Profiles of Fertility in Districts of India, 2019-2021

Aalok R Chaurasia Manju Singh

Abstract

This paper presents estimates of total fertility rate (TFR) for 707 districts of the India based on the data available from the National Family Health Survey, 2019-2021. The paper also classifies 707 districts into the profiles of fertility depending upon the total marital fertility rate (TMFR) and proportion of reproductive age women who are married in a district relative to the TMFR and the proportion of married women of reproductive age in the country. The paper highlights the variation in TFR across the districts of the country. In 326 of the 707 districts of the country, the TFR is estimated to be below the replacement level, although there are 67 districts in which TFR is estimated to be very high, at least 3 births per woman of reproductive age. The paper reveals that 707 districts of the country can be classified into six fertility profiles depending upon the level of TMFR and the proportion of reproductive age women who are married.

Introduction

Direct estimates of fertility for the districts of India are not available from any source. The registration of births in India is mandatory by the Registration of Births and Deaths Act of 1969 (Government of India, 1969), yet according to the latest round of the National Family Health Survey (2019-2021), birth of only around 89 per cent of children below 5 years of age in the country was found to be registered under the official civil registration system and this proportion varies widely across the districts of the country (Government of India, 2022). The Registration of Births and Deaths Act, 1969 provides for the registration of births on the *de-facto* basis rather than on the *de-jure* basis and, therefore, it is not possible to estimate fertility from the births registered under the civil registration system. The estimation of fertility also requires estimates of population by age and sex which are also not available through the civil registration system. The only source of information about the population of the district by age and sex in India is the decennial population census. The last decennial population census in India was conducted way back in 2011. There was no decennial population census in the country in 2021 so that estimates of the population of the district by age and sex at the recent date are not available. Direct estimation of fertility in the districts of the country based on the data available from the National Family Health Survey is not reliable because the size of the sample of households surveyed in a district is too small to provide reliable estimates of fertility in the districts of the country.

In the absence of direct estimates, attempts have been made to estimate district fertility through the application of indirect methods of fertility estimation. Different indirect methods of fertility estimation have been proposed. The most common of these methods is the P/F ratio method first proposed by Brass and its many refinements (Brass, 1968; 1975; Hobcraft et al, 1982; Moultrie et al, 2013). Cho and others (1986), on the other hand, have proposed the own children method based on the reverse survival technique while Rele (1967) has used the stable population method which has been modified by Swamy and others (1992). Regression-based methods have also been proposed (Mauldin and Ross, 1991; Jain, 1997, Singh et al, 2012). The mean duration of the interval between successive live births has also been used to estimate fertility (Srinivasan, 1980; Yadav and Kumar, 2002). Yadava and others (2009) have proposed a method based on the weighted average of the proportionate distribution of live births by birth order whereas Yadava and others (2009) have used the proportion of women having a live birth during the five years preceding the survey. Tiwari and others (2020) have used the proportion of childless women of reproductive age to explain the variation in TFR.

United Nations (1967) has suggested a simple approach to estimate total marital fertility rate (TMFR) from the average parity of currently married women of the younger age group. This method is based on the hypothesis that in populations that employ little birth control the ratio of the average parity of currently married women at the end of the child-bearing period to the average parity of currently married women of a younger age group is closely related to the relative average parity of currently married women early and late in their twenties. If the average number of children ever born (average parity) to women aged 15-19 years is P_1 ; average parity of currently married women aged 20-24 years is P_2 , and so on, so that the average parity of currently married women aged 45-50 years is P_7 , then this hypothesis means that.

$$\frac{TMFR}{P_3} \approx \frac{P_3}{P_2} \tag{1}$$

or

$$TMFR \approx \frac{P_3^2}{P_2} \tag{2}$$

If the equation (1) holds empirically, then TMFR can be approximated as

$$TMFR = \alpha + \beta * (P_3^2/P_2) \tag{3}$$

where α and θ are constants to be determined.

Yadava and Tiwari (2007) have modified the approach suggested by the United Nations (1967) by considering the extent of family planning use as a predictor of TFR. Gupta, and others (2014), on the other hand, have argued that with the increase in the age at marriage, there is a shift in fertility towards higher ages. They have, therefore, suggested that.

$$\frac{TFR}{Q_4} \approx \frac{Q_4}{Q_3} \tag{4}$$

where *Q* denotes the average parity of all women in a given age group, not the average parity of currently married women. The TFR may now be calculated as

$$TFR = \gamma + \delta * (Q_4^2/Q_3) \tag{5}$$

where γ and δ are constants to be determined. Singh and others (2022), on the other hand, have suggested that

$$\frac{TMFR}{P_5} \approx \frac{P_5}{P_4} \tag{6}$$

which means that TMFR may be estimated as

$$TMFR = \mu + \rho * (P_5^2/P_4)$$
 (7)

Singh and others (2022) have also tested the stability or the robustness of the regression model (7) by estimating the shrinkage or the decrease in the coefficient of determination which is attributed to the application of the regression model to a new data set. It is well known in the regression analysis that a fitted relationship performs less well on a new data set than the data set used for fitting the model (Everitt, 2002). The robustness of the regression model implies that the regression model can be applied to dataset other than the one that is used to establish the relationship between the dependent and the independent variables and there is no loss of information.

