



CENSUS OF INDIA, 1961

VOLUME XII

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PART I-B

REPORT ON VITAL STATISTICS
AND
FERTILITY SURVEY

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PREFACE

The publication of a separate report on Vital Statistics is a novel feature of the 1961 Census. Besides presenting figures on Vital Statistics for the decade 1951—1961, the report includes a chapter on the level and trends of fertility in the State data for which were collected during a survey conducted by the State Census Organization in the post-enumeration period. Study of maternity and fertility in the context of explosive population growth in the country and consequent need for correct social planning has assumed considerable meaning and importance in recent years and the brief survey on fertility, undertaken at the instance of the Registrar General, India, in all the States was primarily designed to throw, light on this subject. It must be admitted that the survey suffered from various limitations and yet it was decided that the data collected should be properly analysed and presented particularly with a view to providing some basic and bench mark data for those who hold interest in the subject.

The statistics of births and deaths were collected from the Vital Statistics unit of the State Health Directorate. The vital rates were worked out in the Census Organization based on 1951 and 1961 Census. Vital Statistics in Orissa, as in many other States, are greatly deficient and any analysis or interpretation thereof should be accepted with obvious reservations. Among the factors contributing to the deterioration of the vital statistics system and deficiency of the data in this State in recent years, particular mention may be made of the enlargement of the area of registration and and non-installation of proper machinery, general lack of awareness at all levels about the efficacy of the data and a somewhat hasty switching over form the traditional to new froms of organization for collection of the data.

I owe a debt of gratitude to the Vital Statistics Section of the Office of the Registrar General for compiling the Summary Tables on Fertility Survey and for the valuable suggestions on the draft Vital Statistics Report. I am thankful to Shri H. Patnaik, M. A., Assistant Director of Health Services (Vital Statistics), for his willing co-operation in the matter of supply of the data on Vital Statistics and to the Superintendents, S. C. B. Medical College Hospital, Cuttack and the Moorshed Memorial Christian Hospital, G. Udayagiri for help in the collection of hospital maternity data.

I am hopeful that the report in spite of its shortcomings will prove generally useful for the demographers, planners and the public.

Cuttack

The 11th August, 1968

M. Ahmed

CENSUS OF INDIA, 1961

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VITAL STATISTICS

CHAPTER I

Introduction

The present Report on Vital Statistics for the decade 1951-60 which forms a part of the 1961 Census programme, is the first attempt of its kind to collect and collate available data on Vital Statistics in the State of Orissa. Years ago, the Director-General of Health Services, India and the Director of Health Services, Orissa, at the Central and the State level respectively used to bring out Annual Reports on Vital Statistics. In May, 1949, the Government of India in the Ministry of Home Affairs Resolution No.2/5/59-Public, 16-5-1949, decided as follows: "The Government of India have decided to initiate steps forthwith for developing and improving systematic collection of statistics bearing upon the size and growth of population. For this purpose they have decided to establish a single organisation at the Centre in the Ministry of Home Affairs under a Registrar ex officio Census Commissioner General and to deal with population statistics including vital statistics of Census". In this State, however, the Director of Health Services and to some extent the Director of the Bureau of Statistics and Economic⁹ continued to attend to this work under the Registrar General and Census Commissioner, India.

The history of registration of vital events can be traced back to antiquities. But the system of registration took shape with the Act of 1836 in England and Wales when a Central registry was created for the maintenance of records and statistics of births, marriages and deaths by cause for England and Wales. In India, the registration of vital events was not obligatory till the middle of the last century. The system of registration was introduced for the first time in 1844 in Madras. This was later extended in 1848 to Bombay, in 1870 to Bengal and during the subsequent decade to most other places. A law was enacted in 1886 for the whole of the country but with the passage

of time the States provided for compulsory registration of vital events in their own enactments.

Orissa was carved out as a separate province in 1936 with areas drawn from the then provinces of Bihar, Madhya Pradesh and Madras. These areas, therefore, inherited the systems of registration then prevalent in Bengal and Madras. In the Ganjam and Koraput districts of the newly formed State, the Madras Registration of Births and Deaths 1899 was followed, whereas in the remaining four districts the provisions of the Bengal Births and Deaths Registration Act 1873 were enforced.

Registration system—Evolution in Orissa

It has been indicated earlier that two different Acts were in force in the State and that no single enactment has yet been enforced. The Bengal Births and Deaths Registration Act, 1873 was enforced in four constituent districts of Orissa when it was carved out as a separate province in 1936. The Madras Registration of Births and Deaths, 1899 was in operation in the districts of Ganjam and Koraput. Both the Acts provide for compulsory registration of births and deaths and penal provision, though low, in case of default. In the princely states, where no registration system worth the name was in operation, the Bengal Births and Deaths Registration Act was made applicable in 1952, some 3 to 4 years after their merger with the State of Orissa.

In 1936, a major part of Ganjam Agency and the entire district of Koraput except the then Union Board areas of Koraput, Jeypore, Nowrangapur, Gunupur, Rayagada, Kotpad and Gudari did not enjoy the benefit of any registration system. This was perhaps attributed to the preponderance of tribal population and acute dearth of literate persons to take charge of the work. After merger of the princely states, pend ing enforcement of the regular registration system-

an arrangement was made for collection of weekly figures of attacks of and deaths from cholera and smallpox in those areas. The area and population under registration in 1951 were only 21,694 square miles and 7,919,594 persons, respectively against the total area of 60,127 square miles and

the total population of 1,46,45,946. In other words, on this date only $36\cdot1$ per cent of the total area and $54\cdot1$ per cent of the total population of the State were under registration system. With the extension of the system to the ex-state areas in 1952, the districtwise population stood as follows:

Table 1

Districts	Districts					
Districts	Districts			Area (in Sq. miles)	Population	
(1)		(2)	(3)	(4)	(5)	
Kalahandi	••	5,057.00	1,009,654	5,057:00	1,009,654	
Coraput	• •	9,918·95	1,498,271	30.79	78,161	
Sambalpur		6,764 [.] 60	1,508,686	6,764:60	1,508,686	
Bolangir		3,411.60	1,068,686	3,411.60	1,068,686	
Baudh-Khondmals	••	4,282.00	514,427	4,282.00	514,427	
Ganjam		4,725.00	1,872,530	3,974.00	1,816,094	
undargarh	••	3,788.00	758,617	3,788.00	758,617	
Ohenkanal		4,226.01	1,028,935	4,226 01	1,028,935	
Puri		4,043*34-	1,865,439	4,043 [.] 34	1,865,439	
Keonjhar		3,216.50	743,315	3,216 [.] 50	743,315	
Cuttack	• •	4,210.00	3,060,320	4,210.00	3,060,320	
Mayurbhanj		4,021.79	1,204,043	4,021.79	1,204,043	
alasore	• •	2,507.00	1,415,923	2,507:00	1,415,923	

This comprised 91.47 per cent of the population living in 82.32 per cent area of the State. The portions left out were the same old areas in the districts of Ganjam and Koraput which constituted about 3 per cent of the population of Ganjam district and 94.78 per cent of the population of the district of Koraput.

The system in other States

The system of collection of vital statistics differs from State to State, yet some uniformity exists in principles and in some details. Nearly in all the States, two different agencies are made responsible for the rural and urban areas and the

village chowkidar, watchman or headman is usually the person in charge of collection of vital events in the rural areas. In U. P., for exampe as the system of collection of information through village chowkidars proved defective, the task was entrusted to Village Panchayats from 1951 under the U. P. Panchayati Raj Act, 1947. But it is said that after this change of system, the gap in registration stood considerably widened.

In Gujarat, registration of births and deaths in rural areas is the responsibility of the Revenue Department and the village official responsible for the job is the police patel. In Kutch area, the Revenue Accountant or Talati does this work

with the help of village Kotwal. Of late in some areas, the job has been taken over by the Grama In some of the Kutch villages, Panchayats. shopkeepers also collect information on births and deaths which is subsequently entered into the registration records maintained by the Talati. There is no statute whatsoever and administrative instructions issued by the Government and contained in the manual of revenue accounts guide the system in the Gujarat portion of the State. In urban areas, individual municipalities have framed their own bye-laws for the compulsory registration of births and deaths. In the former Saurastra State, the Registration of Births, Deaths and Marriages Act, 1886 has been adopted since April 1954.

In the rural areas of Assam the recording agency is generally the chowkidars in Kachar and parts of Goalpara, while in the plains districts, it is the gaonburas and mandals or the mauzadars. Many of these persons and particularly the village chowkidars are often illiterate, invariably low-paid and are overburdened with many other duties. Reporting of births and deaths is not obligatory on house-owners and the village chowkidar makes the entries of births and deaths in his pocket book as and when he comes to know of them. The rural vital statistics collecting agents are gradually being replaced by Panchayats.

In Madras, in Panchayat areas where the Madras Registration of Births and Deaths Act, 1899 is in force, the village headmen do the work of registration of births and deaths and if the Panchayat consists of more than one village, then the headman of each village maintains a register relating to his village in the Panchayat. In municipal areas the municipal council is expected to register all births and deaths occurring in the municipality and for this purpose, the council may divide the municipality into several districts and appoint persons possessing the qualification of sanitary inspectors as Registrars of Births and Deaths.

The system in Orissa

In Orissa, in the rural areas of Ganjam where the Madras Registration of Births and Deaths Act is in force, Karji*, a village official acts as the Registrar for 3 to 4 villages on the basis of reports made by Taliary or the village servant. In other districts, the village chowkidar reports vital events to the police station where records in the prescribed register are maintained by the Thana staff. In urban areas covered by Municipalities or Notified Area Councils, the Health staff of these local bodies maintain registers and in other towns the staff of the Health Department do the job. Usually, two sets of registers are maintained—one for births and the other for deaths. The columns in the birth register denote date, informant, event, sex and religion and in-death register two other columns showing age and cause of death are given over and above the columns for the birth register. Causes of deaths are noted in seven broad groups, viz., cholera, smallpox, plague, fever and respiratory diseases, wounds and accidents and other causes.

In the rural areas of 11 out of 13 districts of the State, provisions of the Bengal Births and Deaths Registration Act is in force. Here the chowkidars collect the vital statistics according to the statutory obligations as required under the Chowkidari Amendment Act, 1892 and the Orissa Police Manual. They too constitute the primary reporting agency in towns where the duty of registration has not been handed over to any urban local body. They fill in prescribed forms called hat chitha and produce the same at the police station on weekly or fortnightly parade days for subsequent entry into the daily registers of births and deaths maintained at the police station. In the rural areas of Ganjam, Taliary, the servant reports vital events every week to the Karji who maintains the registers. In the towns the Health staff attached to the Municipalities and Notified Area Counciis collect and record the the information. The Thana Officer, Karji or the Executive Officer of a Municipality or a Notified

^{*}The functionary has since been abolished and the system described here as existing in 1961 has undergone considerable change.

Area Council compiles the statistics in the monthly return giving total figures for the complete area with details of age, causes of mortality, religion, sex, etc. The Thana Officers or the Executive Officers of Municipalities send their monthly return to the District Health Officer whereas the Karji submits the return to the Taluk Officer who in his turn forwards it to the Director of Health Services, Orissa. The District Health Officer sends the monthly report for the reporting area in his charge to the Director of Health Services along with the recorded figures of each registration unit separately. The towns of Koraput follow the urban system of registration.

The system of registration under the Madras Registration of Births and Deaths Act, 1899 is said to be more effective though old. The Karji is literate with rudiments of training and with manageable area of operation whereas the Chowkidars, on the other hand, are illiterate without any training and their jurisdiction usually covers a much larger area. The system of check and counter-check of the statistics under the South Orissa system is also reported to be more effective than that under the North Orissa system.

Out of 62 towns as recorded in 1961 Census. only 26 were urban registration units in 1960. Vital events in 24 were being collected Municipalities or Notified Area Councils and in the remaining 2, the police and health staff did the job. As in the rural units, there are separate registers to record births and deaths. The hospitals and maternity homes report vital events regularly to the urban local bodies. In the remaining urban units where no local bodies have vet been constituted, the machinery for the rural areas attend to the work. Thus, the registration units are the village Karji's office in the Ganiam district, police stations in other districts and offices of the urban local bodies in the town areas. As discussed earlier, the urban units in the North Orissa districts send their reports to the District Health Officers whereas those in the Southern Orissa are received directly by the Director of Health Services. This compilation is centralised at the State level in respect of the urban and rural units of Ganjam and Koraput districts whereas in other areas the District Health Officer compiles reports for consolidation of State figures. It has been recognised that the system of centralised compilation functions more efficiently.

The report Vital Statistics of India, 1958 was the first such annual report published by the Registrar General. Though this first issue contained statistics for the years 1951-58, the scope of the subsequent issues had been greatly enlarged. Each State used to bring out their own annual reports and for Orissa, 1956 was, however, the last year for which such a report is available. Nonavailability and deficiency of data might have been the cause of its discontinuance but this does not seem justified as the logic of reality inherent in those reports is also subject to study and analysis so that the pattern of deficiencies can be removed in future collections.

The multifold utility of vital statistics can never be over-emphasised. It is through these statistics that the trends of birth and death rates, the incidence of diseases and the pattern of preventive measures to be adopted in the formulation of health policies are made out. Both the preventive and curative measures are organised on the basis of an accurate knowledge of disease and disabilities and as such, the importance of collection and compilation of accurate vital statistics is considerable.

It is rather well known that the system of registration of vital events and the reporting and compilation of vital statistics have greatly deteriorated during the past years. The old limping system seems to have come to a dead halt Unawareness of the importance of vital statistics blissful indifference at various levels toward its collection and the lack of a rigid system of control, check and counter-check seem to be responsible for the slow deterioration of the system. The pace of peterioration fast acceled-rated during the decade 1951—60. The rate

Indeed was so rapid that it was difficult to achieve anticipated break-through by the sheer process of handing over the system to the Grama Panchayats. The Orissa Grama Panchayat Act, 1948, provided registration of births, marriages and deaths as one of the obligatory functions of the Grama Panchayats. The village chowkidar continued to be responsible for collection of the vital events but the police and Grama Panchayat authotrities together exercised sort of diarchal control over him which resulted in further deterioration of the system. To add to this, the Act provided no penal provision for the malingering reporters. The end was yet to come and the last nail on the coffin was driven abolition of the chowkidari system on the in North Orissa districts and karji system in South Orissa.

A new system was evolved with the enforcement of the Orissa Grama Panchayat Act, 1964, wherein it was provided that heads of family and occupiers of houses should report about births and deaths within a fortnight of the occurrence to their respective ward members who at their end would report these occurrences to the Sarpanch of the Grama Panchayat who, it was envisaged, would function as the Regi-

strar of Births, Deaths and Marriages. It was on the Sarpanch to compile the monthly return and send the same to the B. D. O. who was to pass it on to the Director of Health Services. This system, it is understood, saw its success in very few areas. The Panchayat ward members deemed it below their dignity to act as substitutes of chowkidars. The near decay and failure of the peripheral registration machinery coupled with the weaknesses inherent in the new systems and their change in quick succession resulted, by and large, in widespread omissions and anomalies. This in its trail led to deficient and incomplete records at all stages. The state of deficiency in the continuity of records was so complete and extensive that it was difficult to sort out good and bad areas.

The ever-widening gap between the probable rates and the registration rates touched, as a consequence, appalling proportions. The Table below compares the computed rates with the registration rates of the State for the last two decades. It must be noted that the computed rates, however, were nearer the registration rates during the earlier decades when the registration machinery was working more effectively.

Computed rates Registered rates Percentage omission in registration Decades Birth rate Death rate Birth rate Death rate Births Deaths 3 5 6 7 1 2 1941---50 28.2 26.0 37.2 29.9 24.2 13.0 40.4 22.9 38.9 1951-60 15.5 24.7 32.3

Table 2*

An idea about the extent of deficiency in the registered figures of births and deaths can be had from a comparison of these figures with those of population growth as ascertained during the

decennial population census. The Table below will illustrate how the percentage of deficiency records the high range of 18 to 87 per cent.

^{*} Reproduced from Tables 19(A) and 21(A) of Vital Statistics of India for 1961

Difference Column 8 in between percentage columns to 4 & 7 column 4 32 39 18 73 36 8 46 53 84 48 **4** 58 47 87 6 42,240 78,630 86,360 155,714 257,240 (1,259,993) 1,307,516 80,919 142,806 73,953 70,024 48,753 15,604 27,419 180,331 00 129,580 Excess of births over deaths 140,790 63,608 137,463 273,836 105,194 (1,403,788) 1,356,265 102,120 125,963 15,292 103,334 2,295 123,392 80,921 7 (2,359,224) 2,283,541 46,075 270,409 (106,776) 96,098 473,196 (152,469) 137,222 161,339 (217,460) 195,714 (90,999) 81,899 138,107 234,403 273,406 Deaths 1951—60 9 (3,763,012) 3,639,806 (154,607) 139,146 407,872 (187,697) 168,927 747,032 (257,663) 231,897 290,919 (340,852) 306,767 (291,242) 262,118 7,758 360,366 61,367 414,196 241,441 Births 1951—60 S 531,076 150,873 17,899 206,882 57,532 219,420 206,414 189,694 293,177 154,874 175,218 309,911 150,811 2,663,781 Variation 1961—51 Population in registration area 1,865,439 3,060,320 743,315 1,508,686 1,068,686 1,795,234 1,415,923 78,161 514,427 758,617 1,204,043 1,009,654 1,028,935 16,051,440 Census 1961 1,106,012 1,575,814 552,203 588,441 2,529,244 60,262 917,875 456,895 839,241 1,028,825 13,387,659 1,572,262 858,781 1,301,804 Census 1951 Baudh, Khondmals Districts Mayurbhanj Sundargarh Dhenkanal Sambalpur Kalahandi Keonjhar Balasore Koraput Ganjam Bolangir Cuttack Orissa Puri

Table 3

Figures within brackets indicate estimates for the ten year period during 1951-60

Some adjustments had to be made in preparing estimates for this Table as complete records for the decade were not available for the ex-state areas whose statistics appeared only from 1952 onwards. All the areas of the State did not enjoy the benefit of the registration system. It needs specific mention that migration, a very important factor had not been taken into account in comparing the two sets of figures. Yet it was thought that some kind of a picture will emerge on the extent of omissions in the registration system and incompleteness of vital statistics records from the Table so prepared.

Births

The birth statistics compraed to that of death suffer from under-registration to a larger measure. Death mostly involves performance of several rituals, the event escaping notice altogether is, therefore, rendered more difficult. Table 2 shows that omissions in birth registration is to an extent of 39 per cent. The computed rates of birth for the State are 40 for the decade 1951—60 whereas the registered rate is only 25. Thus, in every 40 births occurring within the State 15 escape notice and 25 are recorded. The records of birth are thus reliable to an extent of 60 per cent only.

Table 4

Y . 3° /C4-4	Birth	rates	for	
India/States	1958	1959	1960 195	51—60
1	2.	3	4	5
India	 22:3	23.6	22.8	22.1
Orissa	 23.8	28.6	24.6	24.7
Andhra Predesh	 19.3	17:9	17:9	
Gujarat	 26.6	32.1	27.1	
Kerala	 23.5	24.9	22.6	
Madras	 28.8	29.8	28.0	28.1
Maharashtra	 27.1	29.2	29.5	32-3
Mysore	 22.8	27.9	27.9	
Punjab	 37:3	36.0	35.7	39.9
Madhya Pradesh	 16.1	18.1	18.1	19.
Uttar Pradesh	 15.4	14.6	15.9	15.9
West Bengal	 20.2	22.7	19.2	21.5
Delhi	 28.8	30.5	29.3	
Assam	 8.2	8.1	6.8	9.7
Bihar	 12.5	12.6	11.4	15.0

³ Cesus-2

The Table 4 presents a comparative picture of the registered birth rate in India with that of other States in the Union. These figures are reproduced from the Vital Statistics of India, 1961 and they reflect indirectly in a way the extent of under-registration in the States.

For long, the birth rates in India have been on the high side. The causes are not very far to seek. The high rate of mortality in the past from scorges like malaria, cholera, smallpox and other epidemics and the need of households for manual labour in agriculture and allied occupations favoured growth of large families from economic consideration. Social sanction favouring early marriages, preponderance of females making it easier for a widower to remarry and polygamy are other factors responsible for high birth rates. The decennial and the annual birth rates for the State and the districts during 1952, 1956 and 1960 are reproduced below in Table 5.

Table 5

India/States		Birth rates for •							
mua/state	India/States		195160	1952	1956	1960			
1		2	3	4	5	6			
————— Orissa		28.2	25.8	27.3	25.9	24.4			
Kalahandi	٠.		30.2	33.9	33.3	33.0			
Koraput		14.9	11.3	12.6	10-4	11.0			
Sambalpur		28.3	26.2	29.6	22.1	24.6			
Bolangir			34.1	40.8	36.6	27.3			
Baudh-Khondi	mals	30.8	13.1	17.5	14.9	11.8			
Ganjam		25.4	24.6	24.2	23.1	21.2			
Sundargarh		• •	23.3	28.8	23.2	19 [.] 6			
Dhenkanal		34.6	27:9	29.6	27.9	27.8			
Puri		29.9	24.4	21.8	25.8	25.3			
Keonjhar			~ 28.0	30.5	25.4	28.3			
Cuttack		29:3	27.0	28.3	29.1	23.1			
Mayurbhanj			23.0	24.0	22.0	24.7			
Balasore		27.9	23.3	22.1	21.5	25.1			

The corresponding rates for the decade 1941—50 for Kalahandi, Bolangir, Sudargarh, Keonjhar and Mayurbhanj districts have not been quoted as these princely states then contained in these districts were then outside the purview of the registration system. The rates for 1951—60

for those districts and others containing the exstate areas take into account the birth record only between 1952—60. Among the districts, Koraput shows consistently poor results possibly due to its limited registration areas. The district of Baudh-Khondmals also records very low rates during the decade 1951—60. Among the factors responsible for such under-registration might be recorded its difficult and sparsely populated terrain and its population consisting mostly of hill tribes. The remaining districts have been classified into the following three categories:

- (a) Districts showing rates consistently higher than the State average—Kalahandi, Bolangir and Dhenkanal.
- (b) Those showing rates higher than the State average for most of the years—Sambalpur Cuttack and Keonjhar.
- (c) Districts whose rates are lower than the State average—Ganjam, Sundargarh, Puri, Mayurbhanj and Balasore:

The districts shown in (a) and (b) categories may be treated as good registration areas. It is difficult to reconcile to the poor performance and results of districts like Ganjam, Puri and Balasore, where the registration machinery is supposed to have taken deep roots for nearly a century. Records of Sundargarh are more complete compared to the other four districts, in group (c) and in 3 out of 9 years during the decade 1951-60, it has recorded higher rates. Ganjam, Mayurbhani and Balasore districts have shown consistently low rates except in 1960, when their rates have gone up slightly above the State average. Puri records higher rates during 1956 and 1960. There is no room for complacency in the operation of the system in districts grouped under (a) and (b) as the working of the system leaves much to be desired. It is a fact that in districts like Koraput. Baudh-Khondmals and the five districts classed in group (c) above, the system deserves a more thorough attention:

The Table below presents the State averages of birth rates for rural and urban areas. The higher urban rates may be mainly due to better reporting in Municipal areas.

Table 6

Years		Total	Rural	Urban
1		2	3	4
1951—60		25.8	25.6	31.8
1951	••	24.8	24.6	30.8
1952		27.3	27.3	28.7
1953	••	25.6	25.5	30.2
1954		25.8	25.6	31.4
1955		28.3	28.1	35·1
1956		25.9	25.6	33.7
1957		23.9	23.7	29.9
1958	••	23.3	23.0	31.6
1959		28.2	28.0	31.2
1960	••	24.4	24.1	33•7

The Table below gives the annual birth rate for the years 1936 to 1960. It is difficult to attempt a critical comparison of individual year to year rate as the fluctuations are mostly due to the vagaries of reporting. The Table, however, shows the deterioration of the registration system during and after the Second World War.

Table 7

Years Birth rates				Years	Birth rates	
1	<i>į</i> 2	3	4	5	6	
1936	36.6	1941	30.9	1951	24.8	
1937	34.8	1942	31.5	1952	27:3	
1938	33.8	1943	30.8	1953	25.6	
19 39	34.9	1944	25.2	1954	25.8	
1940	35.9	1945	27.4	1955	28:3	
		1946	27.5	1956	25.9	
		1947	26.7	1957	23.9	
		1948	26.4	1958	23:3	
		1949	26.1	1959	28.2	
		1950	26.8	.1960	24.4	

The vital statistics records are so defective and patently so deficient that it will be hazardous to prognosticate any trend on the basis of these figures. It is of course agreed that in recent years there is a greater awareness of the economic implications of large families and gradual adoption of family planning measures. The social and economic conditions favouring growth of large families which prevailed years ago are also said to be on the decline. All these may cumulatively lead to a declining trend of birth rate; but as it is, it would be difficult to foretell accurately the rate of fall in future years with the data available.

The discussion so far is confined to live births only. Still birth rate reflects on the adequacy or otherwise of the hygienic care the Society takes of its expectant mothers. The conditions on this count in the State are admittedly poor. Frequency of natural calamities, outbreak of epidemics and incidence of malaria and such other, diseases greatly reduce the vitality of the people. The following Table attempts a comparison of the percentage of still births to total births in Orissa and some neighbouring -States during the period from 1956 to 1960.

Table 8

States	-	Percent	age of	still b		total
2.0.02		1956	1957	1958	1959	1960
1		2	3	4	5	6
Orissa		2.52	2·15	2·19	2.11	1.98
Andhra Pradesh		0.85	0.88	0.79	0.76	0.89
Madhya Pradesh		1.57	1.79	1.68	2.26	1.48
Madras	••	10.48	1.66	1.55	1.60	1.61
West Bengal		1.59	1.48	1:47	1.44	1.58
Bihar		0.11	0.11	0.20	0.92	0.98

The Table below compares live births to still births and the percentage of still births to total births in Orissa during 1951—60. A slow but

perceptible decline in the percentage of still births to total births is noticeable in years after 1955. This may be attributed to an over-all improvement of the public health measures though it is contended that in this field there remains much room for improvement.

Table 9

Years	Live births	Still births	Percentage of still births to total births
1	2	3	4
1951	197,937	6,017	2:95
1952	375,404	12,909	3.32
1 9 53	358,679	12,897	3.47
1954	368,252	10,347	2:73
1955	411,862	9,851	2:34
1956	383,327	9,917	2:52
1957	359,984	7,913	2.15
1958	356,991	7,994	2.19
1959	439,451	9,456	2:11
1960	387,919	7,851	1.98
1 9 51—60	3,639,806	95,152	2.55

Table XIV in Appendix gives the still birth rate (i. e., still births per 1,000 of total live and still births) for the State and different districts. Puri records the highest which is double the rate of the State. The rates for Balasore, Cuttack and Kalahandi also swing on the high side.

Deaths

The statistics concerning mortality are perhaps as important as those of death as its study helps to determine the factors contributing to the well-being of the society. It has been stated earlier that the records of death registration are less deficient than birth and give more details.

The Table below compares the All-India death rate with that obtaining in the constituent States. The decennial rate for 1951—60 and the annual rates for the years 1958 to 1960 have been shown for the comparison.

Table 10
DEATH RATE

Índia/States		1958	1959	1960	1951-60
1		2	3	4	5
India		11.5	9.9	10.0	11:3
Orissa		17:1	13.9	13.5	15.5
Andhra Pradesh		10.7	8.0	7:9	••
Gujarat		13.7	12.2	11.2	••
Kerala		7:2	7:4	6.6	••
Madras		14.0	12.5	12.7	14.5
Maharashtra		15.7	13.5	12.2	15.2
Mysore		10.2	12.0	10.7	
Punjab		13.9	11.1	12.5	14.7
Delhi	••	8.8	8.6	9.7	
Madhya Pradesh		10.7	8.8	8.6	12.3
Uttar Pradesh		9·4	7.7	8.9	9:2
West Bengal		8.4	<i>7</i> ·4	7.6	8.9
Assam		3.6	3.6	2.7	4.4
Bihar		7:3	5.3	5.0	7:9

Orissa appears to have recorded the highest death rate among the States. Under-registration is decidedly the common factor constant to all the States but among causes for this high death rate in Orissa may be included frequent visitation of epidemics; malaria and cholera. The outbreak of cholera and smallpox and casualties therefrom were particularly heavy during 1951—53 and 1956—58. 'Fever', that ill-defined word took the largest toll every year. The number-of deaths per thousand population during the decade 1951—60 were 574-80, 27-58 and 15 for fever, smallpox and cholera respectively. In spite of public

health and preventive measures undertaken during the decade, the trend of mortality appears to have undergone no significant change.

Death rates in different districts of the State for the decades 1941—50 and 1951—60 and annual rates for 1952, 1956 and 1960 are given in the Table below.

Table 11

State/Distric	cts	1941—50	1951—60	1952	1956	1960
1		2	3	4	5	6
Orissa	••	26.0	16 [.] 2	19.9	14.7	13.4
Kalahandi			19.6	21.6	19·1	16·8
Koraput		11.1	7.9	7:3	6.3	7.3
Sambalpur	• •	23.8	17.0	22.9	13·3	13.8
Bolangir	••		21.8	28.7	21.2	15.2
Baudh-Khond	mals	28.4	9.8	15.1	9.8	7.5
Ganjam		24.7	16:3	15.8	12.0	10.6
Sundargarh		• •	13.7	18.2	14.2	9.6
Dhenkanal		22.3	16.0	16.8	15.8	15.4
Puri		27·1	16.2	18.9	14.0	15.8
Kconjhar		• •	15.9	17:5	14.7	15.3
Cuttack		29·1	17·1	23.7	18.1	13.4
Mayurbhanj		••	13.6	14.5	11.9	13.7
Balasore	••	30.9	12.9	18.7	9.3	11.2

During the period, the fall in the death rate appears precipitous in the districts of Baudh-Khondmals, Ganjam, Dhenkanal, Puri, Cuttack and Balasore. The rates for 1941—50 for the district of Baudh-Khondmals exclude Baudh, an ex-state area and the rate of Dhenkanal for the decade relates to Angul Subdivision only. A comparison of the annual rates for all the 3 years given in the above Table will show that there has been a general decline in the rate during the period. The drop is conspicuous in the districts of Sambalpur, Bolangir and Balasore though it is difficult to assign reasons for the same. The declining trend continues in 7 of the 13 districts during 1960. It is true that the rates

are derived from highly deficient data, yet the possibility of a genuine decline in the death rate during the period in question cannot be ruled out.

The Table below gives yearwise rural and urban rates of mortality during the decade 1951—60.

Table 12

		Year							_		
	1951—60	1951	1952	195 3	1954	1955	1956	1957	1958	1959	1960
Rura	16-2	21.0	20.1	18•4	15·1	14.3	14.7	17•5	16.7	13.6	13.4
Urban	15-1	18.8	15.0	15.0	13.0	13.7	14 ·6	16 ·9	17:3	13.9	14.2

The urban rates as cited above were lower than the rural rates till 1957 after which the trend stood reversed up to 1960. It is a fact that the registration machinery in 11 out of 13 districts came to almost a stand still position in 1959 when the work was sought to be transferred from the village Chawkidars to the Grama Panchayat. It may be that the uncertainties and adverse effects associated with this change started much earlier and continued beyond 1959. The increase in the scale of omissions in registration of deaths might also be responsible for these poor results. Whereas the machinery continued to work as before in towns, the registration system deteriorated considerably in rural areas. This might be the reason why the urban rates kept up their past trends during these years whereas the rural rates went down.

As the fall in the rate of mortality is significant, it is necessary to study the trend of mortality for a longer period. The rate from 1936 to 1961 for the State as a whole is given in the Table below.

Table 13

					• •
Years	Death rates	Years	Death rates	Years	Death rates
1936	27.8	1941	28.0	1951	20.9
1937	28.6	1942	25.4	1952	19.9
1938	29.5	1943	30.3	1953	18.3
1939	28.2	1944	30.4	1954	15.1
1940	24.7	1945	27.9	1955	14.3
-,		1946	23.8	1956	1 4 ·7
		1947	26.9	1957	17:5
		1948	22.6	1958	16.7
		1949	22.1	1959	13.7
		1950	20.5	1960	13.4

The decennial death rate for 1941—50 was 26 which went down to 16.2 during 1951—60. This apart, a study of the trend in the above Table will

show that the decline in the above trend is conspicuous. How much of this trend can be ascribed to the increasing health and public health measures and how much to the extent of under-registration is a matter too difficult to determine at this stage.

In the western countries where the economy Future has taken off from the agricultural trend to a deep-seated industrial base, the fall in the death rate was significant in the early stages of industrialization and it continued to be so till a constant level was reached. The birth rate on the other hand, went up initially but declined after a certain stage. Both these resulted in phenomenal growth of population at the early stages of industrialization. The next phase in this process of transition to urban industrialization was the level of birth to fall down considerably so as to counterbalance the death and record increase of population at a much low rate.

The Table below gives the percentage of deaths

Deaths in various age-groups and the proportion of male and female deaths at these ages for the decade 1951—60.

