-aid and Home Nursing. They also helped practice performances occasionally.

General Parades—The Divisions held general parades for inspection by the Presidents and the Chief Commissioner. Their turn-out was creditable on every occasion.

3. **Training**—Courses in First-aid and Home Nursing were arranged all over the Province. During the year 483 were trained in First-aid bringing the total to 3,124 in First-aid and 323 in Home Nursing. The members of the Medical Department rendered voluntary service in training and examining the candidates.

In some quarters there was an impression that the organisation was meant to work during war and as the war is over there is nothing more to be done. This impression was removed by personnel talks and the Divisions were in full enthusiasm and spirit.

4. **Constitution**—His Excellency the Governor and Lady Trivedi took charge of the Presidentship from Sir Hawthorn and Lady Lewis. On place of Mr. S. C. Tripathy, O.B.E., I.E.S., Mr. C. M. Wright-Neville, I. P., is the District Superintendent, Major P. L. O'Neill, I.M.S. succeeded Major R. T. Hicks, O.B.E., I.M.S. as the District Surgeon.

5. **Annual Competition**—This was held accompanied by inspection by the new Presidents, His Excellency the Governor and Lady Trivedi. The lady President gave away the prizes as mentioned below:—

- | | | |
|-----------------------------------|-------|--|
| 1. Lewis Shield | .. .. | Cuttack (Emergency Police Force No. I), Ambulance Division |
| 2. Runners-Up-Cup of Lewis Shield | .. .. | Cuttack (Ambulance) Division No. I |
| 3. Rupkumari Shield | .. .. | Ravenshaw Girls' School Nursing Division and St. Joseph's Convent School Cadet Nursing Division (for six months each). |
| 4. Open competition Shield | | Cuttack (Ambulance) Division No. I |
| 5. Cadet Cup | .. .. | St. Joseph's Convent School, Cadet Nursing Division |

6. **Acknowledgment**—The district remains grateful to one and all who have sympathised and endeavoured to further its cause. The members experienced new zeal under the Presidentship of His Excellency the Governor and Lady Trivedi. The untiring effort and personal interest which Lady Trivedi had been showing in the cause of humanitarian services had greatly inspired the workers in the field. With the inspiration and light from the New Presidents, the District hopes to be a head always.

ANNUAL FORM NO. I— *Births registered in the*

1	2	3			4		
No.	District	Population for which returns were received			Number of births registered		
		Male	Female	Total	Male	Female	Total
1	Cuttack	1,085,016	1,180,546	2,265,561	38,630	31,617	65,247
2	Balasore	506,541	520,889	1,027,430	15,571	14,806	30,377
3	Puri	581,494	570,445	1,151,939	16,861	15,655	32,516
4	Sambalpur	580,808	601,814	1,182,622	16,455	15,885	31,840
5	Angul	81,816	88,980	165,866	3,065	2,729	5,794
6	Khondmals	42,579	44,200	86,779	1,874	1,224	2,598
7	Ganjam Plains	637,148	755,040	1,392,188	23,757	22,089	45,846
AGENCY DISTRICTS.							
8	Ganjam	158,757	168,645	327,402	706	611	1,317
9	Koraput	21,036	20,648	41,686	446	410	856
Total of Agency districts ..		179,793	189,293	369,086	1,152	1,021	2,173
Total for the Province ...		8,647,206	8,941,207	17,588,413	111,865	104,526	216,391

DIX I

districts of Orissa Province during the year 1946

5			6			No.
Ratio of births 1,000 of estimated mid year population.			Mean ratio of births per 1,000 during previous five years.			
Male	Female	Total	Male	Female	Total	
14.54	19.66	28.20	16.79	15.70	32.49	
14.82	14.10	28.92	16.04	14.92	30.96	
14.82	13.76	28.58	16.04	15.01	31.05	
13.21	12.36	25.57	15.85	15.16	31.01	
17.08	15.21	32.21	18.56	17.80	36.36	
15.41	19.72	29.13	16.78	16.58	33.36	
16.41	15.26	31.67	17.58	16.60	34.1	
2.00	1.74	3.74	3.88	3.60	7.48	
9.08	8.34	17.42	8.07	7.26	15.33	
2.87	2.54	5.41	4.36	4.01	8.37	
14.23	18.29	27.52	16.08	15.11	31.19	

ANNUAL FORM NO. I-A—Births registered according to class in each town

1	2			3		
	Christians			Hindus		
	Male	Female	Total	Male	Female	Total
CUTTACK						
Cuttack town	33	32	65	1,167	1,114	2,281
Kendrapara town	...	...	...	121	126	247
Jajpur town	...	...	...	68	53	121
Total of towns	33	32	65	1,356	1,293	2,649
Total of rural	...	...	...	31,472	29,641	61,113
Total of district	33	32	65	32,828	30,934	63,462
BALASORE						
Balasore town	...	...	...	74	75	149
Total of rural	13	18	31	14,719	14,067	28,786
Total of district	13	18	31	14,793	14,142	28,935
PURI						
Puri town	2	...	2	702	645	1,347
Total of rural	11	2	13	15,810	14,753	30,563
Total of district	13	2	15	16,512	15,398	31,910
SAMBALPUR						
Sambalpur town	...	...	...	100	103	203
Total of rural	...	1	1	16,352	15,277	31,629
Total of district	...	1	1	16,452	15,380	31,832
ANGUL						
Total of rural	...	...	...	3,064	2,729	5,793
Total of district	...	...	...	3,064	2,729	5,793
KHONDMALS						
Total of rural	...	...	...	947	819	1,766
Total of district	...	...	...	947	819	1,766
GANJAM PLAINS						
Berhampur town	16	17	33	859	799	1,658
Parlakimedi town	...	1	1	349	293	642
Total of towns	16	18	34	...	1,092	2,300
Total of rural	13	14	27	22,349	20,771	43,120
Total of district	31	32	63	23,557	21,863	45,420
AGENCY DISTRICTS						
Ganjam	...	1	1	708	610	1,318
Koraput	3	9	12	421	375	796
Total of Agency districts	3	10	13	1,124	985	2,109
Total for the Province	Towns	51	50	101	8,440	8,448
	Rural	47	45	92	105,837	99,042
	Districts	98	95	193	109,277	107,490

DIX I—*contd.*

and rural areas in the districts of Orissa Province during the year 1946

4			5			6			7		
Muhammadans			Buddhists			Other classes			Total		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
211	182	393	...	...	...	...	...	...	1,411	1,28	2,690
42	48	90	...	...	...	...	...	...	1,46	174	357
13	8	21	...	...	...	...	...	...	81	61	142
206	238	504	...	...	...	...	...	...	1,655	1,563	3,218
53	413	916	...	...	...	...	...	...	81,975	80,054	62,029
769	651	1,420	...	...	...	...	...	...	33,630	31,617	65,247
21	14	35	...	...	...	...	...	...	95	82	184
493	891	684	...	...	...	246	241	487	15,476	14,717	30,193
514	405	919	...	...	...	246	241	487	15,571	14,806	30,377
13	5	18	...	...	...	...	...	...	717	650	1,367
323	250	573	...	...	...	...	...	...	16,144	15,005	31,149
336	255	691	...	...	...	...	...	...	16,861	15,605	32,516
1	...	1	...	...	...	...	...	...	101	103	204
2	4	6	...	...	...	...	...	...	16,854	15,282	31,636
3	4	7	...	...	...	...	...	...	16,453	15,385	31,840
1	...	1	...	...	...	...	...	...	8,065	2,729	5,794
1	...	1	...	...	...	...	...	...	8,065	2,729	5,794
...	...	...	...	...	...	427	405	832	1,374	1,224	2,598
...	...	...	...	...	...	427	405	832	1,374	1,224	2,598
25	26	51	...	...	...	94	108	202	594	900	1,944
1	2	3	...	...	...	...	...	...	850	596	646
26	28	54	...	...	...	94	108	202	1,344	1,246	2,590
4	2	6	...	...	...	45	56	101	22,413	20,848	43,256
30	30	60	...	...	...	139	164	303	22,757	22,089	45,846
3	...	3	...	...	...	...	...	...	706	611	1,317
12	8	20	...	...	...	10	18	28	416	410	856
15	8	23	...	...	...	10	18	28	1,152	1,011	2,173
327	285	612	...	...	...	94	108	202	3,912	3,651	7,603
1,341	1,068	2,409	...	...	...	728	720	1,448	107,953	100,975	208,828
1,668	1,353	3,021	...	...	...	822	823	1,650	111,865	104,526	216,991

ANNUAL FORM NO. IB—Still births registered according to class in each town

1				2			3		
Registering circle				Christians			Hindus		
				Male	Female	Total	Male	Female	Total
CUTTACK									
Cuttack town
Kendrapara town	3	3	6
Jajpur town
Total of towns	3	3	6
Total of rural	2,538	2,127	4,665
Total of district	2,541	2,130	4,671
BALASORE									
Balasore town	2	2
Total of rural	1,150	970	2,120
Total of district	1,159	972	2,131
PURI									
Puri town	43	71	114
Total of rural	1,468	1,196	2,664
Total of district	1,511	1,267	2,768
SAMBALPUR									
Sambalpur town	1	..	1
Total of rural	64	66	130
Total of district	65	66	131
ANGUL									
Total of rural	34	25	59
Total of district	34	25	59
KHONDMAHS									
Total of rural	14	11	25
Total of district	14	11	25
GANJAM PLAINS									
Berhampur town	20	17	37
Parlakimedi town	5	7	12
Total of towns	25	24	49
Total of rural	150	120	270
Total of district	175	144	319
AGENCY DISTRICTS									
Ganjam	8	8	16
Koraput	10	5	15
Total of Agency districts	18	13	31
Total for the Province									
Towns				72	100	172
Rural				5,445	4,525	10,145
Districts				5,517	4,628	9,973