Using the indirect methods of fertility estimation, there have been attempts in the past to estimate fertility in the districts of the country. The Registrar General and Census Commissioner of India has produced estimates of different indicators of fertility for the districts of the country based on the children ever born data collected during the 1981, 1991 decennial population censuses through the application of Brass PF Ratio method (Government of India, 1988; 1997). Similar exercise has, however, not been carried out by the Registrar General and Census Commissioner of India based on the data collected in 2001 and 2011 decennial population censuses. District level estimates of fertility using data from decennial population censuses have also been prepared by Mishra and others (1994), Guilmoto and Rajan (2002; 2013) and Kumar and Sathyanarayana (2012) using different indirect methods of fertility estimation. There has, however, been no decennial population census in India after 2011 so that census-based estimates of fertility for the districts of the country are not available after 2011.

The Government of India had also instituted the Annual Health Survey Programme in 2010 to generate estimates of key demographic indicators for the districts annually (Government of India, 2011). This survey, however, did not cover all districts of the country and was discontinued after 2013. The fourth round of the National Family Health Survey (2015-2016) provided district level data which have been used by many authors to estimate fertility in the districts of the country (Singh et al, 2022; Mohanty et al, 2016; Chatterjee and Mohanty, 2021; Jayachandran and Ram, 2019). have estimated indicators of fertility rate in 640 districts of the country as they existed at the time of the 2011 decennial population census. There, however, appears to be little attempt to estimate fertility in the districts of the country from the data available from the fifth round of the National Family Health Survey (2015-2016).

This paper presents estimates of total fertility rate (TFR) for the 707 districts of the country based on the data available from the fifth round of the National Family Health Survey (2019-2021). The method proposed by Singh and others (2022) has been used to

estimate TFR at the district level. The estimate of TFR for the country based on the method proposed by Singh and others (2022) is found to be very close to the estimate of TFR based on the full birth history data. The paper also attempts to classify districts into fertility profiles which are characterised by the level of the fertility of married women of reproductive age and the proportion of women of reproductive age who were married at the time of the survey in the district relative to the national average. The analysis reveals that 707 districts can be classified into six fertility profiles depending upon the direction of the difference in marital fertility and proportion of married among between the district and the national average.

The Method

Using the data from the official sample registration system of India for the period 1986 through 2015, Singh and others (2022) have established the following empirical relationship

$$TMFR = 0.9409 * P_5^2 / P_4 + 0.1738 \tag{8}$$

where TMFR is the total fertility rate, P_5 is the average number of children ever born to women aged 35-39 years and P_4 is the average number of children ever born to women aged 30-34 years. The coefficient of determination (R^2) was 99.74 per cent while the cross-validity prediction power (CVPP) was 0.99. The CVPP reflects the robustness of the model or model stability over populations (Herzberg, 1969). Once TMFR is estimated using equation (8), total fertility rate (TFR) can be estimated by multiplying TMFR with the proportion of women in the reproductive age group who are married.

Application of the model (8) to the data available from the fifth round of the National Family Health Survey (2019-2021) suggests a TMFR of 3.1 births per married woman of reproductive age for the country. The data available from the National Family Health Survey also suggests that around 71 per cent women of reproductive age in India were married at the time of the survey. This means that TFR in the country was around 2.2 births per woman of reproductive age. This estimate of TFR for the country is very close to the estimate of around 2.1 births per women of reproductive age which is estimated from the full birth history data collected at the fifth round of the National Family Health Survey, 2019-2021. This proximity of the two estimates of TFR provides credence to estimating district TFR using model (8).

If f denotes the total fertility rate (TFR), g denotes the total marital fertility rate (TMFR) and m denotes the proportion of married women, then.

$$f = g \times m \tag{9}$$

Let f_d denotes the TFR of district d while f_c denotes the fertility of the country. Then the difference between the TFR of the district and the TFR of the country can be decomposed as

$$\nabla f_d = f_d - f_c = (g_d \times m_d) - (g_c \times m_c) \tag{10}$$

Now

$$\nabla f_d = \frac{f_d - f_c}{\ln\left(\frac{f_d}{f_c}\right)} \times \ln\left(\frac{f_d}{f_c}\right) = L_{dc} \times \ln\left(\frac{f_d}{f_c}\right) \tag{11}$$

where

$$L_{dc} = \frac{f_d - f_c}{\ln\left(\frac{f_d}{f_c}\right)}$$

is the logarithmic mean of f_d and f_c . Now

$$\ln\left(\frac{f_d}{f_c}\right) = \ln\left(\frac{g_d}{g_c}\right) + \ln\left(\frac{m_d}{m_c}\right) \tag{12}$$

so that

$$\nabla f_d = \left(L_{dc} \times \ln \left(\frac{g_d}{g_c} \right) \right) + \left(L_{dc} \times \ln \left(\frac{m_d}{m_c} \right) \right) = \partial g_d + \partial m_d \tag{13}$$

where

$$\partial g_d = \left(L_{dc} \times \ln \left(\frac{g_d}{g_c} \right) \right) \tag{14}$$

and

$$\partial m_d = \left(L_{dc} \times \ln \left(\frac{m_d}{m_c} \right) \right) \tag{15}$$