Table 14

Age-groups		Percentage to total deaths	Proportion of deaths between males and females		
			Males	Females	
Below 1 year		23.20	52.96	47:04	
1-4 years		13.33	52.10	47.90	
5- 9 years		5.98	51·7 7	48.23	
10-14 years		4· 4 9	51.72	48.28	
15-19 years		4.89	48.36	51:64	
20-29 years		7:32	46.69	53•31	
30-39 years		7.59	51.09	48.91	
40-49 years		8.12	52.80	47·20	
50-59 years		9.95	51.29	48.71	
50 years and above	••	15.13	50.08	49:92	

Though even a broad generalisation is difficult to make from such deficient data, it may be noted that the rate records the highest in the early ages up to four years being 36.53 per cent of the total deaths. A sharp decline is noticed in the subsequent age-groups, but an upward trend again sets in from the age-group of 15—19 years. It may be seen that in all the age-groups above 20—29 years the rate is higher among the males and the higher rate of female mortality in the child bearing age-group of 15—29 may be on account of maternal deaths.

Public health facilities, if poor in the regular districts, were reportedly worse in Public most of the ex-state areas. The health coastal districts had frequent visitaconditions tions of flood and large areas remained waterlogged for long periods. Major parts of the inland districts being covered with forests were unhealthy having malarious climates. Bad communications made it difficult for the public health measures to reach the interiors. Diseases like malaria, filaria, cholera and smallpox took heavy toll of lives. Some of those diseases often assumed epidemic form and wiped out considerable portion of the population. The frequency of their recurrence also sapped the vitality of the people and increased their susceptibility to various kinds of ailments. Poverty and mal-nutrition added to the size of the problem. By and large, these conditions prevailed in the State till nearly the end of the decade, 1941-50.

It is an admitted fact that during the decade 1951—60, substantial progress has been achieved in the sphere of improvement of environmenta hygiene, control of communicable diseases and expansion of improved facilities of medical and public health services. Not only that the public health measures to control filaria, malaria, leprosy cholera and smallpox have reached the interiors and have succeeded in stamping out the diseases to a large extent, there has been a phenomenal expansion of institutional curative facilities of both the general and specialised types of medical services. The leeway in the direction of shortage

of medical man power has also been sought to be largely made up. In some urban and rural centres, protected water supply programmes have been put into action. Better communications and flood control measures have certainly added to the general improvement in this direction. With all these the fact remains that the magnitude, of the problem awaiting solution at the beginning of the decade was so colossal that all the efforts made to improve the health conditions have not made perceptible headway. Much remains to be done to bring the condition of the State at par with other States of the Union.

The Table below gives the records of death under seven broad heads, according to the classification usally adopted. Specific causes of death in respect of the common diseases is not usually reflected in the vital statistics records. Death due to plague is rare in the State. It may be noted that contrary to the general belief that cholera and smallox are the two great killers, ever, in fact takes the heaviest toll of lives.

Table 15

Causes of death	Number of Deaths	Percentage to total deaths
1	2	3
1. Cholera	34,440	1.21
2. Smallpox	62,978	2.76
3. Fever	1,312,573	57:48
4. Dysentery and diarrohoea	134,096	5.87
5. Respiratory diseases	72,409	3·17
6. Wounds and accidents	33,547	1.47
7. Other causes	633,498	27.74
Total	2,283,541	100.00

A comparative picture of the death rate from fever, smallpox and cholera in Orissa and India during the decade 1951—60 is projected in the Table below:

Table 16
DEATHS PER 1,000 POPULATION

Years		Fev	er	Small	pox	Cholera	
r cais		Orissa	India	Orissa	India	Orišsa	India
1		2	3	4	5	6	7
1951		10.12	7.7	0.82	0.44	0.53	0.15
1952 .		11.77	8.6	0.60	0.20	0.49	0.19
1953		11:44	7:4	0.13	0.10	0.30	0.40
1954 .		9.25	6.4	0.06	0.10	0.06	0.07
19 55 .		8-43	4.8	0.03	0.10	0.04	0.03
1956 .		8.26	4.9	0.05	0.07	0.37	0.07
1957 .	•	10.43	5·1	0.35	0.12	0.23	0.15
1958 .		8.85	5.3	1.69	0.45	0.21	0.14
1959 .		7:36	4.0	0.72	0.11	0.05	0.02
1960 .		7:89	4.2	0.12	0.10	0.02	0.05

(Rates for India reproduced from Statistical Abstract of Indian Union 1962)

It needs no confession to say that the degree of inaccuracy in the recorded causes of mortality is really great and is perhaps greater than the registration error itself. No uniform system exists in the classification of diseases into broad groups throughout India. Statements often made about the cause of death are so uncertain and unreliable that misclassification under the circumstances is apt to occur. The rates in the Table have been computed on the basis of recorded statistics. It is presumed that the distortion on account of misclassification of causes of death may not be too great to seriously misrepresent the picture presented above. It may, however, be seen from the Table that the proportion of deaths due to fever is much larger in Orissa than the All-India level.

The pattern of mortality due to cholera, small-pox and fever in the districts for the decade 1951—60 is among districts presented in the Table below wherein the percentage of such deaths by rural and urban subdivisions has been given.

Table 17

				1.	able 17					
		-,	Cholera	_		Smallpox			Fever	
State/District		Total 2	Rural 3	Urban 4	Total 5	Rural 6	Urban 7	Total 8	Rural 9	Urban 10
Orissa		1.21	1.54	0.43	2.76	2:77	2:45	57:48	58.53	25.21
Kalahandi		2.67	2.66	5:30	5.89	5.89	6.23	78.70	78.93	29.43
Koraput		2.23	2.86	0.30	6.72	6.09	8.64	49:31	47.20	55.81
Sambalpur		1.53	5.30	0.19	1.97	1.96	3.83	54.81	54.83	51.27
Bolangir		1·19	1.21	0.33	2:47	2.48	1.82	65.02	65.15	55.79
Baudh-Khondmals		1.55	1.56	••	3.28	3.23	15.17	74.25	74.47	17.98
Ganjam		1.86	1· 91	0.92	4· 4 7	4.97	3.99	46.85	48:41	20.05
Sundargarh		0.52	0.53	• •	1.32	1:34	0.33	66.07	66.18	58.55
Dhenkanal	• •	0.81	0.80	2.87	1.85	1.85	• •	63.15	63·19	38.51
Puri		1.09	1.15	0.13	2:25	2:32	1·10	43.95	44.75	35.13
Keonjhar	••	0.43	0.44		1.46	1.47	0.65	80.81	80.90	68*67
Cuttack	••	2.55	1.91	0.92	3·12	3.20	1.96	40.84	42.48	16 ·06
Mayurbhanj		0.50	0.20	0.15	0.93	0.93	0.44	81.58	81.82	33•97
Balasore		1.96	1.97	1.82	1'37	1.36	2.47	71·19	71.82	24.22

In 9 of the 13 districts, deaths from fever constitute more than 15 per cent of the total deaths Fever accounts for over 70 per cent of mortality in each of the districts of Keonjhar, Kalahandi, Baudh-Khondmals Balasore. In and between urban and rural areas, invariably greater percentage of deaths occurs the rural areas from cholera, smallpox or fever. The district of Cuttack has the highest percentage of deaths from cholera whereas Koraput and Kalahandi record the heaviest mortality from smallpox.

The State is itensively malarious from an early period. On account of the major Feve -malaria part of the area being mountainous and flood affected, the hill tracts as also the coastal and inland plains have a high degree of endemicity of fever principal among which is malaria. The continuous depletion of population in certain parts of the State like Balasore till 1951 was attributed to the incidence of malaria. Of the various preventive measures during the past years, specific mention may be made of the establishment of Malaria Demonstration project in the Jeypur hill tracts of Korapu^t district in 1949 with the assistance of the World Health Organisation, the National Malaria Eradication Programme sponsored by the Central Government and the T.C.M. launched at selected places in the coastal areas of the State in 1953. By the end of the Second Plan period, the entire popula. tion of the State had been brought under its opera tion. It will be seen from the Table 17 that the death rate in Mayurbhanj district is as high as 81.6 and five districts in the State record over 70 per cent of such mortality. But the results achieved during the decade of operation of this Programme are heartening in cases. Some of the places which were considered dreadful on account of endemicity of malaria or blackwater fever are no longer held in fear for this disease. The child parasite rate was reduced from 3.2 per cent in 1958 to 0.7 per cent in 1960. The infant parasite rate also went down from 2.6 per cent to 0.4 per cent during this period. The attendance of fever cases

in the hospitals has also been reduced considerably. Though deaths from fever are reported all the year round, the intensity is greater during the postmonsoon period from August to September. This may be due to the aftermath of rains which cause flood and keep large areas water-logged for long.

The scourge of small pox caused heavy mortality Smallpox in the State during the decade. It assumes the form of epidemic once in every 5 to 6 years. 1958 is usually recalled as the year of worst suffering and highest casualttes. The districts of Cuttack, Puri, Ganjam and Dhenkanal during the year were reported to have suffered the most. Considerable mortality was also from the district of Kalahandi in 1959. Though such a generalisation is difficult, it can be said that by and large, the period of highest motrality during the decade was the month of July in particular and the period from January to August in general experienced the major brunt. A systematic programme aiming at eradication of the disease commenced from 1958-59 when the districts were divided into five zones each and the vaccinators were required to make thorough census of all unprotected persons for vaccination. Besides, a Smallpox Pilot Project under the Smallpox Eradication Programme was started in the district of Bolangir in 1960-61. During the subsequent year, Sambalpur and Sundargarh districts came under the fold of this project. The programme was to cover the remaining districts progressively.

Cholera was admittedly a great killer the Cholera during decade 1941—**50** but the intensity of its incidence was recorded as much less severe during the decade under report (1950-60). The number of deaths reported from this disease was not only much too less, some of the districts completely escaped the attack for a stretch of years. The measures adopted to control its recurrence were anticholera inoculation on a mass scale, disinfection of houses, chlorination of water sources provision of good drinking water.

Anti-cholera inoculation was enforced as a compulsory measure of protection in badly affected districts under the provisions of Epidemic Diseases Act, 1897. Appointment of additional health staff, starting of temporary treatment centres and operation of the mobile field hygiene units in areas hard hit by the epidemic were other measures that proved successful in bringing down the rate of mortality. The year 1958 witnessed the highest casualties in the district of Kalahandi.

The remaining four groups of disease other causes are heterogeneous in nature and records of individual causes are not available. Important ones in these groups are tuberculosis, leprosy and cancer. The first two of these diseases are much less dreadful now with the adoption of important public health and medical measures. Much ground remains to be covered in controlling cancer for the treatment of which facilities are not still available in the State.

CHAPTER II

of to death Infant mortality refers children of less than one year. By infant mortality rate is meant the Infant mortality—its definition number of infant deaths occurring per thousand live births in population in one calendar year. Only live births and infant deaths are taken to account for the purpose of calculating infant mortality rate, and not the foetal deaths or still births.

Infant mortality rate to a large measure is a sensitive index of the General causes prevailing health and sanitary of infant morconditions in the society—a high taiity rate stands generally for the poor and insanitary conditions. It is agreed that the first year after birth is the most vulnerable phase in the life of a child when he is greatly susceptible to external infections. The causes of infant mortality are many. The age of the mother, her general health and the order of birth are certainly very important factors. According to a U. N. report on foetal infant and early childhood mortality, too many births to the lessen the chances of survival same mother for the children born last. The lowest mortality rates usually occur among second children. Although the risk of death does not increase substantially until the fifth birth it then rises sharply, so that tenth or later children have only half as much a chance of survival as have the second children.

Many causes of infant mortality start operating when the child is still in the mother's womb. Many children owe their handicaps to heredity. Other socio-cultural factors prevalent among many castes and tribes in the form of age-old customs and traditions also contribute to a high infant mortality rate. Faulty feeding, malnutrition, carelessness and poverty are a few other contributory factors.

reliability Accuracy and of the data available relating to infant Incompleteness mortality are open to question. of infant mor-The records suffer from deficiency tality statistics extent of registration in the and area covered and to a very large degree, the causes of death are misclassified. Diagnosis of a disease during infancy presents genuine difficulties and often wrong statements are made about the causes of death.

In spite of the inherent deficiency of dated a comparison of the infant Infant mortality mortality rate obtaining in different States of India has been given in the Table below. The Table gives the registered rates for the last 3 years of the decade for the Union and the States. The rate for the State of Orissa though is higher than the All-India rate is by no means the highest. The rate is higher in the States of Uttar Pradesh, Assam and Madhya Pradesh.

Table 18

India/States		Registered Infant death rat					
		1951—60	1958	1959	1960		
1		2	3	4	5		
India		139	102	88	87		
Orissa		146	155	120	135		
Assam		184	77	89	87		
Bihar	••	145	74	73	80		
West Bengal		120	80	70	77		
Andhra Pradesh		111	86	83	80		
Kerala		120	50	50	40		
Madras		109	103	91	92		
Mysore		120	71	70	62		
Gujarat		110	103	81	81		
Maharashtra		109	117	107	91		
Uttar Pradesh		186	103	85	92		
Madhya Pradesh	į.	175	147	99	93		
Punjab		110	108	96	96		

(Rates for India and States other than Orissa reproduced from Vital Statistics of India for 1961)

The Table below gives the infant mortality rates for the years 1951—60

General trend of infant mortality. and the decennial rate. Though it is difficult to account for occasional annual fluctuations, the reduction in the rate during the last two years of the decade seems important.

Table 19

Years	Infant death rate	Years	Infant death rate
1	2	3	4
1951—60	146	1956	139
1951	189	1957	175
1952	159	1958	155
1953	153	1959	120
1954	133	1960	135
1955	127		

comparison In the Table below. infant of the percentage of Infant deaths deaths to total deaths in the districts in districts attempted. It may be has been seen that in the districts of Sambalpur, Bolangir, Ganjam, Dhenkanal, Puri, Cuttack and Balasore.

Table 20

State/Districts	Recorded total deaths	Infant deaths	Percentage of infant deaths to total deaths	
1		2	3	4
Orissa	<u></u>	2,283,541	529,368	23.2
Kalahandi		170,210	33,053	19.4
Koraput	••	5,463	505	9.2
Sambalpur		234,403	58,186	24.8
Bolangir		195,714	53,822	27.5
Baudh-Khondmals		46,075	8,544	18.5
Ganjam		273,406	69,775	25.5
Sundargarh	••	81,899	14,781	18·1
Dhenkanal	••	138,107	35,618	25.8
Puri		270,409	66,546	24.6
Keonjhar		96,098	20,11 4	20.9
Cuttack		473,196	114,326	24.2
Mayurbhanj	••	137,222	16,806	12.3
Balasore	••	161,339	37,792	23.4

the percentage of such infant deaths to total deaths is higher than the State average. Bolangir recordes the highest proportion of such deaths and Dhenkanal ranks second. Koraput shows the lowest rate which may be due to incomplete records and major part of its area lying outside the system of registration.

by ages provide a useful study Death concerning infant mortality. The Table below presents the propor-Infant deaths by ages tion of infant deaths by age-groups for the years 1951-60. It is noticed that deaths between first tothe sixth month of a child are the highest. Over 75 per cent of infant deaths occur up to the sixth month after - birth. These occur due to diseases of the mother during pregnancy, nutritional maladjustments immature birth and diseases peculiar to early infancy. Deaths during subsequent of the infant are mainly due to lack of proper eare of the new-born babies and failure to ward off infections. The proportion of death from the first to the sixth month of the infant is visibly on the ascandancy—a trend which needs to be halted.

Table 21

Years	Under 1 week	1 week to 1 month	to	6 months to 12 months
1	2	3	4	5
1951	25.4	24.0	26.5	24.1
1952	25.1	22.0	28.6	24.3
1953	26.1	22.7	29·1	22.1
1954	26.0	23.0	29.9	21·1
1955	26.0	24.4	30.4	19.2
1956	25.9	22.7	31.0	20.4
1957	23.6	21.2	[32:5	22· 7
1958	24.0	22.9	33·1	20· 0
1959	24.7	23.3	33.8	18· 2
1960	23.7	22.5	34.2	19.6

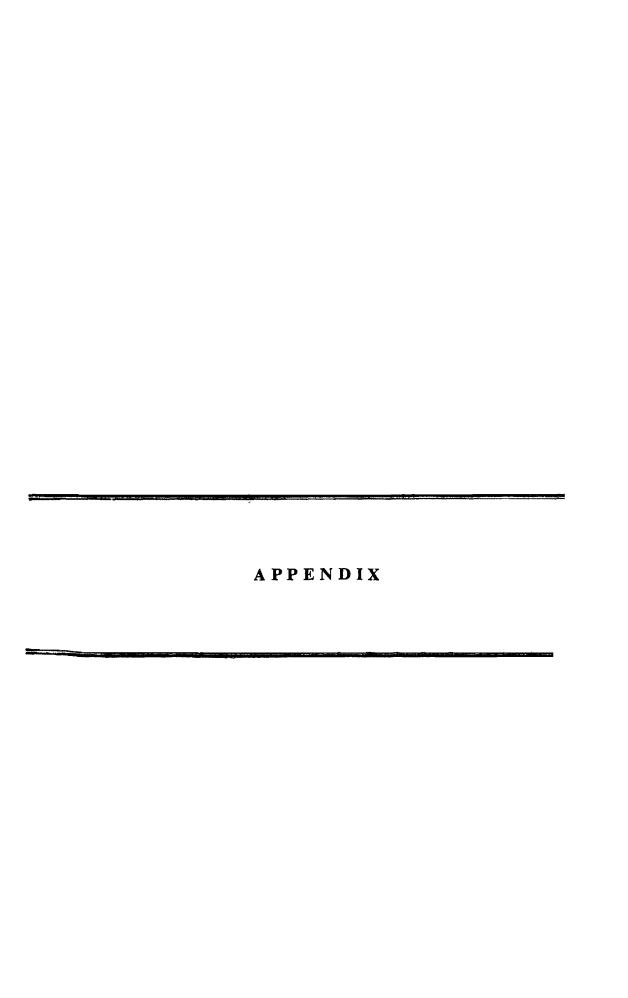


TABLE I

Registered births and deaths in the State of
Orissa during each year of 1951—1960

(T = Total R = Rural U = Urban)

TABLE II

Births and deaths by sex and sex-ratio at birth and death for the State of Orissa during 1951—60

(M = Males F = Females)

Year		No. of births	No. of deaths	Year	No. of births	No. of deaths	Female births per 1000 male births	Female deaths per 1000 male deaths
1		2	3	1	2	3	4	5
1951	-		ž	19 51				
	T R U	197,937 188,423 9,514	166,385 160,572 5,813	M F	103,167 94,770	84,439 81,946	919	970
1050		•		1952	•			
1952	T R U	375,404 364,313 11,091	273,703 267,888 5,815	M F	193,397 182,007	139,147 134,556	941	967
		- •		1953	***			
195 3	T R U	358,679 346,325 12,354	256,817 250,678 6,139	M F	185,624 173,055	131,707 125,110	932	9 50
4054	_			1954				
1954	T R U	368,252 353,848 14,404	215,187 209,219 5,968	M F	191,091 177,161	111 ,00 0 104,187		939
	Ü	2.7,	•	1955				_
1955	T R U	411,862 395,200 16,662	207,989 201,509 <u>6</u> ,480	M F	212,867 198,995	107,263 100,726	935	939
	Ü	10,002	-	1956				
1956	T R U	383,327 367,174 16,153	217,757 210,775 6,982	M F	198,279 185,048	112,229 105,528	933	940
	Ū	,	•	1957				y
1957	T R U	359,984 345,182 14,802	263,373 255,020 8,353	M F	185,960 174,024	134,776 128,597		954
	U	1,,002	-,	1958				
1958	T R U	356,991 340,850 16,141	256,567 247,753 8,814	M F	184,172 172,819	130,343 126,224	938	968
	Ü	10,111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	195 9				
1959	Ť R U	439,451 419,125 20,326	213,087 204,034 9,053	M F	227,594 211,857	109,788 103,299	931	941
10/0				1960				
1960	T R U	387,919 367,090 20,829	212,676 203,927 8,749	M F	200,808 187,111	110,230 102,446	932	929
Total for 1951—1960				Total for 1951—60	1			
1,11	T R U	3,639,806 3,487,530 152,276	2,283,541 2,21 1 ,375 72,166	M ~	1,882,959 1,756,847			950

TABLE III

Births and deaths by districts during each year of 1951-60

(T = Total R = Rural U = Urban)

No.	Districts		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Total 1951—60
<u> </u>	7		m	4	8	9	7	∞	ov .	10	=	12	13
1 KA	KALAHANDI								.]				
H	Births Deaths	::	: :	29,760 18,975	26,430 19,489	25,055 15,667	31,90 5 17,160	31,298 17,911	25,767 19,380	24,240 23,710	34,715 21,139	32,948 16,779	262,118 170,210
¤	Births , Deaths	::	::	29,760 18,975	26,430 19,489	24,967 15,583	31,822 17,095	31,091 17,843	25,573 19,235	24,006 23,442	34,439 21,039	32,753 16,697	260,841 169,389
D	t Births Deaths	::	::	::	::	88	83 65	207 68	194 145	234 268	276 100	195 82	1,277 812
2 KO	KORAPUT												
H	Births Deaths	-::	887 463	791 455	764 660	631 441	597 370	, 727 443	681 606	904 909	932 552	844 564	7,758 5,463
¤	Births Deaths	::	887 463	791 455	764 660	456 309 ⁻	4 44 261	479 264	491 391	696 591	742 383	617 344	6,367 4,121
Ð	Births Deaths	::	::	::	::	175 132	153 109	248 179	190 215	208 318	190. 169	227 220	1,391
3 SAI	SAMBALPUR											·	
F	Births Deaths	::	26,516 20,029	39,411 30,416	34,721 24,997	36,311 23,985	41,325 24,269	31,143 18,799	34,158 25,354	32,734 24,069	47,321 21,807	36,726 20,678	360,366 ,234,403
x	Births Deaths	::	26,370 19,906	39,250 30,278	34,646 24,961	36,098 23,874	41,040 24,112	30,898 18,662	33,846 25,143	32,489 23,867	46,628 21,521	36,362 20,458	357,627 232,782
Þ	Births Deaths	::	146 123	161 138	75 36	213 111	285 157	245 137	312 211	242 202	693 286	 364 220	2,739 1,621
4 BOI	BOLANGIR												
H	Births Deaths	::,	::	38,228 26,940	32,830 22,939	31,994 19,025	45,315 22,019	36,519 21,122	27,740, 24,313	28,876 22,623	36,329 20,639	28,936 16,094	306,767 195,714
x	Births Deaths	::	::	37,912 26,804	32,414 22,747	31,635 18,864	44,694 21,765	36,031 20,911	27,359 24,051	28,501 22,303	35,170 20,055	27,995 15,518	301,711 193,018
D	Births Deaths	::	::	316 136	416 192	359 161	621 254	488 211	381 262	375 320	1,159 584	941 576	5,056 2,696

_	_
7	4
	٦.

Births Deaths Births ANJAM Births Deaths Deaths Deaths Births Deaths Births	H	Births	:	2,508	∞်၊	119		5,395	5,395 5,184	5,395 5,184 8,207	5,395 5,184 8,207 7,278	5,395 5,184 8,207 7,278 6,277	5,395 5,184 8,207 7,278 6,277 5,293	5,395 5,184 8,207 7,278 6,277 5,293 7,095
\$\begin{array}{cccccccccccccccccccccccccccccccccccc		Deaths	:	2,295	7,011	4,506	4,169		5,258			4,785 5,279	4,785 5,279	4,785 5,279 4,678
ARIA A. A. A. A. A. A. A.	~	Births Deaths	* ;	2,508 2,295	8,119 7,011	5,395 4,506	5,184 4,169	5,7	8,207 5,258	207 7,278 258 4,785	7,278 4, 785	7,278 4, 785	7,278 6,277 5,293 4,785 5,279 4,678	7,278 6,277 5,293 6,957 4,785 5,279 4,678 4,131
\$\$\begin{array}{cccccccccccccccccccccccccccccccccccc	5	Births Deaths	• •	::	::	::	::	• •			::	::	::	::
46,664 38,864 43,065 38,905 41,227 25,311 32,967 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21,963 21	ЗĀ	NJAM,												
44,019		Births Deaths	* ¢	46,664 41,227	38,864 25,311	43,065 32,967	38,905 21,963	41,841 (22,416	_		39,161 20,239	39,161 20,239	39,161 41,298 20,239 26,657	39,161 41,298 42,318 20,239 26,657 37,002
2,645 2,807 2,897 3,362 1,409 1,224 1,218 1,103 16,708 16,387 15,688 16,560 9,531 9,581 16,597 16,261 15,561 10,521 9,456 9,510 111 126 12,7 111 126 12,7 3,449 14,528 14,032 13,248 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 3,449 14,528 14,032 13,248	24	Births Deaths,	::	44, 019 39,818	. 36,057 24,087	40,168 31,749	35,543 20,860	37,898 21,216		34,820 18,989	34,820 37,723 18,989 24,943	37,723 24,943	37,723 38,045 24,943 34,858	37,723 38,045 39,734 24,943 34,858 24,639
16,708 16,387 15,688 10,560 9,531 9,581 16,597 16,261 15,561 10,521 9,456 9,510 111 126 12,7 111 75 12,7 395 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 13,248	Þ	Births Deaths.:	::	2,645 1,409	2,807 1,224	2,897 1,218	3,362 1,103	3,943 1,200		4,341 1,250		3,575 1,714	3,575 4,273 1,714 2,144	3,575 4,273 4,631 1,714 2,144 2,087
16,708 16,387 15,688 10,560 9,531 9,581 16,527 16,261 15,561 10,521 9,456 9,510 3,955 25,571 22,027 25,169 5,955 14,528 14,032 13,248	SU	' ' NDARGARH												
16,597 16,261 15,561 15,661 15,661 10,521 9,456 9,510 111 126 127 171 126 127 171 126 127 12,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,571 22,027 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,169 5,955 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957 25,957	æ	Births (Deaths	::	::	16,708 10,560	16,387 9,531	15,688 9,581	18,250 9,880		15,385 9,408	15,3\$5 14,789 9,408 9,531	-	14,789 9,531	14,789 12,024 1 9,531 8,994
5,955 25,571 22,027 25,169 3,449 14,528 14,032 13,248 5,955 25,571 22,027 25,169 3,449 14,528 14,032 13,248 5,955 25,571 22,027 25,169 5,956 14,528 14,032 13,248	~	Births Deaths	:	::	16,597 10,521	16,261 9,456	15,561 9,510	18,040 9,765		15,215 9,307	V	14,576 9,394	14,576 11,797 1 9,394 8,851	14,576 11,797 14,655 9,394 8,851 7,046
5,955 25,571 22,027 25,169 3,449 14,528 14,032 13,248 5,955 25,571 22,027 25,169 3,449 14,528 14,032 13,248	5 -2	Births. Deaths	::	::	111 39	126 75	127 17	210 115		170		213 137	213 227 137 143	213 227 673 137 143 211
Births 5,955 25,571 22,027 25,169 3,449 14,528 14,032 13,248 13,248	E C	ENKANAL												
Births 5,955 25,571 22,027 25,169- Deaths 3,449 14,528 14,032 13,248 Births	_	, Births; Deaths	::	5,955 3,449	25,571 14,528	22,027 14,032	25,169 13,248	27,531 13,518		26,221 14,845			23,183 20,196	23,183 24,855 20,196 14,531
Births Deaths	æ	Births Deaths	::	5,955 3,449	25,571 14,528	22,027 14,032	25,169- 13,248	27,531 13,518		26,221 14,845	26,221 23,183 14,845 20,196	23,183 20,196	23,183 24,855 20,196 14,531	23,183 24,855 32,508 20,196 14,531 13,992
	Þ	Births Deaths	::	::	::	::	::	: :		::		: :	: :	176
	[- -	Births Deaths	::	34,304 27,456	35,091 30,420	38,973 27,946	40,562 24,195	41,618, 20,883		44,660 24, 232	44,660 38,259 24,232 29,974		38,259 29,974	38,259 37,801 29,974 31,107
34,304 35,091 38,973 40,562 27,456 30,420 27,946 24,195	°}¥-	Births Deaths	: ;:	32,618 26,159	33,291 ⁵ 28,829	. 36,8 19 2 6,4 89	\$8,517 22,90 <u>1</u>	39,114		41,769 22,497		35,682 28,180	35,682 34,755 28,180 28,926	35,682 34,755 46,497 28,180 28,926 23,425
34,304 35,091 27,456 30,420 32,618 33,291 26,159 28,829	Þ	Births	• •	1,686	1,800	2,154	2,045	2,504		2,891		2,577	2,577 3,046	2,577 3,046 3,334

[3 Census—4

5 BAUDH-KHONDMALS

TABLE ... III-

Births and deaths by districts during each year of 1951-60-concld.

	1												Special operation of
N.S.	Districts		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Total 1951—60
.	N		т	₹	Vn,	9	7	• ∞	6	10	11	12	13
10 KI	10 KEONJHAR						Jul.	7	· ·	:			•
Η	Births Deaths	::	::	18,599 10,652	16,336 10,961	18,993 9,885	20,828 9,349	17,073 9,850	17,204 12,190	18,062 12,157	21,054 9,830	20,778 11,224	168,927 96,098
ĸ	Births Deaths	::	::	18,365 10,498	16,160 10,865	18,790 9,793	20,746 9,305	17,073 9,850	17,204 12,190	18,062 12,157	20,799 9,763	20,315 11,061	167,514 95,482
n	Births Deaths	: :		234 154	176 96	203 92	82 44	::	::	::	255 67	463 163	1,413 616
11 C	CUTTACK												
Ή	Births Deaths	::	56,928 49,421	73,643 61,670	71,638 53,589	79,987 42,885	84,984 39,287	81,842 50,910	75,852 55,296	71,558 44,090	80,740 35,405	69,860 40,643	747,032 473,196
24	Births Deaths	::	52,393 46,727	68,799 59,422	65,984 50,870	73,108 40,287	77,123 36,528	74,990 47,886	69,063 51,674	64,409 41,019	73,019 32,001	62,035 37,540	680,923 443,954
Ω		::	4,535 2,694	4,844 2,248	5,654 2,719	6,879 2,59 8	7, 8 61 2,759	6,852 3,024	6,789 3,622	7,149 3,071	7,721 3,404	7,825 3,103	66,109 29,242
12 M.	MAYURBHANJ												
H	Births Deaths	::	::	25,263 15,302	24, <i>9</i> 77 14,850	23,498 13,934	23,891 11,833	24,653 13,387	25,091 18,753	23,723 18,296	31,330 14,549	29,471 16,318	231,897 137,222
R	Births Deaths	::	::	25,058 15,241	24,659 14,722	23,21 <i>7</i> 13,826	23,672 11,740	24,500 13,289	24,947 18,635	23,644 18,246	31,256 14,506	29,382 16,287	230,335 136,542
D	Births Deaths	1:	::	205 61	318 128	281 108	219 93	153 98	144 68	79 50	74 43	31	1,562 680
13 BA	BALASORE												
Ħ	Births Deaths	::	24,17 5 22,045	25,356 21,463	25,136 20,350	26,275 16,209	25,570 11,747	27,367 11,826	29,685 15,844	34,603 14,401	37,727 11,866	35,025 15,588	290,919 161,339
~	Births Deaths	::	23,673 21 , 755	24,743 21,239	24,598 20,132	25,603 15,995	24,869 11,575	26,809 11,647	29,258 15,659	34,298 14,284	36,721 11,533	34,520 15,377	285,092 1 5 9,196
Û	Births Deaths	::	50 2	613 224	538 218	672 214	701 172	558 179	427 185	305 117	1,006	505 211	5,827 2,143
İ			-			***************************************							

TABLE IV

Births and deaths classified by sex for each year of 1951-60 by districts

(M=Males F=Females)

Districts		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Total for 1951—60
Ţ	ļ	7	ю	4	'n	9	7	∞	6	10	11	12
1. KALAHANDI												
M Birth Death	, .	::	15,474 10,184	13,591 10,269	12,854 8,428	16,306 9,112	16,174 9,630	13,375 10,352	12,475 12,174	17,941 11,200	16,890 9,029	135,080 90,378
F Birth Death	::	::	14,286 8,791	12,839 9,220	12,201 7,239	15,599 8,048	15,124 8,281	12,392 9,028	11,765 11,536	16,774 9,939	16,058 7,750	127,038 79,832
2. KORAPUT												
M Birth Death		459 243	447 255	4 14 349	333 236	339 214	402 227	352 353	481 437	511 293	450 302	4,188 2,909
F Birth Death	::	428 220	344 200	350 311	298 205	258 156	325 216	329 253	423 472	421 259	39 4 262	3,570
3. SAMBALPUR											!	
M Birth Death	::	13,789 10,357	20,197 15,493	17,954 12,857	18,824 12,313	21,373 12,393	16,232 9,730	17,483 12,820	17,021 12,141	23,698	19,073 10,559	1 8 5,644 119,848
F Birth Death		12,727 9,672	19,214 14,923	16,767 12,140	17,487 11,672	, 19,952 11,876	14,911 9,069	16,675 12,534	15,713 11,928	23,623 10,622	17,653 10,119	174,722 114,555
4. BOLANGIR												
M Birth Death		I	19,213 13,587	16,875 11,937	16,514 10,007	23,112 11,281	18,580 10,918	14,144 12,493	14,807 11,525	18,764 10,606	14,889 8,405	156,898 100,759
F Birth Death	::	• •	19,015 13,353	15,955 11,002	15,480 9,018	22,203 10,738	17,939 10,204	13,596 11,820	14,069 11,098	17,565 10,033	14,047 7,689	149,869 94,955
5. BAUDH-KHONDMALS												
M Birth Death	•	1,338 1,207	4,255 3,525	2,758 2,294	2,710 2,184	4,288	3,907 2,548	3,348 2,780	2,348	3,656 2,168	3,111 2,050	32,148 23,90 8
F Birth Death	:::	1,170	3,864	2,637	2,474	3,919 2,454	3,371	2,929	2,516 2,330	3,439 2,073	2,900 1,803	29,219 22,167

TABLE IV Births and deaths classified by sex for each year of 1951—60 by districts—concld.