DIX I—contd.

and rural areas in the districts of Orissa Province during the year 1946

4			5			6			7		
Muhammadans			Buddhists			Other classes			Total		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
...
1	...	1	...	...	...	...	...	...	4	3	7
...
1	...	1	...	...	...	...	...	..	4	3	7
15	9	24	...	...	...	...	...	...	2,559	2,126	4,689
16	9	25	...	...	...	...	...	...	2,557	2,199	4,756
...	...	...	...	...	...	...	...	...	...	2	2
...	..	..	...	...	...	...	...	...	1,159	970	2,129
...	..	...	...	...	...	...	...	...	1,159	972	2,131
...	...	...	...	...	...	...	...	...	43	71	114
5	6	11	...	...	...	...	...	...	1,473	1,302	2,775
5	6	11	...	...	...	...	...	...	1,516	1,273	2,789
...	...	...	...	...	...	...	...	...	1	..	1
...	...	...	...	...	...	..	...	...	64	66	130
...	...	...	...	...	...	...	...	...	65	65	131
...	...	...	...	...	...	...	...	...	34	25	59
...	...	...	...	...	...	...	...	...	34	25	59
...	...	...	...	...	...	16	5	21	30	16	46
...	...	...	...	...	...	16	5	21	30	16	46
...	1	1	...	...	...	3	1	4	23	19	42
1	...	1	...	...	...	...	...	...	6	7	13
1	1	2	...	...	...	3	1	4	29	26	55
...	...	...	...	...	...	19	15	34	169	135	304
1	1	2	...	...	...	22	10	32	198	161	359
...	...	...	...	...	...	2	1	3	10	9	19
..	..	..	...	...	...	4	3	7	14	8	22
...	..	..	...	...	...	6	4	10	24	17	41
2	1	3	...	...	...	3	1	4	77	102	179
20	15	35	...	...	...	41	24	65	5,506	4,667	10,173
22	16	38	...	...	...	44	25	69	5,513	4,669	10,182

ANNUAL FORM No. II.—Statement of deaths registered

1	2	3	4	5		
No.	Districts	Area in square miles	Average population per square mile	Number of deaths registered		
				Male	Female	Total
1	Cuttack	3,654	620	24,506	32,949	68,455
2	Balasore	2,194	469	14,022	18,019	27,941
3	Puri	2,492	442	14,812	13,863	26,175
4	Sambalpur	5,419	218	14,548	13,073	27,621
5	Angul	831	188	1,807	1,824	8,676
6	Khondmals	600	108	1,209	1,011	2,220
7	Ganjam Plains	8,815	402	14,148	13,424	17,572
AGENCY DISTRICTS						
8	Ganjam	3,022	107	704	551	1,255
9	Koraput	117	856	271	212	483
Total of Agency districts		8,139	116	975	763	1,738
Total for the Province		21,894	847	95,522	97,826	187,848

DIX-I - contd.

in the districts of Orissa Province during the year 1946

6								7					
Death rate per 1,000 of population from—								Mean ratio of deaths per 1,000 during previous five years					
Cholera	Smallpox	Plague	Fever	Dysentery and diarrhoea	Respiratory diseases	Injuries	All other causes	All causes			Male	Female	Total
								Male	Female	Total			
1.61	1.45	...	14.92	3.64	0.53	0.40	7.04	80.90	28.35	29.59	38.76	28.62	29.39
1.39	0.82	..	18.18	0.50	0.38	0.47	5.65	26.78	26.62	26.51	30.75	30.67	30.7
0.62	0.90	...	11.83	1.09	0.72	0.85	8.35	26.10	28.62	24.76	30.98	29.40	30.1
0.7	0.93	...	12.63	0.87	0.91	0.20	5.86	23.77	20.65	22.19	20.10	21.76	20.15
0.39	0.20	...	16.24	0.23	0.07	0.03	2.54	20.27	20.16	20.21	25.82	23.66	24.72
0.04	0.02	...	22.12	0.13	0.28	0.71	1.57	27.58	22.29	24.89	30.66	29.25	29.74
0.22	0.11	...	9.09	1.16	0.90	0.31	7.34	21.21	17.20	19.04	31.32	26.24	28.56
0.01	0.01	...	1.67	0.24	0.22	0.03	1.38	4.06	3.08	3.56	7.21	6.09	6.58
..	0.4	...	4.54	1.00	0.31	0.10	3.87	10.89	8.75	9.83	15.15	13.74	13.00
0.01	0.01	...	2.02	0.33	2.32	0.04	1.63	4.91	3.76	4.33	8.11	6.93	7.50
0.92	0.9	...	12.94	1.80	0.60	0.38	6.47	25.16	25.58	25.83	28.74	20.57	27.76

ANNUAL FORM NO. III—Deaths registered in the districts of

1	2	3	4	5	6	7	8
No.	Districts	Population	January	February	March	April	May
1	Cuttack district ... { Urban ...	97,359	230	247	184	206	180
	Rural ...	2,168,262	8,495	6,530	5,901	5,763	5,310
	Total ...	2,265,661	8,725	6,777	6,085	5,971	5,490
2	Balasore district ... { Urban ...	19,405	20	26	16	11	11
	Rural ...	1,010,025	2,731	2,165	3,521	2,783	2,025
	Total ...	1,029,430	2,751	2,191	3,537	2,794	2,036
3	Puri district ... { Urban ...	41,055	228	193	154	101	97
	Rural ...	1,060,884	2,797	2,367	2,290	2,505	2,488
	Total ...	1,101,939	3,025	2,560	2,444	2,606	2,585
4	Sambalpur district ... { Urban ...	17,079	20	22	5	10	17
	Rural ...	1,165,548	2,317	1,882	2,494	2,677	2,676
	Total ...	1,182,622	2,337	1,904	2,499	2,687	2,693
5	Angul Subdivision ... { Rural ...	165,866	328	338	361	355	317
	Total ...	165,866	328	338	361	355	317
6	Khondmale subdivision { Rural ...	86,779	135	171	208	261	238
	Total ...	86,779	135	171	208	261	238
7	Ganjam district (Plains) ... { Urban ...	64,578	137	130	133	131	120
	Rural ...	1,327,610	2,280	1,931	2,511	2,415	2,010
	Total ...	1,392,188	2,417	2,061	2,644	2,546	2,130
AGENCY DISTRICTS							
8	Ganjam ...	322,402	124	115	158	92	97
9	Koraput ...	41,686	36	50	38	45	40
	Total of Agency districts ...	864,088	160	165	196	137	137
	Total of the Province { Urban ...	239,476	635	618	492	459	425
	Rural ...	7,848,997	19,243	15,549	17,482	16,89	15,401
	Total ...	7,588,473	19,878	16,167	17,974	17,357	15,826
	Ratio per 1,000 of { Urban ...	...	2.52	2.46	1.96	1.82	1.69
	population, { Rural ...	...	2.53	2.04	2.30	2.22	2.02
	Total ...	...	2.53	2.06	2.29	2.21	2.01

DIX I—contd.

Orissa Province during each month of the year 1946

9	10	11	12	13	14	15	16	17
June	July	August	September	October	November	December	Total deaths registered during the year	No.
162	166	218	245	205	199	251	2,458	1
4,131	8,855	3,989	4,864	4,822	5,748	6,557	65,967	
4,298	4,021	4,202	5,109	5,027	5,947	6,808	68,455	
11	17	13	11	11	13	22	182	2
1,593	1,753	1,671	1,990	2,023	2,628	2,909	27,739	
1,574	1,772	1,684	2,001	2,034	2,636	2,931	27,941	
89	122	139	117	122	184	188	1,034	3
2,066	2,150	1,969	1,869	1,736	1,939	2,365	26,541	
2,155	2,272	2,108	1,986	1,858	2,073	2,503	28,175	
19	15	10	35	20	10	20	203	4
2,06	2,212	2,291	2,212	1,946	1,776	2,667	27,418	
2,087	2,227	2,301	2,247	1,966	1,786	2,697	27,621	
277	225	311	286	250	257	319	3,626	5
277	225	311	288	250	257	319	3,626	
163	153	192	193	178	159	172	2,220	
163	155	192	193	178	159	172	2,220	6
108	120	134	124	131	127	127	1,522	
1,615	2,246	2,539	2,238	2,048	2,001	2,166	26,050	
1,773	2,366	2,673	2,362	2,179	2,128	2,298	27,572	7
76	105	67	101	101	96	103	1,255	
30	41	52	33	37	41	40	488	
106	146	139	134	138	137	148	1,798	8
289	440	509	582	489	483	558	6,029	
12,089	12,744	13,101	13,788	13,136	14,640	17,258	181,319	
12,428	13,184	13,610	14,320	13,625	15,123	17,856	187,348	9
1.55	1.75	2.02	2.11	1.94	.92	2.22	23.97	
1.58	1.67	1.72	1.81	1.79	1.92	2.27	29.82	
1.58	1.68	1.73	1.83	1.73	1.92	2.27	23.83	