Equation (13) shows that the difference between TFR of a district and TFR of the country can be decomposed into the difference attributed to the difference in TMFR and the difference attributed to the difference between the proportion of the women of reproductive age who are married. This decomposition serves as a useful framework for constructing district fertility profile which has implications for planning and programming for fertility regulation in the district.

Based on equation (13), a district can be classified into one of the following mutually exclusive yet exhaustive 11 fertility profiles depending upon the direction of the difference in ∂g_d , ∂m_d and ∇f_d as defined above:

Profile 1:
$$\partial g_d > 0$$
, $\partial m_d > 0$, $\nabla f_d > 0$
Profile 2: $\partial g_d > 0$, $\partial m_d < 0$, $\nabla f_d > 0$
Profile 3: $\partial g_d > 0$, $\partial m_d < 0$, $\nabla f_d < 0$
Profile 4: $\partial g_d < 0$, $\partial m_d < 0$, $\nabla f_d < 0$
Profile 5: $\partial g_d < 0$, $\partial m_d > 0$, $\nabla f_d < 0$
Profile 6: $\partial g_d < 0$, $\partial m_d > 0$, $\nabla f_d > 0$
Profile 7: $\partial g_d = 0$, $\partial m_d = 0$, $\nabla f_d = 0$
Profile 8: $\partial g_d = 0$, $\partial m_d > 0$, $\nabla f_d > 0$
Profile 9: $\partial g_d = 0$, $\partial m_d < 0$, $\nabla f_d < 0$
Profile 10: $\partial g_d > 0$, $\partial m_d = 0$, $\nabla f_d < 0$
Profile 11: $\partial g_d < 0$, $\partial m_d = 0$, $\nabla f_d < 0$

The 11 fertility profiles described above are mutually exclusive and exhaustive. Each fertility profile has a unique characterisation of fertility which has policy and programme implications. For example, fertility profile 2 suggests that higher than country TFR in districts having this profile is due to higher TMFR whereas fertility profile 6 suggests that higher TFR of districts of this profile is due to higher proportion of reproductive age women who are married. Policy and programme implications for pursuing fertility transition in the two categories of districts are obviously different.

Inter-district Variation in TFR

Estimates of TFR for the 707 districts of the country as they existed at the time of the National Family Health Survey, 2019-2021 are given in the appendix table along with estimates of TMFR and proportion of women of reproductive age who were married at the time of the survey. The inter-district variation in TFR is depicted in figure 1 while the distribution of districts by the level of fertility in different states and Union Territories of the country are presented in table 1. There are 326 (46.1 per cent) districts in the country where fertility was estimated to be below the replacement level (TFR of less than 2.1 births per woman of reproductive age) according to the information available from the National Family Health Survey, 2019-2021. However, in 281 districts of the country, fertility was above the replacement level at the time of the survey and, in 63 districts of the country fertility was very high at the time of the survey as TFR was at least 3 births per woman of reproductive age. It is also estimated that in 16 districts of the country, fertility was exceptionally high as the TFR, in these districts, was at least 3.5 births per woman of reproductive age at the time of the survey. The estimation exercise also suggests that there are 199 (28.1 per cent) districts where fertility was moderately higher than the replacement level as TFR ranged between 2.1-2.5 births per woman of reproductive age in these districts. At the same time, there are 119 (16.8 per cent) districts where fertility was markedly higher than the replacement level at the time of the survey as the TFR ranged between 2.5-3.0 births per woman of reproductive age in these districts. District South Goa in Goa had the lowest fertility among the 707 districts of the country that existed at the time of the survey as the TFR in the district is estimated to be 1.21 births per woman of reproductive age. On the other hand, the TFR was estimated to be 4.7 births per woman of reproductive age in district West Khasi Hills of Meghalaya, which was the highest among the 707 districts,

Regional pattern in fertility is also very marked as may be seen from the figure 1. Most of the districts having above replacement fertility are located in the central part of the country comprising of the states of Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, and Jharkhand whereas in the north western part of the country and in the southern part fertility is below replacement level in most of the districts. In the north eastern part of the country, the scenario is mixed. Among 63 districts where fertility was very high (TFR at least 3 births per woman of reproductive age) 29 are in Bihar while 13 are in Uttar Pradesh. Among 16 districts where TFR is at least 3.5 births per woman of reproductive age, 8 are in Bihar, 3 each in Meghalaya and Uttar Pradesh, and 1 each in Haryana and Madhya Pradesh. There is no district in other states and Union Territories of the country where fertility was exceptionally high at the time of the National Family Health Survey, 2019-2021.