(M=Males F=Females)

													Total for
	Districts		1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	767
	1		7	က	4	8	J	1	94	•	10	=	12
6. GANJAM	UJAM	li.											
×	f Birth 滿上 Death	::	24,240 21,232	19,964 12,710	22, 4 47 16,970	20,149 11,113	21, 48 9 11,171	20,137 10,15 4	21,121 13,35 8	21,771 1₹,284	23,03 8 13,297	19,504 9,737	213,860 138,026
BL.	Birth	::	22,424 19,995	18,900 12,601	20,618 15,997	18,756 10,850	20,352 11,245	19,02 4 10,085	20,177 13,299	20,547 18,718	21,327 13,429	18,211 9,161	200,336 135,380
7. SUN	7. SUNDARGARE												
M	Birth Death	::	::	8,451 5,685	8 ,353 5,004	8,027 5,048	9,351 5,133	7,914 4,915	7,515 5,03 6	6,06 4 4,801	7, 8 72 3,797	7,583	7 1,130 4 3,221
炡	Birth Death	::	::	8,257 4,875	8,034 4, 527	7,661 4,533	8,899 4,747	7, 4 71 4, 493	7,274 4,495	5,960 4,193	7,456	7,004	68,016 38,67 \$
S. DE	8. DEENKAMAL												
M	Birth De a th	::	3,076	13,245 7,473	11,509 7,160	13,144 6,753	14,338 6,944	13, 6 09 7,462	12,102 10,101	12,9 26 7,420	17,05 8 7,206	14,613 7,952	125,620 70,243
EL,	Birth Death	::	2,879	12,326 7,055	10,518 6,872	12,025 6, 495	13,193 6,574	12,61 2 7,383	11,081 10,095	11,929 7,111	15,626 6,883	13,632 7,719	115,821 67,864
9. PURI	គ												
X	Birth Death	::	18,31 0 13,870	17,874 14,935	19,931 13,981	21,097 11,967	21,585 10,539	22,969 12,293	19,719 15,094	19,674 15,328	26,073 12,538	24,520 14,743	211,752 135,288
NL,	Birth Death	::	15,994 13,586	17,217 15,485	19,042 13,96 5	19,465 12,228	20,033 10,34 4	21,691 11,939	18,540 14,880	18,127 15,779	23,758 12,449	22,253 14,466	196,120 135,121
10. KEC	10. KEONJHAR												
×	Birth Death	::	::	9,66 9 5,429	8,336 5,654	9,8 19 5,159	10,661 4,913	8,845 5,110	8,764 6,188	9,224 6,312	10,971 5,229	10,696 5,876	86,9 8 5 49,87 0
Ħ	Birth Death	::	::	8,930 5,223	8,000	9,174 4,726	10,167 4,436	8,228 4,740	8,440 6,002	8,838 5,845	10,083 4,601	10,082 5,348	81.942 46,228

389,465 242,480 357,567 230,716	•	119,505 73,374	112,392 63, 8 48		150,6 8 4 80,61 8	140,235 80,721
36,344 20,937 33,516 19,706		15,051 8,845	14,420		1 8,084 7,993	16,941 7,595
42,243 18,400 38,497 17,005		16,281 7,896	15,049 6,653		19,488 5,973	1 8 ,239 5,893
36,934 22,531 34,624 21,559	,	12,272 9,654	11,451 8 ,642		17,746	16,857 7,01 3
39,676 28,417 36,176 26,879	,	12,915 9,755	12,176 8 ,998		15, 44 6 8,029	14,239 7,815
42,819 26,233 39,023 24,677		12,565 7,151	12,088 6,236		14,126 5,858	13,241 5,96 8
44,345 20,672 40,639 18,615		12,482 6,277	11,409 5,556		13,198 5, 8 10	12,372 5,937
41,719 22,160 38,268 20,725		12,169 7,519	11,329 6,415		13,732 8,113	12,543 8,096
37,491 27,370 34,147 26,219		12, 8 3 8 7,949	12,139 6 ,901		13,127 9,913	12,009 10,437
38,463 30,870 35,180 30,800		12,932 8,328	12,331 6 ,97 4		13,213 10,673	12,143 10,790
29,431 24,890 27,497 24,531		::	::		12,524 10,86 8	11,651 11,177
:: ::		::	::		::	::
M Birth Death F Birth Death	12. MAYURBHANJ	M Birth Death	F Birth Death	13. BALASORE	M Birth Death	7 Birth Death
Z II,	12. M	Σ	R L₁	13. 12/	Z	Ħ

II, CUTTACK

TABLEV

Birth rates and death rates by districts (T=T-val R=Jural U=Urben)

State/ Districts		1941—50	1951—60	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
1		2	3	4	5	9	7	∞	6	10	11	12	13
1. KALAHANDI										i -			
T Birth Rate Dath Rate	::	::	30.2	::	33·9 21·6	29-6 21-8	27.6	34:5 18:6	33·3 19·1	27.0	25.0	35.3	33.0
R Birth Rate Death Rate	::	::	30 [.] 4 19 [.] 7	::	33.9 21.6	29.6 21.8	27 [.] 9 17 [.] 4	34.9 18.8	33.6 19.3	27:2	25·1 23·4	35.5	33.2
U Birth Rate Death Rate	; :	::	13.6	::	::	::	9.9	6.4	15.8	14.5	17.2	19:9	13.8
2. KORAPUT									t I))		۹ -	ე მ
T Birth Rate Death Rate	::	14.9 11.1	11:3	14·6 7·6	12.6	11.9	9.9	8.8 4.5	10.4	9:5	12:3 12:4	12.4	11.0
R Birth Rate Death Rate	: :		12:1	14.6	12.6	11.9	10.3	9.8	10.2	10.2	14:1	14.6	11.9
U Birth Rate Death Rate	::	::	8.5	::	::	::	0.9	6.8 8.4	10.8	8:1 9:7	8:7	• % · ·	9. 1.
3. SAMBALPUR										!)) •		•
T Birth Rate Death Rate	::	28·3 23·8	26·2 17·0	24·9 18·8	29.6 22:9	25·7 18·5	26·5 17·5	29·7 17·4	22·1 13·3	23.8	22·5 16·6	32·1 14·8	24.6 13.8
R. Birth Rate Death Rate	::	::	26·7 17·4	25·3 19 1	30.2 23.3	26:3 19:0	27·0 17·9	30.3 17.3	22:5 13:6	24.3	23.0	33.3	24.7
U Birth Rate Death Rate	::	:	7.2	6·1 5·1	5·1 4·4	2·3 1·1	6.1 3.2	%.4 %.6	6.4 3.6	7.9	6.5 6.9	9.2	15.3
4. BOLANGIR))	}))	0
T Birth Rate Death Rate	::	::	34·1 21·8	::	40.8 28.7	34·4 24·1	33·0 19·7	46·1 22·4	36.6 21.2	27.4 24.0	28.1	34:8	27.3
R Birth Rate Death Rate	: 1	::	34·5 22·1	::	41.0 29.0	34.8 24.4	33.5 20.0	46·5 22·7	37.0 21.5	27.7	28:4 23:3	35.3	27.7
U Birth Rate Deatl. Rate	::	• •	20·1 10·7	::	22·1 9·5	18.8	15·9 7·1	26 ^{.9} 1·1	20.7	15.9 10.9	15.3 13.1	24·1 12·1	19.2
											1	1	1

		7.9 11.7 7.5	.,			23·9 19·3 14·8 10·2					23·3 25·2 7·3 10·8		2.8 27.8 4.1 15.4		19·1 11·8 10·5 8·2			27.0 24.5 13.6 15.6	
		10·6 13·9 9·4 8·3				23·2 23 21·2 14				17·0 21 12·8 10				25.4 32 14.9 14	19			20·5 27 17·0 13	
		<i>L L</i>	::			23.3			21·7 14·0					24·2 21·1	::			21.4	
	14 ^{.9} 9 ^{.8}	14.9 9.8	: :		23·1 12·0	21·8 11·9	46 ^{.9} 13 ^{.5}		23·2 14·2	23·3 14·2	19·3 11·4		27.9 15.8	27 ^{.9} 15 ^{.8}	::	٠	25·8 14·0	25·4 13·7	3.4.7 20.8
	17·0 10·9	17.0 10.9	::		25·0 13·4	24·0 13·4	43·3 13·2		28 ^{.4} 15 ^{.4}	28·5 15·4	25·3 13·9		29·9 14·7	29·9 14·7	::		24·5 12·3	24:2 12:0	31·3 18·9
	10.9 8.8	10.9			23.6 13·3	22°8 13°4	37·5 12·3		25·3 15·4	25.4 15·5	16.4 9.2		27·9 14·7	27·9 14·7	::		24·3 14·5	24:2	26·7 16·9
	11:5 9.6	11.5	. o		26·5 20·3	26·1 20·6	32 ^{.9} 13 ^{.8}		27·3 15·9	27·4 15·9	17·5 10·4		. 24·9 15·9	24 ^{.9} 15 ^{.9}			23·8 17·0	23·5 16·9	29.4 19. 9
	17:5 15:1	17·5 15·1	::		24:2 15:8	23·7 15·9	32:4 14:1		28. 8 18.2	29·0 18·4	16.6 5.8		29·6 16·8	29·6 16·8	::		21·8 18·9	21·6 18·7	25·7 22·7
	8.6 7.9	8.6 7.9	::		29:5 26:0	29.4 26.6	31·1 16·6				::			31.0 18:0				28·9 23·2	
		13·1 9·8	22:1 14:8			23·7 16·2	41.0 16.4		23·3 13·7	23. 4 13.8	22:4 10: 4			27 [.] 9 16 [.] 0	15.4 9.4			24·0 15·9	32.5 20.5
ITS	30.8	::	:: ::		25.4	.::	::		::	::	::		34.6	::	::		29.9	::	::
\$.BAUDH-KHONDMALS	T Birth Rate Death Rate	R Birth Rate . Death Rate .	U Birth Rate Death Rate	6. GANJAM	T Birth Rate Death Rate	R Birth Rate Death Rate	U Birth Rate Death Rate	7. SUNDARGARH	T Birth Rate Death Rate	R Birth Rate Death Rate	U Birth Rate Death Rate	8. DHENKANAL	T Birth Rate Death Rate	R Birth Rate Death Rate	U Birth Rate Death Rate	9. PURI	T Birth Rate Death Rate	R Birth Rate Death Rate	U Birth Rate Death Rate .

TABLE V

Sirth rates and death rates by districts—concld.

(T=Total R=Rural U=Urban)

State/ Districts		1941—50	1951—60	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
1		7	3	4	S	9	7	∞•	6	10	11	12	13
10. KEONJHAR								-					
T Birth Rate Death Rate	::	::	28·0 15·9	: :	30·5 17·5	26·2 17·5	29·7 15·4	31·8 14·3	25.4	25·1 17·8	25·7 17·3	29·3 13·7	28·3 15·3
R Birth Rate Death Rate	::	::	28·0 16·0	::	30·6 17·5	26 ³ 17 ⁷	29·8 15·6	32·2 14·4	25.4 14·7	25·1 17·8	25.7 17.3	29·5 13·8	28·2 15·4
U Birth Rate Death Rate	::	::	21·6 9·4	::	23·9 15·7	17.4 9.5	19·5 8·8	7·6 4·1	::	::	::	21·1 5·5	37·3 13·1
11. CUTTACK													
T Birth Rate Death Rate	:	29·3 29·1	27·0 17·1	24·3 21·1	28·3 23·7	27·0 20·2	29·6 15·8	30·8 14·2	29·1 18·1	26·5 19·3	24·5 15·1	27·2 11·9	23·1 13· 4
R Birth Rate Death Rate	::	::	26·0 17·0	23·7 21·1	27.9 24.1	26·2 20·2	28·5 15·7	29·5 14·0	28·2 18·0	25·5 19·1	23.4 14.9	26·0 11·4	21·7 13·2
U Birth Rate Death Rate	::	::	44·1 19·5	35·6 21·1	36.6 17.0	41·1 19·8	48 ^{·3} 18 ^{·2}	53·3 18·7	44 ^{.9} 19·8	43·1 23·0	44·0 18·9	46·1 20·3	45·3 18·0
12, MAYURBHANJ													
T Birth Rate Death Rate	: :	::	23·0 13·6	: :	24·0 14·5	23·3 13·9	21·6 12·8	21·6 10·7	22:0 11:9	22·0 16·5	20.5 15.8	26·7 12·4	24·7 13·7
R Birth Rate Death Rate	::	::	23·1 13·7	::	24·1 14·6	23·3 13·9	21·6 12·9	21·7 10·8	22·1 12·0	22·2 16·6	20·7 16·0	27·0 12·5	25·1 13·9
U Birth Rate Death Rate	::	::	11.4 5.0	::	19.1	26.8 10.8	21.7	15·6 6·6	10-1	8.5 4.2	4.5 2.9	4:0 2:3	4.5 1.6
13, BALASORE													
T Birth Rate Death Rate	:::	27 [.] 9 30 [.] 9	23 ⁻³ 12 ⁻⁹	23·3 21·3	22:1 18:7	21 ^{·3} 17 ^{·3}	21.7 13:4	20.6 9.5	21·5 9·3	22:8 12:2	26·0 10·8	27.7	25·1 11·2
R Birth Rate Death Rate	::	::	23°5 13°1	23·4 21·5	22.0 18:9	21 ³ 17 ⁵	21·6 13·5	20.5	21.6 9.4	23·0 12·3	26·3 11·0	28.1	25·8 11·5
U Birth Rate Death Rate	::	::	17 ^{.6} 6 ^{.5}	21.6 12.5	25:2 9:2	21·2 8·6	25·3 8·1	25.4	19.4 6.2	14·3 6·2	<u>ရ</u> ာ နှာ နာ စိစ်	17.9 5.9	3.6

		25·6 23·7 14·7 17·5		
		28·1 2: 14·3 14		
		25·5 25·6 18·4 15·1	31.4 5.0 13.0	
		27·3 2: 20·1 13	•	
	24.8 20.9	24·6 21·0	30.8	
	25·8 16·2	25.6 16·2	31.8	
	28 ·2 26·0		Z Z A Z	
	? :	: :	::	
ORISSA	T Birth Rate Death Rate	R Birth Rate Death Rate	U Birth Rate Death Rate	
14	(3 Cer	1 8u s5	•	

 $(NA = Not availa^{\mathbb{N}}le)$

Infant deaths by districts for each year of 1951-60 by rural and urban subdivisions TABLE VI

													Total for
Districts			1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1951—60
-			7	٣	4	3 0	9	7	∞	6	10	11	12
1. Kalahandi	:	H&D	:::	3,043 3,043	3,284 3,284 	2,684 2,688 2,658 26	3,676 3,666 10	3,836 3,823 13	6,617 6,604 13	3,052 3,025 27	3,765 3,750 15	3,096 3,080 16	33,053 32,933 120
2. Koraput	:	FKD	44 64 54 54	37 37	\$ \$ 5	25 10 10	17 7 10	47 19 28	52 34 18	119 67 52	64 38 26	23 23 4 4	505 340 165
3. Sambalpur	:	FKD	4,935 4,922 13	7,739 7,724 15	5,944 5,941 3	6,133 6,107 26	6,795 6,761 34	4,640 4,621 19	5,894 5.870 24	4,929 4,906 23	5,838 5,809 29	5,339 5,284 55	58,186 57,945 241
4. Bolangir	:	F # D	;::	6,974 6,937 37	5,865 5,821 44	5,331 5,305 26	7,197 7,132 65	6,554 6,512 42	6,113 6,065 48	5,380 5,349 32	5,740 5,649 91	4,668 4,558 110	53,822 53,327 495
5. Baudh-Khondmals	:	H M D	409 409 	1,562 1,562	066 066	952 952 	1,359 1,359	229 229 	219 219 	926 926 	953 929 24	945 931 14	8,544 8,506 3,8
6. Ganjam	:	⊢ ₩⊃	11,038 10,744 294	5,451 5,185 266	7,488 7,223 265	3,909 3,662 247	5,703 5,408 295	7,572 7,267 305	10,424 10,085 339	10,494 10,094 400	4,897 4,391 506	2,799 2,296 503	69,775 66,355 3,420
7. Sundargarh	:	T X D	:::	2,117	1,756 1,751 5	1,775 1,770 5	1,874 1,857 17	1,760 1,735 25	1,745 1,719 26	1,174 1,141 33	1,163 1,124 39	1,417 1,338 79	14,781 14,552 229
8. Dhenkanal	:	⊢≈⊃	715 715	3,806 3,806	3,726 3,726	3,561 3,561	3,549 3,549	3,816 3,816	4,095 4,095	3,287 3,287	4,517 4,477 40	4,546 4,514 32	35,618 35,546 72
9. Puri	:	H&D	8,552 8,204 348	6,337 5,972 365	6,530 6,200 330	5,931 5,654 277	5,180 4,840 340	3,936 3,606 330	6,525 6,167 358	6,876 6,356 520	8,015 7,570 445	8,664 8,108 556	66,546 62,677 3,869
i j. Keonjhar	:	HWD	:::	2,457 2,429 28	2,099 2,078 21	2,098 2,085 13	2,085 2,082 3	2,152 2,152	2,204 2,204	2,178 2,178	2,274 2,260 14	2,567 2,532 35	20,114 20,000 114

11,323 10,179 11,453 1,14,326	1,713 1,769 2,283 16,806	1,944 3,589 4,561 37,792
0,531 9,100 10,427 1,05,860	1,710 1,767 2,277 16,742	1,930 3,504 4,516 37,464
792 1,079 1,026 8,466	6 64	14 85 45 328
12,883 11 11,929 10 954	2,062 1 2,058 1	4,107 4,088 3
13,466	1,677	3,403
12,511	1,670	3,386
955	7	17
10,615	1,451	2,735
9,607	1,438	2,714
1,008	13	21
11,405	1,888	3,291
10,610	1,877	3,251
795	11	40
11,472	1,759	3,976
10,768	1,744	3,951
704	15	25
13,553	2,204	4,495
13,008	2,201	4,468
545	3	27
7,977 7,369 608	:::	3,691 3,656 35
ドネ ワ	FKD	TAU
: :	:	: `
11. Čuitack	12. Mayurbhanj	13, Balasore

TABLE VII (A)

Infant death rate by districts in rural and urban subdivisions during each of the years 1951-60

INFANT DEATH RATE

State/Districts			1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1951—60
(1)			(2)	©	(4)	(5)	(9)	6	(8)	(6)	(10)	(11)	(12)
1. Kalahandi	:	L & D	:::	102:3	124·3 124·3	107·1 106·5 295·5	115.2 115.2 120.5	122·6 123·0 62·8	256·8 258·2 67·0	125 ^{.9} 126 ^{.0} 115 ^{.4}	108·5 108·9 54·3	94·0 94·0 82·1	126·1 128·7 113·9
2. Koraput	:	FRD	51.9 51.9	46.8 46.8 	7.07 7.07	39·6 32·9 57·1	28.5 15.8 65.4	64·6 39·7 112·9	76.4 69.2 94:7	131·6 96·3 250·0	68·7 51·2 136·8	52·1 37·3 92·5	65·1 51·2 115·6
3. Sambalpur	:	FRD	186·1 186·7 89·0	196.4 196.8 93.2	171·2 171·5 40·0	168°9 169°2 122°1	164 [.] 4 164 [.] 7 119 [.] 3	149·0 149·6 77·6	172·6 173·4 76·9	150·6 151·0 93·9	123·4 124·6 41·8	145.4 145.3 151.1	161·5 163·3 80·5
4. Bolangir	2	⊢∝ ,	:::	182:4 183:0 117:1	178·6 179·6 105·8	166·6 167·7 72·4	158°8 159°6 104°7	179·5 180·7 86·1	220.4 221.7 126.0	186 ^{.3} 187 ^{.6} 85 ^{.3}	158·0 160·6 78·5	161°3 162°8 116°9	175°5 178°1 99°2
5. Baudh-Khondmals	als	FWD	163·1 163·1	192·4 192·4	183·5 183·5	183·6 183·6	165 ^{.6} 165 ^{.6} 	31.5 31.5 	34·9 34·9	174 [.] 9 174 [.] 9 	134:3 133:5 173:9	157-2 158-3 109-4	139·2 142·1 141·7
6, Ganjam	1	LAD	236·5 244·1 111·2	140·3 143·8 94·8	173·9 179·8 91·5	100°5 103°0 73°5	136·3 142·7 74·8	193·4 208·7 70·3	252:4 267:3 94:8	248.0 265.3 93.6	110.4 110.5 109.3	74·2 70·7 95·9	168·5 173·6 91·0
7. Sundargarh	:	FWD	:::	126.7 127.6	107·2 107·7 39·7	113·1 113·7 39·4	102.7 102.9 81.0	114·4 114·0 147·1	118.0 117.9 122.1	97·6 96·7 145·4	75·9 76·7 57·9	97·1 96·8 102·6	106·2 106·0 91·9
8. Dhenkanal	:	FRD	120·1 120·1	148.8 148.8	169·2 169·2 	141·5 141·5 	128 ^{.9} 128 ^{.9}	145·5 145·5	176 ^{.6} 176 ^{.6}	132·2 132·2	138·2 137·7 227·3	160 ^{.9} 160 ^{.4} 288 ^{.3}	147.5 146.1 257.8
9. Puri	1	FAD	249:3 251:5 206:4	180·6 179·4 202·8	167·6 168·4 153·2	146·2 146·8 135·5	124·5 123·7 135·8	88·1 86·3 114·1	170°5 172°8 138°9	181·9 182·9 170·7	160·8 162·8 133·5	185·2 189·4 140·2	163·2 166·4 153·1
10, Keonjhar	1	FAD	: ::	132·1 132·3 119·7	128·5 128·6 119•3	110.5 111.0 64.0	100·1 100·4 36·6	126·0 126·0	128·1 128·1	120·6 120·6 ··	108·0 108·7 54·9	123·5 124·6 7 5·6	119·1 120·0 78•4

11. Cuttack	1	[—	140-1	184.0	160·1	142.6	124.9	164:5	169.8	158.2	126.1	163.9	153.6
		æ	140.6	189-1	163·2	145.1	124.6	166.8	172.7	163.5	124.6	168.1	155.8
		D	134.1	112:5	124.5	115.6	128.2	139.4	140.5	110.8	139.7	131·1	127.6
12. Mayurbhanj	ı	H	:	87.2	70.4	80.3	2.09	0.89	82.2	72.5	29.5	77.5	72:5
		~	:	87.8	70.7	8.08	2.09	68.5	82.2	72.3	29.5	77.5	73.0
		Ω	:	14.6	47.2	39.1	59.4	45.8	27.8	3 .0	27.0	67.4	40.7
13. Balasore	1	F	152.7	177.3	158.2	125.3	107.0	124.3	138.4	114.0	95·1	130.2	129.9
	,	×	154.4	180.6	160.6	127.0	109.1	126.3	139-7	114.6	95.4	130.8	133.9
		D	2.69	44.0	46.5	59.5	30.0	30.2	44:5	45.9	84.5	89.1	54.4
14. Orissa	ļ	H	188.8	159.2	153-2	133.0	126.8	138.5	174.8	155.2	120.1	135.0	145.6
		~	191.4	160.5	154.6	134·3	127.6	139.8	177·1	157.0	120.5	135.9	149.8
		n	136.4	115.9	114.3	102.5	109.0	107.8	121.8	117·5	117.8	119.9	116.3

TABLE VII (B)

Infant death rate in each of the towns with population 30,000 and over during each of the years 1951-1960

S. S.	Towns		ا				Infa	Infant death rate	ıte				
No.			1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1951—60
æ	(2)		(3)	(4)	(5)	9)	6	(8)	(6)	(10)	(11)	(12)	(13)
-	Cuttack	:	133-59	104·43	119·64	113·53	120-93	136•60	147-31	108.97	144.75	130.80	127.70
2	Puri	:	206•40	222:44	160:30	140·75	145.71	119·19	134·70	181.56	128·35	128:51	156.33
m	Balasore	:	69·72	44.04	46.47	61.01	29.96	30.46	44.50	45-90	57·31	69.30	45.69
4	4 Sambalpur	:	89.04	104:84	46.15	89·29	126.90	92.69	114•29	110•39	66.99	NA	93.82
40	5 Berhampur	:	69.801	91.52	84 ·39	73-64	96.39	62.41	95.43	93.54	117.63	69.26	89.37
9	6 Bhubaneswar	:	N A	94.20	112:50	109·51	96.64	98.12	160.38	119.09	106.48	166·34	108-89
7	Rourkela	:	Y Y	NA	NA	Z A	NA A	N A	N A	N A	NA	X	Z Y
80	8 For all towns	:	137·51	116·75	114·37	105-85	112:22	105·56	129·05	117·14	121-90	122:94	117-97
													1

(NA=Not Available)

TABLE VIII

Infant deaths in the State of Orissa by age-groups for rural and urban subdivisions for each year of 1951—60

		(1 10.0)		Olban)		
		Under 1 week	1 week to 1 month	1 month to 6 months	6 months to 12 months	Total death under 1 year
		2	3	4	5	6
		9,483	8,972	9,889	9.019	37,363
R U		9,121 362	8,688 284	9,507 382	8,749 270	36,065 1,298
T		14,996	13,128	17,112	14.539	59,775
R U	• •	14,508 488	12,964 • 164	16,741	14,276	58,489 1,286
T		14,323	12,464			54,943
R U	• •	13,795 528	12,271	15,604	11,861	53,531
Т						1,412
R	• •	12,109	11,106	14,205	10,087	48,983 47,507
						1 476
R		12,971	12,464	15,247	9,738	52,236 50,420
						1,816
R	• •	13,199	11,733	15,933		53,088 51,347
	••		315	534	366	1,741
R	• •		13,358 13.141	20,482 19,824	14,269 13 794	62,940 61,137
U		453	217	658	475	1,803
T R		13,283 12,799	12,665	18,343	11,104	55,395
Û	••	484	268	603	10,563 541	53,499 1 ,8 96
T R		13,042	12,318	17,824	9,579	52,763
Û	• •	731	11,974 344	17,080 744	9,003 576	50,368 2,395
T		12,401	11,788	17,938	10,255	52,382
U U	• •	11,638 763	11,456 332	17,102 836	9,688 567	49,884 2,498
Ţ		1,32,399	1,20,811			5,29,868
R U	••	1,26,829 5,570	1,18,194 2,617	1,58,983 5,587	1,08,241 3,847	5,12,247 17,621
	RU TRU TRU TRU TRU TRU TRU TRU TRU TR	RU TRU TRU TRU TRU TRU TRU TRU TRU TRU T	T 9,483 R 9,121 U 362 T 14,996 R 14,508 U 488 T 14,323 R 13,795 U 528 T 12,720 R 12,720 R 12,109 U 611 T 13,595 R 12,971 U 624 T 13,725 R 12,971 U 624 T 13,725 R 13,199 U 526 T 14,831 R 14,378 U 453 T 13,283 R 12,799 U 484 T 13,042 R 12,799 U 484 T 13,042 R 12,311 U 731 T 12,401 R 11,638 U 763 T 1,32,399 R 1,32,399 R 1,32,399 R 1,32,399	Under 1 week to 1 month 2	Under I week 1 week to 1 month to 6 months 1 month to 6 months 2 3 4 T 9,483 8,972 9,889 R 9,121 8,688 9,507 U 362 284 382 T 14,996 13,128 17,112 R 14,508 12,964 16,741 R 14,323 12,464 16,019 R 13,795 12,271 15,604 U 528 193 415 T 12,720 11,311 14,636 R 12,109 11,106 14,205 Q 611 205 431 T 13,595 12,759 15,860 R 12,971 12,464 15,247 U 611 205 431 T 13,595 12,759 15,860 R 12,971 12,464 15,247 U 624 295 613	Under 1 week

 $\begin{tabular}{ll} TABLE IX (A) \\ \hline \begin{tabular}{ll} Deaths by age-groups and sex in the State of Orissa for each year of 1951—60 \\ \hline \begin{tabular}{ll} (M=Males & F=Females & T=Total) \\ \hline \end{tabular}$

Years			Under 1 vear	1—4 years	5—9 years	10—14 years	15—19 years	20—29 years	30—39 years	40—49 years	50—59 years	60 years and above	Total deaths
1			2	, E	4	S	9	7	80	6	10	11	12
1951	ZHH	:::	19,296 18,067 37,363	8,893 8,246 17,139	5,512 5,302 10,814	5,051 4,936 9,987	5,169 5,309 10,478	6,217 6,641 12,858	6,729 6,682 13,411	7,238 7,024 14,262	8,263 7,917 16,180	12,071 11,822 23,893	84,439 81,946 166,385
1952	Zu⊢	: :::	31,348 28,427 59,775	15,931 14,796 30,727	8,666 8,297 16,963	6,914 6,703 13,617	7,374 8,013 15,387	10,115 11,501 21,616	11,373 11,141 22,514	12,977 11,876 24,853	14,775 14,181 28,956	19,674 19,621 39,295	139,147 134,556 273,703
1953	ZHL	: :::	29,077 25,866 54,943	16,619 15,366 31,985	8,502 7,852 16,354	6,638 6,263 12,901	6,814 7,342 14,156	9,696 10,790 20,486	11,049 10,416 21,465	11,807 10,582 22,389	13,791 13,111 26,902	17,714 17,522 35,236	131,707 125,110 256,817
1954	≱⊭⊢	: :::	26,218 22,765 48,983	13,866 12,557 26,423	6,355 5,839 12,194	5,104 4,612 9,716	5,083 5,644 10,727	7,737 8,458 16,195	8,846 8,563 17,409	9,848 8,801 18,649	11,724 10,853 22,577	16,219 16,095 32,314	111,000 104,187 215,187
1955	¥⊬⊢	:::	27,845 24,391 52,236	14,381 13,040 27,421	5,943 5,479 11,422	4,504 4,219 8,723	4,748 4,976 9,724	6,691 7,740 14,431	7,696 7,347 15,043	8,586 7,461 16,047	10,310 9,656 19,966	16,559 16,417 32,976	107 ,2 63 100,726 207,989
9561	ጆቩጕ	:::	28,134 24,954 53,088	14,765 13,820 28,585	6,804 6,358 13,162	5,232 4,690 9,922	4,982 5,178 10,160	7,094 7,842 14,936	8,273 7,574 15,847	8,795 7,879 16,674	11,078 10,534 21,612	17,072 16,699 33,771	112,229 105,528 217,757
1957	ZHL	::::	33,209 29,731 62,940	20,956 19,161 40,117	7,858 7,406 15,264	5,352 5,127 10,479	5,509 5,706 11,215	8,052 9,515 17,567	9,447 9,070 18,517	10,580 9,368 19,948	13,740 13,063 26,803	20,073 20,450 40,523	134,776 128,597 263,373
1958	ZHF	:::	28,954 26,441 55,395	21,088 19,654 40,742	8,513 7,988 16,501	5,452 5,169 10,621	5,544 5,902 11,446	8,970 10,423 19,393	9,747 9,429 19,176	10 , 704 9,492 20,196	12,195 11,649 23,844	19,176 20,077 39,253	130,343 126,224 256,567
1959	Ж¤Г	:::	28,397 24,366 52,763	15,054 13,843 28,897	6,220 5,682 11,902	4,440 3,961 8,401	4,422 4,759 9,181	6,814 8,331 15,145	7,908 7,524 15,432	8,796 7,545 16,341	10,386 10,034 20,420	17,351 17,254 34,605	109,788 103,299 213,087
1960	ΣчГ	:::	28,126 24,256 52,382	17,007 15,302 32,309	6,332 5,666 11,998	4,364 3,834 8,198	4,331 4,809 9,140	6,601 7,817 14,418	7,504 7,060 14,564	8,346 7,267 15,613	10,235 9,615 19,850	17,384 16,820 34,204	110,230 102,446 212,676
Total for 1951—60	ያ ጀፑት	:::	280,604 249,264 5 29,86 8	158,560 145,785 304,345	70,705 65,869 136,574	53,051 49,514 102,565	53,976 57,638 111,614	77,987 89,058 167,045	88,572 84,806 173,378	97,677 87,295 184,972	116,497 110,613 227,110	173,293 172,777 346,070	1,170,922 1,112,619 2,283,541

Deaths by age-groups in districts during the decade 1951-60 TABLE IX (B)