ANNUAL FORM No. IV—Deaths registered according to age in th

1	2		Deaths under							
No.	District.		Not exceeding one month						Total of columns 3 and 6.	
			Male			Female				
			Under one week	Over one week	Total	Under one week	Over one week	Total		
			1	2	3	4	5	6		7
1	Cuttack district	Urban ..	148	39	187	105	50	133	320	
		Rural ..	1,657	1,210	2,867	1,193	1,135	2,328	5,195	
		Total ..	1,805	1,249	3,054	1,298	1,185	2,483	5,515	
2	Belasore district	Urban ..	2	..	2	5	2	7	9	
		Rural ..	863	654	1,517	615	657	1,272	2,789	
		Total ..	865	654	1,519	620	659	1,279	2,798	
3	Puri district	Urban ..	63	35	100	50	18	68	168	
		Rural ..	850	711	1,561	732	661	1,393	2,954	
		Total ..	913	746	1,659	782	679	1,461	3,122	
4	Sambalpur district	Urban ..	5	4	9	8	6	9	18	
		Rural ..	846	863	1,709	632	630	1,262	2,971	
		Total ..	851	867	1,718	640	636	1,276	2,989	
5	Angul subdivision	Rural ..	120	104	226	71	107	178	404	
		Total ..	120	104	226	71	107	178	404	
6	Khondmals subdivision	Rural ..	73	51	124	43	38	81	205	
		Total ..	73	51	124	43	38	81	205	
7	Gangam district (Plains)	Urban ..	30	22	52	21	24	45	97	
		Rural ..	1,025	651	1,676	876	635	1,511	3,187	
		Total ..	1,055	673	1,728	897	659	1,556	3,284	
AGENCY DISTRICTS										
8	Gajjam .. ..	..	52	32	84	40	24	64	248
9	Koraput .. ..	..	17	6	23	12	3	15	38
Total of Agency districts ..			69	38	107	52	27	79	186	
Total for the Province			Urban ..	250	109	359	182	80	262	612
			Rural ..	5,543	4,282	9,825	4,214	3,890	8,104	17,889
			Total ..	5,793	4,391	10,185	4,396	3,970	8,366	18,511

DIX I - contd.

districts of Orissa Province during the year 19 .

3

one year

Over one month and not exceeding six months.			Over six months and not exceeding twelve months.			Total male columns 3, 8 and 11.	Total female columns 4, 9 and 12.	Total	No.
Male	Female	Total	Male	Female	Total				
8	9	10	11	12	13	4	15	16	
57	51	108	26	25	50	270	20	478	1
2,507	2,332	4,839	949	10	1,879	6,333	5,578	11,911	
2,504	2,393	4,897	985	944	1,929	6,508	5,796	12,304	
3	2	5	2	1	3	7	10	17	2
1,154	1,003	2,157	461	410	871	8,132	2,08	6,817	
1,57	1,005	2,572	493	411	904	8,139	2,095	6,834	
64	49	113	22	25	47	186	141	327	3
944	851	1,795	408	398	806	2,913	2,642	5,555	
1,008	900	1,908	435	42	857	8,099	2,783	5,582	
5	2	7	2	3	5	16	14	30	4
966	833	1,799	471	419	890	3,146	2,514	5,660	
971	835	1,806	473	422	895	3,162	2,528	5,690	
162	154	316	91	95	186	477	427	904	5
162	154	316	91	95	186	477	427	904	
108	88	196	67	50	117	209	219	518	
108	88	196	67	50	117	209	219	518	6
45	34	79	85	33	118	192	112	244	
649	530	1,179	420	493	913	2,745	2,524	5,269	
694	564	1,258	455	516	971	2,877	2,686	5,563	7
29	21	50	28	13	41	196	103	299	
9	11	20	6	6	12	38	32	70	
38	32	70	29	24	53	174	135	309	8
174	138	312	87	85	172	611	485	1,096	
6,528	5,833	12,361	2,906	2,799	5,705	19,219	16,734	35,953	
6,762	5,971	12,733	2,993	2,884	5,877	19,880	17,319	37,199	9

ANNUAL FORM No. IV—Deaths registered according to age in the

1	2	3	4	5	6						
No.	District	1 year and under 5 years		5 years and under 10 years		10 years and under 15 years		15 years and under 20 years			
		Male	Female	Male	Female	Male	Female	Male	Female		
1	Cuttack district ...	Urban ...	104	77	45	42	25	41	66	61	
		Rural ...	4,460	4,580	1,910	1,677	1,002	911	1,246	1,396	
		Total ...	4,564	4,757	1,955	1,719	1,027	972	1,312	1,456	
2	Balasore district ...	Urban ...	5	4	1	2	1	3	..	6	
		Rural ...	1,166	1,388	626	626	441	369	473	537	
		Total ...	1,171	1,392	627	628	442	372	473	543	
3	Puri district ...	Urban ...	52	43	38	24	23	14	19	15	
		Rural ...	1,689	1,873	625	674	406	410	436	448	
		Total ...	1,741	1,921	663	698	429	424	455	461	
4	Sambalpur district ...	Urban ...	7	14	4	5	2	2	6	4	
		Rural ...	2,209	1,919	876	800	498	459	552	555	
		Total ...	2,206	1,933	880	805	500	461	558	559	
5	Angul sub-division ...	Rural ...	304	313	135	114	58	79	76	53	
		Total ...	304	313	135	114	58	79	76	53	
6	Khondmals ..	Rural ...	176	160	49	35	32	27	23	28	
		Total ...	176	160	49	35	32	27	23	28	
7	Ganjam district (Plains)	Urban ...	61	49	45	43	26	10	17	20	
		Rural ...	2,183	1,764	787	687	692	628	766	854	
		Total ...	2,244	1,813	832	730	718	643	783	874	
AGENCY DISTRICTS											
8	Ganjam ...		125	92	86	28	34	25	8	82	
9	Koraput ...		27	26	8	10	11	9	14	15	
Total of Agency districts ...			152	118	44	38	45	34	50	47	
Total for the Province...			Urban ...	229	192	133	116	67	80	168	104
			Rural ...	12,389	12,175	5,052	4,651	3,174	2,732	3,642	3,917
			Total ...	1,2618	12,367	5,185	4,767	3,241	3,012	3,750	4,021

DIX I—contd.

districts of Orissa Province during the year 1946.

7		8		9		10		11		12
20 years and under 30 years.		30 years and under 40 years.		40 years and under 50 years.		50 years and under 60 years.		60 years and upwards.		No.
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
171	144	155	126	144	77	147	70	250	255	1
3,019	3,400	3,667	3,077	2,829	2,255	3,184	3,022	6,069	6,768	
3,195	3,604	3,222	3,203	2,973	2,332	3,331	3,092	6,819	7,018	
12	7	28	14	16	4	20	6	22	14	2
1,234	1,627	1,597	1,599	1,751	1,373	1,617	1,525	1,873	2,220	
1,246	1,634	1,525	1,613	1,767	1,377	1,637	1,531	1,895	2,234	
61	60	76	67	119	71	100	97	227	195	3
1,165	1,379	1,290	1,164	1,350	1,090	1,571	1,495	1,903	1,958	
1,229	1,439	1,366	1,231	1,469	1,161	1,671	1,592	2,190	2,153	
8	11	20	9	18	8	12	17	18	8	4
999	1,186	1,310	1,120	1,275	969	1,863	1,250	2,149	2,149	
1,007	1,197	1,230	1,129	1,293	977	1,875	1,267	2,167	2,157	
84	113	183	141	160	101	119	144	256	339	5
84	113	183	141	160	101	119	144	256	339	
76	60	110	100	124	101	128	129	182	152	
76	60	110	100	124	101	128	129	182	152	6
46	51	83	85	103	91	129	107	148	154	
1,703	1,583	772	701	633	589	644	644	2,433	2,723	7
1,749	1,634	855	786	736	680	773	751	2,581	2,877	
83	68	35	23	29	16	84	30	156	184	8
96	21	31	21	33	13	28	18	45	47	9
119	89	66	44	62	29	62	48	201	181	
801	273	962	201	409	251	408	297	665	626	
8,399	9,497	8,345	7,946	8,184	6,507	8,688	8,257	15,156	16,485	
8,700	9,770	8,707	8,247	8,584	6,758	9,096	8,554	15,791	17,111	

ANNUAL FORM No. IV-A—Deaths under one year registered according to class in each town

1				2			3		
Registering circle				Christians			Hindus		
				Male	Female	Total	Male	Female	Total
CUTTACK									
Cuttack town	...	...	...	1	3	4	197	131	328
Kendrapara town	...	...	...	...	...	...	42	35	77
Jajpur town	...	...	...	...	..	..	11	15	26
Total of towns	...	...	...	1	3	4	250	181	431
Total of rural	...	...	...	...	..	...	6,280	5,539	11,819
Total of district	...	...	...	1	3	4	6,530	5,720	12,250
BALASORE									
Balasore town	...	...	...	...	...	...	7	10	17
Total of rural	...	...	...	...	...	...	3,069	2,642	5,731
Total of district	...	...	...	...	...	...	3,096	2,652	5,748
PURI									
Puri town	...	...	...	...	...	...	186	141	327
Total of rural	...	...	...	...	...	...	2,885	2,621	5,506
Total of district	...	...	...	...	...	...	3,071	2,762	5,833
SAMBALPUR									
Sambalpur town	...	...	...	...	...	...	16	14	30
Total of rural	...	...	...	...	...	...	3,146	2,514	5,660
Total of district	...	...	...	...	...	...	3,162	2,528	5,690
ANORL									
Total of rural	...	...	...	...	...	...	477	427	904
Total of district	...	...	...	...	...	...	477	427	904

DIX I—contd.

and rural areas in the districts of Orissa Province during the year 1946—contd.