On the other hand, there is no district in 8 states/Union Territories of the country where fertility was above the replacement level at the time of the survey. In Tamil Nadu, fertility was estimated to be below the replacement level in 31 of the 32 districts of the state, In Kerala, fertility was below the replacement level in 13 of the 14 districts of the state. In Punjab, fertility was below the replacement level in 20 of the 22 districts of the state whereas in Himachal Pradesh fertility was below the replacement level in 9 of the 12 districts of the state. On the contrary, Bihar is the only state in the country where there is no district where fertility was below the replacement level at the time of the survey. In Lakshadweep also fertility was estimated to be above the replacement level at the time of the survey.

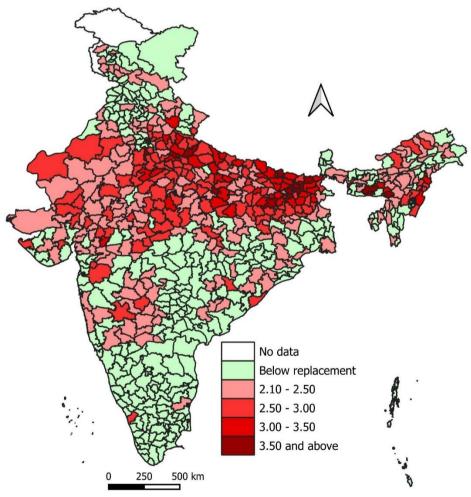


Figure 1: Inter-district variation in total fertility rate (TFR) in India, 2019-2021. Source: Authors

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Table 1: Variation in TFR across districts of different states and Union Territories of India, 2019-2021.

Country/State/Union Territory		Tota	l fertility	rate		Total
	< 2.1	2.1-2.5	2.5-3.0	3.0-3.5	≥3.5	
Andaman & Nicobar Islands	3	0	0	0	0	3
Andhra Pradesh	13	0	0	0	0	13
Arunachal Pradesh	6	10	4	0	0	20
Assam	13	18	1	1	0	33
Bihar	0	1	8	21	8	38
Chandigarh	1	0	0	0	0	1
Chhattisgarh	15	11	1	0	0	27
Dadra & Nagar Haveli, Daman & Diu	3	0	0	0	0	3
Delhi	6	4	1	0	0	11
Goa	2	0	0	0	0	2
Gujarat	12	14	7	0	0	33
Haryana	11	9	1	0	1	22
Himachal Pradesh	9	3	0	0	0	12
Jammu & Kashmir	12	8	0	0	0	20
Jharkhand	3	6	14	1	0	24
Karnataka	23	7	0	0	0	30
Kerala	13	0	1	0	0	14
Ladakh	2	0	0	0	0	2
Lakshadweep	0	1	0	0	0	1
Madhya Pradesh	9	18	20	3	1	51
Maharashtra	21	12	3	0	0	36
Manipur	5	0	3	1	0	9
Meghalaya	5	1	0	2	3	11
Mizoram	6	2	0	0	0	8
Nagaland	3	3	3	2	0	11
Odisha	19	10	1	0	0	30
Puducherry	4	0	0	0	0	4
Punjab	20	2	0	0	0	22
Rajasthan	2	17	12	2	0	33
Sikkim	4	0	0	0	0	4
Tamil Nadu	31	1	0	0	0	32
Telangana	27	4	0	0	0	31
Tripura	5	3	0	0	0	8
Uttar Pradesh	1	22	36	13	3	75
Uttarakhand	5	5	2	1	0	13
West Bengal	12	7	1	0	0	20
India	326	199	119	47	16	707

Source: Authors' calculations.

Profiles of Fertility

The difference between the TFR of a district from the TFR of the country is determined by the difference in TMFR and the difference in the proportion of reproductive age women who are married in conjunction with equations (14) and (15). Based on the magnitude and direction of these contributions, a district may be classified into one of the possible 11 mutually exclusive and exhaustive fertility profiles as defined by equation (16). This exercise suggests that 707 districts of the country can be classified into 6 fertility profiles. There is no district which is classified in the remaining 5 fertility profiles. The distribution of districts according to fertility profile and the level of fertility is presented in table 2. There are 326 districts in the country where fertility was below the replacement level, but the fertility profile of these districts is different. In 144 of these districts, both districts TMFR and district proportion of reproductive age women who were married was less than the corresponding TMFR and the proportion of reproductive age women who are married in the country (Profile 4). In addition, in 151 of these districts, districts TMFR was lower than the national TMFR but the proportion of reproductive age women who were married at the time of the survey was higher than the corresponding proportion at the national level (Profile 5). Finally, there are 31 districts where fertility was below the replacement fertility level, but district TMFR was higher than the national TMFR and district proportion of reproductive age women who were married at the time of the survey was lower than the national average (Profile 3).