Serial No.	State/Districts	Under one year	1—4 years	5—9 years	10—14 years	15—19 years	20—29 years	30—39 years	40 49 years	50—59 years	60 years and above	Total
€	(2)	. (3)	4)	(5)	9)	(7)	(8)	6)	(10)	(1:)	(12)	(13)
1 1	KALAHANDI				3 3 4							
	No. of deaths	33,053	31,127	11,562	7,502	7,936	12,477	13,426	14,944	17,734	20,449	170,210
	Percentage of deaths	19-42	. 18.29	61.9	4.41	4.66	7-33	7.89	8.78	10.42	12:01	100.00
2 K	KORAPUT											
	No. of deaths	505	702	275	215	260	496	544	541	640	1,285	5,463
	Percentage of deaths	9.24	12.85	5.03	3.94	4.76	80.6	96.6	06.6	11-72	23.52	100.00
∞ ~	SAMBALPUR			-								
	No. of deaths	58,186	28,339	11,630	8,524	9,682	17,281	18,042	18,861	23,442	40,416	234.403
	Percentage of deaths	24.82	12:09	4.96	3.64	4.13	7.37	7.70	8.05	10.00	17.24	100.00
+	BOLANGIR											
	No. of deaths	53,822	31,895	12,324	7,466	7,616	13,326	13,795	13,610	17,175	24,685	195,714
	Percentage of deaths	27.50	16.30	6.30	3.81	3.89	6.81	7.05	96.9	8.78	12.61	100.00
S BI	BAUDH-KHONDMALS											
	No. of deaths	8,544	5,208	2,232	1,474	1,623	2,957	3,485	4,150	7,545	8,857	46,075
	Percentage of deaths	18·54	11.30	4.84	3.20	3.52	6.42	7.56	9.01	16.38	19.22	100.00
9	GANJAM											
	No. of deaths	69,775	27,865	17,754	16,764	17,216	19,338	20,033	21,606	25,349	37,706	273,406
	Percentage of deaths	25.52	61.01	6.49	6.13	6.30	7.07	7.33	2.00	9.27	13·79	100.00
7 S	SUNDARGARH											
	No. of deaths	14,781	12,129	5,943	4,310	4,265	6,589	7,369	7,603	8,390	10,520	81,899
	Percentage of deaths	10.05	14.01	, C	4		1					

 ${\bf TABLE\ IX\ (B)}$ Deaths by age-groups in districts during the decade 1951—60 – ${\it concld.}$

DHENKANAL No. of deaths 15,618 26,049 8,305 4,708 4,825 8,160 8,509 9,004 12,649 20,236 138.	Seria 1 No.	State/Districts	Under one year	1—4 years	5—9 years	10—14 years	15—19 years	20—29 years	30—39 years	4049 years	50—59 years	60 years and above	1 Total
AL deaths 35,618 26,049 8,305 4,708 4,825 8,160 8,509 9,004 12,649 2,0280 1 ge of deaths 2579 18786 6'01 3'41 3'49 5'91 6'16 6'52 9'16 14'68 deaths 26,346 40,147 13,524 9,171 10,734 17,397 16,918 19,728 26,205 50,039 2 ge of deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 e of deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 e of deaths 20,134 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 e of deaths 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 ge of deaths 1225 13.70 7,15 492 5.71 9,55 9'84 9'.56 10'.55 17.38 ge of deaths 23,42 9,15 136,574 102,565 111,614 167,045 173,378 185,237 227,291 345,604 2. ge of deaths 239,288 304,345 136,574 102,565 111,614 167,045 173,378 185,237 227,291 345,604 2. ge of deaths 239,288 304,345 136,574 102,565 111,614 167,045 173,378 185,237 227,291 345,604 2. ge of deaths 239,20 13:33 5'98 449 489 7:32 7:39 8'12 9'95 1513	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
ge of deaths 35.618 26.049 8,305 4,708 4,823 8,160 8,509 9,004 12.649 20,280 ge of deaths 2579 18°86 601 3·41 3·49 5·91 6·16 6·52 9·16 14·68 ge of deaths 23·46 40.14 13.524 9·171 10,734 17.397 16/918 19.728 26,205 9·09 18·80 ge of deaths 23-46 13.524 9·171 10,734 17.497 7.882 7.235 8/97 18·90 ge of deaths 20.114 17.304 6,617 3.460 3.831 7.497 7.882 7.235 8/97 13.381 deaths 20.14 6.617 3.460 3.831 7.497 7.882 7.235 8/97 13.381 deaths 114.326 20.742 26.730 34.746 35.361 35.361 45.970 73.313		HENKANAL											
ge of deaths 2579 18°86 601 3.41 3.49 591 615 652 916 14.68 50.039 78 78 6546 40,147 13.524 9,171 10,734 17,397 16,918 19,728 26,205 30,039 78 66.43 66.54 40,147 13.524 9,171 10,734 17,397 16,918 19,728 26,205 30,039 78 66.43 66.26 7.30 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.89 7.		No. of deaths	35,618	26,049	8,305	4,708	4,825	8,160	8,509	9,004	12,649	20,280	138,107
deaths 66,546 40,147 13,524 9,171 10,734 17,397 16,918 19,728 26,205 50,039 2 ge of deaths 24-61 14.85 5·0 3·39 8·97 6-43 6·26 7·30 9·69 18·50 deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8/807 13.351 ge of deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8/807 13.351 ge of deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8/807 13.351 deaths 114,326 50,842 28.73 26,740 7,844 7,474 9,089 13,567 13,471 23,848 ge of deaths 17,72 14,760 7,841 7,474 9,089 13,683 14,507		Percentage of deaths	25·79	18.86	6.01	3.41	3.49	5-91	6.16	6.52	9.16	14.68	100.00
beaths 66,346 40,147 13,524 9,171 10,734 17,397 16,918 19,728 26,205 50,039 2 ge of deaths 24/61 14/85 5/00 3/39 8/97 6/43 6/26 7/30 9/69 18/50 18/50 26/14 17,304 6/617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 2 e of deaths 20,114 17,304 6/617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 2 e of deaths 114,326 50,842 28,759 24,750 26,700 34,746 38,361 38,611 45,970 73,131 4 2 e of deaths 16/806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 2 e of deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18/91 11,72 13,04 2 e of deaths 23,242 9/15 4/86 4/63 5/63 8/48 8/99 10/07 11/72 13,04 2 e of deaths 232,868 304,345 136,574 102,555 11,614 18/92 732 732 8/12 9/95 15/13	д 6	יURI											
ge of deaths 24-61 14-85 5-00 3-39 8-97 6-43 6-26 7-30 9-60 18-50 deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 ge of deaths 20,93 18-01 689 3-60 3-9 7-8 8-20 7-53 8,807 13,391 4-3 ge of deaths 114,326 50,842 28-759 24,750 26,700 34,746 35,361 45,970 73,131 4-8 ge of deaths 114,326 50,842 28-73 5-64 7-34 7-47 8-16 7-14 15-48 18-16 11-471 13-84 ANJ 11-725 13-10 7-15 4-92 8-71 9-55 9-84 9-56 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 11-34 </td <td></td> <td></td> <td>66,546</td> <td>40,147</td> <td>13,524</td> <td>9,171</td> <td>10,734</td> <td>17,397</td> <td>16,918</td> <td>19,728</td> <td>26,205</td> <td>50,039</td> <td>270.409</td>			66,546	40,147	13,524	9,171	10,734	17,397	16,918	19,728	26,205	50,039	270.409
deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 ge of deaths 20,914 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 deaths 20,93 18-01 668 5-23 5-64 734 747 8-16 9-71 13-85 ge of deaths 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 ge of deaths 16,806 17,978 9,808 6,747 7,837 13,098 13,507 14,471 23,848 ge of deaths 16,806 17,978 9,808 6,747 7,837 13,693 14,507 16,242 18,914 21,037 deaths 23,42 9.15 4.63 5.63 8-48 8-99 10-07 1172 13.04 <td></td> <td>Percentage of deaths</td> <td>24.61</td> <td>14.85</td> <td>5.00</td> <td>3•39</td> <td>26.8</td> <td>6.43</td> <td>92.9</td> <td>7.30</td> <td>69.6</td> <td>18.50</td> <td>100.00</td>		Percentage of deaths	24.61	14.85	5.00	3•39	26.8	6.43	92.9	7.30	69.6	18.50	100.00
deaths 20,114 17,304 6,617 3,460 3,831 7,497 7,882 7,235 8,807 13,351 ge of deaths 20-93 18·01 6·89 3·60 3·99 7°80 8°20 7·53 9·16 13.89 deaths 114,326 50.842 28·759 24/750 25/700 34/746 35,361 38,611 45,970 73,131 4 ge of deaths 24·16 10·74 6·08 5·23 5·64 7·34 7·47 8·16 9·71 15·45 ANJ Associated 11.72 13·10 7·15 4·92 5·71 9·55 9·84 9·56 17·471 23·848 ge of deaths 37,792 14,760 7·84 7·47 9·089 13·683 14·507 16·24 17·34 ge of deaths 33·792 14·760 7·84 102·563 111,614 16·704 17·37 8·19 10·07 1		CEONJHAR											
ge of deaths 20-93 18·01 6'89 3·60 3·99 7·80 8·20 7·53 9·16 13·89 deaths 114,326 50,842 28.759 24,750 26,700 34,746 35,361 38,611 45,970 73,131 4 ge of deaths 24·16 10·74 6'08 5·23 5·64 7·34 7·47 8·16 9·71 15·45 ANJ 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 ge of deaths 12·25 13·10 7·15 4·92 5·71 9·55 9·84 9·56 17·38 deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 deaths 23·42 9·15 4·63 5·63 8·48 8·99 10·07 11·72 13·04 ge of deaths 23·20 13·33 5·98 <t< td=""><td></td><td></td><td>20,114</td><td>17,304</td><td>6,617</td><td>3,460</td><td>3,831</td><td>7,497</td><td>7,882</td><td>7,235</td><td>8,807</td><td>13,351</td><td>860'96</td></t<>			20,114	17,304	6,617	3,460	3,831	7,497	7,882	7,235	8,807	13,351	860'96
deaths 114,326 50,842 28,759 24,750 26,700 34,746 35,361 38,611 45,970 73,131 4 ANJ ANJ Ase of deaths 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 ge of deaths 12:25 13:10 7.15 4.92 5.71 9.55 9.84 9.56 10.55 17.38 ge of deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 ge of deaths 23:42 9:15 4.63 5.63 8:48 8:99 10:07 11.72 13:04 ge of deaths 35:28 304,345 136,574 102,565 111,614 167,045 173,27 9:95 15:13 9:95 15:13		Percentage of deaths	20-93	18.01	68.9	3.60	3-99	7.80	8.20	7-53	9.16	13·89	100.00
deaths 114,326 50,842 28,759 24,750 26,700 34,746 35,361 38,611 45,970 73,131 4 ANJ ANJ 10.74 6.08 5.23 5.64 7.34 7.47 816 971 15,45 ANJ 10.806 17,978 9,808 6,747 7,837 13,098 13,507 14,471 23,848 ge of deaths 12.25 13:10 7.15 4.92 5.71 9.55 9.84 9.56 10.53 17.38 deaths 12.25 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 ge of deaths 23.42 9.15 4.63 5.63 8.48 8.99 10.07 11.72 13.04 ge of deaths 529,868 304,345 136,574 102,565 111,614 167,045 7.59 8.12 9.95 15.13		UTTACK											
ANJ Jeachs 24·16 10·74 6·08 5·23 5·64 7·34 7·47 8·16 9·11 15·45 Jeachs 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 Jeachs 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 Jeachs 23·42 9·15 4·86 4·63 5·63 8·48 8·99 10·07 11·72 13·04 Jeachs 23·88 304,345 102,565 111,614 167,045 173,378 185,257 27,291 345,604 2. Jeachs 23·88 304,345 102,565 111,614 167,045 173,378 185,257 29·15 13·15		No. of deaths	114,326	50,842	28,759	24,750	26,700	34,746	35,361	38,611	45,970	73,131	473,196
ANJ deaths 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 ge of deaths 12-25 13·10 7·15 4·92 5·71 9·55 9·84 9·56 10·55 17·38 deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 deaths 23·42 9·15 4·86 4·63 5·63 8·48 8·99 10·07 11·72 13·04 deaths 309,868 304,345 136,574 102,565 111,614 167,045 173,378 185,257 227,291 345,604 2,3 ge of deaths 23·20 13·33 5·98 4·49 4·89 7·32 7·59 8·12 9·95 15·13		Percentage of deaths	24.16	10-74	80.9	5·23	5.64	7.34	7-47	8.16	9.71	15.45	100-00
deaths 16,806 17,978 9,808 6,747 7,837 13,098 13,507 13,122 14,471 23,848 ge of deaths 12:25 13:10 7:15 4:92 5·71 9·55 9·84 6·56 10·55 17:38 deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 ge of deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 deaths 23:42 9·15 4·86 4·63 5·63 8·48 8·99 10·07 11·72 13·04 deaths 529,868 304,345 136,574 102,565 111,614 4·89 7·35 8·12 9·95 15·13 ge of deaths 23:20 13·33 5·98 4·49 4·89 7·35 7·59 8·12 9·95 15	12 N	MAYURBHANJ											
ge of deaths 12·25 13·10 7·15 4·92 5·71 9·55 9·84 9·56 10·55 17·38 deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 ge of deaths 23·42 9·15 4·86 4·63 5·63 8·48 8·99 10·07 11·72 13·04 deaths 529,868 304,345 136,574 102,565 111,614 167,045 173,378 185,257 227,291 345,604 2,39 ge of deaths 23·20 13·33 5·98 4·49 4·89 7·32 7·59 8·12 9·95 15·13		No. of deaths	16,806	17,978	808,6	6,747	7,837	13,098	13,507	13,122	14,471	23,848	137,222
deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 ge of deaths 23·42 9·15 4·86 4·63 5·63 8·48 8·99 10·07 11·72 13·04 adaths 529,868 304,345 136,574 102,565 111,614 167,045 173,378 185,257 227,291 345,604 2, ge of deaths 23·20 13·33 5·98 4·49 4·89 7·32 7·59 8·12 9·95 15·13		Percentage of deaths	12.25	13·10	7-15	4.92	5.71	9.55	9.84	95.5	10.55	17.38	100.00
of deaths 37,792 14,760 7,841 7,474 9,089 13,683 14,507 16,242 18,914 21,037 211 23 24 2 9 15 4 8 6 4 6 3 5 6 3 8 4 8 8 9 9 10 07 11 72 13 04 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, 13 B	3ALASORE											
of deaths		No. of deaths	37,792	14,760	7,841	7,474	680'6	13,683	14,507	16,242	18,914		161,339
of deaths 529,868 304,345 136,574 102,565 111,614 167,045 173,378 185,257 227,291 345,604 entage of deaths 23·20 13·33 5·98 4·49 4·89 7·32 7·59 8·12 9·95 15·13		Percentage of deaths	23.42	9.15	4.86	4.63	5.63	8.48	8-99	10.01	11.72	13.04	100.00
529,868 304,345 136,574 102,565 111,614 167,045 173,378 185,257 227,291 345,604 23·20 13·33 5·98 4·49 4·89 7·32 7·59 8·12 9·95 15·13	14	ORISSA								-			
23·20 13·33 5·98 4·49 4·89 7·32 7·59 8·12 9·95 15·13			529,868	304,345	136,574	102,565	111,614	167,045	173,378	185,257	127,291		2,283,541
		Percentage of deaths	23·20	13·33	86.5	4.49	4.89	7.32	7.59	8.12	9.95	15·13	100.00

TABLE X

Deaths by causes by districts to the decade 1951—60 by rural and urban subdivisions (T=Total R=Rural U=Urban)

Districts		Cholera	Small- pox	Fevers	Dysentery and Diarrhoea	Respira- tory diseases	Wounds and accidents	Other causes	Total
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Kalahandi	T	4,544	10,030	133,949	3,246	1,975	3,215	13,251	170,210
	R	4,501	· 9,977	133,710	3,207	1,894	3,191	12,918	169,398
	U	43	53	239	39	81	24	333	812
2. Koraput	T	122	367	2,694	438	671	44	1,127	5,463
	R	118	251	1,945	361	305	44	1,097	4,121
	U	4	116	749	77	366	. ·	30	1, 34 2
3. Sambalpur	T	1,237	4,613	128,470	12,839	12,472	2,616	72,156	234,403
	R	1,234	4,551	127,639	12,697	12,345	2,601	71,715	232,782
	U	3	62	831	142	127	15	441	1,621
4. Bolangir	T	2,336	4,841	127,246	5,875	5,386	1,961	48,069	195,714
	R	2,327	4,792	125,742	5,733	5,281	1, 890	47,253	193, 0 18
	U	9	49	1,504	142	105	71	816	2,696
5. Baudh-Khondmals	T R U	716 716	1,510 1,483 27	34,211 34,179 32	1,437 1,435 2	759 747 12	503 499 4	6,9 3 9 6,838 1 0 1	46,075 45,897 178
6. Ganjam	T	5, 0 79	12,223	128,090	15 ,24 7	8,374	3,047	101,346	273,406
	R	4,940	11,576	125,070	13 ,07 9	7,036	2,842	93,803	258,346
	U	139	647	3,020	2,168	1,338	205	7,543	15,060
7. Sundargarh	T	427	1,084	54,106	5,188	3,265	1,661	16,168	81,899
	R	427	1,080	53,390	5,102	3,175	1,637	15,865	80,676
	U	••	4	716	86	90	24	303	1,223
8. Dhenkanal	T R U	1,112 1,107 5	2,552 2,552	87,224 87,157 67	6,379 6,364 15	2,406 2,403 3	2,821 2,820 1	35,613 35,530 83	138,107 137,933 174
9. Puri	T	2,945	6,080	118,843	22,456	10,475	2,680	10 6,93 0	270,409
	R	2,924	5,9 0 0	11 3 ,679	20,130	9,611	2,379	99,4 0 7	2 54,030
	U	21	1 8 0	5,164	2,326	864	301	7,523	16,379
10 Keonjhar	T R U	416 416	1,403 1,399 4	77,664 77,241 423	1,822 1,811 11	575 537 38	1,235 1,214 21	12,983 12,864 119	96 ,098 95 ,482 616
11. Cuttack	T	12,062	14,783	193,270	52,341	22,080	8,425	170,235	473,196
	R	12,019	14,211	18 8,57 3	49,393	20,632	8,249	150,877	4 43, 954
	U	43	572	4,697	2,948	1,448	176	19,358	29,242
12. Mayurbhanj	T	276	1,276	111,954	3,863	2,976	2, 25 8	14,619	137,222
	R	275	1,273	111,723	3,770	2,899	2, 23 7	14,365	136, 5 42
	U	1	3	231	93	77	21	254	680
13. Balasore	T	3,168	2,216	114,852	2,965	995	3,081	34,062	161,339
	R	3,129	2,163	114,333	2,751	905	3,005	32,910	159,196
	U	39	53	519	214	90	76	1,152	2,143
Total for all districts	T	34,440	62,978	1,312,573	134,096	72,409	33,547	633,498	2,283,541
	R	34,133	61,208	1,294,381	125,833	67,770	32,608	595,442	2,211,375
	U	307	1,770	18,192	8,263	4,639	939	38,056	72,166

Deaths from Cholera by districts in the rural and urban subdivisions during each of the years 1951-60 TABLE XI

Proportion per 1,000 total deaths 1951—60	26·70 26·57 52·96	22.33 28.63 2.98	52·77 53·01 1·85	11.94 12.06 3.34	15·54 15·60 	18·58 19·12 9·23	5·21 5·29 · · ·	8.05 8.03 28.74	10.89 11.51 1.28	4·33 4·36 ··
1951—60	4,544 4,501 43	122 118 4	1,237 1,234 3	2,336 2,327 9	716 716 	5,079 4,940 139	4 27 4 27	1,112 1,107 5	2,945 2,924 21	416 416
1960	47 47	:	18 18 :	:::	44:	39 39 :	27 27 :	mm ;	:::	44 :
1959	ww:	:::	40 04 :	10 5.5	∹ → :	320 320	19 19	10 5	128 116 12	 :
1958	4,074 4,031 43	=== ;	184 181 3	582 582	21 21	1,256 1,205 51	350 350	70 70	603 598 5	99:
1957	∞∞ :	4 ;4	445 54 :	8 8 :	:::	2 2 :	010 :	731 731	418 +18	92 :
1956	22	44 ;	37 37	233	ัพพ :	355 351 4	ww :	122 122 	484 484 	180 180
1955	61 61	:::	4 4 4 4 :	711	<i>uu</i> :	101 101 	:::	:::	145 145 	29 29
1954	47 47 	:::	33	16 16	44 :	323 322 1	:::	νν :	93 93 :	388:
1953	82 82 :	112	26 26 	133	:::	464 441 23	:::	. 63 :	263 262 1	22 :
1952	173 173		780	1,621 1,618 3	665 665 	179 158 21	16 16	78 78 	 658 	∞∞:
1951	:::	⊣⊣:	30	:::	18 :	1,978 1,939 39	:::	30	153 150 3	:::
	L & D	FRD	てまり	てなじ	FKD	L % D	T & D	FMD.	TRU	T R
State/Districts	1. Kalahandi	2. Koraput	3. Sambalpur	4. Bolangir	5. Baudh- Khondmals	6. Ganjam	7. Sundargarh	8. Dhenkanal	⁹ . Puri	10. Keonjhar

25·49 27·07 1·47	2:01 2:01 1:47	19.64 19.66 18.20	15.08 15.44 4.25
12,062 12,019 43	276 275 1	3,168 3,129 39	34,440 34,133 307
130 130	. 24	33 2	308 306 2
888 : 83 :	18 18 :	115 113 2	754 730 24
266 264 2	95 95 ••	287 277 10	7,795 7,681 114
1,445 1,442 3	62	553 553	3,501 3,494
3,997 3,992 5	26 26	229 218 11	5,48 7 5,4 6 7 20
96 95 1	21	69 :	570 568 2
149 148 1	10 9	116 116	859 856 3
2,407 2,405 2	: 50	718 718	4,220 4,194 26
1,860 1,837 . 23	22	693 685 8	6,754 6,699 55
1,629 $1,623$ 6	:::	353 347 6	4,192 4,138 54
FKD	TAD	T & O	FRU
11. Cuttack	12. Mayurbhanj	13. Balasore	14. Orissa

Deaths from Smallpox by districts in the rural and urban subdivisions during each of the years 1951-60 TABLE XII

Proportion per 1,000 total deaths	13	58-93 58-90 65-27	67·18 60·91 86·44	19·68 19·55 38·25	24·74 24·83 18·18	32·77 32·31 151·69	44·70 49·73 39·91	13:24 13:39 3:27	18.48 18.50	22.48 23.23 10.99
1951—60	12	10,030 9,977 53	367 251 116	4,613 4,551 62	4,841 4,792 49	1,510 1,483 27	12,223 11,576 647	1,084 1,080 4	2,552 2,552	6,080 5,900 180
1960	11	888 875 13	19 14 5	205 204 1	307 301 6	176 176	125 125 	122 120 2	10 10 10	. 22
1959	10	5,325 5,315 10	11 14 14 :	710 710	2,173 2,162 11	674 647 27	888 4	234 234	42 24 :	232 224 8
1958	6	2,325 2,297 28	267 156 111	1,406 1,394 12	1,937 1,915 22	519 519 	7,924 7,628 296	531 529 2	576 576	3,699 3,623 76
1957	8	132 130 2	44:	92 :	18	9 :	459 190 269	35	1,359 1,359	979 930 49
1956	7	38 38	:::	٥٥:	mm :	4 ⁶ :	155 155	44 :	265 265	41 40 1
1955	9	110 110	:::	54 54	25 15 10	:::	77 76 1	r. :	25	4 10 4
1954	5	202 202 	4 4 ;	169 169 	86 86 	:::	153 153	11 ::	15 15	45 45
1953	4	345 345	10	61 61	19 19 :	13 13	601 599 2	۲٠:	17	203 199 4
1952	я	 599	ww :	789 787 2	261 261 	43 43	387 386 1	123	167 167	559 557 2
1951	2	:::	46 46 	1,118 1,071 47	:::	77 77	1,450 1,376 74	:::	76 77 	306 270 36
70		L&D	FRD	\vdash \thickapprox \supset	トなり	TWD	TWD	FRD	LaD	LAD
State/Districts	1	1. Kalahandi	2. Koraput	3. Sambalpur	4. Bolangir	5. Baudh- Khondmals	6. Ganjam	7. Sundargarh	8. Dhenkanal	9. Puri

TABLE XIII Deaths from Fever by districts in the rural and urban subdivisions during each of the years 1951—60 (T=Total R=Rural U=Urban)

						101 101		ulai O	- Oi Dali)					
State/Districts	st:												T 2	Proportion per 1,000 total deaths
			1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1951—60	1951-60
-			2	3	4	5	9	7	8	6	10	11	12	13
1. Kalahandi	FΚD	:::	:∔:	14,398	16,899 16,899 	13,456 13,398 58	14,466 14,425 41	15,412 15,405 7	16,991 16,953 38	15,022 14,979 43	13,609 13,581 28	13,696 13,672 24	133,949 133,710 239	786-96 789-32 294-33
2. Koraput	FKD	:::	207 207 	236 236	313	258 177 81	224 148 76	233 136 97	321 213 108	271 155 116	303 202 101	328 158 170	2,694 1,945 749	493·14 471·97 558·12
3. Sambalpur	TRU	:::	10,667 10,631 36	16,076 16,008 68	14,531 14,518 13	13,710 13,640 70	12,735 12,648 87	10,076 9,991 85	14,842 14,764 78	12,953 12,862 91	11,363 11,199 164	11,517 11,378 11,378	128,470 127,639 831	548.07 548.32 512.65
4. Bolangir	FWD	:::	:::	17,642 17,574 68	17,178 17,0 54 124	12,966 12,877 89	13,969 13,857 112	13,843 13,734 109	16,713 16,553 160	12,990 12,854 136	11,616 11,267 349	10,329 9,972 357	127,246 125,742 1 504	650·16 651·45 557·86
5. Baudh- Khondmals	T X D	:::	1,857 1,857	4,618 4,618	3,711 3,711	3,660	4,151 4,151	4,064 4,064	3,885	3,306	2,364 2,340 240	2,596 2,587 8	34,211 34,179 37	742.51 744.69 179.78
6. Ganjam	LAD	:::	17,694 17,324 370	13,363 13,028 335	17,014 16,767 247	10,186 9,959 227	10,314 10,063 251	9,862 9,617 · 245	15,148 14,878 270	13,462 13,094 368	11,793 11,431 362	9,254 8,909 345	128,090 125,070 3,020	468·50 484·12 200·53
7. Sundargarh	LXD	:::	:::	7,025 6,995 30	6,425 6,385 40	6,532 6,500 32	6,515 6,479 36	6,342 6,286 56	6,526 6,422 104	5,647 5,535 112	4,475 4,378 97	4,619 4,410 209	54,106 53,390 716	660.64 661.78 585.45
8. Dhenkanal	\vdash 2	:::	2,702 2,702 	8,808 8,808	9,397 9,397 	8,951 8,951	8,931 8,931	9,139 9,139 	12,206 12,206	9,625 9,625	8,509 8,472 37	8,956 8,926 30	87,224 87,157 67	631.88 631.88 38 5.0 6
9. Puri	TRU	:::	11,994 11,620 374	15,334 14,798 536	13,738 13,267 471	11,001 10,576 425	9,917 9,421 496	8,905 8,358 547	12,645 12,016 629	12,180 11,539 641	10,211 9,787 424	12,918 12,297 621	118,843 113,679 5,164	439-49 447-50 351-38
10. Keonjhar	エなひ	:::	:::	8,759 8, 63 2 127	8,907 8,825 82	8,220 8,141 79	7,522 7,499 23	7,732	10,032 10,032	9,676	7,683 7,632 51	9,133 9,072 61	77,664	808.17 808.96 808.96
11. Cuttack	しょひ	:::	19,783 19,276 507	27,883 27,466 417	24,976 24,405 571	19,675 19,203 472	15,725 15,284 441	17,830 17,297 533	21,610 21,028 582	16,237 15,897 340	13,045 12,639 406	16,506 16,078 16,078	193,270 188,573 4,697	408:46 424:78
12. Mayurbhanj	FRD	:::	:::	12,676 12,641 35	12,576 12,540 36	11,491 11,463 28	9,571 9,539 32	10,564 10,523 41	15,011 14,990 21	14,592 14,576 16	11,704	13,769 13,761 8	111,954 111,723 131,723	815.86 818.23 330.71
13. Balasore	FKD.	::•	15,740 15,675 65	14,875 14,842 33	1 4,5 32 14,499 33	12,002 11,950 52	8,494 8,4 5 5 39	8,255 8,243 12	11,255 11,228 27	9,798 9,785 13	8,254 8,096 158	11,647 11,560 87	114,852 114,333 519	711.87 718:19 242:18
14. Orissa	⊢≈⊃		80,644 79,292 1,352	161,693 160,044 1,649	160,197 158,580 1,617	132,108 130,495 1,613	122,534 120,900 1,634	122,257 120,525 1,732	157,185 155,168 2,017	135,759 133,883 1,876	114,929 112,714 2,215	125,267 1 122,780 1 2,487	1,312,573 1,294,381 18,192	574°80 585°33 252°09

TABLE XIV

Live births, still births, infant deaths by districts and their rates for the decade 1951—60

	State/Districts		Live Births	Still Births	Infant Deaths	Birth Rate	Still Birth Rate	Infant Death Rate
	1		2	3	4	5	6	7
1.	Kalahandi		262,118	9,733	33,053	31.0	35.8	126·1
2.	Koraput	••	7,758	96	505	11:3	12.2	65.1
3.	Sambalpur		360,366	806	58,186	25.7	2.2	161 ·5
4.	Bolangir		306,767	3,175	53,822	34.1	10.2	175.5
5.	Baudh-Khondmals		61,367	1,500	8,544	12.7	23.9	139-2
6.	Ganjam	• •	414,196	4,926	69 , 77 5	24.2	11.8	168.5
7.	Sundargarh		139,146	3,363	14,781	23.3	23.6	106.2
8.	Dhenkanal		241,441	3,113	35,618	25.9	12.7	147:5
9.	Puri		407,872	20,590	66,546	23.8	48-1	163.2
10.	Keonjhar		168,927	4,372	20,114	28.0	25.2	119·1
11.	Cuttack	••	747,032	28,556	114,326	26.8	36.8	1 53° 0
12.	Mayurbhanj		231,897	2,981	16,806	23.0	12.7	72:5
13.	Balasore	••	290,919	11,941	37,792	23.2	39·4	129-9
14.	Orissa	••	3,639,806	95,152	529,868	25.4	25.5	145 ·6

TABLE Deaths by months during 1960 in the State of Orissa due to $(M\!=\!\text{Males}\quad F\!=\!\text{Females}\quad R\!=\!Rural$

		Jaı	nuary	Fe	bruary	M	arch
Causes of	death	M	F	М	F	M	F
1		2	3	4	5	6	7
Cholera	R U T	3	5	6 6	2	4 4	2
Smallpox	R U T	126 126	132 132	86 2 88	108 1 109	107 3 110	129 3 132
Fever	R U T	4,781 110 4,891	4 ,67 3 106 4,779	4 ,34 3 98 4,441	4,261 81 4,342	4,905 102 5,007	4,407 82 4,489
Dysentery and Diarrhoea	R U T	40 2 48 45 0	350 31 381	358 28 386	335 19 354	378 29 4 0 7	358 27 385
Respiratory diseases	R U T	309 30 339	183 22 205	236 20 256	148 11 159	315 29 344	199 15 214
Wounds and accidents	R U T	78 8 86	73 3 76	66 6 72	52 2 54	102 7 109	103 8 111
Other causes	R U T	2,586 239 2,825	2,444 188 2,632	2,132 206 2,338	2,054 171 2,225	2,184 167 2,351	2,050 151 2,201
Total deaths	$egin{array}{cccc} R & \dots & & \\ U & \dots & & \\ T & \dots & & \end{array}$	8,285 435 8,720	7.860 350 8,210	7,227 360 7,587	6,960 285 7,245	7,99 5 337 8,332	7,248 286 7 ,534

XV various causes classified by sex for rural and urban subdivisions $U\!=\!Urban \quad T\!=\!Total\)$

	April		May		June	Ji	uly
M	F	M	F	М	F	М	F
. 8	9	10	11	12	13	14	15
4	8	15	18	20	21	16	9
4		1 16	1 19	20	21	16	
137	133	133	126	120	115	97	83
2 139	1 134	1 134	3 129	120	5 120	1 98	1 84
5,493 97	4,968 80	5,933 79	5,689 82	4,973 91	4,697 90	5,205 110	5,005 112
5,590	5,048	6,012	5,771	5,064	4,787	5,315	5,117
431 38	420 35	559 36	458 33	491 34	396 26	636 7 7	524 53 577
469	455	595	491	525	422	713	577
264 34	173 23	306 18	186 15	249 17	181 8	292 23	197 20 217
298	196	324	201	266	189	315	217
119	103	186	15 <u>5</u>	168	144	17 <u>5</u>	150
11 130	5 108	8 194	7 162	5 173	3 147	7 182	6 1 5 6
2,310	2,092	2,625	2,530	2,462	2,338	2,929 239	2,657
202 2,512	149 2,241	185 2,810	169 2,699	186 2,648	137 2,475	3,168	161 2,818
8,758 384 9,142	7,897 293 8,190	9,757 328 10,085	9,162 310 9,472	8,483 333 8,816	7,892 269 8,161	9,350 457 9,807	8,6 25 35 3 8,97 8

TABLE Deaths by months during 1960 in the State of Orissa due to $(\ M\!=\!M\,ales\ F\!=\!Females\ R\!=\!Rural$

Course	ما مدمله		A	ugust	Sep	otember	Oct	ober
Causes	of death		M	F	М	F	м	F
	1		16	17	18	19	20	21
Cholera	R U	• •	7	13	12	6	12	10
	Ť	• •	· · · · · · · · · · · · · · · · · · ·	13	12	· 6	i2	jö
Smallpox	R U		46 2	42 3	40	37	21	17
	Ť	• •	48	45	40	37	21	iż
Fever	R U T		5,918 157 6,075	5,662 141 5,803	5,991 162 6,153	5,838 126 5,964	5,372 142 5,514	5,352 131 5,483
Dysentery and Diarrhoea	R U T		630 82 712	614 53 667	669 57 726	594 39 633	574 44 618	522 37 559
Respiratory disease s	R U T		279 30 309	189 21 210	279 26 305	245 18 263	297 34 331	204 19 223
Wounds and accidents	R U T	• • • • • • • • • • • • • • • • • • • •	190 11 201	144 4 148	207 13 220	201 10 211	204 11 215	224 13 237
Other causes	R U T	••	3,098 274 3,372	2,826 184 3,010	2,736 208 2,944	2,668 183 2,851	2,354 250 2,604	2,121 208 2,329
Total deaths	R U T		10,168 556 10,724	9,490 406 9,896	9,934 466 10,400	9,589 376 9,965	8,834 481 9,315	8,450 408 8,858

XV various causes classified by sex for rural and urban subdivisions—concld. U=Urban $T=T_0tal$)

	Total		ember	Dec	vember	No
Т	F	M	F	М	F	М
28	27	26	25	24	23	22
30	157	149	17	12	46	38
30	1 158	1 150	i7	12	4 6	38
1,94 2	978 17	971 12	28	22	28	36 1
1,97	995	983	28	22	28	37
122,78	59,872	62,908	4,447	4,930 89	4, 873 63	5,064 82
2,48 125,26	1,168 61,040	1,319 64,227	74 4,521	5,019	4 , 936	5,146
11,62	5,475	6,147	446	526	458	493
92 12,55	403 5,878	525 6,672	28 474	30 556	22 480	22 515
15,75	2,346	3,413	226	287	215	300
566 6 ,2 93	214 2,560	319 3,732	23 249	30 317	19 234	28 328
3,44	1,641	1,805	126	148	166	162
16: 3,609	67 1,708	96 1,901	2 128	5 153	4 170	4 166
58,06	28,085	29,980	2,140	2,341	2,165	2,223
4,60° 62,67′	2,022 30,10 7	2,585 32,5 65	181 2,321	223 2,564	140 2,305	206 2,429
203,92	98,554	105,373	7,430	8,266	7,951	8,316
8,749 212,676	3,892 1 02, 446	4,857 110,230	308 7,738	377 8, 643	248 8,199	343 8,659

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TABLE XVI

List of urban registration units

District	Town	Popula- tion (1961)	District	Tówn	Populat- ion (1961)
1	2	3	1	2	3
1. Kalahandi	Bhawanipatna	14,300	7. Sundargarh	Sundargarh	11,329
2. Koraput	Jeypore	25,291		Birmitrapur	20,301
3. Sambalpur	Deogarh	6,839	8. Dhenkanal	Bhuban	9,476
	Jharsuguda	19,227	9. Puri	Puri	60,815
	Sambalpur	38,915	<i>71</i> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Bhubaneswar	38,211
4. Bolangir	Bargarh Bolangir	15,375 18,663	10. Keonjhar	Keonjhar	12,624
	Sonepur	7,108	11. Cuttack	Cuttack	146,308
	Patnagarh	7,592		Kendrapara	15,830
	Titlagarh	7,433		Jajpur	13,802
	Kantabanji	8,863	12. Mayurbhanj	Baripada	20,301
5. Baudh-khond	dmals' Baudh	6,088	42 72 1	D.1	22.024
6. Ganjam	Berhampur	76,931	13. Balasore	Balasore	33,931
	Parlakhemundi	22,708		Bhadrak	25 ,285



FERTILITY SURVEY

The object of the post-census fertility survey
was to collect information on
Object the fertility pattern of Indian women
and incidentally to obtain information
on working force, since each individual in the houses
hold was being followed in any case. All evermarried women were to be included within the
scope of the survey and their fertility differentials
were to be studied by the various characteristics.