4			5			6			7		
Muhammadans			Buddhists			Other classes			Total		
Male.	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
17	20	37	...	...	...	...	...	...	215	154	869
2	4	6	...	...	...	...	...	...	44	39	83
...	...	...	...	...	...	...	...	...	11	15	26
19	24	43	...	...	...	...	...	...	270	208	478
53	49	102	...	...	...	...	...	...	6,333	5,568	11,921
72	73	145	...	...	...	...	...	...	6,603	5,796	12,399
...	...	...	...	...	...	...	...	...	7	10	17
43	43	86	...	...	...	...	...	...	3,132	2,685	5,817
43	43	86	...	...	...	...	...	...	3,139	2,695	5,834
...	...	...	...	...	...	...	...	...	186	141	827
28	21	49	...	...	...	...	...	...	2,913	2,642	5,555
28	21	49	...	...	...	...	...	...	3,099	2,733	5,832
...	...	...	...	...	...	...	...	...	16	14	30
...	...	...	...	...	...	...	...	...	3,146	2,514	5,660
...	...	...	...	...	...	...	...	...	3,162	2,528	5,690
...	...	...	...	...	...	...	...	...	477	427	904
...	...	...	...	...	...	...	...	...	477	427	904

ANNUAL FORM No. IV-A—Deaths under one year registered according to class in each town

1	2	3	3			
Registering circle	Christians			Hindus		
	Male	Female	Total	Male	Female	Total
KHONDIMALA						
Total of rural	219	166	385
Total of district	219	166	385
GANJAM PLAINS						
Berhampur town	..	2	2	65	60	125
Parlakimedi town	43	30	73
Total of towns	..	2	2	108	90	198
Total of rural	2,220	2,110	4,330
Total of district	..	2	2	2,328	2,200	4,528
AGENCY DISTRICTS						
Ganjam	130	99	229
Koraput	30	25	55
Total of Agency districts	160	124	284
Towns						
Total for the Province	..	3	3	567	436	1,003
Rural						
Districts						
Total						
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DIX I—contd.

and rural areas in the districts of Orissa Province during the year 1946—contd.

[illegible]

ANNUAL FORM No. V—Deaths registered according to class

1	2	3											
No.	Districts	Number of deaths											
		Christian			Hindu			Muhammedan			Buddhist		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	Cuttack ...	31	18	49	33,679	33,168	66,847	794	760	1,554	...	...	...
2	Balasore ...	15	20	35	13,472	13,434	26,906	894	348	737	...	...	...
3	Puri ...	5	6	11	14,067	13,549	27,613	240	211	451	...	...	...
4	Sambalpur ...	18	16	20	14,516	13,047	27,563	19	10	29	...	...	...
5	Angul ...	1	...	..	1,797	1,819	3,616	4	5	9	...	...	...
6	Khondmals ...	1	1	2	808	767	1,479	2	1	3	...	...	...
7	Ganjam Plains ...	31	32	63	23,557	21,863	45,420	80	30	60	...	...	...
AGENCY DISTRICTS													
	Ganjam ...	..	1	1	703	610	1,313	3	...	3	...	...	...
	Koraput ...	3	9	12	421	375	796	12	8	20	...	...	...
	Total of Agency districts ...	3	10	13	1,124	985	2,109	15	8	23	...	...	...
	Total for the Province ...	98	95	193	109,277	102,250	211,527	1,668	1,353	3,021	...	...	...

DIX-contd.

in the districts of Orissa Province during the year 1946

4																	
registered			Ratio of deaths per 1,000 of population														
Other class			Christian			Hindu			Muhammadian			Buddhist			Other class		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2	3	5	24.11	11.10	16.87	32.19	29.52	30.81	22.29	19.10	2.09	...	...	...	0.06	0.09	0.07
141	122	263	16.39	22.99	19.61	27.85	27.55	27.70	20.42	18.18	19.31	...	...	...	7.22	6.30	...
...	...	...	9.23	9.19	9.20	27.48	24.60	25.99	17.37	14.83	16.08	...	...	...	...	...	...
...	...	...	3.16	5.30	4.81	33.33	20.12	31.19	6.83	3.83	5.38	...	...	...	...	...	...
...	...	...	8.85	...	5.85	22.85	22.79	24.35	14.81	25.51	19.61	...	...	...	...	...	...
408	338	736	14.49	20.86	19.23	111.71	94.65	110.95	100.00	100.00	100.00	...	...	...	11.02	8.72	9.35
139	164	303	18.20	12.05	15.07	22.28	17.89	19.90	18.22	13.82	13.73	...	...	...	6.05	6.07	6.06
...	...	...	0.95	...	0.46	60.63	51.09	56.04	...	...	...	...	...	...	0.05	0.03	0.06
10	18	28	5.00	6.70	5.80	17.96	14.98	16.50	7.29	2.89	5.28	...	...	...	0.78	0.82	0.55
10	18	28	2.93	3.61	2.97	37.12	31.00	24.15	6.19	2.69	4.67	...	...	...	0.88	0.08	0.63
822	828	1,650	9.69	8.00	8.83	31.18	23.08	27.41	19.97	17.96	18.59	...	...	...	1.63	1.40	1.51

APPENDIX I—contd.

ANNUAL FORM NO. V-A—Deaths rate according to class, urban and rural areas separately in each districts of Orissa Province during the year 1946

S. N.	District			Christians	Hindus	Muhammadans	Buddhists	Other Class	Total	
1	2			3	4	5	6	7	8	
1	Cuttack	...	{ Urban ... Rural ...	18.11 12.52	25.48 30.99	1.56 21.83	.. ...	2.95 0.02	22.20 29.84
2	Balasore	..	{ Urban .. Rural ..	7.79 24.37	10.58 27.95	5.50 21.18	.. ..	.. 0.89	8.99 26.95
3	Puri	..	{ Urban .. Rural ..	.. 11.94	38.85 25.46	15.23 16.10	.. ..	.. ..	38.07 24.24
4	Sambalpur	..	{ Urban .. Rural ..	15.82 4.20	13.43 31.49	1.43 6.77	.. ..	.. ..	11.17 2.35
5	Angul	..	{ Urban .. Rural ..	.. 5.85	.. 24.35	.. 19.31	.. ..	.. ..	.. 20.21
6	Khondmals	..	{ Urban .. Rural ..	.. 19.23	.. 110.95	.. 100.00	.. ..	.. 9.85	.. 24.89
7	Ganjam Plains	..	{ Urban .. Rural ..	18.52 13.38	19.99 19.90	26.41 5.45	.. ..	145.59 4.10	22.32 18.89
AGENCY DISTRICTS										
8	Ganjam	..	{ Urban .. Rural ..	.. 0.46	.. 52.04	.. ..	.. ..	.. 0.36	.. 3.56
9	Koraput	..	{ Urban ... Rural ..	.. 5.80	.. 16.50	.. 5.28	.. ..	.. 0.55	.. 9.83
Total of Agency Districts.				{ Urban .. Rural ..	.. 2.97	.. 24.15	- 4.67	.. 0.63	.. 4.33
Total for the Province.				{ Urban .. Rural ..	15.58 6.89	25.00 27.49	13.60 19.50	24.21 1.34	23.97 23.82

APPENDIX I
Annual form No. VI

ANNUAL FORM NO. VI—Deaths registered from different causes in the

1	2	3			4			5			6	7	8	9	10	
S. No.	District and Town.	Population for which returns were received			Births			Birth rate			Cholera	Smallpox	Plague	Fever	Dysentery and Diarrhoea	Respiratory diseases
		Male	Female	Total	Male	Female	Total	Male	Female	Total						
AGENCY DISTRICT																
1	Cuttack ..	1,031,682	1,136,520	2,168,202	31,975	30,654	62,629	14'46	13'59	28'05	3,671	3,328	...	33,748	8,147	1,124
2	Balasore ..	498,009	511,016	1,010,025	15,476	14,717	30,193	15'42	14'29	29'31	1,469	835	...	19,017	481	64
3	Puri ..	508,789	552,065	1,060,854	16,144	15,975	32,119	14'75	13'70	28'45	674	1,011	...	13,098	2,060	732
4	Sambalpur ..	573,288	593,355	1,166,643	16,354	15,282	31,636	13'38	12'46	25'79	896	1,149	...	15,682	1,055	1,117
5	Angul ..	81,886	83,980	165,866	3,065	2,729	5,794	17'08	15'21	32'21	70	35	...	2,904	41	13
6	Khondmals ..	42,579	44,300	86,879	1,374	1,224	2,598	15'41	13'72	29'13	4	2	...	1,064	12	35
7	Ganjam Plains	604,791	722,819	1,327,610	22,413	20,843	43,256	16'25	15'11	31'36	314	88	...	12,752	1,528	1,140
AGENCY DISTRICT																
8	Ganjam ..	156,757	163,646	320,402	706	611	1,317	2'10	1'74	3'74	5	3	...	539	83	78
9	Koraput ..	21,038	20,648	41,686	446	440	886	9'08	8'34	17'42	..	5	...	225	49	15
	Total of Agency District.	179,795	184,293	364,088	1,152	1,021	2,173	2'37	2'54	5'41	5	5	...	811	132	93
	Total for the Province.	3,519,519	3,823,178	7,342,697	107,953	100,875	208,828	14'18	13'25	27'43	7,093	5,993	...	90,086	13,466	4,322
TOWN CUTTACK DISTRICT																
1	Cuttack ...	41,559	32,701	74,261	1,411	61,328	2,739	7'84	16'78	34'62	49	3	..	432	191	61
2	Kendrapara...	6,016	5,864	11,880	163	174	337	14'19	15'15	29'34	3	2	..	216	37	41
3	Jaipur ..	5,727	5,461	11,188	81	61	142	7'96	5'37	13'33	..	1	..	113	33	8
BALASORE DISTRICT																
4	Balasore ..	10,532	8,873	19,405	95	89	184	4'69	4'40	9'09	2	..	..	81	89	25
PURI DISTRICT																
5	Puri ..	22,705	17,350	40,055	717	650	1,367	16'10	15'15	31'25	34	7	..	353	213	93
SAMBALPUR DISTRICT																
6	Sambalpur ..	8,520	8,539	17,059	101	103	204	5'55	5'07	11'22	12	10	..	163	256	17
GANJAM DISTRICT																
7	Berhampur ..	21,984	21,553	43,536	994	950	1,944	21'32	20'37	41'09	7	58	..	313	112	132
8	Parlakemidi ..	10,373	10,069	20,442	350	295	645	16'23	13'73	29'96	..	16	..	95	4	32
	Total for all towns.	125,447	112,029	237,476	3,912	3,651	7,563	15'56	14'5	30'06	116	87	..	1,73	691	469
	Total for the Province.	3,647,366	3,941,207	7,588,573	111,865	104,526	216,391	14'23	13'29	27'52	7,209	6,090	..	101,727	14,157	4,731