On the other hand, there are 132 districts where both district TMFR and district proportion of reproductive age women who were married at the time of the survey are higher than those at the national level and in none of these districts, fertility was below the replacement level at the time of the survey (Profile 1). In addition, there are 182 districts where fertility was above the replacement level and in all these districts, TMFR was higher than the national TMFR, but the proportion of reproductive age women who were married was less than the national proportion of reproductive age women who were married (Profile 2). Fertility, in these 314 districts, however, varies widely. Lastly, there are 26 districts where TMFR of the district was lower than the TMFR of the country, but the proportion of reproductive age women who were married in the district was higher than the corresponding proportion in the country (Profile 6). Fertility in all these districts is above the replacement level.

Table 2: District cross-classified by the level of TFR and the fertility profile, 2019-2021.

				<i>J</i> 1	,	
Fertility profile		Total	fertility r	ate		Total
	<2.1	2.1-2.5	2.5-3.0	3.0.3.5	≥3.5	
$1: \partial g_d > 0, \partial m_d > 0, \nabla f_d > 0$	0	43	53	26	10	132
$2: \partial g_d > 0, \partial m_d < 0, \nabla f_d > 0$	0	89	66	21	6	182
$3: \partial g_d > 0, \partial m_d < 0, \nabla f_d < 0$	31	16	0	0	0	47
$4: \partial g_d < 0, \partial m_d < 0, \nabla f_d < 0$	144	4	0	0	0	148
5: $\partial g_d < 0$, $\partial m_d > 0$, $\nabla f_d < 0$	151	21	0	0	0	172
6: $\partial g_d < 0$, $\partial m_d > 0$, $\nabla f_d > 0$	0	26	0	0	0	26
Total	326	199	119	47	16	707

Source: Authors' calculations

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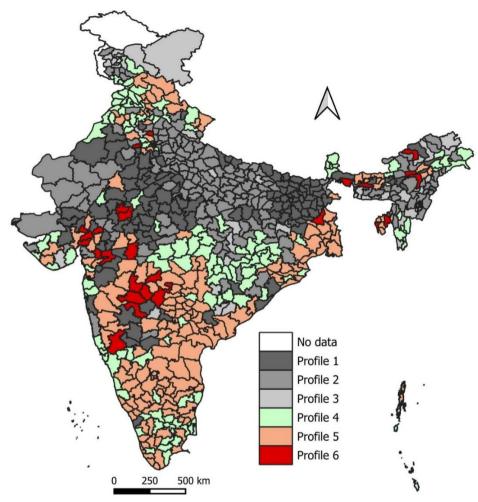


Figure 2: Profiles of fertility in India, 2019-2021.

Remarks:

Profile 1: $\partial g_d > 0$, $\partial m_d > 0$, $\nabla f_d > 0$ Profile 2: $\partial g_d > 0$, $\partial m_d < 0$, $\nabla f_d > 0$ Profile 3: $\partial g_d > 0$, $\partial m_d < 0$, $\nabla f_d < 0$ Profile 4: $\partial g_d < 0$, $\partial m_d < 0$, $\nabla f_d < 0$ Profile 5: $\partial g_d < 0$, $\partial m_d > 0$, $\nabla f_d < 0$ Profile 6: $\partial g_d < 0$, $\partial m_d > 0$, $\nabla f_d < 0$

Source: Authors

Table 3: Distribution of districts by states/Union Territories and fertility profiles. India/State/Union Territory Fertility profile							
India/State/Union Territory	Fertility profile						
	1	2	3	4	5	6	
	$\partial g_d > 0$	$\partial g_d < 0$					
	$\partial g_d > 0$	$\partial g_d < 0$	$\partial g_d < 0$	$\partial g_d < 0$	$\partial g_d > 0$	$\partial g_d > 0$	
A J O. N.' h Il J.	$\nabla f_d > 0$			$\nabla f_d < 0$			
Andaman & Nicobar Islands	0	0	0	2	1	0	3
Andhra Pradesh	0	0	0	1	12	0	13
Arunachal Pradesh	2	9	4	4	0	1	20
Assam	9	6	1	5	9	3	33
Bihar	30	8	0	0	0	0	38
Chandigarh	0	0	0	1	0	0	1
Chhattisgarh	0	10	5	12	0	0	27
Dadra & Nagar Haveli, Daman & Diu	0	0	1	0	2	0	3
Delhi	0	2	4	5	0	0	11
Goa	0	0	0	2	0	0	2
Gujarat	8	4	1	6	9	5	33
Haryana	4	4	1	6	5	2	22
Himachal Pradesh	0	1	0	3	8	0	12
Jammu & Kashmir	0	6	8	6	0	0	20
Jharkhand	13	8	1	1	1	0	24
Karnataka	3	1	1	7	17	1	30
Kerala	1	0	0	2	11	0	14
Ladakh	0	0	2	0	0	0	2
Lakshadweep	0	1	0	0	0	0	1
Madhya Pradesh	23	14	0	8	3	3	51
Maharashtra	5	1	0	7	16	7	36
Manipur	0	4	4	1	0	0	9
Meghalaya	0	6	5	0	0	0	11
Mizoram	0	1	2	5	0	0	8
Nagaland	1	7	3	0	0	0	11
Odisha	2	4	1	12	11	0	30
Puducherry	0	0	0	4	0	0	4
Punjab	0	1	0	16	5	0	22
Rajasthan	18	11	0	3	1	0	33
Sikkim	0	0	0	4	0	0	4
Tamil Nadu	0	0	0	16	16	0	32
Telangana	2	0	0	4	25	0	31
Tripura	1	0	0	0	5	2	8
Uttar Pradesh	6	67	2	0	0	0	75
Uttarakhand	1	5	1	3	3	0	13
West Bengal	3	1	0	2	12	2	20
India	132	182	47	148	172	26	707
Source: Authors' calculations					-		