Once population is reckoned as an important factor influencing development and planning in a welfare State, it is imperative to study the factors conributing to its variation. Of the three components of population variation, birth and death are certainly important as migration contributes to a negligible part to population dynamics. Thus, the study of the fertility and mortality patterns goes a long way to unfold revealing truths and predictions about the population pattern which, as a complex phenomenon in itself, is intimately connected with any form of socio-economic planning.

The population growth in Orissa has been conspicuously dynamic during the decade 1951—60. Enumeration and registration of data on births and deaths in Orissa is grossly incomplete and the vital statistics thrown up by them are too deficient and unreliable to indicate any accurate trend. The need to undertake and complete the sample census on fertility in the post-census period thus received added importance in the context of the prevailing deficient data.

The idea to make fertility the subject of a sample survey to be conducted Frame, nature of sample unit, design, etc.

Organization has control was initially mooted at the first conference of Superintendents of Census Operations in 1959. In the post-census period the first guide lines from the Registrar [3 Census—8]

General, India were received in Orctober, 1961 when the bulk of the sorting work was going to be finished and a good complement of staff were available for the special sample survey.

It was decided that the frame should correspond broadly to the Census territorial divisions and those sample villages and urban Blocks as were selected for the post-enumeration check should be earmarked as samples for this special survey.

The Census territorial divisions correspond closely to the administrative divisions from the district downwards to the village. In urban localities, the Town areas and thereafter the Municipal or Union wards come into the picture. The smallest Census territorial unit is a Block which comprises either one whole village or two or more whole villages so as to comprise 150 households or 750 persons on the average in the rural areas and 120 households or 600 persons in the urban areas.

Accordingly, in the State of Orissa fertility survey was to be undertaken in 147 rural and 84 urban P. E. C. Blocks which were 1 and 5 per cent respectively of the total rural and urban Blocks in the But as some of these P. E. C. Blocks in the coastal districts of Orissa had been badly affected by flood, some Blocks were excluded and finally 12.1 rural and 79 urban P. E. C. Blocks were selected in consultation with the Deputy Registrar General. The districtwise distribution of the sample Blocks is given in the Table below. The fertility survey covered a population of 1,26,584 of which 84,844 were rural and 41,740 were urban. The population comprised 61,042 females of which 25,264 were never married and 35,778 were evermarried females.

Table 1

Districtwise distribution of Sample Blocks

District	Sample	Blocks
District	Rural	Urban
Kalahandi	 7	2
Koraput	 5	6
Sambalpur	 15	10
Bolangir	 11	2
Baudh-Khondmals	 2	1
Ganjam	 15	12
Sundargarh	 8	9
Dhenkanal	 9	3
Puri	 10	10
Keonjhar	 3	2
Cuttack	 20	12
Mayurbhani	 6	3
Balasore	 10	6
Total	 121	79

Two schedules were prescribed for fertility survey. One was a Household schedule Schedules (Appendix A) and the other a Fertility slip (Appendix B).

The household schedule had 3 sections. In section I the names of all persons of the household present in the village or town at the time of investigator's visit were to beentered. Such other details as their relationship with the household, sex, age and marital status had to be mentioned so as to provide a possible clue to any omission in the list of inmates. Section II carried great importance as the questions were designed to find out if there was any woman in the household who married more than once. As any direct question on the point might prove embarrassing and may be resented by many females, a general question 'A' was asked whose answer when in the affirmative was to be pursued further for completing forthwith her particulars in respect of remarriages at the top right hand corner of this women's fertility slip. The third section related to persons above 10 years of age with the intention to find out the number of works ing persons in the household. This section way desgined to bring to focus the significance of occupational pattern based on 15 days reference period and position regarding seasonal workers.

One slip had to be filled for ever-Fertility slip woman who was ever married. The slip contained 14 columns in all and many answers were to be recorded within geometrical designs so as to make them suitable for hand sorting. The aim was to collect information on the total number of children of an ever married woman, cross-tabulated with reference to her age at marriage, duration of married life, religion, education and the houband's status. All the births occurring to the woman were broadly classified into two categories; one in Column 12 took stock of only the current level of births, i. e., all births occurring between Diwali 1960 to Diwali 1961. Other births occurring prior to Diwali 1960 were mentioned against Column 13.

three Deputy Superintendents in Pilot charge of the regional tabulation offices survey located at Cuttack, Sambalpur and Berhampur remained in charge of the survey in their respective areas. Persons employed for tabulation served as investigators. Training was imparted to them in a pilot survey, in 6 rural and 4 urban blocks. The pilot survey more in the nature of pretest operation helped to highlight difficulties, if any, in obtaining answers to different questions in the fertility slip. Prevalence of purda system and general resentment of women married more than once to answer questions were a few of the many difficulties faced by the investigators.

The investigation work commenced on 21st January, 1962 and was completed on 5th March, 1962. The slips, after investigation were brought to Cuttack for scrutiny, processing, coding and tabulation in accordance with the instructions received from the Registrar General, India.

The fertility slips were first sorted for the following four categories of women. The number of women in each category is also indicated against each.

Group A—Women married only once and still in married state:

Total	Rural	Urban
28.497	19 676	8 821

Group B—Women married only once hut now widowed or divorced:

Total	Rural	Urbaz
6,722	4,811	1,911

Group C—Women married more than once but in married state now:

Total Rural Urban 497 428 69

Group D-Women married more than once but now widowed or divorced:

Total Rural Urban 62 56 6

The following broad concepts and Concepts and definitions were adopted for the purpose of the survey.

- (1) Ever married woman—The term 'ever married woman' included all women who had married any time during their lives, i. e., women who were still in the marital status and women divorced or separated or widowed at the time of investigator's visit.
- (2) Current and lifetime fertility—Current fertility refers to births during the last 12 months while by the term 'lifetime fertility' is meant all the children born to a woman of completed fertility or of specified duration of married life.
- (3) Live and still births—If a child is born alive it is a live birth even though it may die soon after. If the child is born dead, i. e., it does not show any sign of life after birth, it is a still birth Live birth is the complete expulsion or extraction from its mother of a product of conception irrespective of the duration of pregnancy which, after such separation, breathes or shows signs of life. Foetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception irrespective of the duration of pregnancy; the death is indicated by the fact that after such separation the foetus does not breathe or show any other evidence of life. If such a product of conception has attained at least 28 weeks of gestation, it will be termed as a still birth.
- (4) Parity progression ratio—Parity ratio of order N is defined in terms of probability of women with 'n' children already obtaining the n+1th.

Thus parity progression ratio for the n + 1th parity is the proportion of women who got the n + 1th child having born 'n' children. To illustrate the point, if parity ratio for order 4 is 0.84 in rural and 0.85 in urban, it implies that out of 100 women having four children 84 in rural and 85 in urban go to have fifth child and the remaining women stop child bearing after the fourth birth order.

- (5) Sterility ratio—Sterility ratio is the complement of parity progression ratio and can be interpreted accordingly as proportion of women who cease reprodoction after getting the nth child.
- (6) Marital age specific fertility rate—This refers to the number of live births to 1,000 married women in the specified age-group in a year.

The data collected in the course of survey suffered from various Results of handicaps. Though age is the the survey most important criterion and the quality of data is apt to suffer greatly in absence of correct reporting of data on age, general ignorance of the rural and backward sample population on this score affected proportionately the data collected. As indicated earlier, prevalence of purda system, general apathy of the rural mass to enquiries of this nature and the smallness of the size of the sample are a few other factors which affected the quantitative assessment of figures. An abridged set of 13 Tables were, therefore, prepared for presentation at the end of the report.

Attained age and marital status ате two important points which Distribution of control a woman's reproductive women of Marital behaviour. status reproductive age-group with four-fold classification into 'A', 'B', 'C' and 'D' has been adopted for the sake of convenience. The Table below gives the total number of women and their percentage distribution according to attained age.

Table 2
Percentage distribution of women by attained age (all women)

Attained age			number vomen	Percentage distribution	
		Rural	Urban	Rural	Urban
12 & below	••	106	9	0.4	0.1
1317		1,041	477	4.2	4.4
1822		3,942	1,882	15.8	17:4
23—27		3,572	1,656	14.3	15.3
28-32		3,778	1,696	15.1	15.7
33-37		2,374	1,031	9.5	9.5
3842	• •	2,687	1,141	10.8	10.6
4347		1,760	698	7:0	6.5
48-{-		5,708	2,217	22.9	20.5
Total		24,971	10,807	100.0	100.0

It will be seen therefrom that of the total number of females included in the sample, about 69.7 per cent in rural and 72.9 per cent in urban areas fall within the reproductive age-group of 13 to 42. Their number, however, 12 or below is insignificant. But the distribution in the age-group 48 and above is considerable both in Rural and Urban areas.

The Table below presents the disbtribution of women according to the 4 categories of their marital status that a very large and substantial proportion of the female population should belong to category 'A' i. e., women married only once and still in married state reflects in a way the society where polyandry is looked down upon. Proportion of women belonging to the 'C' and 'D' categories are, therefore, very small in both Rural and Urban areas.

Table 3

Percentage distribution of women

by marital status

			number vomen	Percentage distribution		
Marital st	atus	<i></i>	\		^_	
		Rural	Urban	Rural	Urban	
A		19,676	8,821	78.8	81.6	
В		4,811	1,911	19-3	17.7	
C		428	69	1.7	0.6	
D		5 6	6	0.2	0.1	
Total	••	24,971	10,807	100.0	100.0	

A---Women married only once and still in married state.

B---Women married only once but now widowed or divroced.

C-Women married more than once out in married state now.

D-Women married more than once but now widowed or divorced.

Table I in the Appendix gives the distribution of women according to the frequency of

Percentage distribution of women by number of times married marriage. The only significant result imagined from the Table is that in all age-groups those marrying once constitute the

predominating majority and those marrying more than once constitute a very small proportion. Of the latter, the highest distribution seems to be in the age-group of 33 and above and though frequency to the extent 4 does not occur in the urban sample at all, the same in the rural areas are confined to the age-group of 28 and above.

The Table below gives the cross classification of women under group 'A' by their age at marri-

Age at marriage by marriage duraage against marriage duration. Irrespective of the marriage duration, majority of the marriages seem to occur below

18 years of age. It will appear from the Table that women with a longer marriage duration prefer to marry in more numbers before they were

18 than those with a shorter marriage duration. This trend is more noticeable in urban areas than in rural areas which would otherwise establish that marriage below 18 still enjoys greater popularity in the rural areas. An opposite trend is noticeable in the age-groups of 18 and above which goes to establish the contrary trend that more number of women in rural and urban areas prefer to marry above 18 in recent years. Another perceptible trend seems to exist in urban sector where a clear break through in the matter of preference of advance age at marriage is noticed compared to the rural areas. To cite the figures, 19.8 per cent of the sample women under group 'A' in urban areas with the marriage duration of below one year have married at 18 years and above compared to 11.8 per cent only in the rural areas. The corresponding figure for the marriage duration of 1 to 4 years is 19.6 for the urban areas contrasted to 14.8 in the rural areas. This is further supported by the fact that 6 per cent of women marry at the age of 12 years and below in the rural areas compared to 2 per cent only in the urban areas as is evident from Table II-B(1) in the Appendix.

Table 4

Percentage distribution of women by age at marriage in different durations of marriage

	Rural		arti 2000 I. Artimore Audukus W. Still, March		Urban	
Ag	e at mar	—¬ riage	Marriage duration (in years)	Age	at mar	riage
23+	1822	_18		-18	18—22	23+
0.0	11.8	88.2	0	80.2	19·1	0.7
0.2	14.6	85.2	14	80.4	19.2	0.4
0.2	13.4	86.4	5—9	84.5	14.8	0.7
0.3	13.7	86.0	1014	85.3	14.4	0.3
0.2	13.9	85.9	1529	85.4	14.2	0.4
0.2	13.0	86.8	30 +	84·7	15.1	0.3
0.2	13.7	86.1	Ali dura- tions	84.3	15:3	0.4

The median age at marriage of 0—4 year marriage duration is almost the same for rura and urban areas, edging slightly on the higher side in the urban component. Similar is the case with the median age at marriage of the current mothers of the same marriage duration, the interquartile range and the average age at marriage. The average age at marriage for women of 10—14 years marriage duration seems to be higher than the average age of a shorter marriage duration. Further details are shown in Table II in the Appendix.

The births occurring in the preceding 12 months of survey were studied to determine the proportion of live, still and multiple births. The study is useful as it helps to assess the age bracket of women where

largest percentage of births occur. The family planning and other population curbing measures evince naturally great interest about this agegroup so as to concentrate their operation. The study further helped to determine the proportion of multiple and still births to total live births and the manner of dispersion of these categories of births within specific age-groups.

The Table below presents absolute figures of current level of births in 8 different age-groups. 1777 women in the rural areas and 878 in the urban areas were studied for the purpose. Of any single age-group, the highest concentration of birth seems to be in the age-group of 18—22 both in rural and urban areas where 29.6 and 30.8 per cent respectively of the total current level of births occurred. But the age-groups from 18 to 32 accounted for the maximum proportion of births where 77.2 and 80.2 per cent of births occurred in rural and urban areas respectively.

No other category of multiple births except twins was reported which contributed to a very insignificant percentage of the total births Though this reflected no accurate measure for any generalisation, the multiple births seemed concentrated in the age-groups from 28 to 47 in rural areas and 23 to 37 in urban areas.

Table 5

Contribution of births arising out of multiple births to total births—current level

Attained age		Total births		Births arising from births of twins*		
		Rural	Urban	Rural	Urban	
13—17		56	38		•••	
1822		526	270			
23—27		433	233		2	
2832		412	201	2	2	
3337		195	91	2	2	
3842		117	35	2		
4347		25	6	2	• •	
48 + -	٠.	13	4			
All ages		1777	878	8	6	

^{*} There were no other multiple births

The following Table gives the still birth rates per 100 total births separately before and after 6

Table 6
Still birth rates per 100 total births
(Live and Still)

			Still bir	th rate
Attained age			After six months of gestation	Within six months of gestation
13—17	R		9.5	1.6
	U		9.5	••
1822	R		5-5	1.2
	U		5.5	1.0
2327	R		6.3	1·1
	U		3.6	2.0
28-32	R		3.9	0.9
	U		2.4	1,9
3337	R		3.2	0.5
	U		4.2	• •
38-42	R		6.3	1.6
	U		5.3	2.6
4347	R		3.8	
	U		14.3*	
48+	R			
	Ü	••	••	••
All ages	_	• •		
AII #803		• •		
All ages	R U	• •	5·2 4·4	1· 1 1· 4

^{*}Based on only 7 births (live and still)

months of gestation. It is borne out from these figures that both in rural and urban areas, the rate is higher for still births after 6 months of gestation. The rate for all ages after 6 months of gestation is 5.2 and 4.4 and the same within 6 months of gestation is 1.1 and 1.4 for rural and urban areas respectively.

Fertility performance Birthrates rate of birth is expressed as the number of children born per thousand of population. According to the Registrar General's Report on Vital Statistics of India for 1960, the State average for Orissa is 24.6. The rate, according to this survey is 20.9 for rural and 21.0 for urban areas. These apparently low figures may be ascribed to wrong reporting.

The word 'fertility' in demographic studies is used in relation to the actual occurrence of births especially live births Marital fertility and fertility rates are obtained rates by dividing the number of births during some period by the number of persons in some section of the corresponding population. The level of fertility in any given society is determined by a series of factors, inextricably interlaced in complex ways and it is difficult to predict the rate from any single study. The marital age specific fertility rate means the annual number of live births to 1,000 married women in the specified age-group. To illustrate the point, if age specific nuptial fertility rate for the age-group 13-17 is given as 54.5, it means that 54.5 births occurred to 1,000 married women in the age-group of 13 to 17 in the calendar year under reference.

The age specific fertility rates as emerging from the survey are presented in the Table below. Fertility appears to be at its peak in the age-group of 18—22, slightly declines thereafter up to the age 32 and the level being somewhat maintained up to 37 drops abruptly again. Even in the

age-group after completed fertility of 48 years and after, the rate is 5.0 for rural areas and 4.3 for urban areas. The fertility rate for women of 13—47 age-group is 100.5 for rural and 110.2 for urban areas.

The marital fertility rates of women aged 13—47 years are given according to characteristic religion, woman's education, husband's education, occupation, etc., in Tables VII(A) and VII(B) of the Appendix.

Table 7

		INCOMP	LETE FERTI	LITY				
	(a) Ag	ge specific	nuptial fe	ertility rat	es			
	Age-groups							
	13—17	1822	2327	28—32	33—37	38—42	4347	48 & ove
Rural	 54.5	135.4	125.0	112.5	91.0	54.7	17:9	5:0
Urban	 80.3	145.5	145.4	125.2	97:4	37.7	10.0	4.3

(b) Nuptial fertility rates for women of 13-47

		omen married only once	Women married more than once	Combined
Rural	••	100.0	124·7**	100.2
Urban	••	110.4	83·3†	110.2

^{**}Based on 369 women only †Based on 60 women only

Those unable capacity to have the producing children are Sterility sterile. Sterility said to be may be primary when a woman has not the capacity to conceive or it may be secondary which may occur after one or more births due to natural or pathological causes or due to accident. The opposite of sterility is fecundity which is the ability to have children. The rate of sterility pertaining to a particular age-group is the ratio of women becoming sterile within that period to the fertile women as at the beginning of the period.

The Table below gives the picture regarding onset of sterility as shown in the rate per 1,000 women according to quinquennial age-groups. The Table shows that with the advancement of age, the rate of sterility increases both in rural

and urban sector until it reaches the peak at 40—42 age-group.

Table 8

Onset of SteriLity

Rate of sterility per 1,000 women according to quinquennial age-groups

Ages	•	Rural	Urban
20		7	7
20-24		21	20
25-29		34	35
30—34		79	75
3539		182	177
40-42		226	213

Results are based on women

- (i) with present ages 38-47
- (ii) married only once but still in a married state
- (iii) had at least a child

Average number of children born per woman shows the lifetime fertility. Attained

Average number of children b.rn per currently married weman—Incomplete fertility

age and duration of married life of women are the important factors which determine their reproductive behaviour. The Table below gives the average number of children by attained age of 'A' type women. The

average number of children increases with the

increase in age-group until it reaches its maximum limit at the 38—42 age-group both for rural and urban areas and then it declines. The Tables showing the average number of children by age at marriage and duration of married life is given in Table IV of the Appendix. The average for all ages of women and all durations of marriage is 2.6 for rural and 2.8 for urban. The Table by characteristics is given in Tables V (A) and V (B) in the Appendix.

Table 9
INCOMPLETE FERTILITY
Average number of children by attained age

					Att	ained age				
		1317	1822	23—27	28—32	33—37	3842	43—47	48 & ove	r All ages
Rural		0·2 (1028)	1·0 (3847)	2·1 (3425)	3·0 (3459)	3·5 (2056)	3·8 (2084)	3·7 (1287)	3·6 (2384)	2·6 (19570)
Urban	••	0·3 (473)	1·1 (1849)	2·4 (1603)	3·2 (1528)	3·9 (934)	4·0 (929)	3·9 (501)	3·8 (941)	2·7 (8812)

(Figures in brackets indicate number of women in the age-group)

Women with the following age at marriage and duration of completed fertility married life may be said to constitute completed fertility.

Age at marriage		Duration of married life
18		30+
18—22		30+
23+		15+
	,	

Women aged 43 years and above have also been taken to assume as having completed their fertility periods. The survey results reveal that the average number of children born to women of completed fertility for 'A' type women is 3.6 for rural and 3.8 for urban. The average number of children of 0—4 age-group per women in the reproductive span of 15—44 years has been computed at 6.4 on the actuals of 1961 Census which is much higher than the results of the survey.

The low results of the latter may be due to under reporting.

The discussion in preceding paragraphs relate to 'A' type women who constitute 79.6 per cent of the total number Average rumber of of ever married women child en bon per woman of 'B', 'C' 'B', 'C', & 'D' categories of categories women, as stated of women constitute only 18.8 per cent, 1.4 per cent and 0.2 per cent of the total sampled ever married women population. Study of their fertility, though more of academic importance, was conducted as otherwise it would probably mean ignoring the different experiences of the remarried.

The Table below gives the average number of children by attained age for differnt classes of married women. The average for 'B', 'C' and 'D' type women is 2.4 rural/2.4 urban, 2.2 rural/1.8 urban and 2.5 rural/3.8 urban respectively.

 $T_{able\ 10}$ Average number of children by attained age for different classes of married women

			Grou	ір В	Grou	ap Ċ	Gro	oup D
Attained age			Number of women	Average number of children	Number of women	Average number of children	Number of women	Average number of children
1			2	3	4	5	6	7
13—17	R		15	0.2	1	1.0		
	\mathbf{U}	••	4	• •	••	••	••	••
18—22	R	••	64	0.7	31	0.8		
	U		24	0.6	8	0.6		
23—27	R		87	1.2	60	1.3		
	U		40	1.0	13	0.8		• •
28—32	R		213	1.8	103	2.2	3	0.7
	U		100	1.6	14	2.7	1	1.0
3337	R		247	2.0	65	2.6	6	2.3
	. U		85	2.0	12	2.2		
38—42	R		528	2.2	71	2.5	4	3.8
	U		206	2.1	5	1.8	1	4.0
43—47	R		432	2.3	38	2.4	3	3.7
	U		189	2.4	8	1.5		
48 +	R		3,225	2.7	59	3.0	40	2:4
	U		1,263	2.7	9	2.3	4	4.2
All ages	R		4,811	2.4	428	2.2	56	2.5
-	U		1,911	2.4	69	1.8	6	3.8

Childlessness

Composition of family sizes for completed fertility women

is a phenomenon associated with age at marriage and has been studied with respect to women of completed fertility. The percentage of

childless women among completed fertility women is 8.5 for rural and 8.0 for urban areas. On a study of childless women of completed fertility according to their age at marriage reveal that the maximum proportion (22.2 for rural and 14.3 for urban) were married at 23 or above. The lowest (7.9 for rural and 6.9 for urban) belong to 18 years or below age at marriage. The figures for the intermediate group with 18.22 as their age at marriage is 12.0 for rural and 13.6 for urban. It is borne out from the above figures that the pro-

portion of childless women increases with the increase in age at marriage.

The Table below gives the percentage of families having number of children and according to their age at marriage for mothers of completed fertility. The highest percentage of families have 3 to 4 children and the proportion of families decreases with the increase in number of children. Similar conclusions can be drawn from a study of their age at marriage. The percentage of families marrying at ages of all groups are also the highest in the groups with 3 or 4 children. It is significant that no families with mothers marrying at 23 or above have more than 6 children.

Table 11

(a) Completed fertility without differentials of age at marriage Percentage of families of different sizes for mothers of completed fertility

0	1	2	3	4	\ \ \ \	9	7	 œ	6	10 and over Total	Total
8.5	13.7	13.5	14.7	14.9	13.0	2.6	2.6 3.7	3.7	1.6	1.1	100.0
0.8	12.9	13.9	14.6	12.4	12.2	9.6	7.2	4.2	5.4	5.6	100.0

(b) Completed fertility with differentials of age at marriage. Percentage of families of different sizes for mothers of completed fertility.

					Perc	entage of 15	Percentage of families having number of children	ing numbe	r or callar	E.			
Age at marriage	Ĺ	0		7	60	4	~	9	7	∞	6	10 and over	Total
—18 Rural Urban	: :	6.9	13.6	13·2	14·1	14.7	13.9	10.4	5.6	4:0	1.5 2.6	1.1	100·0 100·0
1 8—22 Rural Urban	: ::	12·0 13·6	13·8 14·2	13·8 16·5	15·0 17·0	14·3 13·1	12.0	8.2	4:5 2:3	2:5	2:3	1:3	100.0
23+ Rural Urban	: :	22·2 14·3	11.1	9.0	33·3 35·7	16·7 21·4	5·5 21·4	5.6	0.0	0.0	0.0	0.0 0.0	100 .0

Parity ratio of order n is defined in Parity progression and Sterility ratio.

n children already obtaining the n+1th child. If parity ratio for order is 85 in rural and 86 in urban, this means that out of 100 women having I child

this means that out of 100 women having I child 85 in rural and 86 in urban go to have the 2nd child. The remaining women stop child bearing after the 1st birth order. Sterility ratio is the

complement of parity progression ratio and can be interpreted accordingly. The Table below gives the parity progression and sterility ratios for women of completed fertility. It is clear from the Table that the parity ratio decreases with the increase in the parity order. The rate of decline, however, is gradual and not abrupt. The reverse is the case with sterility ratio where the ratio increases with the increase in parity order.

Table 12

Completed fertility without differentials of age at marriage

Parity progression ratio, i. e., proportion of women who got n+1th child, n children having been born and Sterility ratio, i. e., proportion of women who ceased reproduction after getting

nth child (completed fertility women)

					Pa	rity Ratio					
n	=	0	1	2	3	4	5	6	7	8	9
Rural	••	91.5	85.1	82:7	77:2	69.9	62.6	55.3	53.2	42.1	39.4
Urban	••	92.0	86.0	82.4	77.6	75.6	60·1	63.2	56·1	54·1	52.8

					Ste	rility Ratio					profile worth open for the state of the stat
n	=	0	1	2	3	4	5	6	7	8	9
Rural	••	8.2	14.9	17:3	22.8	30·1	37.4	44.7	46.8	57.9	60.6
Urban	• •	8.0	14.0	17.6	22-4	24·4	39.9	36.8	43.9	45.9	47.2

The following Table gives the pattern of parity progression ratio for different birth order by age at marriage for women of completed fertility. The parity ratio declines with the increase in the age at marriage. The reverse is true in case of steri-

lity. The conclusion with regard to the relationship between the parity order and the parity ratio as narrated above holds good for every age at marriage

Table 13

Parity progression ratio, i. e., proportion of women who got n+1th child, n children having been born and Sterility ratio i. e., proportion of women who ceased reproduction after getting nth child

	n =		0	1	2	3	4	5	6	7	8	9
Age at a	marriage —	-18			-	Parit	y Ratio			-		
	Rural Urban	••	92·1	85·3 87·3	83·1	78 ·4 79·2	71·3 77·0	62·0 67·5	53·9 64·6	54·2 53·7	39·8 53·7	42·9 51·0
						Steri	lity Ratio	0				
	Rural Urban		7·9 6·9	14·7 12·7	16·8 16·9	21·6 20·8	28·7 23·0	38·0 32·5	46·1 35·4	45·8 46·3	60·2 46·3	57·1 49·0
Age at	marriage	18—	22			Parti	ty Ratio					
	Rural Urban		88·0 86·4	84·3 83·6	81·4 77·2	75·1 69·4	68·5 66·2	61·3 55·6	55·3 56·0	57·1 71·4	58·3 50·0	35·7 40·0
						Steril	lity Ratio					
	Rural Urban	::	12 ·0 13·6	15·7 16·4	18·6 22·8	24·9 30·6	31·5 33·8	38·7 44·4	44·7 44·0	42 ·9 28 ·6	41·7 50·0	64·3 60·0
Age at	ma r riage	23-	-			Parit	y Ratio					
	Rural Urban		77·8 85·7	85·7 100·0	91·7 58·3	45·5 57·1	40·0 25·0	50·0 0·0	0.0 0.0	0·0 0·0	0.0 0.0	0.0
						Steri	ility Rati	o				
	Rural Urban	• •	22·2 14·3	14·3 0·0	8·3 41·7	54·5 42·9	60·0 75·0	50·0 100·0	100·0 100·0	100·0 100·0	100·0 100·0	1 00 ·0

The average number of children contributed by each birth order to the Contribution by each birth order to the average size of a family is given in the following Table. It is brought out clearly that in both rural and urban areas. the contribution of the first three birth orders to

the average size of a family under all the three groups of ages at marriage is high, a noticeable decline commences thereafter. The average size of a family is higher in case of marriages at ages below 18 as compared to other two higher agegroups of effective marriage.

Table 14

(a) Completed fertility without differentials of age at marriage

Average number of children contributed by each birth order to the average size of a family of completed fertility

	_										
	1	2	3	4	5	6	7	8	9	10 and over	Average family size
Rural Urban	·92 ·92	•78 •79	·64 ·65	·50 ·51	·35 ·38	·22 ·26	·12 ·16	•06 •09	·03 ·05	.03	3·63 3·84

(b) Completed fertility with differentials of age at marriage

Average number of children contributed by each birth order to the average size of a family of completed fertility

A	ge at					Order of	birth					
	rriage	1	2	3	4	5	6	7	8	9	10 and over	Average family size
18	Rural	.92	•79	.65	·51	•37	•23	.12	· 0 7	.03	·01	3.70
	Urban	·93	·81	.68	•54	·41	.28	.18	.10	.02	.03	4.01
1822	Rural	.88	•74	·60	· 4 5	.31	•19	.11	· 0 6	·04	.01	3.39
	Urban	.86	•72	•56	•39	•26	·14	.08	•06	.03	.01	3.11
23+	Rural	•78	·67	·61	·28	.11	.06	.00	.00	.00	.00	2.21
	Urban	.86	.86	· 8 6	•50	•29	.07	.00	.00	.00	.00	3.43

The rate of family building as measured by the percentage ratio of the average number of children born per woman in a specified duration group to the average for the preceding duration group is given in the following

Table. It reveals from the figure that family building is at its peak in the marriage duration of 5—9 years for women of all groups of ages at marriage but as the duration of married life advances, the pace of reproduction slackens.