DIX I—contd.

districts and towns of Orissa Province during the year 1946

12						13	14			15													
Injuries						All other causes	Total deaths from all causes			Ratio of deaths per 1,000 of population													
Suicide		Wounds or accidents	Snake bite or killed by wild animals	Falls &c.	Total		Male	Female	Total	Bubonic	Septic	Plague	Fever	Dysentery and Diarrhoea	Respiratory diseases	Injuries	All other causes	From all causes				Mean of previous five years	%
Male	Female																	Male	Female	Total	Male			Female	Total
129	23	310	163	13	895	15,037	33,119	32,848	65,967	1.66	1.51	...	15.26	3.68	0.51	0.40	6.80	31.27	28.31	29.84	30.73	1	
76	99	165	109	31	480	5,923	13,510	13,849	27,729	1.42	0.36	...	18.46	0.46	0.06	0.47	5.75	27.10	26.78	26.95	26.21	2	
46	72	174	78	22	392	8,514	13,408	13,133	26,541	0.62	0.12	...	11.06	1.88	0.67	0.35	7.83	25.26	23.03	24.24	30.23	3	
83	17	131	50	18	255	7,264	14,437	12,981	27,818	0.73	0.94	...	12.78	0.81	0.91	0.20	5.92	23.04	21.81	22.35	25.07	4	
13	23	33	23	1	98	450	1,902	1,824	3,626	0.39	0.29	...	16.24	0.23	0.07	0.05	5.54	10.27	20.16	20.21	23.2	5	
5	1	12	36	9	63	140	1,209	1,012	2,220	0.04	0.12	...	22.02	0.13	0.18	0.71	1.37	27.56	22.29	4.69	25.54	6	
21	58	82	9	16	285	9,933	13,338	12,692	26,030	0.23	0.06	...	9.25	1.12	0.83	0.20	7.20	21.2	16.99	18.89	29.83	7	
1	1	4	5	...	11	480	704	271	975	0.01	0.01	...	1.67	0.24	0.22	0.03	1.38	4.06	8.08	3.56	5.38	8	
...	...	3	...	2	5	190	551	210	763	...	0.04	...	4.54	1.00	0.31	0.10	3.67	10.89	8.75	9.83	14.25	9	
1	1	7	5	2	16	676	1,355	483	1,738	0.01	0.01	...	2.02	0.33	2.72	0.04	1.68	4.91	3.76	4.33	6.42	...	
224	589	914	563	142	2,487	48,002	62,218	89,101	181,319	0.93	0.78	...	13.14	1.77	0.57	0.33	6.31	25.18	22.56	25.82	28.42	...	
1	...	6	2	...	9	1,106	1,075	706	11,371	0.62	0.04	...	5.71	24.14	0.68	0.11	13.98	24.22	22.92	23.65	23.41	1	
1	...	4	2	...	7	120	213	213	426	0.26	0.17	...	18.80	3.22	3.57	0.60	1.04	36.11	38.12	37.09	36.63	2	
1	...	...	1	1	3	24	99	92	191	0.78	0.09	...	9.86	2.88	0.70	0.26	2.09	16.59	16.75	16.67	18.65	3
1	1	16	1	...	19	16	112	70	182	0.98	...	...	4.09	1.92	1.24	0.04	0.79	10.42	7.37	8.99	11.42	4
1	1	14	...	...	16	915	904	730	1,634	0.79	0.16	...	8.30	4.96	2.17	0.37	2.13	38.03	33.17	38.07	40.66	5
...	...	1	...	1	2	34	111	92	203	0.66	0.55	...	5.67	1.38	0.94	0.11	1.87	12.41	9.97	11.17	16.59	6	
1	1	10	3	1	16	514	506	551	1,157	0.15	1.24	...	6.82	2.40	2.82	0.34	1.10	24.99	24.63	24.12	28.91	7	
...	2	2	2	...	6	175	194	171	365	...	0.74	...	4.41	1.00	1.48	0.27	0.81	7.09	15.37	16.03	20.40	8	
6	5	53	11	8	78	2,004	3,304	2,725	6,029	0.46	0.39	...	6.89	2.75	1.63	0.31	11.54	24.19	23.24	22.97	21.16	9	
330	544	967	579	145	2,565	20,001	95,522	91,836	187,348	0.92	0.79	...	12.94	1.80	0.60	0.33	6.47	5.16	25.58	23.83	23.40	10	

ANNUAL FORM NO. VI-A—Deaths registered from different kinds

Municipalities	Malaria	Enteric fever	Measles	Relapsing fever (Spirochaeta)	Kala azar	Influenza	Cerebro spinal fever	Typhus fever	Black-water fever	Other fevers	Dysentery	Diarrhoea
1	2	3	4	5	6	7	8	9	10	11	12	13
CUTTACK DISTRICT												
1 Cuttack ..	15	...	...	...	...	...	...	26	...	403	61	100
2 Kendrapara ..	216	...	...	...	...	...	...	..	...	...	37	...
3 Jajpur ..	113	...	...	...	...	...	..	...	...	...	33	..
BALASORE DISTRICT												
4 Balasore ..	81	...	...	...	...	...	...	...	...	...	39	...
PURI DISTRICT												
5 Puri ..	13	...	..	...	...	...	...	...	...	843	104	109
SAMBALPUR DISTRICT												
6 Sambalpur ..	64	5	...	1	...	3	...	3	...	27	21	4
GANJAM DISTRICT												
7 Berhampur ..	37	15	...	...	...	18	...	...	...	248	44	68
8 Parlakimedi ..	15	9	8	...	...	...	...	...	...	51	18	23

DIX I—contd.

of fevers, dysentery, diarrhoea, respiratory diseases and other causes

Pneumonia	Pulmonary tuberculosis	Whooping cough	Other respiratory diseases	Beri-beri	Acute poliomyelitis	Diphtheria	Chicken-pox	Mumps	Tuberculosis of joints	Other tubercular diseases	Leprosy	Cancer	Deaths from child-birth	Deaths under one year	Infantile mortality rate per 1,000 births
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
..	...	..	61	..	...	...	1	..	...	..	12	7	14	369	134.71
21	...	...	20	...	...	...	...	...	...	..	...	..	7	88	246.25
..	1	...	7	...	...	...	...	...	...	..	...	...	..	26	183.10
...	...	...	11	...	...	...	...	...	...	...	...	...	2	17	92.39
30	...	...	56	...	...	...	...	...	...	7	30	4	13	327	289.21
1	...	2	22	...	...	...	1	...	...	..	2	...	1	80	147.06
44	...	...	67	...	...	...	...	...	...	21	9	8	16	171	87.96
13	7	...	12	6	...	...	...	...	...	...	...	...	4	73	113.00

ANNUAL FORM NO. VII—Deaths registered from cholera in the

1	2	3	4	5									
Serial No.	District	Circles of registration		Villages		January	February	March	April	May	June	July	
		Number in each district.	Number from which deaths from cholera were reported	Number in each district	Number from which deaths from cholera were reported								
1	Cuttack ...	18	13	5,760	1,051	448	545	840	235	131	95	126	
2	Balasore ...	10	10	3,426	401	13	239	596	246	121	48	78	
3	Puri ...	6	6	2,913	309	19	138	202	29	50	32	120	
4	Sambalpur ...	27	12	2,595	325	2	21	73	127	415	183	61	
5	Angul ..	5	1	473	9	...	33	25	1	...	4	...	
6	Khondmals ...	4	1	1,219	1	...	..	...	3	...	...	...
7	Ganjam plains ...	9	9	2,615	58	4	7	77	50	82	27	52	
AGENCY DISTRICTS													
8	Ganjam ...	4	2	2,415	3	...	2	3	...	...	...	...
9	Koraput ...	7	..	8	..	...	...	...	...	...	...	...
Total of Agency districts...		11	25	2,423	3	...	2	3	...	...	...	...
Total for the Province ...		85	54	21,424	2,167	486	985	1,622	691	799	389	437	

DIX I—contd.