The regional distribution of districts by their fertility profile is apparent from table 3 and figure 2. In Bihar 30 of the 38 districts, the fertility profile is 1 while in the remaining 8 districts, the fertility profile is 2. In Jharkhand, 13 of the 24 districts, the fertility profile is 1 while in 8 districts, the fertility profile is 2. In Madhya Pradesh, the fertility profile of 23 of the 51 districts is 1 while the fertility profile of 14 districts is 2. Similarly, the fertility profile of 18 of the 33 districts of Rajasthan is 1 while that of 11 districts is 2. In Uttar Pradesh, the fertility profile is 1 in only 6 of the 75 districts but profile is 2 in 67 districts. On the other hand, the fertility profile in 12 of the 13 districts of Andhra Pradesh and 25 of the 31 districts of Telangana is 5. Similarly, in majority of the districts in Karnataka, Kerala, Maharashtra, Tamil Nadu and West Bengal, the fertility profile is 5. In these districts, the fertility of married women of reproductive age is lower than the fertility of married women of reproductive age in the country but the proportion of reproductive age women who are married is higher than the proportion of reproductive age women in the country who are married.

There are 26 districts in the country where fertility in the district was higher than the national average fertility not because the TMFR of the district was higher than the average TMFR of the country but because the proportion of reproductive age women who were married in the district at the time of the survey was higher than the corresponding proportion at the national level. Among these 26 districts, 7 are in Maharashtra, 5 in Gujarat and 3 each in Assam and Madhya Pradesh and 2 each in Himachal Pradesh, Tripura and West Bengal, In Arunachal Pradesh and Karnataka also, there is one district where the proportion of reproductive age women who were married at the time of the survey is estimated to be higher than the national average. Reduction in this proportion can contribute to reducing fertility below the replacement level in these districts as TMFR in these districts is already lower than the national level.

Conclusions

This paper highlights the variation in fertility, as measured by TFR, across the districts of the country. Fertility appears to have decreased to below replacement level in 326 or less than half of the districts of the country as they existed at the time of the National Family Health Survey, 2019-2021. In majority of the districts of the country, fertility appears to be above the replacement level. Nearly all but a few districts where fertility is above the replacement level are located in the central region of the country comprising of the states of Gujarat, Rajasthan, Madhya Pradesh, Uttar Pradesh and Bihar. Fertility also appears to be above the replacement level in many districts in the north-eastern region of the country. In the southern region of the country, comprising of the states of Maharashtra, Andhra Pradesh, Karnataka, Kerala, Tamil Nadu and Telangana, fertility appears to be below the replacement level, although there are districts where fertility remains above the replacement level. It appears that there are district-specific factors that play a dominating role in deciding the level of fertility in the district.

Fertility in India is confined entirely within the institution of marriage. This means that the TFR in a district is determined by the fertility of married women and the proportion

of reproductive age women who are married. This means that the difference between the TFR of a district and the TFR of the country can be decomposed into two factors, one attributed to the difference in the fertility of married women and the other attributed to the difference in the proportion of reproductive age women who are married. This decomposition permits 11 possible profiling of fertility depending upon the relative difference of a district in the fertility of married women and in the proportion of married women in the reproductive age group relative to the national average. The decomposition of the difference in TFR between the district and the country reveals that the 707 districts of the country can be classified into six fertility profiles which are mutually exclusive. There are districts where fertility of married women of reproductive age is lower than the fertility of married women of reproductive age in the country but the total fertility rate in these districts is higher than the total fertility rate in the country because the proportion of reproductive age women who are married is higher in the district relative to the proportion at the national level. Similarly, there are districts where fertility of married women of reproductive age is higher than the national average but the TFR in the district is lower than TFR of the country because the proportion of reproductive age women who are married is lower in the district relative to the proportion at the national level.

The profiling of fertility of the district has implications for fertility transition in those districts where TFR remains above the replacement level. It is important to understand whether TFR in the district in access to the replacement level fertility is due to high fertility of married women of reproductive age or is due to a higher proportion of reproductive age women who are married. This distinction is important as the factors that influence fertility of married women are different from the factors that influence the proportion of reproductive age women who are married. For example, a reduction in maternal mortality may lead to an increase in the proportion of reproductive age women who are married but may not have any impact on the fertility of married women. Similarly, an increase in the prevalence of breastfeeding may contribute to a decrease in the fertility of married women of reproductive age but may not have any impact on the proportion of women who are married.