Table 15

EFFECT OF AGE AT MARRIAGE ON THE GROWTH OF FAMILY SIZE AS SHOWN BY THE PERCENT AGE RATIO OF AVERAGE CHILDREN BORN PER WOMAN TO THE AVERAGE FOR THE PRECEDING DURATION GROUP

				Age at m	narriage		_
Duratio		-	-18	18	-22	23+	
of marria	agc		~ <u>¬</u>		^	ر	
		Rural	Urban	Rural	Urban	Rural	Urban
	 						
5— 9	••	320	300	280	340	1,000	229
0 —14		169	161	171	147	110	150
529		133	138	138	128	127	142
) - -	••	103	100	103	97	71	103

^{*}Based on less than 50 women.

With a view to assessing the effects of age at marriage on the growth of family size, that is, average number of children born, performance of women married between the ages 18—22 has been taken as an index in the following statement.

It appears from the indices in this statement that, by and large, the age at marriage is inversely related to the size of family which means that the lower the age at marriage, the higher the average number of children and vice versa.

Table 16

Effect of age at marriage on family size i. e., average number of children per woman born up to specified duration of marriage taking the performance of women married between 18—22 as 100

				Age a	at marriage		
		—18		1	8—22	23+*	
Duration of marriage		Rural	Urban	Rural	Urban	Rural	Urban
1 4		100	120	100	100	40	140
5— 9		114	106	100	100	143	94
1014		113	116	100	100	92	96
15—29		109	125	100	100	85	106
30+		109	129	100	100	59	113
All durations		108	126	100	100	59	100

^{*}Based on less than 50 women.

The expectation of fertile life was worked out by making use of sterility ratio in the same manner as expectation of life is worked out from mortality rates. From this it is calculated how many years of fertility remains for a woman having attained some specified age.

It will appear from the Table below on the expectation of fertile life at various ages for 'A' type women the expectation is almost the same in both rural and urban areas. As is natural, the expectation declines with the age until it becomes 4.26 and 4.55 for rural and urban respectively in the ageroup of 35—39. It is further borne out from a study of the figures for the youngest age-groups, fertility in the majority of women is expected to cease at 36 years or so of age except. of course, in the highly fertile section in which reproduction

goes on till a later age. The interval between the first menstruation and menopause should not be confused with the fertile period of a woman, which indeed may commence much later and end much earlier.

Table 17

Onset of Sterility

Expectation of fertile life at various ages

Ages	Rural	Urban
1519	 18.66	18-90
20-24	 14.24	14.48
2529	 10.54	10.74
3034	 7:03	7.32
3539	 4.26	4.55

The data on fertility were collected according to such characteristics as religion, woman's Fertility husband's education. education, differentials nature of work and industry. The fertility experience of tribal people being of special interest, instructions were given to record religion as well as tribe, particularly in the sample blocks where the tribal people were known to be preponderant. This facilitated separate analysis of data for such tribes as each of these differentials chumerated above were of considerable importance influencing the fertility pattern. The study by characteristics proved to be useful. The impact of different socio-econmic and cultural conditions and their influence on reproductive behaviour were matters that projected through analysis of such data. Though the data collected were greatly deficient this might serve as basis for predicting the

variation in birth rate among different sections of the population according to these variables.

Effect of religion on the reproductive behaviour of woman is certainly great as each religion through its own precepts, customs and beliefs goes a long way to determine the fertility pattern of its own believers. It is true that the sample thing of some religions was too small to help drawing any critical conclusion.

The reproductive behaviour of women in terms of the average number of children born per woman both for completed and incompleted fertility has been given in the statements in the Appendix. These data again have been broken up into the women's age at marriage. Similarly, the age specific marital fertility rates have also been shown by differentials in statements in the Appendix.

CONCLUSION

Study of population dynamics in the context of economic planning is so enormously important that it is redundant to repeat the motivative factors behind the cry to halt the accelerated population growth in this country. The rate of population growth during the last decade has been phenomenally high compared to the rates during the previous decades. The awareness aroused by the conscious directive of the planners for planned parenthood and family planning measures has to be reckoned with as a force all too important in a country where with the welfare measures to decrease mortality and increase the average life span of an individual, the potential fertility of women must also be checked. In fact, fertility and population dynamics are matters so inextricably intertwined together that in the nature of the census traditions, it was thought desirable that a fertility survey should be conducted alongwith the 1961 Census in order to bring out the main components of such a complex biological phenomenon as fertility is.

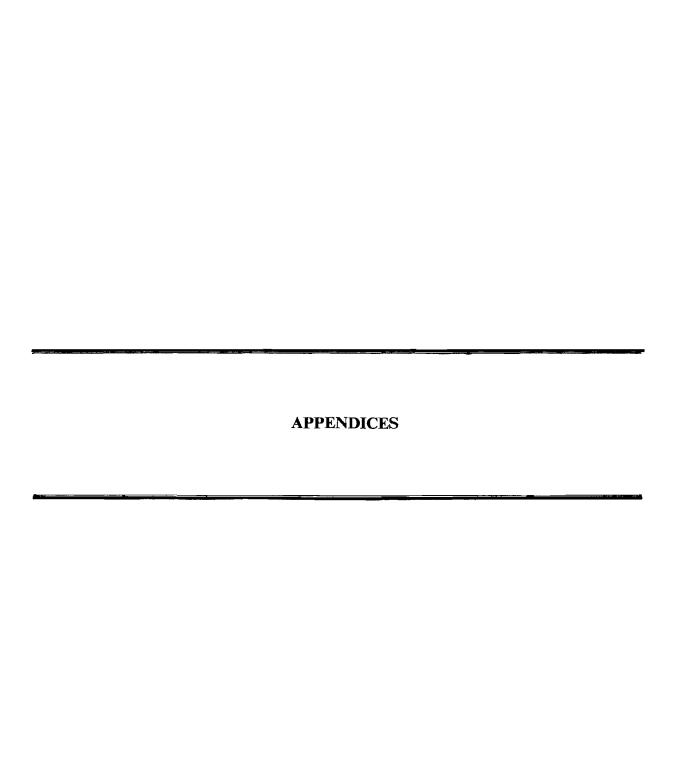
The survey of course was fraught with grave imitations. It was a post-census survey undertaken by random sampling in the enumeration blocks some of which had to be abandoned later because of the visitations of natural calamities. In the backward areas of the State canvassing of schedules posed varitably an uphill task. The purdah system that entailed the investigators to collect more data from the masculine counterparts, the natural hesitation of women to come forward with truths about more than one marriage, ignorance of age and its misstatement, loose

notions about time duration, etc., are only a few of the many problems encountered by the investigators. This apart, the study could not be conducted with the precision and accuracy it deserved because of a lot of other limiting factors. The study of fertility by differentials was far from complete as at times the sample chosen was too small to arrive at anything. It will be appropriate, therefore, to make a clear confession of all the deficiencies and limitations from which the data suffer before outlining the summary conclusions.

The fact remained that this was the first study of its kind not only in the domain of census but in this State where no other organization within our knowledgeable sources had taken up a similar survey. This organization, therefore, while elaborating the Tables had to start from a clean slate as no other comparable data were available from any other source to help arrive at any critical comparative account.

The following is a brief summary of results arrived at in the foregoing paragraphs:

- (1) Marriage in women is universal phenomena in the State. Most of those married belong to the 'A' category, i. e., women married once and still in married state. The highest proportion of married women belong to the fertile age of 18 to 32 both in the rural and urban areas.
- (2) The current level of births of women below 18 was low. But the same reached its peak between the age-group 18—32 and later took a declining trend.

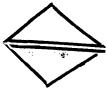




APPENDIX A

POST-CENSUS SURVEY





Date.....

Census Location Co SECTION 1 [Person	ode ns (includi	ng visi	tors) in	the hous	sehold	on t	he d	ate of	'investiga	S. N	-	
Name	Rel. to Head	Sex	Sex Age	M. S.		N	ame		Rel. 1		Age	M. S.
1 2 3 4 5					7 8 9 10 11							
in yo (b) If 'Yes famil refero SECTION 3 Fil	arriage aftour famile, is the y who had ence to SI for all ted in Se	y?(Y) answer as been . No. i males	es/No) , is the n marri n Section and for	ere any led mor-	wom: e than	an in once	the?					
Activity	during tl	he last	15 day	s			Sl.	No.	in Sect	on 1		
l (a) What was the p Wkg/H/O/UV		ng mo	st of la	st 15 da	ys ?							
(b) If answer is work at all for or profession worker on an days? (Yes/N	or pay or or farm ny day or	wages n or	or in o	wn busi oaid fai	ness nily							
(c) If 'No' is the looking for w	e answer	to (b) es/No)	, was	the pe	erson							1
(d) If 'No' is the have an occur even though 15 days? (Y	pation o	r busin	ess or	profess	ion.							
2 (a) Is the person whenever he							-					
(b) If 'No' is the her usual wo (Yes/No)												
(c) 'Yes' is the usual work is	answer to of seaso	2 (a), nal na	whethe	er his or Yes/No	<u> </u>				vestigato:			

APPENDIX B

POST-CENSUS SURVEY

FERTILITY SLIP

(For ever-married woman)

REMARRIAGES

1. Household Schedule Ref	A. If remarried after widowhood or divorced write R.
2. Location Code	B. How many times remarried ?
3. Name 4. Present Age (Completed years)	C. Duration in years of current marriage.
Religion Education	Status
8. (a) Age at wedding (Age at first wedding, if remarried)	9. If W/S, No. of years when marriage was broken by divorce
(c) Her age when she began to live with her husband [Total of (a) & (b)]	10. Duration of total married life [(4)—(9)—(8 c)]
11. HUSBAND'S PARTICULARS	Code
(a) Nature of Work	
(b) Nature of Industry in which working	
(c) Education	

(a) Sex (b) Type of birth (L/SA/SB) (ii) Did this birth occur before or after Diwali 1961 (Before after) 13. All children born alive to this woman before Diwali 1960 Present age if still alive dead 1 2 M F M F 1st 2nd 3rd 4th 5th		
if still alive 1 those now dead 2 M F M F 1st 2nd 4th		
1st 2nd 3rd 4th	o. of years bassed since death	Total of (2) & (3)
2nd 3rd 4th		· · · · · · · · · · · · · · · · · · ·
3rd 4th		
4th		
Sel		
5th		
6th		
7th		
8th		
9th		
10th		
No. of entries	otal children —	M F
14. Total No. of children born alive including that given in Q. 12 but execluding still briths		
MaleFemale Total		

APPENDIX C

INSTRUCTIONS REGARDING PREPARATION OF HOUSEHOLD SCHEDULES AND FERTILITY SLIPS

A. Household Schedule

- 1. (i) In Section 1 all persons of the house-hold present in the village or town at the time of investigator's visit should be entered. The requirements are more or less the same as in filling Census Individual slip.
- (ii) It may be suggested to the respondent to-give the name of residents in the sequence of their natural relationships, e. g., head, wife, son, son's wives and children, unmarried daughters and then any others. A wide variety of related and unrelated persons come under others, e. g., parents, married daughters and their husbands and children, nephews, nieces, grandsons, grand daughters.
- (iii) Consideration of the entries of relation to head, age and marital status will indicate whether any person has been missed in the list. This should be checked up in order to catch omissions of residents.
- 2. Section 2 aims at finding out if there is any woman who married more than once. A direct question on the point may be resented by many families and hence a general question (a) is asked. Only if the answer is in affirmative should question (b) be asked, otherwise not. If there is any woman who married more than once, it is desirable to complete forthwith her particulars in respect of remarriages at the top right hand corner of this woman's fertility slip. This question of remarriages should not be broached lightly or more often than is necessary.
- 3. (i) Section 3 is to be filled only in respect of persons above age 10 to find out the number of working persons in the household. The following gives the definition of 'working' for the purpose of this survey:
 - A person is 'working' if his activity brings him or to his family earnings in cash or kind. Such earnings should arise

from repairs done or services rendered or sale of own or somebody else's produce including manufactured goods. The earning arising from interest, dividend, pension, rent, royalty and begging are not relevant in this connection.

The object is to see how this definition works operationally. In 1961 Census, the concept of work was made clear through a number of illustrative examples. The two basic concepts in the definition adopted for this survey should be particularly explained to the field Investigators. The first is that in return for the activity some earning in cash or kind should accrue to him or to his family. This does not involve any question of dependency. The other is that the earning should accrue from the type of economic activities specified in the definition. In the case of seasonal work like cultivation, livestock, dairying, household industry, etc., a person should have had some regular work of more than an hour a day throughout most of the reference period of 15 days to be considered as 'working'. This should be particularly borne in mind in the case of a family worker.

(ii) The answer to Q. 1(a) may be recorded as:

Wkg—Working
H—Keeping house
O—Doing other work
UW—Unable to work

- (iii) A person's usual work is what he considers it to be.
- (iv) Seasonal work is one which can be carried on only during certain periods of season_S of the year and not throughout the year.

B—Fertility Slip

It is to be filled for every woman who was ever-married.

Q.5.	For Hindu	write	Н
	Muslim	write	M
	Christian	write	C
	Jain	write	J
	Buddhist	write	В
	Sikh	wri t e	S

For others write the answer actually returned

Q.6. Education may be filled according to the highest standards reached as follows:

Formal schooling but High school or equivalent examination not passed E

Passed High School or equivalent examination H

Graduated from college G

Others comprising just Literate and Uneducated 0

Questions 8—10 are on marriage particulars designed to elicit a woman's age, when she came to live with her husband and the duration of married life. Care should be taken to collect them correctly and tactfully without causing any annoyance to the informant. Collection of these particulars will present some difficulty in the case of women married more than once. Such women must have already been marked on the top right hand corner of the slip. In their case special instruction given in (iii) below should be carefully followed.

(i) In some communities, there is a separate formal ceremony or occurrence such as Gauna, Mukhawa or Dwiragaman which takes place quite some time after the wedding celebrations. This is a custom which continues from the time when girls used to be married before attainment of puberty but used to start married life with the husband some time after the attainment second ceremony, therefore, puberty. This marks the time wh en the girl comes to live with her husband, and her age at this time is sought in O. 8 (c) through two subsidiary questions 8(a) and 8(b). Information on Q.8 (b) should be obtained tactfully in two stages; first by a preliminary sorting question as to whether she came to her husband's home to live with him immediately after her wedding. If answer is 'Yes' 0 may be

entered in 8(b) and age entered in 8(a) may be repeated in 8(c). If 'No' is the answer, the interval should be asked and entered in 8(b). Before entering the total of 8(a) and 8(b) in 8(c) it should be checked up with an apparently superfluous third question whether this total represents her age when she came to live with the husband.

- (ii) The difference between the present age of a woman and her age in 8(c) gives the duration of total married life, only where the woman has been married once and still continues in the married state. However, even in this case the duration so obtained should be verified by a direct question on duration before recording in Q.10. That is to say, if the informant gives the duration of married life to be the same as calculated above the figure should be recorded in O.10. If differs, her present age as recorded in her age when she began to live with her husband as recorded in Q.8(c) and the duration as now returned in Q.10 should be severally checked again with the informant in order to find out which one of these three items should be revised so that Q.4 and Q.10 can tally with each other. The necessary revisions in the recorded entries should be made.
- (b) Where a woman was married only once and is now widowed, separated or divorced, the period that elapsed after she was widowed or divorced should be ascertained as required in Q.9. Entry in Q.10 then is given by subtracting the total of entries in Q.9 and Q.8(c) from that in Q.4.
- (iii) Where a woman has been married more than once, duration of total married life is the total of several periods lived in the married state during each marriage. This can be conveniently obtained by first enquiring about the period of break between the earlier marriage and the remarriage, and adding up the periods of breaks. This total of breaks in married life should be subtracted from the difference between the entries in Q.4 and Q. 8 (c) to get the duration of total married life. The intervals have to be ascertained tactfully and carefully.

Q.11. In Q.11 (b) on Nature of Industry the activities of the employer or the establishment where the person works should be fully recorded. The activity may relate to a production industry, business, trade, profession or service. The description should give the chief articles or goods produced or repaired or services rendered by the employer or the establishment.

Q.12. If a child is born alive, it is a live birth, even though it may die soon after. However, if the child is born dead, i.e., it does not show any sign of life after birth, it is a still birth. In such cases, it should be ascertained whether the still birth occurred before or after the completion of six months of pregnancy. Thereafter the type of birth in Q.12 (i) (b) should be entered according to the following Code:

Live birth L

Still birth after six months of pregnancy SA

Still birth before six months of pregnancy SB

0.12 Children born are to be recorded in two sections. Those born after Diwali of 1960 are to be entered in Q.12 (i) and (ii). All children born before Diwali of 1960 will be entered in Q.13. In States, where Diwali is not readily recalled any other important festival, which occurred near about this time, may be The object in Q.12 is to find out if there was any birth during a period of 12 months but most persons find it difficult to fix a span of 12 months and hence are unable to give correct information. Keeping this in view, Q.12 has been divided into two parts. Part (i) enquires about all births that took place after the preceding Diwali in 1960, which the informant can well fix his mind. Part (ii) requires the informant to fix his attention

to the Diwali of 1961 (which will be just over) and say if the birth occurred before or after this date. By considering answers to parts (i) and (ii), it would be possible to locate births that occurred between the two Diwalis of 1960 and 1961.

Q. 13. In this question information is to be collected only about children born alive, leaving out still births. The informant has to closely recollect the past and needs assistance. He may first be asked to concentrate on those still alive. He can then easily fill in those who are no longer alive.

If no child is reported to have been born it should be asked specifically if there was none born, who may have died.

Co. 4 of Q, 13. really works out the present ages of dead children if they had not died and were now alive. A quick glance of the entries against Cols. 1 and 4 will show the internal consistency of the information. Births generally occur with a time gap of 2 to 3 years. Only in a few cases will the gap be the shorter, in which case confirmation of the fact should be obtained. Where there is a wider gap, it should be made sure that there is no omission. It will be a good thing if the entries against Cols. 1 and 4 are reviewed with the help of the respondent asking for confirmation of the time interval between successive births, which, ordinarily, should be easy.

Total number of children recorded in Q. 13 have to be shown in the margin as provided there.

Q. 14. In question 14 the number of all the children born alive including any shown in Q. 12 but excluding any still birth is to be recorded.

APPENDIX D

TABLES

The following Codes have been used for Tables V(A), V(B), VI(B) and VII(B)

Women's Education

- E- Formal schooling but high school or equivalent examination not passed
- H- High school or equivalent examination
- G- Graduated from college
- O- Others comprising just literates and uneducated

Husband's Education

- E- Formal schooling but high school or equivalent examination not passed
- H- High school or equivalent examination
- G- Graduated from college
- O- Others comprising just literates and uneducated

Nature of Work

- T— Technical, professional and related workers
- A— Administrative, executive and managerial workers
- C-- Clerical and related workers
- S- Sales workers
- FA- Farmers
- FH- Hunters, Loggers and related workers
- P- Production process workers and craftsmen
- W-. Unskilled workers

Nature of Industry

- FA— Agriculture, where occupation is farming
- FO— Agriculture, where occupation is other than farming
- Q- Quarrying and Mining
- M- Manufacture
- B- Building and construction
- **@** Commerce
- T- Transport, storage and communication
- S- Services

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TABLE I
Percentage of women by the number of times married (All women)
(Actual numbers are given in brackets)

				Rural		l I			Urban		
Attained age											
		Once	Twice	Thrice	4 times or more	Total	Once	Twice	Thrice	4 times or more	Total
13—17	:	99.9 (1043)	0.1,	: []	 :	100.0 (1044)	100.0 (477)	: Î	: 🗓	:]	100.0 (477)
18—22	:	99·2 (3911)	0.8 (30)	0.0 (E)	: 🕽	100·0 · (3942)	99·5 (1873)	0:4	0.1	: ①	100.0 (1882)
23-+27	:	98·3	1.7 (59)	0:0 (E)	: ①	100.0 (3572)	99·2 (1643)	0·8 (13)	: 🕽	: ①	100·0 (1656)
28—32	:	97·2 (3672)	2:6 (98)	0.5	0.0	100.0 (3778)	99·2 (1682)	0.8 (14)	:]	: ①	100.0 (1696)
33—37	:	97·0 (2303)	2:8 (67)	0.1 (3)	0.1	100.0 (2374)	98·8 (1019)	1:1	0.1 (E)	: ①	100.0 (1031)
38—42	:	97·2 (2612)	2.7 (72)	0.1	0.0	100.0 (2687)	99·5 (1135)	0.2 (9)	: ①	:]	100.0 (1141)
43—47	:	7·79 (9171)	1:9 (33)	0.4	: ①	100.0 (1760)	(069) 6-86 _.	1:0	0.1	: ①	100.0
+84	:	98·3 (5609)	1.5 (88)	0.1	0.1	100.0 (5708)	99.4 (2204)	0.6 (13)	: ①	: ①	100.0
All ages	:	98·1 (24381)	1.8 (448)	0.1 (30)	0.0	100.0 (24865)	99·3 (10723)	0.7 (72)	0:0	: 🕽	100.0 (10798)

ŤABLÉ II Age at marriage

(a) Percentage distribution of women by marriage duration for each age at marriage

					& 	Rural			Ď -	Urban	
					1			l	1		ſ
Matriage duration	ŭ	Number	Number of women		Age at marriage	narriage			Age at marriage	ırriage	
		Rural	Urban	%	, 18—22	23+	All ages	-18	18—22	23+	All ages
0	:	407	152	2:1	1.8	0.0	2·1	1.6	2.2	2:7	1.7
1- 4	:	2,837	1,358	14·3	15.4	14.6	14.4	14.7	19.2	16.2	15.4
5 — 9	:	3,466	1,669	17·7	17.2	17·1	17.6	19.0	18·3	29-7	18-9
10—14	:	3,606	1,672	18.3	18·3	24.4	18·3	19.2	17.8	13.5	19.0
15—29	:	6,290	2,808	31.9	32.5	36.8	32.0	32.3	29.5	32.5	31.8
30+	:	3,070	1,162	15:7	14.8	17.1	15.6	13.2	13.0	5.4	13.2
All durations	:	19,676	8,821	100.0 }	100.0	100.0	100.0	100.0	100.0	100.0	100.0
				ļ							

(b)(i) Marriage duration 0—4 years—current level

	Rural	Rural Urban
1. Percentage of women marrying at age 12 and below	0.9	2.0
2. Median age at marriage	16.3	, 16·5
3. Inter-quartile range	1:1	1:2
4. Average age at marriage	16.3	16.6
(ii) Average age at marriage in marriage duration 10—14 years	16.1	16-1

TABLE III Completed fertility with differentials of age at marriage

(a) Average number of children born to women of completed fertility (Women married once only and now in a married state)

		Ag	e at marria	ge
		<u>-</u> 18	18—22	23+
Rural	••	3.7	3.4	2:5
Urban	••	4.0	3·1	3·4

(b) Percentage of childless women of completed fertility

			ge at marriag	e _
		-18	18—22	23+
Rural		7.9	-12·0	22:2
Urban	**	6.9	13.6	14.3

TABLE IV Incomplete Fertility

(a) Birth Rate

	, 20-9	21.0	
•	Rural	Urban	

(b) Average number of children by age at marriage and duration of marriage

	, ,				Age at marriage	narrjąge			
		Ţ	-18	18	18,–22	23	23+*	All ages at marriage	marriage
Duration of marriage	Q.	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
1-4	:	0.5	9.0	5:0	0.5	0.5	2.0	9.0	9.0
5—13	;	1.6	1.8	1.4	1:7	2:0	1.6	1.6	1.8
10—14	~ ;	22.7	6.7,	2.4	2:5	2.5	5.4	5.6	2.9
15-29	:	3.6	74.0	3-3	3.2	5.8	3.4	3.6	3.9
1 0#	:	.3.7	4.0	3.4	3.1	5.0	3.5	3.7	3.9
All durations †	:	5.6	6-7-	2.4	2:3	2.0	2.3	2.6	5.8
<u> </u>			ā				·	4	

*Based on less than 50 women

†Excludes women with duration of marriage '0' years

TABLE V (A)

INCOMPLETE FERTILITY

Number of women and average number of children born per woman in different durations of married life by characteristics: Religion

		Hindu			Muslim	lim			Christian	tian			Gond	pu	
Duration of married life (in years)	Number of Women	}	Average Number	Number of Women	ir of	Awa	Average Number	Number of Women	er of	Ave	Average Number	Number of Women	er of	Ave	Average Number
	Rural Urban	an Rural	ral Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
1 4 -[2,355 1,1	1,198 0.5	5 0.6	Small	93	1	9.0	Small	= 3	1	I	52	:	4.0	:
÷ −5	2,846 1,5	1,502 1.6	9 1.8	number of women	16	1	2.0	of women	nen	ı	1	78	:	7.	:
10—14 ,	2,989 1,4	1,453 2.6	6 2.9	â	106	1	3.4	2	*	j	ı	91	:	2.3	:
15—29 '	5,176 2,5	2,540 3.6	6 3.9	ţ	138	I	4.0		3	Ī	1	157	:	3.0	:
30+	2,587 1,0	1,055 3.6	9-9	:	72	ł	3∙3†	•	2	I	1	65	:	3.8	:
All durations. *	15,983 7,748		2.6' 2.8	280	200	3.1	5.8	102	76	5.8	3.0	443	:	5.4	:
Characteristic :	Religion					 - 							ļ		
:	×	Kandh			Kisan		•	Į	Mahali	=			Munda	 	1
Duration of married life (in years)	Number of Women		Average Number	Number of Women	of en	Average	Average Number	Number of Women	ır of nen	A A I	Average Number	Number of Women	er of	ANZ	Average
	Rural Urban		Rural Urban	Rural	Urban	Rural Urban	Urban	Rural	Urban	Rural	Urban	Rurai	Urban	Rural	Urban
1-4	Small		:	Small	:	[:	40	:	9.0	:	Small	:	I	:
	number of women	I	:	number of women	:	1	:	53	:	1.8	:	of women	: :		: :
15—29	: :	!	: :	: ;	: :	1	: :	68	: :	3.4	: :	: :	: :	I	: :
30+.	201	2:1	: :	179	: :	2:5	::	62 319	: :	4·3 2·7	: :	285	: :	33	: :
		l													

^{*} Excludes women with duration of married life '0' years.

† Data appear to be defective. Rates are low due to large proportion of childless women.

Not calculated due to small number of women in the sampl:

Characteristic: Religion

Duration Of married life Number of Average Number of Avera		-				
Rural Urban Rural Urban Ru-al Urban Urban Ru-al Urban Urban <td< th=""><th></th><th>r of Average en Number</th><th>Number of Women</th><th>Average Number</th><th>Number of Women</th><th>Average Number</th></td<>		r of Average en Number	Number of Women	Average Number	Number of Women	Average Number
4 Small — Small 9 of women — of women 14 ,, — of women 29, ,, — ,, durations * 178 2.7 252	Urban	7 2	Rural Urban	8	Rural Urban	Rural Urban
14 ", of women — of women 159 ", — ", 159 ", — ", 178 2.7 252	:	:	170	0.5	409 57	0.5 0.5
29 ₁ , , — ,	of women	: :	213	1.4	549 72	1.5 1.6
29, , – , durations * 178 2.7 252	:	:	761	2.7	543 97	2.5 2.5
durations * 178 2·7 252	:	: ! :	344	3.6	999 115	3.5 3.2
178 2·52	:	: 1 :	153	3.8	434 29	3.9 3.2
	:	2.4	1,077	2.5	2,934 370	2.6 2.3
Characteristic : Woman's Education	. uo					
-	ero				_	7

Duration Office Office	<u>-</u>	<u> </u>			ŗ	_	皿 {		 -	 	# { # {		_	9	
2,671 1,148 0.5 0.6 187 0.5 0.6 Small number number of women — Differential groups no dered due to small reduct of women 3,455 1,448 2.6 2.8 149 208 2.7 3·3 ,, , , , , , , , , , , , , , , , , , ,	Duration of married life (i n years)		ther of omen Urban	Ave XVIII Rural	20,2	Num WC Rural	ber of omen Urban	Ave Nu Rural	erage mber ——— Urban	Numbe Wom Rural U	r of en, Jrban	9 E J	gè er Jrban	Number of Women Rural Urban	Average Number Rural Urban
3,311 1,406 1·6 1·7 , 153 242 1·8, 2·5, of women — Differe tial groups no dered due to small r dered due to small r of women. 3,455 1,448 2·6 2·8 149 208 2·7 3·3 , , , — — dered due to small r of women. 2,966 1,074 3·7 3·9 104 86 2·6† 3·5†† , , , — — 18,437 7,587 2·6 2·7 826 1,005 2·1 3·9 6 66 — 2·3	1-4	2,671	1,148	0.5	9.0	, 991	187	0.5	9.0	Sma		I	1		
3,455 1,448 2.6 2.8 149 208 2.7. 3·3 ", " — dered due to small roll of women. 6,034 2,511 3·6 3·8 254 282 2·7† 4·5 ", " — of women. 2,966 1,074 3·7 3·9 104 86 2·6† 3·5†† ", " — — 18,437 7,587 2·6 2·7 826 1,005 2·1 3·0 6 66 — 2·3	6 –2	3,311	1,406	1.6	1.7 "	153	242	1.8	2:5,	numc of wom	er en	l	i		,
6,034 2,511 3·6 3·8 254 282 2·7† 4·5 ", ", — — — — — — — — — — — — — — — — —	10—14	3,455	1,448	5.6	2.8	149	208	2.7.	3.3	•	;	I	I	dered due to	small number
2,966 1,074 3·7 3·9 104 86 2·6† 3·5†† " — 18,437 7,587 2·6 2·7 826 1,005 2·1 3·0 6 66 —	15—2)	6,034	2,511	3.6	3.8	254	282	2.7∤	4.5	2	,	Į	I	от жошеп.	
18,437 7,587 2.6 2.7 826 1,005 2.1 3.0 6 66 —	30+	2,966	1,074	3.7	3.9	104	98	2.6†	3.5††		:	ļ	١		
	All durations *			5.6	2:7		1,005	2.1	3-0	9	99	ļ	2.3		

^{*}Excludes women with 'urations of married life '0' years.

Not calculated due to small number of women in the sample.

**Separate break-up of tribes in urban is not available.

† Data appear to be defective. May be due to misclassification of married, life.

† Data appear to be defective.

TABLE V (A)

INCOMPLETE FERTILITY

Number of women and average number of children born per woman in different durations of married life by characteristics—could. Characteristic: Husband's Education

**************************************		i Î				д .				ΗĄ		ļ	ĺ	٥ ۲		
Duration of married life (in years)	New Work	Number of Women	Į & Ž	Average Number	N N N	Number of Women	Ağı Nu	Average Number	N.W.	Number of	Ave	Average	Number of Women	r of en	Average Number	ige ber
	Ryral	Rural Urban	Rural	ural Ųrban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural U	Urban
1-4	2,423	706	0.5	5.0	332	386	0.5	9.0	Small	211	Ī	9.0	Small	55	1	8.0
6-8	3,071	862	1.6	1.6	324	490	1.6	1.9	of women	243	ļ	2:1	ueinom jo	74	1	2:2
10-14	3,187	926	2.7	7.7	371	429	2.5	3.9	:	222	I	3.5	3	65		3.4
15-29	5,574	1,628	3.6	3.6	655	736	3.4	4.0	2	317	I	4.8	a	127	1	4.1
30+	2,808	789	3.7	3.7	241	566	3.4	4·1	:	78	l	4.9	2	53		4.7
All durations *	17,063	4,941	5.6	5.6	1,923	2,307	2.4	5.8	251	1,071	5.5	3.1	. 33	350	2:7	3.3
	}	Ì														

Characteristic: Nature of Work

!	Average Number	Urban	9,0	.5. 0	3.3	4.0	3.0	3.0
	N _u	Rural	0.5	1.7	7.1	3.0	3.8	5.8
ss ≺	fumber of Vomen,	Urban	171	214	228	380	145	1,148
1	N W M	Rutal	. 42	45	64	116	53	339
	Average	Rural Urban	9.0	5.0	3.4	4.3	4:2	5.8
		Rural	ı	I	1	I	I	2.4
<u>ں</u>	Number of Women	al Urban	163	205		252	45	815
	Numk	Ritral	Small	number of women	=	2	. =	175
	Verage Jumber	Rural Urban	7-0	5.0	3.0	4.5	4.6	3.1
	AN	Rural	1	ſ	1	١	I	5.6
¥.	nen of	Urban	120	179	183	337	48	867
	Numb	Rural	Small	number of women		٠ :	: 2	789
	Average	₹. Crban	0.5	1:8	3.0	4.1	4.4	2.7
.	AN	Rural	0.4	1.5	2.7	3.6	0.4	5.6
T	Number of Women	Treban	205	270	271	354	100	1,204
	(Z ×	Rural	120	145	168	236	87	756
	m life		:	;	: :		:	: * \$u
	Duration of married li (in years)		1-4	8 - -	. 101 411	15.	ն † 00	All curations

*Excludes women with duration of married life '0' years. --Not calculated due to small number of women in the sample.