districts of Orissa Province during each month of the year 1946

					6			7			8	1
August	September	October	November	December	Total			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 of previous five years	Serial No.
					Male	Female	Total	Male	Female	Total		
131	363	334	416	262	1,740	1,992	3,732	1.56	1.66	1.61	1.46	1
31	11	14	59	5	762	699	1,461	1.43	1.23	1.39	2.27	2
63	16	9	3	27	328	360	708	0.60	0.64	0.62	2.12	3
12	8	...	1	5	413	493	908	0.51	0.78	0.73	1.09	4
...	...	6	...	1	86	34	70	0.40	0.37	0.39	0.60	5
...	1	...	...	...	4	...	4	0.09	..	0.04	0.03	6
22	...	...	...	..	163	138	321	0.27	0.18	0.22	1.50	7
...	..	...	...	...	3	2	5	0.02	0.01	0.01	0.14	8
...	...	...	...	...	...	...	..	..	..	..	0.47	9
...	..	...	...	..	3	2	5	0.02	0.01	0.01	0.18	
259	399	363	479	300	3,409	3,740	7,209	0.91	0.92	0.92	1.68	

ANNUAL FORM NO. VIII—Deaths registered from smallpox in the districts

1	2	3		4		5					
Serial No.	Districts.	Circles of registration		Villages		January	February	March	April	May	June
		Number in each district	Number from which deaths from smallpox were reported	Number in each district	Number from which deaths from smallpox were reported						
1	Cuttack ..	18	13	5,760	1,143	544	537	580	651	408	231
2	Balasore ..	10	10	3,456	150	49	26	85	98	24	15
3	Puri ..	6	6	2,913	632	183	162	183	149	110	68
4	Sambalpur ..	27	25	2,595	714	44	52	103	158	199	183
5	Angul ..	5	3	473	26	9	1	1	4	6	3
6	Khondmals ..	4	1	1,219	2	..	..	..	1	..	..
7	Ganjam Plains ..	9	9	2,615	154	42	41	20	19	11	1
AGENCY DISTRICTS.											
8	Ganjam ..	4	1	2,415	2	..	..	..	..	2	..
9	Koraput ..	7	2	8	4	..	..	..	1	1	..
Total of Agency districts.		11	3	2,423	6	..	..	..	1	3	..
Total for the Province		85	70	21,424	2,827	871	819	922	1,081	961	601

D.XI—contd.

of Orissa Province during each month of the year 1946

						6			7		8			9	1
July	August	September	October	November	December	Total			Number of deaths among children		Ratio of deaths per 1,000 of population			Mean ratio per 1,000 of previous five years	Serial No.
						Male	Female	Total	Under one year	One year and under 10 years	Male	Female	Total		
155	82	75	36	36	39	1,623	1,721	3,344	273	711	1.45	1.44	1.45	1.35	1
14	14	2	1	8	4	157	178	335	58	62	0.29	0.34	0.32	1.49	2
48	42	41	28	34	20	459	529	1,018	55	211	0.89	0.90	0.90	0.71	3
181	108	66	30	20	15	607	552	1,159	108	190	0.99	0.87	0.93	0.67	4
5	4	2	..	..	..	14	21	35	5	5	0.16	0.23	0.20	0.13	5
..	..	1	..	..	..	1	1	2	2	..	0.02	0.02	0.02	0.12	6
10	2	2	..	1	4	60	102	162	21	41	0.09	0.13	0.11	0.43	7
1	..	..	..	..	..	3	..	3	..	..	0.02	..	0.01	0.10	8
..	..	..	..	..	..	..	2	2	..	..	..	0.08	0.04	0.60	9
1	..	..	..	..	..	3	2	5	..	..	0.02	0.01	0.01	0.16	
393	252	189	95	94	82	2,954	3,105	6,060	522	1,220	0.78	0.76	0.79	0.90	

ANNUAL FORM NO. IX—Deaths registered from fevers in the district

1	2	3	4	5	6	7	8	9	10	11	12	13
Serial No.	Districts	Circles of registration.		Villages		January	February	March	April	May	June	July
		Number in each district	Number from which deaths from fevers were reported	Number in each district	Number from which deaths from fevers were reported							
1	Cuttack ...	13	18	5,760	6,943	4,510	3,324	2,654	2,013	2,682	2,107	1,899
2	Balasore ...	10	10	3,426	3,304	1,982	1,402	2,000	1,771	1,297	1,037	1,214
3	Puri ...	6	6	2,913	2,835	1,491	1,130	1,128	1,220	1,162	935	991
4	Sambalpur ...	27	27	2,595	2,350	1,383	1,057	1,445	1,596	1,365	995	1,162
5	Angul ...	5	5	473	466	281	268	205	302	248	220	168
6	Khondmals ...	4	4	1,219	1,094	132	160	196	237	199	146	142
7	Ganjam Plains ...	9	9	2,615	1,235	1,332	841	1,171	1,007	1,095	769	1,174
AGENCY DISTRICTS												
8	Ganjam Agency ...	4	4	2,415	359	67	46	64	43	51	38	40
9	Koraput ...	7	6	8	163	25	25	22	25	17	9	12
Total of Agency districts ...		11	10	2,423	513	92	71	86	68	68	42	52
Total for the Province ...		65	84	21,420	18,146	11,203	8,153	9,025	9,054	8,136	6,321	6,802

DIX I—contd.

of Orissa Province during each month of the year 1946

Annual Report of the Government of Orissa for the year 1946-47

					6			7			8	1
August	September	October	November	December	Total.			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 of previous five years	Serial No.
					Male	Female	Total	Male	Female	Total		
2,130	2,561	2,738	3,281	3,835	16,962	17,567	34,529	14.93	14.67	14.92	14.19	1
1,158	1,416	1,589	1,948	2,234	9,594	9,504	19,098	18.33	18.00	18.18	19.09	2
912	952	952	1,144	1,267	6,745	6,709	13,454	12.80	11.88	11.83	13.57	3
1,257	1,624	1,269	1,155	1,807	8,038	7,747	15,785	13.30	12.24	12.68	13.95	4
257	224	188	209	264	1,442	1,472	2,914	16.22	16.27	16.24	18.52	5
177	137	149	113	156	1,060	904	1,964	24.18	19.93	22.05	26.47	6
1,272	1,366	1,438	984	1,118	7,029	6,136	13,165	10.54	7.56	9.09	17.29	7
44	59	50	47	45	346	243	589	1.99	1.36	1.67	3.71	8
19	12	19	16	21	124	98	222	4.98	4.04	4.54	5.95	9
63	71	69	63	66	470	341	811	2.87	1.68	2.02	3.97	
7,253	8,071	7,956	8,897	10,947	51,340	50,380	101,720	13.52	13.39	12.94	15.04	

ANNUAL FORM NO. X—Deaths registered from dysentery and diarrhoea in the districts

1	2	3	4	5									
Serial No.	Districts	Circles of registration		Villages		January	February	March	April	May	June	July	
		Number in each district.	Number from which deaths from dysentery and diarrhoea were reported.	Number in each district.	Number from which deaths from dysentery and diarrhoea were reported.								
1	Cuttack	...	13	18	5,760	3,807	979	732	688	736	633	637	549
2	Balasore	...	10	10	3,426	166	49	36	71	51	42	21	22
3	Puri	...	6	6	2,913	1,049	203	194	180	183	212	188	187
4	Sambalpur	...	27	25	2,595	617	88	95	109	93	118	89	94
5	Angul	...	5	5	473	59	1	4	8	7	4	5	2
6	Khondmals	...	4	4	1,219	9	..	...	...	..	3	5	...
7	Ganjam Plains	...	9	9	2,615	462	65	85	74	257	220	145	244
AGENCY DISTRICTS													
8	Ganjam	...	4	4	2,415	57	1	1	3	8	14	6	15
9	Koraput	...	7	6	8	42	2	8	3	3	5	8	8
Total of agency districts			11	10	2,423	99	3	4	6	11	19	9	23
Total for the Province			85	82	21,424	5,768	1,387	1,150	1,131	1,344	1,251	1,099	1,112

DIX I—contd.

of Orissa Province during each month of the year 1946

					6			7			8	9
August	September	October	November	December	Total			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 of previous five years.	Serial No.
					Male	Female	Total	Male	Female	Total		
590	680	614	739	845	4,640	3,768	8,408	4.16	3.15	8.64	3.87	1
33	38	38	52	68	293	227	520	0.56	0.43	0.50	0.59	2
202	218	192	185	173	1,237	1,036	2,273	2.26	1.75	1.99	3.12	3
120	103	68	41	62	610	470	1,080	1.00	0.74	0.87	1.40	4
2	6	2	...	...	20	21	41	0.22	0.23	0.23	0.14	5
...	...	1	2	1	4	8	12	0.09	0.18	1.18	0.12	6
57	73	76	196	99	890	601	1,691	1.88	1.03	1.16	2.33	7
5	2	7	11	10	48	35	83	0.28	0.20	0.24	0.26	8
8	5	2	7	...	32	17	49	1.29	0.70	1.00	2.03	9
13	7	9	18	10	80	52	132	0.40	0.2	0.38	0.47	
1,117	1,125	1,000	1,183	1,258	7,774	6,383	14,157	2.05	1.57	1.80	2.41	

ANNUAL FORM No. XI—*Death registered from Respiratory disease in the Districts of*

1	2	3	4	5								
Serial No.	Districts	Circles of registration		Villages		January	February	March	April	May	June	July
		Number in each district.	Number from which deaths from respiratory diseases were reported.	Number in each district.	Number from which deaths from respiratory diseases were reported.							
1	Cuttack	1	13	5,700	1,039	142	104	129	90	119	17	90
2	Balasore	10	10	3,426	42	9	7	13	7	4	4	9
3	Puri	6	6	2,913	426	94	81	61	63	73	77	62
4	Sambalpur	27	26	2,595	715	80	90	98	114	113	85	104
5	Angul	1	4	478	12	1	...	3	1	...	1	1
6	Khondmals	4	3	1,219	56	...	...	...	...	...	...	...
7	Ganjam Plains	9	9	2,615	680	102	215	159	187	70	82	89
8	AGENCY DISTRICTS											
8	Genjam	4	4	2,415	43	7	13	13	11	4	2	6
9	Koraput	7	3	8	5	1	..	..	1	2	2	1
10	Total of Agency districts	11	7	2,423	48	8	13	13	12	6	4	7
	Total of the Province	85	78	21,414	2,988	466	516	476	474	385	360	362

DIX I—Contd.