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Appendix Table: Total fertility rate (TFR), total marital fertility rate (TMFR), proportion of reproductive age women married and the profile of fertility in districts of India, 2019-2021.

State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
Andaman & Nicobar Is	lands				
	Nicobars	2.145	64.205	1.377	4
	North & Middle Andaman	2.408	74.074	1.784	5
	South Andaman	1.882	70.522	1.327	4
Andhra Pradesh					
	Anantapur	2.223	79.780	1.774	5
	Chittoor	2.137	76.331	1.631	5
	East Godavari	2.513	75.533	1.898	5
	Guntur	2.123	77.804	1.652	5
	Krishna	2.273	72.592	1.650	5
	Kurnool	2.540	76.205	1.936	5
	Prakasam	2.150	79.255	1.704	5
	Sri Potti Sriramulu Nellore	2.086	73.554	1.534	5
	Srikakulam	2.175	71.957	1.565	4
	Visakhapatnam	2.100	73.311	1.540	5
	Vizianagaram	2.466	75.110	1.852	5
	West Godavari	2.331	76.923	1.793	5
	Y.S.R.	2.567	77.308	1.985	5
Arunachal Pradesh					
	Anjaw	2.581	70.525	1.820	4
	Changlang	2.988	69.282	2.070	4
	Dibang Valley	3.027	66.514	2.013	3
	East Kameng	3.533	71.528	2.527	2
	East Siang	2.818	64.105	1.807	4
	Kra Daadi	2.950	77.757	2.294	6
	Kurung Kumey	3.553	66.052	2.347	2
	Lohit	3.418	64.736	2.213	2
	Longding	3.515	65.781	2.312	2
	Lower Dibang Valley	3.249	65.055	2.114	3
	Lower Subansiri	3.150	65.634	2.067	3
	Namsai	3.851	72.968	2.810	1
	Papum Pare	3.576	63.855	2.283	2
	Siang	3.930	63.750	2.506	2
	Tawang	3.506	66.943	2.347	2
	Tirap	3.491	70.958	2.477	2
	Upper Siang	3.154	70.865	2.235	2
	Upper Subansiri	3.643	75.045	2.734	1
	West Kameng	2.565	66.401	1.703	4
	West Siang	3.030	70.947	2.150	3
Assam	0				-
	Baksa	2.455	75.334	1.850	5
	Barpeta	3.293	75.146	2.475	1
	Biswanath	2.952	74.575	2.201	6
	Bongaigaon	2.704	76.174	2.060	5
	Cachar	3.381	71.578	2.420	2

State/Union Territory	District	TMFR	Proportion	TFR	Fertility
			married		profile
	Charaideo	2.885	67.711	1.954	4
	Chirang	2.701	75.273	2.033	5
	Darrang	3.190	77.022	2.457	1
	Dhemaji	3.049	77.809	2.372	1
	Dhubri	3.428	80.611	2.763	1
	Dibrugarh	3.015	69.476	2.095	4
	Dima Hasao	3.244	66.017	2.142	3
	Goalpara	3.012	73.015	2.199	6
	Golaghat	2.911	75.326	2.193	6
	Hailakandi	3.420	70.990	2.428	2
	Hojai	3.279	72.560	2.379	1
	Jorhat	2.581	72.940	1.882	5
	Kamrup	2.671	73.675	1.968	5
	Kamrup Metropolitan	2.049	68.884	1.411	4
	Karbi Anglong	3.441	68.869	2.370	2
	Karimganj	3.521	70.270	2.474	2
	Kokrajhar	2.572	75.945	1.953	5
	Lakhimpur	2.495	75.730	1.889	5
	Majuli	3.322	73.604	2.445	1
	Morigaon	3.168	76.744	2.431	1
	Nagaon	3.355	74.077	2.486	1
	Nalbari	2.371	74.774	1.773	5
	Sivasagar	2.571	73.925	1.901	5
	Sonitpur	3.453	71.650	2.474	2
	South Salmara Mancachar	3.979	77.076	3.067	1
	Tinsukia	2.480	69.149	1.715	4
	Udalguri	3.012	71.696	2.159	4
	West Karbi Anglong	3.135	70.710	2.217	2
Bihar					
	Araria	4.688	79.011	3.704	1
	Arwal	3.985	73.105	2.913	1
	Aurangabad	4.622	71.791	3.318	2
	Banka	4.107	79.912	3.282	1
	Begusarai	4.921	76.106	3.745	1
	Bhagalpur	4.243	75.385	3.198	1
	Bhojpur	3.940	74.068	2.919	1
	Buxar	4.713	70.337	3.315	2
	Darbhanga	4.287	73.578	3.154	1
	Gaya	4.837	72.971	3.529	1
	Gopalganj	4.355	69.447	3.025	2
	Jamui	3.967	80.735	3.202	1
	Jehanabad	4.029	75.044	3.024	1
	Kaimur (Bhabua)	3.777	71.500	2.701	2
	Katihar	4.311	77.101	3.324	1
	Khagaria	4.785	79.774	3.817	1
	Kishanganj	5.153	67.797	3.493	2
	Lakhisarai	4.927	76.531	3.771	1
	Madhepura	4.325	81.651	3.532	1
	Madhubani	4.460	75.399	3.363	1
	Madiluballi	7.700	13.333	5.505	1