Characteristic: Nature of Work

3 Census—12]

		an	7	9	7	4		4	1			C EE	0.5	5.0	3·1	4·1	÷	5.9
۲	rage	Urban	2.0	1.6	2.7	3.4	I	2.4		ŀ	Average	Urban					7 :4:1	
	Average Number	Rural	Ī	I	I	1	1	2.3	.		χź	Rural	9.5	1.4	5.6	3.5	3.7	2.5
≱	jo _	Urban	59	72	75	85	11	314		×	g g	Urban	134	145	143	256	105	783
Į	Number of Women	Rural	Small	of women	•	:	â	281			Number Women	Rural	133	206	32	299	114	934
_	0 =	Urban	0.5	1.9	3.2	4.0	4.0	2 ·9			5 5 10 10 10 10 10 10 10 10 10 10 10 10 10	Urban	1	1	1	1	1	
	Average Number	Rura U	0.2	1.5	2.5	3.6	3.7	2.5			Average Number	Rural	- 1	1.	i	1	1	
<u>a</u>	ot	Urban	148	148	177	270	118	,861	-	ο,	, jo [Urban	ber of	.	2	ž	2	2
Į	Number of Women	Rural	128	191	166	268	109	862			Number Women	Rural	Small number of	women "	2	*	,	15
ر	8. H	rban	-uoa	Siliali	*	â		I			age ber	Urban	 - -	I	1	ļ	1	2:1
	Average Number	Rural Urban			:	•	33	I			Average	Rural	0.5	1.7	5.6	3.3	3.5	5.6
臣人	r of en	Urban	ential gro	0	2	•	:	1		FO	Jo 🖫	Urban	-Small	number of women	;	2	2	75
Į	Number of Women	Rural	Differe	namper	•	•	=	9			Number Women	Rural	93	155	166	271	111	962
۲	ge T	Urban	9.0	1.7	2.7	3.5,	3:6	2.7			οH	Urban);0 0;6	1.7	2.7	3.5	3.6	2:7
	Average Number	Rural L	0.2	1.6	5.6	3.5	3.5	5.6	,		Average	Rural	0.5	1.6	5.6	3.5	3.5	5.6
¥.	of en	Urban	224	247	272	547	31.1	1,601	Induştr	FA	of of	Urban	224	247	272	547	311	1,601
l	Number of Women	Rural	1,994	2,385	2,585	4,599	2,181	13,744	ature of		Number of Women	Rural	1,994	2,385	2,585	4,599	2,181	13,744
	n 1 life 's)		:	:	:	:	:	. * SI	istic; N	٦. :) life		:	:	:	:	;	* sı
	Duration of married life (in years)		1-4	5—9	10—14	15—29	3)+	All,durations *	Characteristic; Nature of Industry	Duration	of married life (in years)		1 4	5 - 9	, 10—14	15—29	30+	All durations *

* Excludes women with duration of married life '0' years.
--Not calculated due to small number of women in the sample,

TABLE V (A)

INCOMPLETE FERTILITY

Number of women and average number of children born per woman in different durations of married life by characteristics—concld.

Characteristic: Nature of Industry

		age iber	{	Urban	9.0	1.9	3.0	4.3	4.3	5.8	,
		Average Number	l	Rural	0.4	1.5	2.5	3.8	4.5	5.6	-
ß	1	at, of nen	\[Rural Urban	487	637	579	921	185	2,809	,
	l	Number, of Women	ĺ	Rural	158	165	142	318	123	910	
	_	Average Number	{	Urban	0.5	1.9	2.7	3.3	I	5.4	0,
		Ave	l	Rural	ŀ	I	I	I	ı	2.5	-
T	1	ır of en	<pre>{</pre>	Rural Urban	57	98	96	101	15	355	,
	Į	Number of Women	Į	Rural	Small	of	women ,,	•	•	92	
		ige iber	{	Rural Urban	9.0	2.0	3-3	4 ·1	3.9	3.0	
}		Average Number	ł	Rural	0.5	1.7	5.6	4·1	3.8	5.9	
ပ	}	of a	ſ	Urban	176	214	237	409	145	1,181	
	l	Number of Women	}	Rural	4	99	<i>L</i> 9	119	58	354	1.
			ſ	Rural Urban		i	1	l	ļ	5.6	
		Average number	l	Rural	1	I		1	I	2.7	-
д	- }	jo ,	ſ	Urban	nber of		ž	£	•	183	
	l	Number of Women	{	Rural Urban	Small number of	women		<u></u>	2	27	
		n l life s)			:	:	:	:	:	*SO	
		Duration of married life (in years)			1 4	6 – 5	10—14	15—29	30+	All durations*	-

* Excludes women with duration of married life '0' years.

⁻⁻Not calculated due to small number of women in the sample.

Incomplete Fertility TABLE V (B)

Average number of children born per woman by age at marriage in different durations of married life by characteristics Characteristic: Religion

										Man						Gond	7		
				= 1	Hillan	į				Timen V	1111	1				3 {		(
Duration of married life	life		Rural			Urban		14	Rural		ភ	rban		-	Rural		D	Urban	
(m years)		Age	at marriage		Age	at mart		Age at	t marris		Age at marriage	marria		Agea	marria) 26	Age a	Age at marriage	age
		- R	3 18-22 23+		18 1822 23+	18—22		_18]	<u>-18 18-22 23+</u>		-18 18	-22		-18 18-22 23+	8—22	23+	18	8—22	23+
1-4	:	0.5	0.5	1	9.0	0.5	@	0.8	(3)		9.0	@	1	0.5∤	į	ĺ	:	:	:
5-9	:	1.6	1.4		1.8	1.7	8	2.6	⊚	1	5.0	®	@	1.5	I	i	:	:	:
10-14		2.1	5.4		5.6	2.2	®	3.5†	⊚	ļ	3.5	8	١	2.3	1	i	:	:	:
15—29	:	3.6	3.3	@	4.0	3.3	@	4:1	@	1	4:2	®	ì	3.1	2.3‡	ĺ	:	:	:
3 0+	:	3.7	3.5		4.1	3·1	@	1	(8)	١	3.1**	(8)	1	3.9	{	ļ	:	:	:
All durations*	:	5.6	5.3		5.6	2.3	2.3∤	3.0	3.511]	5.8	2.3	@	5.2	1.8	1	:	:	:
Characteristic : Religion	eligion	_												í	h				

	_,	iage	23+	1	1		1	1	1	
	an@@	t marr	18-22 23+	(3)	8	(8)	(9)	(6)	1.7†	
Tribes	C.	Age	18 1	0.5†	1.6	5.6	3.4	(8)	5.4	
ET IIA		280	23+	®	©	®	(3)		®	
	Rural	at marria	18-22	0.2	1.4	2:3	3.1	3.9	5.4	
		Age at	-18	0.5	1.5	5.2	9.6	3.9	5.6	
		iage	23+	:	:	:	:	:	:	
ļ	Urban	at mari	18—22	:	:	:	:	;	:	
ribes		Age at	-18	:	:	:	:	:	:	
Other T		iage	23-⊦`	(9)	I	(9)	(8)	1	(8)	
_	Rural	at marr	18—22 2	0.6∤	1∙3†	5.8	3.5	4.14	2:5	
		Age at 1	-18	6.5	1:5	5.6	3.6	3.7	5.2	
: 		riage	23+	:	:	:	:	:	:	
	Urban	Age at marr	-18 18-22 23+	:	:	:	:	:	:	
iali		Age	-18	:	:	:	:	:	:	
Mah	(iage	23+	. !	I	ſ	1	1	ſ	
	Rural	it marr	18-22	(8)	@	(8)	3	6	2.5	
		Age 8	8 17 17	0.6†	1.8†	5.6	3.5	4.3	5.8	
	life			:	:	:	:	ì	:	
	Duration of married life	(m years)	,	1-4	6 1	10-14	15—29	30+	All durations *	

* Excludes women with duration of married life '0' years.

@ Not calculated since the flumber of women in the sample was below 25.

† Av¢rage is based on number of women between 25 and 49.

†† Data appear to be defective.

No women

** Lower average due to higher proportion of childless women.

Signore average due to higher proportion of childless women.

Signore average due to higher proportion of childless women.

Signore average due to higher proportion of childless women.

Signore average due to higher proportion of childless women.

Signore average due to higher proportion of childless women.

@@ Separate break-up of Tribes in Urban is not available.

@

3.5**

88868

1.7** 2.9**

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0.6 1.7 2.3 3.2

0.6 2.0 3.0

1.6** 2.4** 3.3 @ 5²

1.4

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10 - 1415—29

5—9

0.2 1.6 2.7

99999

3.3 3.4

3.7

3.7

All durations *

0.3

4.2 ® **%**

4.9 5.0

3.9**

4.2 4:3

@ @

0.5 1.6 2.5 3.4 3.4

99999

2.7 2.9 2.1

3.8 3.7

*#6·1 **9.0

-18 18-22

23+

-18 18-22

23+

_18 18—22

23⁺

-18 18-22

-18 18-22

23+

-18 18--22

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(9)

33 @

3.1**

Incomplete Fertility TABLE V (B)

Average number of children born per woman by age at marriage in different durations of married life by characteristics—contd.

Characteristic: Woman's Education

				C					ਸ਼੍ਰ					1	田人	ر پ		
Duration of married life	.o	Rural			Urban		Ŗ,	Rural	{	Urban	ر <u>۾</u>		- 14	Rural			Urban	
(III Jeans)		Age at ma	marriage	Age	Age at marriage	iage	Agea	Age at marriage	ıge	/Age at	Age at marriage	26	Age 8	Age at marriage	age	Age a	Age at marriage) 281
	ίΙ.	-18 18-22	2 23+	<u>22</u> <u>7</u>	18-22	23+	<u>8</u>	-18 18-22	23+	18	18—22	23+	18	18—22	23+	—18	18—22	23+
1 4	0.5	5 0.5	8	9.0,	9.2	œ,	0.5	Ò	ſ	9.0	0.7	@	:	:	:	:	:	:
	~ `	6 1.4	(8)	1.7	1.6	(3)	8.1	(8)		9.7	1:8**	@	:	:	:	:	:	:
10—14	. 2	7 2.4	(8)	23	2.3	8	2.7	(9)	I	3.3	3.2**	@	:	:	:	:	:	:
. 15—29	3.7	7 3.3	(8)	3.9	3.1	(8)	2.811	(8)	l	4.6	4.3**	ł	:	:	:	:	:	:
30+	. 3.7	7 3.4	(9)	4·1	3.1	<u>®</u>	2.611	(8)		3.5	(9)	I	:	:	:	:	:	
All durations *	2:7	7 2:4	2.0†	5.8	2.5	2.6†	2.1	1.9	1	3.1	5.6	@	:	:	:	:	:	:
Characteristic: Husband's Education	band's.	Education			,													
-				0-				 	四.	(4)					H	ار ب		•
Duration of married life	ife	Rura			Urban			Rural			Urban		_	Rural			Urban	
(in Jeans)		Age at, ma	marriage	.Age	Age at marriage	riage	Age 8	Age at marriage	age	Age	Age at marriage	age	Age	Age at marriage	iage	Age	Age at marriage	iage

years.
ô
E,
married
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duration
with
мошеп
* Excludes

 ⁽a) Not calculated since the number of worthen in the sample was below 25.
 ** Average is based on number of women between 25 and 49.

No women

Differential groups not considered due to small number of women: Women's Education-1. H, 2. G

^{††} Data appear to be defective. May be due to misclassification of duration of married life. † Data appear to be defective

Characteristic: Husband's Education

	Urban Rural Urban	Age at marriage Age at marriag					1			
	Rural	Age at marriage -18 18-22 23+ -1	*				Z	,		
المعت	Urban	Age at marriage		0.8† @ @	2:3†. @ @	3.5 @ -	4.8 @,	4.7† @ -	3.6 2.7 @	,
υ γ	Rural	Age at marriage — 18 18—22 23+		 - 	@ @ @	 	 	 -	2.8† @ @	
Durantida	of married life.	(III years)		1-4			15—29	30+	All durations*	

Characteristic: Nature of Work

•		iage	23+	ł	(9)	@	(3)	1	@
[Urban	Age at marriage	,—18 18—22	0.74	2.0	3.0+	3.7†	©	2:3
ა{		Age	- T	9.0	2.1	3.5	4.4	4.4	2:9
		iage	23+	ı	I	Ĺ	I	1	1
{'	Rural	Age at marriage	-18 18-22 23+	(9)	@	(8)	®	(8)	1.74
		Age	18	0.4	1.4	(9)	4.6	:	2:5
:		iage	33+)	@	l	1	ſ	I	@
ſ	Urban	Age at marriage	-18 18-22 23+	0.7	1.9†	2.8∤	3.7	:@	2.5
		Age	8 1	0,7	2.1	3.0	4.6	4.7‡	3.3
		age	23+		(9)	(9)	1	ļ	®
ļ	Rural	Age at marriage	8—22	(8)	(6)	(6)	@	(9)	2.7‡
		Agea	-18 18-22 23+	0.5∱	1.7‡	2.6†	3.9	3.4†	5.6
		age	23+	(8)	I	(9)	(9)	I	®
7-	Urban	Age at marriage	18 182 <u>23</u> +	0.4‡	1.4	5.6	3.5‡	(g) ±	2.0
		Aģe	188	0.6	1.8	3.1	4.5	4.5	2.9
		iage	23+	ı	(9)	1	(9)	1	@
\frac{1}{2}	Rural	at mari	18—22	(9)	@	@	®	(9)	2:2
٧.		Age a	-18 18	0.4	1.6	2:8	4.0	3.9	2.7
				<i>'</i> :	:	:	:	:	:
Duration	of married life (in years)			1— 4	6.	14	29		All durations*
					5 - 9	10—14	15—29	30,+	All

^{*} Excludes women with duration of married life '0' years.

@ Not calculated since the number of women in the sample was below 25.

† Average is based on number of women between 25 and 49.

No women.

Incomplete Fertility TABLE V (B)

Average number of children born per woman by age at marriage in different durations of married life by characteristics—concld. Characteristic: Nature of Work

		1		∞ ≺					FA						A .			
Duration of married life (in years)		Rural	17		Urban			Rural	{	٦	Urban		-	Rural	1		Urban	
		Age at marriage	narriage		Age at marriage	rriage	Age	Age at marriage	age	Age a	Age at marriage	age	Age	Age at marriage	age	Age	Age at marriage	iage
	18	18 18—22	-22 23+	+ -18	8 18—22	2 23+	18	18—22	23+.	178	18—22	23+	2	18—22	 23 +	<u>18</u>	18—22	23+
1-4	. 0.5†	5† @		9.0	49.0 9	Ì	0.5	0.5	(3)	9.0	0.5†	@	0.5	(B)	@	0.5	(9)	ı
5-9	. 1.6	6		- 2:1	1.8†	®	1.6	1.5	@	1.7	1.5†	(9)	1.5	@	I	1.9	@	(9)
. 10—14	. 2.7	7 @		@ 3 ³ 4	4 2:8†	I	2.7	5.4	(3)	5.8	1.9†	@	5.6	(8)	1	3.5	(9)	(3)
15—29,	. 4.0	(a)	-	- 4.3	3 3.0	(8)	3.6	3.3	®	3.6	9.7	@	3.8	2.2	(3)	4.0	3.3†	1
	. 3.8†	8†		@ 4.2	2 2.7‡	ļ	3.6	3.2	®	3.8	3.1	i	3.7	@	I	4.1	®	1
All durations*	. 2.9	2.3		@ 3·1	1 2.3	0	5.6	5.4	®	5.8	2.5	@	5.6	1.8	®	5.9	2.5	@
Characteristic: Nature of Worl	re of W	Vork									}		 					
				8														1
Duration of married life, (in years)		Rural	al	\ 	Urban			Rural		_	Urban			Rural		_	Urbart	
	ļ	Age at marriage	arriage	Ag	Age at marriage	riage	Age	Age at marriage	ge	Agea	Age at marriage	ge	Age a	Age at marriage	ige	Age a	Age at marriage	age
	. T	-18 18-22	22 23+	[8	18—22	23+	18	18-22	23+	18 1	18—22	23+	18	18-22	۲+	18 1	18—22	23+
1 4 4 5	0.5			8.0			:	:	:	:	:	:	:	:	:	:	:	1:
10—14	7.64	3) (B	1	9.7	B (6	1	:	:	:	:	:	:	:	:	:	:	:	:
15—29	3.5			9 6		i	:	:	:	:	:	:	:	:	:	:	:	:
30+	©			3 €), (i	:	:	:	:	:	:	:	.:	:	:	:	:
All durations*	2.4	1.7	ı	2:5	1.8	9 6	: :	: :	:	:	:	:	:	:	:	:	:	:
)	:	:	:	:	:	:	:	:				

* Excludes women with duration of married life '0' years.

(a) Not calculated since the number of women in the sample was below 25.
 † Average is based on number of women between 25 and 49.
 — No women

Differential groups not considered due to small number of women : 1. FH

Characteristic : Nature of Industry

		riage	23+	1	@	1	ľ	i	®
	Urban	Age at marriage	-18 18-22	®	@	(8)	3.2†	(9)	2.3
		Age	—18 	9.0	5.0	3.5	4:2	4.2	3.0
×		age	23+	(9)	J	I	(6)	}	(9)
1	Rural	Age at marriage	—18 18—22 23+	(8)	1.4†	(8)	2.1	8	1.8
		Age	-1 8	. 0.4	1.4	2.1	3.7	3.7	5.6
		iage	23+	1	1	1	I]	}
í	Urban	Age at marriage	—18 18—22 23+	@	@	(9)	©	®	©
_		Age	<u>~</u>	(9)	(9)	(8)	(9)	(9)	2:5
5 Y				İ	1	1	1	0	(8)
ı	Rural	Age at marriage	—18 18—22 23+·	(8)	1.5	2.2‡	5.6	3.1‡	2.5
		Age	- 1 <u>8</u>	0.2	1.8	2.1	3.2	3.7	2:7
		iage	23+	(0)	(8)	®	®	Ī	(9)
ı	Jrban	Age at marriage	-18 18-22 23+	0.5†	1.51	1.9†	5.6	3.1	2.5
		Age	<u>~</u>	9.0	1.7	5.8	3.6	3.8	5.8
FA		age	23+	(3)	(8)	(9)	(9)	(9)	@
1	Rural	t marriage	18—22 23+	9.2	1.5	2. 4	3.3	3.5	5.4
		Age at	138	9.2	1.6	2.7	3.6	3.6	5.6
	ried life			:	:	:	:	:	:
	Duration of married life	(III Jeans)		1— 4	5-9	10—14	15—29	30+	All durations*

Characteristic: Nature of Industry

rs) Age at marriage Age at marriage -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18—22 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18 18—2 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18—28 23+ -18 18 18—28 23+ -18 18 18 18 18 18 18 18 18 18 18 18 18 1					Ο.	7.					Η.						Ω.	50 .		
Age at marriage Age at marriage Age at marriage 4 0.64 @ - 0.6 0.64 - 9 1'6 @ - 2'0 1'8† @ 14 2'6 @ @ 3'4 2'7† - 29 4'1 @ - 4'3 3'0 @ 20 3'9 @ @ 4'2 2'7† -	uration of married	life		Rural			Urban			Rural			Urban			Rural			Urban	
4 0.64 @ - 0.6 0.6 0.6 - 23 + -18 18-22 23 + 23 + 23 + 23 + 23 + 23 + 23 + 23 +	(ui years)		Age	at marri	age	Age	at mari		Age	Age at marriage	_	Age	Age at marriage	_	Age	Age at marriage	iage	Age	Age at marriage	rriage
4 0'6f @ - 0'6 0'6f - 9 1'6 @ - 2'0 1'8f @ 14 2'6 @ @ 3'4 2'7f - 29 4'1 @ - 4'3 3'0 @ 3'9 @ @ 4'2 2'7f -			-18 -18	18—22	23+	-18	18—22		-18	-18 18-22 23+		-18	18 1822 23+		∞	18 1822 23+	23+	-18	—18 18—22	23+
9 1'6 @ - 2'0 1'8† @ 14 2'6 @ @ 3'4 2'7† - 29 4'1 @ - 4'3 3'0 @ 3'9 @ @ 4'2 2'7† -	4 1	:	0.6†	(9)	I	9.0	₽9.0	ļ	@	(9)	İ	0.6†	@	@	0.5	0.44	,	9,0	9.0	@
14 2·6 @ @ 3·4 2·7† — 2·9 4·1 @ — 4·3 3·0 @ 3·9 @ @ 4·2 2·7† —	6 –	:	1.6	(6)	!	5.0	1.8†	@	1.4	@	1	2.0,	(9)	(3)	1.5	©	(8)	1.9	1.1	(3)
29 4·1 @ — 4·3 3·0 @ 3·9 @ @ 4·2 2·7† —	417	:	5.6	(3)	@	3.4	2.7‡	1	(9)	@	ł	2.7	©	1	2.5	®	®	3.0	5.8	©
3.9 @ @ 4.2 2.7† —	(—29	:	4-1	©	I	4.3	3.0	(9)	@	ļ	1	3.3	@	(8)	3.8	3.6	1	4.4	3.7	(8)
	+	:	3.6	©	(8)	4.5	2.7	I	(9)	l	1	(9)	(9)	1	4.1	(9)	ļ	4.4	(9)	@
2.9 2.5† @ 3.1 2.3 @	All durations*	:	5.9	2.5†	@	3.1	2.3	(9)	2.3	(9)	1	2.5	1.7†	(8)	2.1	2.3	@	3-0	2.3	(3)

— No women Differential groups not considered due to small number of women: 1.Q, 2.B

^{*} Excludes women with duration of married life '0' years.

@ Not calculated since the number of women in the sample was below 25.

† Average is based on number of women between 25 and 49.

TABLE VI (A)
Completed Fertility

Number of women and average number of children born per woman of completed fertility by characteristics

(Women aged 43 years and above)

		R	ural	บ	rban
Characteristic		No. of women	Average No. of children	No. of women	Average No. of children
I. Religion					
1. Hindu 2. Muslim 3. Sikh	••	3,088 38	3·6 4·0	1,310 92	3·9 3·2*
4. Christian5. All Tribes	•••	20 525	 @ 3.8	3 32†	 @ 2·9*
6. Gond 7. Kandh 8. Kisan		89 30	3·5 3·1*	••	•••
9. Mahali 10. Munda	•••	36 61 63	3·6 4·3 4 ·7	••	••
11. Santhal 12. Shabar	•••	42 26	3·6 3·7	••	•••
II. Woman's Education					
 Formal schooling but High School or equivalent examtion not passed High School or equivalent examination 		139	2.6*	96	4:1
3. Graduated from college 4. Others comprising just Literates and Uneducated	••	3,532	··· 3•7	1 1.441	@ 3∙9
III. Husband's Education		-,	٠.	1,711	5,7
1. Formal schooling but High School or equivalent exami	ina-				
tion not passed 2. High School or equivalent examination 3. Graduated from college	· •·	312 26	3•3* 4·9	338 106	4·0 5·0
4. Others comprising just Literates and Uneducated		3,333	3.6	47 951	4·6 3·6
IV. Nature of Work					
 Technical, Professional and Related Workers Administrative, Executive and Managerial Workers Clerical and Related Workers 		105 46	4·1 3·5	135 79	4·3 4·4
4. Sales Workers 5. Farmers	••	26 62 2,629	4·9 .3·7 3·5	69 180 363	4 ·1 3·9 3·5
 Hunters, Loggers and Related Workers Production Process Workers and Craftsmen Unskilled Workers 		122	3.8	149	4:0
	••	29	3.8	28	4.1
V. Nature of Industry 1. (i) Agriculture, where occupation is Farming (ii) Agriculture, where occupation is Other than Farming	••	2,629 138	3·5	363	3:5
2. Quarrying and Mining 3. Manufacture	••	138 134°	3·5 3·7	14 131	@ 4·i
4. Building and Construction5. Commerce6. Transport, Storage and Communication	::	4 69	3·9	27 180	3·9 3·8
1. Transport, Storage and Communication7. Services	••	153	@ 4·2	2 4 279	@ 4 ⁻ 2

[@] Not calculated since the number of women in the sample is below 25.

[†] Separate break-up for different tribes in urban is not available.

^{*} Averages in general are low, but specially in these cases data appear to be defective.

TABLE VI (B)

Completed Fertility

Average number of children born per woman of completed fertility by age at marriage for characteristics

(3 C nsus-13)

Religion

									TOPPOR				
				{					{ 		Ì		<u></u>
Ag	Age at marriage	rriage		Hin	Hindu	Muslim	Sikh	Christian	Gond	Kandh	Kisan	Mahali	Munda
				{	ſ	{	$\left\{ \right.$	{	{	{	$\left\{ \right.$	{	{
				R	U F	R U	R (U R U	R	R U†	R U†	R U†	R Uţ
≅.			:	3.7 4	4.1 3.4	3.4** 3.1	į	4.9**	3.9	3.3**	3.8*	4:3*	4.6*
1822			:	3.2 3	3.1	ī	1	1	:	:	4.2*	4.2**	:
23+			:	2.5** 3.4**	3.4**	[ı	1 i	:	:	:	:	:
Age at marriage	Santhal	Santhal	- Sh	Shabar 	Other	Other Tribes	All Tribes	ibes (
- <u>I</u> -	3.4*	:	3.**	:	3.7		3.9	3.3**					
1822			I		4 ·1	:	3.	1					
23-	i	:		:	1	:	1	ı					

^{*} Average is based on number of women between 25 and 49.

** Average is based on number of women between 11 and 25.

— Average is not calculated since the number of women is up to 10.

† Separat. break-up for different tribes in Urban is not available.

TABLE VI (B)

Completed Fertility

Average number of children born per woman of completed fertility by age at marriage for characteristics—concld.

					Woman¹	Woman's Education	ion]		Husband's Education	Educal	tioa		}
		. ш	(+)	Н			U U		· •	L Щ		H	\		O		
Age at marriage	 ()	<u></u> ~	- D	Ì ≃	} □	ل ي	\	<u>م</u>	ם נ	{ ~	ם	{ ~	þ	پ)	\ P	{ ~	٦
81	:	5:6	3.5	1	I	1	· ·	3.7	4:1	3.4	4:3	5.0**	5.0		4.7*	3.7	3.8
18—22 /	:	1	3:5**	1	1	.	1	3.4	3.1	2.8**	3.1*	ı	4 8 **	1	1	3.4	2.9
23+	:	I	1	1	1	1	ļ	2.5**	3.5**	I	į		1	1	I	2.5**	3.5**
								i I	Nature	of Work							
Age at marriage		_ { ~	\ b	A { ~	\ Þ	O { Z	D	S { Z	\ Þ	FA &	\ P	H {	∫ Þ	۳ \ ×	þ	R	\ D
81	:	3.9	4:5	3.4*	4.7*	4.8**	4.4*	3.8	4.2	3.6	3.0		1	3.7	4.1	4:3**	5.4**
18—22	:	1	2.9**	1	1		1	I	2.7*	3.2	<u>÷</u>	}	1	1	3.3**	1	1
23+	:	1	Ţ		I	I	ļ	1		2.5**	1	1	ı	1	1	Ī	I
			}		1												

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	 	(r	4.5	2.7*	Ţ
	ں	2	3.9	1	1
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Nature of Industry		L U	4.2	3.3**	
Nature	Σ	R	3.7	1	
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	FO	\ <u>\</u>	3.7	3.1*	1
		ر D	3.8	3.1	,
	FA	R R	3.6	3.2	2.5**
			:	:	:
	† 00 ∀	marriage	81	18—22	23

* Average is based on number of women between 25 and 49.

** Average is based on number of women between 11 and 25.

--- Average is not calculated since the number of women is up to 10.

Differential groups not considered due to small number of women: Wonton's Education-1. H, 2. G Nature of Industry-1. F.O., 2. Q

† Separate break-up for different tribes in Urban is not available.

TABLE VII (A)

Marital Fertility Rates (M. F. R.) by characteristics

(Wome i between ages 13 and 47)

N. B. Rates in general are very deficient but in cases where the values are less than 100.0, under recording of live births seems to be the possibility.

Characteristic	R	ural	Ur	ban
Characteristic	No. of women	M. F. R.	No. of women	M.F.R.
. Religion				
1. Hindu	14,205	100.1	7,025	112.5
2. Muslim	260	69.2*	443	112.9
3. Christian	88	102.3	24	(v
4. Gond	399	80.2*		*
5. Kandh	187	58.8*	• •	
6. Kisan	155	77.4*		
7. Mahali	260	69·2*		
8. Munda	241	145.2	, .	
9. Santhal	176	56.8*	• •	
10. Shabar	240	87.5*	• •	• •
11. Other Tribes	975	133.3	2000	an a
12. All Tribes	2,633	102-2	356†	70.2*
I. Woman's Education				
1. Formal schooling but High School or		4046	0.77	
equivalent examination not passed	754	104.8	975	144.6
2. High School or equivalent examination	6	(a)	73	137.0
3. Graduated from college	1	α	11	4
4. Others comprising just Literates and Uneducated	16,425	99-8	6,812	1017
II. Husband's Education	10,92	970	(,01,	16 1
1. Formal schooling but High School or				
equivalent examination not passed	1,771	98.8	2,135	111.5
2. High Sechool or equivalent examination	243	111.1	1,018	139.5
3. Graduated from college	36	138.0	337	121.7
4. Others comprising just Literates and Uneducated	1 - 126	99.8	4,381	100-9
••	15,136	33.0	4,301	100-9
V. Nature of Work				
 Technical, Professional and Related Workers Administrative, Executive and Managerial 	691	140-4	1,139	118-5
Workers	267	127.3	849	122-5
3. Clerical and Related Workers	154	97-4*	787	137.2
4. Sales Workers	300	130.0	1,054	123-3
5. Farmers	12,309	96∙6	1,388	97.3*
6. Hunters, Loggers and Related Workers	6	(()]	(a)
7. Production Process Workers and Craft men	804	111.9	775	118.7
8. Unskilled Workers	270	122.2	303	150.7
7. Nature of Industry				
1. (i) Agriculture, where occupation is	12 200	06.6%	1 200	07.24
Farming (ii) Agriculture, where coupation is	12,309	96.6*	1,388	97.3*
0.4 (1 57)	721	87-4*	72	83.3*
2. Quarrying and Mining	16	((1	. '2	03.3
3. Manufacture	858	115-4	71Õ	123.9
4. Building and Construction	26	115.4	167	113.8
5. Commerce	313	147.0	1,088	120-4
6. Transport, Storage and Communication	91	131.9	353	107.6
7. Services	805	128.0	2,703	128.4

[@] Not calculaed since the number of women in the sample is below 25.

[†] Separate break-up for different tribes in Urban is not available.

^{*} Data appear to be defective due to under-recording of live births.

TABLE VII (B)

Age Specific Marital Fertility Rates (A. S. M. F. R.) by characteristics

Religion
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Age-group		No. of women	ا ق	A.S.M.F.R	F.R.	No. of women	\	S.M.F.R		No. of	⟨	S.M.F.R		No. of women	{ ₹	S.M.F.R	۔ ہن	No. of	₹	S.M.F.]	. م ن
		{z		ે ત્ય	\mathbb{R}^{-1}	\ \ \ \	()	۱ ــــ	(>	\ _ _	5	R† U	ر ^ا ت	{ ~	{>	{	(>	{ ¤	{>	{ ~	(Þ 1
13—17	:	870	414	54.0	82.1		4		6.06	19	:	©	:	1	:	l	:	40		100.0	:
1822	:	3,226 1,654 1	1,654	132-7	149.9	ս ə լ	109		119.3	75	:	2.98	:	87	:	03.4	:	230	:	173-9	:
23—27	:	2,844 1,418	1,418	124.8	150.2	uom	86		142.9	70	:	57.1	:	40	:	75.0	:	161	:	167.5	:
28—32	:	2,838 1,398	1,398	114.5	124.5	10	80		162.5	66		8.08	:	11	:	6.15	:	201	:	144.3	:
33—37	:	1,647	858	94.1	9.56	эди	37	aled	135.1	58		0.69	:	4	:	©	:	128	:	101.6	:
3842	٠	1,700	831	55.3	42.1	ınu	46	յոշը	0.0	41	:	48.8	:	50	:	40.0		124	:	72.6	:
43-47	:	1,080	452	16.7	8.8	llsm	53	o 101	34.5	37	:	0.0	:	7	:	©	:	61	:	49.2	<i>;</i> :
48 ⊥		2,008	828	2.0	3.5	S	63	VI	15.9	52	:	0.0	:	59	:	0.0	:	117	:	17·1	:
Chara t r stic: Religion	Religio	n.																		 	