Orissa Province during each month of the year 1946

					6			7			8	1
August	September	October	November	December	Total			Ratio of deaths per 1,000 of population.			Mean ratio per 1,000 of previous five years.	Serial No.
					Male	Female	Total	Male	Female	Total		
92	84	84	99	98	695	543	1,238	0.62	0.45	0.53	0.58	1
7	7	1	4	17	55	34	89	0.10	0.06	0.08	0.09	2
66	56	61	59	72	484	341	825	0.88	0.58	0.72	0.89	3
94	102	83	81	84	749	385	1,134	1.20	0.61	0.91	1.09	4
1	3	2	...	...	6	7	13	0.07	0.08	0.07	0.07	5
...	...	5	30	...	23	12	35	0.52	0.26	0.28	0.02	6
91	49	57	83	57	620	683	1,304	0.93	0.88	0.90	0.62	7
3	2	3	7	7	41	37	78	0.24	0.21	0.22	0.16	8
4	1	..	2	1	11	4	15	0.44	0.17	0.31	0.85	9
7	3	3	9	8	5	41	93	0.26	0.20	2.32	0.24	
361	334	296	365	326	2,681	2,047	4,731	0.71	0.50	0.60	0.61	

APPENDIX II

PROVINCIAL

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

Compulsory registration area	Population according to census of 1941	Probable number of births at the rate of 250 per 1,000 married women in each the ages of 15 and 49.	Actual number of births registered during the year.	Fraternal birth rate per mile (columns 2 and 3).	Registered birth-rate per mile during the year.	Number of deaths registered during the year.		Death rate per mile.		Number of persons prosecuted under Act IV (B. C.) of 1883.	Number of persons convicted.
						Including deaths in dispensary.	Excluding deaths in dispensary.	Including deaths in dispensary.	Excluding deaths in dispensary.		
1	2	3	4	5	6	7	8	9	10	11	12
Cuttack	74,291	..	2,739	..	34.62	2,335	1,871	29.49	23.65	..	..
Kendrapara	11,880	..	337	..	19.34	467	426	47.81	37.09	..	..
Jajpur	11,168	..	142	..	12.38	198	191	17.28	16.67	..	..
Balasore	19,465	..	184	..	9.09	267	182	13.19	8.99	..	..
Puri	41,055	..	1,367	..	31.86	1,965	1,634	46.48	38.01	..	..
Sambalpur	17,079	..	204	..	11.22	272	233	14.96	11.17	..	..
Bahampur	43,756	..	1,944	..	41.69	1,239	1,157	16.53	24.82	..	..
Parlakimedi	51,002	..	646	..	29.06	307	305	18.41	16.63	..	..
Total	219,470	..	7,363	..	30.0	7,168	6,620	28.43	25.97	..	..

APPENDIX III

Table showing the results of the experiments on the effect of the different doses of the vaccine on the development of the disease.

Dose of vaccine	No. of animals	Results of the experiments				Results of the experiments			
		1st dose	2nd dose	3rd dose	4th dose	1st dose	2nd dose	3rd dose	4th dose
1	10	1	2	3	4	1	2	3	4
2	10	1	2	3	4	1	2	3	4
3	10	1	2	3	4	1	2	3	4
4	10	1	2	3	4	1	2	3	4
5	10	1	2	3	4	1	2	3	4
6	10	1	2	3	4	1	2	3	4
7	10	1	2	3	4	1	2	3	4
8	10	1	2	3	4	1	2	3	4
9	10	1	2	3	4	1	2	3	4
10	10	1	2	3	4	1	2	3	4
11	10	1	2	3	4	1	2	3	4
12	10	1	2	3	4	1	2	3	4
13	10	1	2	3	4	1	2	3	4
14	10	1	2	3	4	1	2	3	4
15	10	1	2	3	4	1	2	3	4
16	10	1	2	3	4	1	2	3	4
17	10	1	2	3	4	1	2	3	4
18	10	1	2	3	4	1	2	3	4
19	10	1	2	3	4	1	2	3	4
20	10	1	2	3	4	1	2	3	4

APPENDIX III

Table showing health services in rural and urban

Rural areas.											
District	Board	Medical Officers of Health				Epidemic staff.	Sanitary and Health Inspectors.	Vaccinators		School Medical Officers.	Other Health staff.
		Holding D. P. H.		Licentiate L. P. H.				Male	Female		
		Whole time.	Part time.	Whole time.	Part time.						
1		2	3	4	5	6	7	8	9	10	11
Cuttack	...	1	...	..	...	4	13	74	...	...	..
Angul	1	7	...	...	1
Balasore	...	1	...	...	...	...	10	68	...	...	9
Puri	...	1	...	...	...	4	10	34	9	...	25
Sambalpur	3	..	2	1	...	...	...
Ganjam plains	...	1	...	..	...	...	8	30	4	...	1
Ganjam Agency	4	18	...	...	...
Khondmals	4	1	...	...	...
Koraput	1	...	...	13	25	2	...	...
Orissa Province	...	4	...	1	3	8	65	258	15	...	36

DIX III.

areas of Orissa Province during the year 1946.

Urban areas											
Municipalities	Medical Officers of Health				Sanitary and Health Inspectors.	Vaccinators		Inspector of Vaccination.	School Medical Officers.	Other Health Staff.	
	Holding D. P. H.		Licentiates L. P. H.			Male	Female				
	Whole time.	Part time.	Whole time.	Part time.							
12	13	14	15	16	17	18	19	20	21	22	
{ Cuttack ...	1	...	...	...	7	2	1	...	...	...
	...	...	...	...	..	1	...	...	...	2
	...	...	...	...	1	...	...	...	...	...
Balasore ...	...	...	...	...	1	1	...	...	...	1
Puri ...	1	...	...	4	1	1	1	...	...	..
Sambalpur ...	...	...	...	..	2	1	...	...	...	...
{ Berhampur ...	...	...	1 ^{1/2}	...	5	2	..	...	...	3
	...	...	...	...	1	1	...	...	...	...
...	
...	2	...	1	4	18	9	2	...	..	6

APPENDIX IV

Table showing maternity and child-welfare centres, health visitors and trained midwives in rural and urban areas in Orissa during 1946

District	Maternity and child welfare												Remarks
	Centres maintained by—						Trained visitors		Trained midwives		Trained daïs		
	Government		Local and municipal bodies.		Other agencies								
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Cuttack	1	...	..	...	1	12	13	
Balasore	2	1	...	...	...	...	...	...	2	4	
Puri	1	1	...	...	...	...	...	1	1	6	
Sambalpur	1	...	1	...	...	...	1	...	1	
Ganjam	1	..	...	..	...	..	1	...	6	...	
Koraput	1	3	...	...	...	...	13	7	
Total	4	3	1	5	...	...	1	3	34	31	

Vaccination

STATEMENT No. I

STATEMENT NO. I.—Showing vaccination in the

Serial Number	District	Midyear population	Total number of persons vaccinated			Primary		
			Male	Female	Total	Total	Under one year	
1	2	3	4	5	6	7	8	
1	Cuttack	{ District excluding towns ... Towns ...	2,210,895 102,053	235,766 11,874	93,009 5,766	328,875 87,609	57,788 1,910	2,996 308
2	Balasore	{ District excluding towns ... Towns ...	1,020,897 20,237	96,572 1,770	58,633 1,304	155,205 3,074	23,040 112	1,876 14
3	Puri	{ District excluding towns ... Towns ...	1,094,644 42,916	178,733 2,466	80,218 1,809	188,951 4,275	31,240 821	1,608 79
4	Sambalpur	{ District excluding towns ... Towns ...	1,726,850 18,178	32,310 1,853	16,287 711	48,597 2,564	10,523 342	11,673 72
5	Angul	...	179,417	9,631	5,143	15,174	4,614	2,58
6	Khondmals	...	89,179	4,893	3,321	8,214	2,407	983
7	Ganjam	{ District excluding towns ... Towns ...	1,373,322 68,178	124,638 25,702	98,250 19,674	222,888 44,376	43,046 2,424	12,923 845
8	Koraput	...	491,245	41,935	36,007	77,942	29,614	2,691
Total of Vaccine Department.		{ District excluding towns ... Towns ... Total ...	7,611,455 251,566 7,863,021	653,508 43,665 697,173	591,758 28,264 620,022	1,044,926 71,929 1,116,855	207,711 5,669 213,380	38,330 1,718 40,048
		Jails	...	5,944	246	6,190	77	11
		Total of Railway Dispensary	...	235	40	255	17	7
Cooly Depot		...	2,507	1,199	3,646	...	...
Grand Total		...	7,863,021	705,919	620,047	1,126,966	213,414	40,066

districts of Orissa during the year 1946

vaccination				Re-vaccination			Percentage of successful cases in which the results were known		Number of all successful vaccinations and re-vaccinations performed by the vaccination staff only.	REMARKS
Successful				Total	Successful	Unknown	Primary	Re-vaccination		
One year and under five years	Five year and under ten years	Total of all ages	Unknown							
9	10	11	12	13	14	15	16	17	18	
31,621	14,171	49,083	6,152	271,017	91,177	122,217	96.23	65.04	146,465	
1,171	93	1,569	173	15,730	3,411	3,598	90.32	28.11	4,980	
17,323	1,505	21,759	1,162	137,160	93,243	26,883	99.46	88.57	115,022	
98	...	112	...	2,962	1,741	43	100.00	50.07	1,822	
14,462	5,534	21,924	8,943	157,702	53,396	81,157	96.36	60.94	75,010	
648	92	519	...	5,414	236	171	99.76	7.40	1,055	
3,198	194	14,973	1,418	37,274	3,543	27,661	99.14	80.23	18,513	
139	131	342	...	2,222	147	726	100.00	56.67	1,189	
2,010	..	4,599	45	10,530	5,233	2,593	100.00	67.44	9,832	
1,335	..	2,348	17	5,567	2,516	792	98.23	50.17	4,865	
22,285	..	36,459	3,972	179,842	50,073	32,192	93.21	33.91	86,632	
1,434	..	2,112	82	41,952	9,153	13,351	97.86	33.41	11,847	
13,361	2,911	13,963	3,962	48,078	15,128	9,095	95.27	4.11	40,791	
110,620	24,125	175,415	25,576	837,715	321,100	302,995	96.20	66.12	496,525	
3,400	313	5,134	255	66,320	15,789	71,092	93.83	32.67	23,923	
114,110	24,438	180,550	25,831	901,535	336,888	320,867	96.35	57.83	51,748	
17	1	53	15	6,113	3,013	375	86.45	52.61	3,066	
9	1	17	1	118	15	1	100.00	48.00	141	
...	..	...	...	3,446	..	...	...	...	...
114,136	24,14	168,625	25,147	912,55	340,036	321,366	96.29	68.43	520,650	

SUMMARY

	Total number of persons vaccinated.		Total number of operations performed.		Percentage of successful cases in which the results were known.		Number of children successfully vaccinated.			Ratio of successful vaccinations per 1,000 of population.	Remarks	
	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Under one year	One year and under five years.	Five years and under ten years.			
1	2	3	4	5	6	7	8	9	10	11	12	
BY SPECIAL STAFF.												
Statement (I) ...	213,320	903,535	213,320	903,535	84'34	37'29	34,48	114,110	24,438	} 66'22		
BY OTHER AGENCIES.												
Shops, railway dispensaries and seely depot.	94	10,017	94	10,017	25'71	31'53	18	26	2			
Total ...	213,414	913,552	213,414	913,552	84'63	37'22	34,626	114,136	24,440	66'22		

Comparative Statement No. II—Showing the percentage of persons primarily vaccinated to the total of vaccinations performed in the Province of Orissa in each of the undermentioned official years.

Establishments	Years										
	1937-38	1938-39	1939-40	1940	1941	1942	1943	1944	1945	1946	
1	2	3	4	5	6	7	8	9	10	11	12
Government staff	87.61	47.92	44.17	30.14	23.47	22.31	29.15	23.59	25.50	21.25	
Municipal	28.84	14.25	10.37	11.29	17.31	15.41	16.1	11.4	5.22	7.79	
District Board	24.88	28.27	25.36	24.06	17.91	15.04	19.08	19.22	1.8	15.74	
Licensed vaccinators	65.70	64.62	54.97	54.84	61.18	54.66	23.78	25.20	17.99	24.95	
Railways ... ..	...	17.68	31.09	..	..	...	23.21	51.74	14.47	7.96	
Jails	1.74	1.13	0.99	0.82	0.3	0.50	0.43	0.71	1.3	1.07	
Cooly depot ... ..	...	...	...	...	...	3.97	8.25	..	3.62	...	

Statement No. III—Showing particulars of vaccination

District	Total number of persons vaccinated.		Total number inspected—								Percentage of	
			By Assistant Directors of Public Health or Superintendents of Vaccination.				By native Superintendents or other Inspecting Officers.				By Assistant Directors of Public Health or of Vaccination.	
			Assistant Directors of Public Health.		Superintendents of Vaccination.		District Inspectors and Health Inspectors.		Sub-Inspectors.		Assistant Directors of Public Health.	
	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination
1	2	3	4	5	6	7	8	9	10	11	12	13
Cuttack ...	59,706	288,068	1,420	986	1,890	2,664	860	652	15,634	18,450	2.38	0.31
Balasore ...	23,152	135,062	...	...	...	...	210	350	2,705	13,302	...	...
Puri ...	32,118	161,661	...	...	...	...	215	675	3,425	4,630	...	...
Sambalpur ...	16,865	84,666	...	...	...	...	5,342	1,386	15,066	4,113	...	...
Angul ...	4,644	10,530	...	...	...	...	1,360	3,377	...	...	...	...
Khondmals ...	2,407	3,807	...	...	...	...	1,048	2,642	1,342	2,113	...	...
Ganjam ...	45,490	233,563	...	...	3,747	4,360	18,522	39,774	33,819	173,073	...	...
Koraput ...	20,031	58,155	...	...	15	87	10,347	30,119	6,424	10,368	...	...
Total ...	193,414	913,532	1,420	986	5,652	7,111	46,904	79,075	75,465	226,819	0.73	0.11

verified by Inspecting Officers during the year 1946

Inspection to total number vaccinated.						Percentage of cases found successful to total number inspected—								Percentage of successful cases reported by Vaccinators.	
By Public Superintendents of Vaccination.		By native Superintendents or other Inspecting Officers.				By Assistant Directors of Public Health or Superintendents of Vaccination.				By native Superintendents or other Inspecting Officers.					
Superintendents of Vaccination.		District Inspectors and Health Inspectors.		Sub-Inspectors.		Assistant Directors of Public Health.		Superintendents of Vaccination.		District Inspectors and Health Inspectors.		Sub-Inspectors.			
Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination	Primary	Re-vaccination		
14	15	16	17	18	19	20	21	22	23	24	25	26	27			28	29
3'17	0'92	1'44	0'23	26'18	6'32	88'59	34'88	94'39	59'09	71'16	84'05	92'33	85'49	96'03	
...	...	0'91	0'26	11'68	9'73	...	...	...	...	95'24	74'29	80'04	71'59	99'46	87'69
...	...	0'67	0'36	10'65	2'86	...	...	...	...	100'00	...	93'31	46'31	97'04	67'15
...	...	31'68	3'91	89'52	12'73	...	...	...	...	103'00	100'00	100'00	100'00	99'15	71'49
...	...	29'38	32'01	...	...	...	...	...	...	97'21	51'32	...	...	100'00	67'64
...	...	43'54	48'94	55'75	37'42	...	...	...	...	95'52	87'18	99'70	41'00	98'28	56'17
8'24	1'05	40'72	17'79	74'39	17'42	...	...	92'45	23'19	93'08	35'10	943	30'39	94'78	45'90
0'05	0'16	66'64	56'66	22'12	20'44	...	...	100'00	54'02	92'78	40'08	95'11	39'11	95'27	41'11
2'92	0'77	24'25	8'65	40'37	14'63	88'59	34'87	96'30	69'03	55'49	46'67	90'02	38'54	84'45	52'11

Statement No IV—Showing side by side the ratios per mile of population of deaths from smallpox

District	1937-38		1938-39		1940		1940	
	Ratio of deaths from smallpox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from smallpox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from smallpox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from smallpox.	Ratio of successful vaccination per mille of population.
1	2	3	4	5	6	7	8	9
Cuttack	0.16	22.38	0.06	30.04	1.82	38.51	0.54	38.29
Balasore	0.55	41.85	0.05	34.82	0.18	40.10	0.42	42.06
Puri	0.06	39.99	0.06	37.59	0.21	43.46	0.68	47.11
Sambalpur	0.01	89.28	...	104.19	0.12	68.25	0.25	29.85
Angul ... ..	..	40.18	0.01	101.02	0.04	52.65	0.06	68.06
Khondmals	0.66	85.24	0.06	47.22	...	67.98	...	74.30
Ganjam	0.26	60.82	0.23	49.78	0.14	65.64	0.26	77.28
Koraput	0.10	39.21	0.22	38.49	0.01	37.19	0.14	40.05
Total ..	0.19	46.35	0.11	47.47	0.59	46.94	0.38	46.08

and the ratios of successful vaccinations per mille of population during the years ending 1946

1941		1942		1943		1944		1945		1946	
Ratio of deaths from small-pox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccination per mille of population.	Ratio of deaths from small-pox.	Ratio of successful vaccination per mille of population.
10	11	12	13	14	15	16	17	18	19	20	21
1.38	25.55	1.02	39.05	0.66	74.64	1.36	65.40	2.34	71.77	1.45	65.48
0.54	49.50	0.43	85.92	5	4.41	3.07	130.01	2.65	131.09	0.82	111.28
0.42	60.13	0.18	48.14	0.09	46.60	0.46	49.47	2.38	56.40	0.90	66.88
0.20	25.63	0.21	28.57	1.17	25.48	0.97	15.87	0.80	15.49	0.33	18.86
0.11	81.25	0.87	55.72	0.03	37.19	0.06	39.47	0.10	59.60	0.20	55.36
...	71.22	0.50	83.26	0.05	60.61	0.02	70.04	0.06	67.54	0.02	54.55
0.93	89.72	.47	72.75	0.25	59.71	0.05	53.79	0.09	54.25	10	67.89
2.21	56.79	0.02	57.11	02.2	43.10	0.02	36.97	0.08	40.03	0.01	35.76
0.81	51.30	0.48	54.28	0.55	57.64	1.05	58.62	0.54	60.10	0.79	66.23

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