		∀	 T	ribes																	1
		No. o	ي ا	A.S.M.F.R.	F.R.	No. of /.S.M.F.R.	· /	S.M.F.		No. of	S. A.	^.S. \ .F.R.		No. of		A.S.M.F.R.		No. of		A.S.M.F.R.	.;
		wome	Ę			women				women				women				vomen			
Age-group		R	(D	\ \	\^ ^	2	ר	R C		R U.		R C	•	R U	, [D	R C	-	R	_		(۵
13—17	:	127	13	47.2	(B)	:	١:	:	:	:	:	· :	:	:	. :	٠:	;	 :	ı :	:	ı :
18—22		548	78	78 149.6 102.6	102.6	:		:	:	:	:	:	:	:	:			:	:	:	:
2327	:	511	_	125.2	62.5	:	•	:		:	:	•	:	:	:			:	:	:	:
28—32	:	551	88	116.2	102.3	:	:	:	:	:	:	-:	:	:	:	:	:	:	:	:	:
33—37	:	371	34	9.88	88.2	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
38—42		337	47	50.4	0.0	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:
43—47	٠	188	16	56.6	E	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:
+8+	:	337	16	5.6	Ū	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
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A.S.M.F.R. have not been calculated in cases where the number of women in the differential group falls below 300.

Differential groups not considered due to small number of women: 1. Christian, 2. Kandha, 3. Kisan, 4. Munda, 5. Shabar, 6.Santhal

No women

at a appear to be defective.

*Separate break-up for different tribes in Urban is not available.

TABLE VII (B)

Age Specific Marital Fertility Rates (A. S. M. F. R.) by characteristics-contd.

Characteristic: Woman's Education

							l E				H		1	1	Ö.		 		-		
		Ż	of	A.S.M.F.R	F.R.	No. of	1~	A.S. V.F.R	F.R.	No. of	{ ▼ .	S.M.F.R		No. of	{ ▼	S.M.F.R	•	No. of	{ ▼	S.M.F.R.	نجم
Age group		wom	en			women	_			women		1		women ⊢		₹	١	women	1	{	ſ
		2	\ {	{≃ r	\rightarrow \(\sigma \)	۳		۳	\ D	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ja,	<u></u> ~	_	~	(> '	~	ם	<u>~</u>	٦	×	ָם ⁻
13—17	:	956	393	53.3	2.92	72	77	69.4 103.9	103-9	:	:	:	:	:	:	:	:	:	:	:	:
18—22	:	3,639	1,554	135.5	137·1	506	272	135-9	202.4	• :	:	:	:	:	:	:	:	:	:	:	:
23—27	:	3,302	1,374		125.1 131.7	122	200	123.0	225.0	:	:	:	:	:	:	:	:	:	:	:	:
28—32	:	3,311	1,371	112.1	124·7	145	191	124.1	136.1	:	:	:	:	:	:	:	:	:	:	:	:
33—37	:	1,982	822	90.3	88.5	74	107	108.1	74.8	:	:	:	:	:	:	:	:	:	:	:	:
38—42	:	1,993	841	55.7	38.0	90	85	33.3	35.3	:	:	:	:	:	:	:	:	:	:	:	:
43—47	:	1,242	457	15.3	10.9	45	43	44.4	0.0	:	:	:	:	:	:	:	:	:	:	:	:
, +8+	:	2,290	888	4.4	4.5	94	53	21.3	0.0	:	:	:	:	:	:	:	:	:	:	:	:
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Characterishe:				zasnu Li men	Tuspano s Equeation	oncaric	=														

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ļ	No. of women	{ ~ ~	:	:	:	:	:	:	:	:
ì	A.S.M.F.R.) D { 	3)	194.8	191.8	121.6	46.5	0.0	3	(g)
ۍ ۲	A.S	رح	5	_	~	bət.	orija P	ro 1	No	
	ਰ ਫ਼ਿਰਾਂ)	-	7	73	7	4	3.	24	23
	No. of women	2		uə	шом	10	ıbqı	unu	nsal)	S
	A.S.M.F.R.	\ \	80-0	165.4	203.7	138.9	139.1	38.1	0.0	0.0
ر .	A.S.N	لير					la ed]cn	o tol	I
H	1	{¤	75	254	216	216	115	105	37	69
	No. of women	\ \ \ \ \		ເ: ວ	wov	, ło	por	աոս]ew	S
	Ж.	R C	103.2	101-1	183·7	142.9	63.7	9.75	16.3	4.7
_ ا	A.S.M.F.R.	ا حد ا	42.4 103.2	120.3 101.1	136.0 183.7	95.0	0.86	0.29	8.09	10.3
団.]	Ja	126	534	441	413	251	247	123	215
	No. of women	_ ∠	118	424	331	326	245	209	118	194
	F.R.	()	70.0	9.091	105.4	1111.5	104.8	33.0	9.5	4.1
	A.S.M.F.R	\ \ \	57.4	136.9 160.6	123.9 105.4	113.2	89.1	51.8	12.9	4.6
0.		5	257	984	873	879	525	546	317	634
	No. of women	\ 		3,330	3,034	3,091	1,796	1,854	1,160	2,173
			:	:	:	:	:	:	:	:
	Age-group	1	7	77	7:	2,	7:	7	<i>L</i> :	
			13—17	18—22	23—27	28—32	33—37	38—42	43—47	+8+

@ Not calculated due to small number of women in the sample.

A.S.M.F.R. have not been calculated in cases where the number of women in the differential group falls below 300. Differential groups not considered due to small number of women: Woman's education—1. H, 2.G

TABLE VII (B)
Age Specific Marital Fertility Rates (A. S. M. F. R.) by characteristics—contd.

Nature of Work

Characteristic:

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Age group		No. o	No. ot women	A.3. · .F.K	Τ. Υ.	women	ء و ٿ	A.S.IV	.r. F.	women		1	:	women	- =	1		women	. 1	₹	l
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13—17	:	47	57		87-7		38		105.3		55		90.9	11	19	(a, 1	114.8	756	106	47.6	66.0
18—22	:	154	296		152.0	رعا	183	_	7.707	ນຈນ	661		6.671	5 (2,075			143.4
23—27	•	158	217	508-9	155.2	wo.	171		152.0	MOL	175		194.3	80				ر ر		7	}
28—32	:	141	241	141.8	145.2	n Jo	181	Ţ	132.6	, 1,	162		123.5	89	204	147-1	147·1 2	2,485		_	111.1
33—37	:	84	109	83.3	36.7	15¢r	128	js ec	93.8	nper	66	g,eq	139.8	31	139	161.3	79.1	1,519	174	94·1	7.76
38—42	:	75	106	1.901	28.3	uan (102	noje	8.6	unu	72	Įno[E	13.9	40	132	20.0	60.0	1,537	205	46.4	24.4
43—47	:	32	53	0.0	0.0	յր ա	46	:o ‡0	0.0	llsm	31	:01c:	0.0	18	64	Ō	0.0	996	112	19.7	0.0
48+	•	73	82	0.0	12.2	ıs	33	N	0.0	13	38	. I	0.0	44	116	0.0	0.0	1,663	251	4.8	4.0
Characteri tic:	Nature of Wol	of W	ork		1					 	. 										
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All Cape 40 A		No. of	े ह	A.S.M.F.R.	F.R.	No. of		A.S.M.F.R.	H.	No. of women	1	A.S.M.F.R.	F. P.	No. of women		A.S.M.F.R.	بخ	No. of women	•	A.S.M.F.R	π. π
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13–17	:	36	43	83.3	- 8.69	ſ	15		(9)	:	:	:] :_	:	:	:	:	:	:	:	:
1822	:	861	188	146.5	8.961	u [.]	91		208.7	:	:	:	<u>.</u> :	:	:	:	:	:	•	:	:
23—27	:	186	148	123·7	108.1	emo	19		9.59	:	:	:	:	:	:	:	:	•	:	:	:
28—32	:	164	154	152.4	136.4	⊼ ĵo	69	F	101.4	:	:	:	:	:	:	:	;	:	:	:	:
33—37	:	84	98	5.65	58.1	ıpet	23	iste)	©	:	:	:	:	:	:		:	:	:	:	:
38—42	:	82	66	48.8	8.08	unu	29	กอเย	34.5	:	:	:	:	:	;	:	:	:	:	:	:
43—47	:	54	57	18.5	35.1	llam	15	70, c	©	:	:	:	:		:	:	:	:	:	:	:
48 +	:	89	92	14.7	0.0	3	113	Į	©	:	:	:	:	:	:	:	:	:	:	:	:
© Not calculated due to small number of women in the sample. A.S.M.F.R. have not been calculated in cases where the number of women in the differential group falls below 300. Differential groups not considered due to small number of women: 1. FH Data appear to be defective.	culated d. A. have nal groups	lue to s not been s not co	mall n calcu onsider	umber lated in red due	of wor cases to sm	men in where	the sav	aple. nber o wome	f wome sn : 1,	n in th FH	e diffe	rential	group	falls be	elow 3	e.					

Age Specific Marital Fertility Rates (A. S. M. F. R.) by characteristics-concid. TABLE VII (B) Characteristic. Nature of Industry

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4 V		No.	ا و د	A.S.M.F.R	F.R.	No. of	No. of	<	S.M.F.R.	No. of	{	A.S.M	A.S.M.F.R. No. of A.S.M.F.R	No. of	{ }	.S.M.]		No. of	Ì	A.S.M.F.R.	ربر. بح
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12 —22	:	2,671	286	134.0 146.9	146.9	113	ι	88.2	-	195 1	177 13	133·3 203·4	03.4	92	238 13	153.8	117.6	u	88	1	125.0
23—27	:	2,375	244	122.5	143.4	181	_	127.1	. 1	210 1	49 1.	149 138·1 107·4	07-4	71	224 10	4 169·0 2	205.4	эшси	93	_	118·3
2832		2,485	261	1 107.0	1111-1	155		77.4	•	187 1	29 1.	129 149·7 139·5	39.5	70	212 14	2 142.9 1.	127-4	w jo	82	. ,	134·1
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1822	:	225	675	168.9	174.8			;	;	:	•	:		:	:	:	:	:	:	:	:
23—27	:	135	577	192.6	161.2			:	:	:	:	:	:	:	:	:	:	:	:	:	:
28 32	:	134	577	111.9	135.2		:	:		:		:			:	:	:	:	:	:	:
33—37	:	103	315	97.1	120.6		•	•	:		:	:	:	٠:	:	:	:		:	:	:
3842	:	124	282	88.7	21.3	:			:	:		:	:	:	:			:		:	:
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+8+	:	113	144	0.0	0.0	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
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Characteristic: Nature of Industry

(a) Not calculated due to small number of women in the sample.

A.S.M.F.R. have not been calculated in cases where the number of women in the differential group falls below 300. Differential groups not considered due to small number of women: 1. Q, 2. B

LIST OF AGENTS FOR THE SALE OF GOVERNMENT OF INDIA PUBLICATIONS (as on 17th February 1964)

(as o	n 17th	February 1964)	
AGARTALALaxmi Bhandar Books & Scientific Sales	(Rest.)	BHOPAL—	
AGRA—		1 Superintendent, State Government Press	
1. National Book House, Jeoni Mandi	(Reg)	2. Lyall Book Depot, Mohd, Din Bldg, Sultania Road	(Reg.)
2. Wadhawa & Co., 45, Civil Lines	(Reg.)	3. Delite Books, Opp. Bhopal Tal ^k ies	(Rest.)
3. Banwari Lal Jain, Publishers, Moti Ka ra	(Rest.)	BHUBANESWAR—Ekamra Vidyabhaban, Eastern Tower, Room No. 3	(Resi,)
4. English Book Depot, Sadar Bazar, Agra Cantt	(Rest.)	BIJAPUR—Shri D. V. Deshpande, Recognised Law Booksellers,	•
AHMADNAGAR-V. T. Jorakar, Prop. Rama General Stores,	(D ()	Prop. Vinod Book Depot, Near Shiralsheti Chowk	(Rest.)
Navi Path	(Rest.)	BIKANER—Bhandani Bros	(Rest.)
AHMEDABAD—	(D)	BILASPUR—Sharma Book Stall, S dar Bazar	(Rest.)
Balgovind Kuber Dass & Co., Gandhi Road Chandra Kant Chiman Lal Vor a Gandhi Road	(Reg.)	BOMBAY-	
Chandra Kant Chiman Lal Vor a Gandhi Road New Order Book Co., Ellis Bridge	(Reg.)	1 Supdt., Printing and Stationery, Queens Road	_
4. Mahajan Bros., Opp. Khadia Police Gate	(Rest.)	2. Charles Lambert and Co., 101, Mahatma Gandhi Road	(Reg.)
5. Sastu Kitab Ghar, Near Relief Talkies, Patthar Kuva, Relief		 Co-operators Book Depot, 5/32, Ahmed Sailor Bidg. Dadar Current Book House, Maruti Lane, Raghunath Dadaji St 	(Reg.) (Rcg.)
Road	(Reg.)	5. Current Technical Literature Co. P. Ltd., India House, 1st Floor	(Reg.)
AJMER—		6. luternational Book House Ltd., 9, Ash Lane, M. G. Road	(Reg.)
1. Book-Land, 663, Madar Gate	(Reg.)	7. Lakkani Book Depot, Girgaum	(Reg.)
2. Rajputana Book House, Station Road 3. Law Book House, 271, Hathi Bhata	(Reg.) (Reg.)	8. Elpees Agencies, 24, Bhangwadi, Kalbadevi	(Reg.)
4. Vijay Bros., Kutchery Road	(Rest.)	9. P. P. H. Book Stall, 190-B, Khetwadi Main Road	(Reg.)
5. Krishna Bros., Kutchery Road	(Rest.)	10. New Book Co., 188-190, Dr. Dadabhai Naoroji Road	(Reg.)
ALIGARH-Friends' Book House, Muslim University Market	(Reg.)	 Popular Book Depot, Lamington Road Sunder Das Gian Chand, 601, Girgaum Road, Near Princess 	(Reg.)
ALIOARII—I nendo 2004 11000, mando outroot, mano	(8*)	Street	(Reg.)
ALLAHABAD—		 D. B. Taraporewala Sons and Co. (P) Ltd., 210, Dr. Dadabhai Naoroji Road 	(Reg.)
1. Superintendent, Printing & Stationery, U. P.	(Pag.)	14. Thacker and Co., Rampart Row	(Reg.)
 Kitabistan, 17-A, Kamla Nehru Road Law Book Co., Sardar Patel Marg, P. Box 4 	(Reg.) (Reg.)	15. N. M. Tripathi Private Ltd.; Princess Street	(Reg.)
4. Ram Narain Lal Beni Modho, 2-A, Katra Road	(Reg.)	16. The Kothari Book Depot, King Edward Road	(Reg.)
5. Universal Book Co., 20, M. G. Road	(Reg.)	 P. H. Rama Krishna and Sons, 147, Rajaram Bhuvan, Shivaji Park Road No. 5 	(Rest.)
6. The University Book Agency (of Lahore), Elgin Road	(Reg.)	18. C. Jamnadas and Co., Booksellers, 146-C., Princess St	(Reg.)
7. Wadhwa & Co., 23, M. G. Marg .	(Rest.)	19. Indo Nath and Co., A-6, Daulat Nagar Borivli	(Reg.)
8. Bharat Law House, 15, Mahatma Gandhi Marg	(Rest.)	20. Minerva Book Shop, Shop No. 1/80, N. Subha & Road	(Reg.)
9. Ram Narain Lal Beni Prashad, 2-A, Katra Road	(Rest.)	21. Academic Book Co., Association Building, Girgaum Road	(Rest.)
AMBALA		22. Dominion Publishers, 23, Bell Building, Sir P. M. Road	(Rest.)
1. English Book Depot, Ambala Cantt.	(Reg.)	23. Bombay National History Society, 91 Walkeshwar Road	(Rest.)
2. Seth Law House, 8719, Railway Road, Ambala Cantt	(Rest.)	24. Dowamadeo and Co., 16, Naziria Building, Ballard Estate25. Asian Trading Co., 310, the Miraball, P. B. 1505	(Rest.) (Rest.)
AMRITSAR-			(14000)
1. The Law Book Agency, G. T. Road, Putligarh	(Reg.)	CALCUTTA— 1. Chatterjee and Co., 3/1, Bacharam Chatterjee Lane	(Reg.)
2. S. Gupta, Agent, Govt. Publications, Near P. O. Majith Mandi	(Reg.)	2. Dass Gupta and Co. Ltd., 54/3, College Street	(Reg.)
3. Amar Nath & Sons, Near P. O. Majith Mandi	(Reg.)	3. Hindu Library, 69 A, Bolaram De Street	(Reg.)
ANAND-		4. S. K. Lahiri and Co. Private Ltd., College Street	(Reg.)
1. Vijaya Stores, Station Road	(Rest.)	5. M. C. Sarkar and Sons. Private Ltd. 14, Bankim Chatterjee Street	(Dec.)
2. Charto Book Stall, Tulsi Sadan, Stn. Road	(Rest.)	6. W. Newman and Co. Ltd. 3, Old Court House Street	(Reg.)
ASANSOL -D. N. Roy & R. K. Roy, Booksellers, Atwal Building		7 Oxford Book and Stationery Co. 17 Park Street	(Reg.)
ASAMSOLD. N. Roy & R. K. Roy, Bookschers, Atwar Bullung	(Mest.)	8. R. Chambray and Co. Ltd. Kent House, P. 33, Mission Road	
BANGALORE-		Extension 9. S. C Sarkar and Sons Private Ltd. I. C. College Square	(Reg.)
1. The Bangalore Legal Practitioner Co-op. Society Ltd., Bar		10. Thacker, Spink and Co. (1933) P., Ltd., 3, Esplanade East	(Reg.) (Reg.)
Association Building	(Reg.)	11. Firma K. L. Mukhopadhyay, 6/1A, Banchha Ram Akrar Lane	(Reg.)
 S. S. Book Emporium, 118, Mount Joy Road The Bangalore Press, Lake View, Mysore Road, P. O. Box 507 	(Reg.) (Reg.)	12. K. K. Roy, P. Box No. 10210, Calcutta-19	(Re.t.)
4. The Standard Book Depot, Avenue Road	(Reg.)	13. Sm. P. D. Upadhyay, 77, Muktaram Babu Street	(Rest.)
5 Vichara Sahitya Private Ltd., Balepet	(Reg.)	14. Universal Book Dist, 8/2, Hastings Street	(Rest.)
6. Makkala Pustaka Press, Balamandira, Gandhinagar	(Reg.)	15. Modern Book Depot, 9, Chowringhee Centre	(Rest.)
7. Maruthi Book Depot, Avenue Road	(Rest.)	16. Soor and Co., 125, Canning Street	(Reg.)
8. International Book House P. Ltd., 4-F., Mahatma Gandhi Road	(Pag)	17. S. Bhattacharjee, 49 Dharamtala Street 13. Mukherjee Library, 10 Sarba Khan Road	(Rest)
9. Navakarnataka Pubns. Private Ltd., Majestic Circle	(Reg) (Rest.)	19. Current Literature Co. 208, Mahatma Gandhi Road	(Rog.), (Rog.)
BAREILLY—Agarwal Brothers, Bara Bazar		20. The Book Depository, 4/1, Madan Street (1st Floor)	(Rest.)
BARDILL I —Agaiwai Dioticis, Daia Bazai	(Reg.)	21. Scientific Book Agency, Netaji Subhas Road	(Rest.)
BARODA		² 2. Reliance Trading Co., 17/1 Banku Bihari Ghose Lane, District	
1. Shri Chandrakant Mohan Lal Shah, Raopura	(Rest.)	Howrah 23. Indian Book Dist. Co., 6512, Mahatma Gandbi Ror I	(Rest.):
2. Good Companions Booksellers, Publishers & Sub-Agent	(Rest.)	CALICUT—Touring Book Stall	(Rest.) (Rest.)
3. New Medica: Book House, 540 Madan Zampa Road	(Rest.		(*************************************
BEAWARThe Secretary, S. D. College, Co-operative Stores Ltd.	(Rest.)	CHANDIGARH— 1. Supdt., Govt. Printing and Stationery, Punjab	
BELGHARIA-Granthlok, Antiquarian Booksellers & Publishers		2. Jain Law Agency, Flat No. 8, Sector No. 22	(Reg.)
(24-Parganas), 5/1 Amilica Mukherjee Road	(Reg.)	3. Rama News Agency, Bookseller, Sector No. 22	(Reg.)
BHAGALPUR-Paper Stationery Stores, D. N. Singh Road	(Reg.)		(Reg.
3 Cansus—14)			

			GWALIOK-	
English Book Shop, 34, Sector 22D	٠.	(Rest.)	1. Supdt, Printing & Stationery, M. B.	
6. Mehta Bros, 15-Z, Sector 22-B	• •	(Rest.)	2. Loyal Book Depot, Patankar Bazar, Laskhar	(Res.
7. Tandan Book Depot, Shopping Centre, Sector 16		(Rest.)	3. M. C. Daftari, Prop. M. B. Jain & Bros., Bookseilere, Sarafa,	,
8. Kailash Law Publishers, Sector 22-B		Rest.)	Lashkar	(Rest.
		(D - +4)	HUBLI-Pervaje's Book House, Koppikar Road	(Reg.
CHHINDWARA—The Verma Book Depot		(Rest.)	HYDERABAD—	
COCHIN-Saraswat Corporation Ltd., Palliarakav Road		(Reg.)	i Director, Govt. Press	
				(D
CUTTACK-			2. The Swaraj Book Depot, Lakdikapul	(Reg.
1. Press Officer Orissa Sectt.			3. Book Lovers Private Ltd.	(Rest.
2. Cuttack Law Times		(Reg.)	4. Labour Law Publications, 873, Suitan Bazar .	(Rest.
3. Prabhat K. Mahapatra, Mangalabag, P. B. 35		(Reg.)	IMPHAL—Tikendra and Sons, Bookseller	(Rest.
4. D. P. Sur & Sons, Mangalabag		(Rest.)		(ICOL.
		-	INDORE—	
5. Utkal Stores, Balu Bazar	• • •	(Rest.)	1. Wadhawa and Co., 56, M. G. Road	(Reg.
DEHRADUN—			2. Swarup Brothers, Khajuri Bazar	(Rest.
1. Jugal Kishore & Co., Rajpur Road		(Reg.)	3. Madhya Pradesh Book Centre, 41, Ahilyapura	(Rest.
2. National News Agency, Paltan Bazar		(Reg.)	4. Modern Book House, Shiv Vilas Palace	-
3. Bishan Singh and Mahendra Pal Singh, 318, Chukhuwala		(Reg.)	•	(Rest.
	• •		 Navyug Sahitya Sadan, Publishers and Booksellers, 10, Khajuri Bazar 	
4. Utam Pustak Bhandar, Paltan Bazar	• •	(Rest.)		(Rest.
DELHI—			JABALPUR	
1. J. M. Jaina & Brothers, Mori Gate		(Reg.)	1. Modern Book House, 286, Jawaharganj	(D
	-	(Reg.)		(Reg.)
2. Atma Ram & Sons, Kashmere Gate	• •		2. National Book House, 135, Jai Prakash Narain Marg	(R.)
3. Federal Law Book Depot. Kashmere Gate	• •	(Reg.)	JA IPUR	
4. Bahri Bros., 188, Lajpat Rai Market	• •	(Reg.)	1. Government Printing and Sationery Department, Rajasthan	
 Bawa Harkishan Dass Bedi (Vijaya General Agencies) P 2027, Ahata Kedara, Chamalian Road 	ъ В.	(D.)	2. Bharat Law House, Booksellers and Publishers, Opp. Prem	
	• •	(Reg.)	Prakash Cinema	(Reg.)
Book-Well, 4, Sant Narankari Colony, P. B. 1565		(Reg.(3. Garg Book Co., Tripolia Bazar	(Reg.)
7. Imperial Publishing Co., 3, Faiz Bazar, Daryaganj		(Reg.)	4 Vani Mandin Sawai Mansingh III-hama	
8. Metropolitan Book Co., 1, Faiz Bazar		(Reg.)		(Reg.)
9. Publication Centre, Subzimandi		(Reg.)	5. Kalyan Mal and Sons., Tripolia Bazar	(Rest.)
		(Reg.)	6. Popular Book Depot, Chaura Rasta	(Reg.)
10. Youngman & Co., Nai Sarak			7. Krishna Book Depot, Chaura Rasta	(Rest.)
11. Indian Army Book Depot, 3, Daryaganj	. • •	(Reg.)	8. Dominion Law Depot, Shah Building, P. B. No. 23	(Rest.
12. All India Educational Supply Co. Shri Ram Buildings, Jaw	ahar	(Past)	TAMNAGAD Swadashi Vostu Dhanda-	
Nagar		(Rest.)	JAMNAGAR—Swadeshi Vastu Bhandar	(Reg.)
13. Dhanwant Medical & Law Book House, 1522 Lajpat	Kai	(Rest.)	AMSH E	
Market		(Mest.)	-	
14. University Book House, 15, U. B. Bangalore Road, Jawa Nagar	anar 	(Rest.)	1. Amar Kitab Ghar, Diagonal Road, P. B. 78	(Reg.)
_			2. Gupta Stores, Dhatkidih	(Reg.)
15. Law Literature House, 2646, Balimaran	• •	Rest.)	3. Sanyal Bros, Booksellers and News Agents, Bistupur Market	(Rest.)
16. Summer Brothers, P. O. Birla Lines	• •	(Rest.)		
17. Universal Book & Stationery Co., 16 Netaji Subhash Marg	• •	(Reg.)	JAWALAPUR—Sahayog Book Depot	(Rest.)
18 B. Nath & Bros., 3808, Charkhawalan (Chowri Bazar)	• •	(Rest.)	JHUNJHUNU	
19. Rajkamal Prakashan P. Ltd., 8. Faiz Bazar		(Reg.)	1. Shashi Kumar Sarat Chand	(Rest.)
20. Premier Book Co., Printers, Publishers & Booksellers, Nai Sa	ırak	(Rest.)	2. Kapram Prakashan Prasaran, 1/90 Namdha Niwas, Azad Marg	
21. Universal Book Traders, 80, Gokhale Market		(Reg.)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	(R.)
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22. Tech. & Commercial Book Coy. 75, Gokhle Market	••	(Rest.)	I. Dwaraka Das Rathi, Wholesale Books and News Agents	(D)
23. Saini Law Publishing Co., 1416, Chabigani, Kashmere Gate	• •	(Rest)		(Reg.)
24. G. M. Ahuja, Booksellers & Stationers, 309, Nehru Bazar	••	(Rest.)	2. Kitab-Ghar Sojati Gate	(Reg.)
25. Sat Narain & Sons, 3141, Mohd. Ali Bazar, Mori Gate		(Reg.)	3. Choppra Brothers, Tripolia Bazar	(Reg.)
26. Kitab Mahal (Wholesale Div.) P. Ltd., 28, Faiz Bazar		(Reg.)	Trift Tribitio	
27. Hindu Sahitya Sansar, Nai Sarak		'(Rest.)	JULLUNDUR	
28. Munshi Ram Manohar Lal, Oriental Booksellers & Publish		(11031.)	1. Hazooria Bros, Mai Hiran Gate	(Rest.)
P. B. 1165, Nai Sarak		(Rest.)	2. Jain General House, Bazar Bansanwala	(Reg.)
29. K. L. Seth, Suppliers of Law, Commercial Tech. Books, Sh	anti	,	3. University Publishers, Railway Road	(Rest.)
Nagar, Ganeshpura		(Re,t.)		
30. Adarsh Publishing Service, 5 A/10 Ansari Road		(Rest.)	KANPUR	
-	••	(21004.)	1. Advani and Co., P. Box 100, The Mall	(Reg.)
DHANBAD—			2. Sahitya Niketan, Shradhanand Park	
1. Ismag Co-operative Stores Ltd., P. O. Indian School of Mine	es	(Reg.)	3. The Universal Book Stall, The Mall	(Reg.)
2. New Sketch Press, Post Box 26		(Rest.)	,	(Reg.)
		(,	4. Raj Corporation, Raj House, P. B. 200, Chowk	(Rest.)
DHARWAR-			KARUR—Shri V. Nagaraja Rao, 26, Srinivaspuram	(Rest.)
 The Agricultural College Consumers Co-op. Society 	••	(Rest.)	KODARMA-The Bhagwati Press, P. O. Jhumri Tilaiya, District	
2. Rameshraya Book Depot, Subhas Road		(Rest.)	Hazaribagh	(Reg.)
3. Karnatakaya Sahitya Mandira of Publishers and Booksellers		-	KOLHAPUR-Maharashtra Granth Bhandar, Mahadwar Road	(Rest.)
			KOTA-Kota Book Depot	(Rest.)
ERNAKULAM-			KUMTA-S. V. Kamat, Booksellers and Stationers (N. Kanara)	(Reg.)
1. Pai & Co., Cloth Bazar Road		(Rest.)		(1108.)
2. South India Traders, C/O Constitutional Journal		(Reg.)	LUCKNOW-	
FEROZEPUR—English Book Depot. 78, Jhoke Road		(Reg.)	 Soochna Sahitya Depot (State Book Depot) 	
	••	(LUG.)	2. Balkrishna Book Co. Ltd., Hazratganj	(Reg.)
G AUHATIMokshada Pustakalaya	••	(Reg.)	3. British Book Denot 84. Hazratoani	(Reg.)
GAYA-Sahitya Sadan, Gautam Buddha Marg		(Reg.)	4 Ram Advani Hazratrani P R 154	
	••	(1Cg.)	5. Universal Publishers (P) Ltd., Hazratgani	(Reg)
HAZIABAD—Jayana Book Agency		(Rest.)	- · · · · · · · · · · · · · · · · · · ·	(Reg.)
GORAKHPUR-Vishwa Vidyalaya Prakashan, Nakhes Road		(Reg.)	6. Eastern Book Co., Lalbagh Road	(Reg)
GUDUR-The General Manager, The N. D. C. Publishing	&		7. Civil and Military Educational Stores, 106/B, Sadar Bazar	(Rest.)
Ptg. Society Ltd.		(Rest.)	8. Acquarium Supply Co., 213, Faizabad Road	Rest.)
GUNTUR-Book Levers Private Ltd., Kadriguda, Chowrasta		(Reg.)	9. Law Book Mart, Amin-Ud-Daula Park	(Rest.)
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LUDHIANA-				
1 . Layall Book Depot, Chaura Bazar		(Reg.)	7. Jain Book Agency, C-9, Prem House, Connaught Place 8. Oxford Book and Stationery Co., Scindia House	(Reg.)
	• •	(Rest.) (Rest.)	9. Ram Krishan and Sons (of Lahore), 16/B, Connaught Place	(Reg.)
4. The Pharmacy News, Pindi Street	• •	(Rest.)	10. Sikh Publishing House, 7-C, Connaught Place	(Reg.)
			11. Suneja Book Centre, 24/90, Connaught Circus	(Reg.)
MADRAS— 1. Superintendent, Government Press, Mount Road			12. United Book Agency, 31. Municipal Market, Connaguht Circus	(Reg.)
2. Account Test Institute, P. B. 760, Emgore		(Reg.)	 Jayana Book Depot, Chhaparwala Kuan, Karoi Bagh Navayug Traders, Desh Bandhu Gupta Road, Dev Nagar 	(Reg.)
3. C. Subbiah Chetty and Co., Triplicane	••	(Reg.)	14. Navayug Traders, Desh Bandhu Gupta Road, Dev Nagar 15. Saraswati Book Depot, 15, Lady Harding Road	(Reg.) (Reg.)
4. K. Krishnamurty, Post Box 384	••	(Reg.)	16. The Secretary, Indian Met. Society, Lodi Road	(Reg.;
	••	(Reg.) (Reg.)	17. New Book Depot, Latest Books, Periodicals, Stationery and	
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9. V. Sadanand, The Personal Bookshop, 10, Congress Building		(D - +)	20. Hindi Book House, 82, Janpath	(Rest.)
111, Mount Road	••	(Rest.)	21. Peoples Publishing House (P) Ltd., Rani Jhansi Road	(Reg.)
MADURAI—		(Reg.)	22. R. K. Publishers, 23, Beadon Pura, Karol Bagh	(Rest.)
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		(Rest.)	25. Sarvodaya Service, 66A-1, Rohiak Road, P. B. 2521	(Rest.) (Rest.)
MANGALORE-U. R. Shenoye Sons, Car Street, P. Box 128		(Reg.)	26. H. Chandson, P. B. No. 3034	(Rest.)
MANJESHWAR-Mukenda Krishna Nayak	• •	(Rest.)	27. The Secretary Federation of Association of Small Industry	· · · ·
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4. Bharat Educational Stores, Chhipi Tank		(Rest.)	1. Singhals Book House, P. O. B. 70, Near the Church	(Rost.)
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MONGHYR-Anuasandhan, Minerva Press Building		(Rest.)	PATHANKOT—The Krishna Book Dept, Main Bazar	(Rest _e)
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5. Indian Mercantile Corporation, Toy Palace, Ramvilas	••	(Rest.)	4. Raka Book Agency, Opp. Natu's Chawl, Near Appa Balwant	(Reg.)
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		(Page)	Main Road	
2. Weastern Book Depot, Residency Road	••	(Reg.)	RAJKOT-Mohan Lai Dossabhai Shah, Booksellers and Sub-Agents	Reg.)
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 Hindustan General Stores, Paper and Stationery Merchants, P. No. 51 	. В.	(Rest.)	ROURKELA—The Rourkela Review	(Rest.)
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2. Bhawani and Sons, 8. F, Connaught Place	٠.	(Reg.)		
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- 2. Govt. of India Book Depot, 8 Hastings street, Calcutta
- 3. High Commissioner for India in London, India House, London, W. C. 2

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- 2. Gahlot Bros., K. E. M. Road, Bikaner
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