State/Union Territory	District	TMFR	Proportion	TFR	Fertility
			married		profile
	Munger	3.737	75.044	2.804	1
	Muzaffarpur	4.205	75.042	3.155	1
	Nalanda	4.401	73.942	3.254	1
	Nawada	4.671	72.490	3.386	1
	Pashchim Champaran	4.306	75.620	3.256	1
	Patna	3.381	73.454	2.483	1
	Purba Champaran	4.138	76.632	3.171	1
	Purnia	4.419	79.015	3.491	1
	Rohtas	4.255	69.474	2.956	2
	Saharsa	4.260	83.080	3.539	1
	Samastipur	4.207	79.530	3.345	1
	Saran	4.065	71.910	2.923	2
	Sheikhpura	4.643	74.732	3.470	1
	Sheohar	4.396	73.998	3.253	1
	Sitamarhi	4.986	74.497	3.715	1
	Siwan	4.164	65.108	2.711	2
	Supaul	3.671	80.602	2.959	1
	Vaishali	4.375	77.025	3.370	1
Chandigarh					
	Chandigarh	2.586	64.744	1.675	4
Chhattisgarh					
	Balod	2.356	66.216	1.560	4
	Baloda Bazar	3.368	66.807	2.250	2
	Balrampur	3.521	70.037	2.466	2
	Bastar	3.347	69.196	2.316	2
	Bemetara	3.418	68.790	2.351	2
	Bijapur	2.842	65.439	1.860	4
	Bilaspur	3.030	65.181	1.975	3
	Dantewada	3.020	65.753	1.985	4
	Dhamtari	2.638	66.442	1.753	4
	Durg	2.693	67.196	1.810	4
	Gariyaband	2.675	69.338	1.855	4
	Janjgir - Champa	2.797	66.937	1.872	4
	Jashpur	2.921	70.866	2.070	4
	Kabeerdham	3.214	67.989	2.185	2
	Kodagaon	3.628	61.172	2.219	2
	Korba	3.418	63.789	2.180	2
	Koriya	3.025	68.969	2.086	3
	Mahasamund	2.601	67.385	1.753	4
	Mungeli	4.301	65.825	2.831	2
	Narayanpur	3.533	60.804	2.148	3
	Raigarh	2.947	64.251	1.893	4
	Raipur	3.045	66.860	2.036	3
	Rajnandgaon	2.718	66.228	1.800	4
	Sukma	3.335	64.839	2.163	3
	Surajpur	3.145	70.626	2.221	2
	Surguja	3.318	68.047	2.258	2
	Uttar Bastar Kanker	2.985	62.585	1.868	4

State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
Dadra & Nagar Haveli	and Daman and Diu				
· ·	Dadra & Nagar Haveli	2.687	72.031	1.935	5
	Daman	2.761	73.724	2.036	5
	Diu	3.601	55.300	1.991	3
Delhi					
	Central	2.468	64.167	1.584	4
	East	2.734	66.966	1.831	4
	New Delhi	3.192	71.785	2.291	2
	North	3.714	69.661	2.587	2
	North East	3.194	66.007	2.108	3
	North West	2.898	69.077	2.002	4
	Shahdara	3.158	62.766	1.982	3
	South	3.171	67.081	2.127	3
	South East	2.868	63.278	1.815	4
	South West	2.185	71.353	1.559	4
	West	3.158	66.517	2.101	3
Goa	West	5.150	00.517	2.101	3
dou	North Goa	1.871	66.239	1.239	4
	South Goa	2.006	60.094	1.206	4
Gujarat	South Goa	2.000	00.034	1.200	4
Gujarat	Ahmadabad	2.723	72.824	1.983	5
	Amreli				3
		3.088	69.495 79.206	2.146	3 6
	Anand	2.815		2.229	
	Aravali	3.519	74.248	2.613	1
	Banas Kantha	3.689	74.712	2.756	1
	Bharuch	3.057	71.992	2.201	2
	Bhavnagar	2.980	69.192	2.062	4
	Botad	3.603	70.761	2.549	2
	Chhota Udaipur	3.154	74.651	2.355	1
	Devbhumi Dwarka	3.559	71.324	2.538	2
	Dohad	3.993	73.409	2.931	1
	Gandhinagar	2.882	78.248	2.255	6
	Gir Somnath	2.995	67.221	2.013	4
	Jamnagar	2.660	67.901	1.806	4
	Junagadh	2.727	73.394	2.002	5
	Kachchh	3.390	68.904	2.336	2
	Kheda	2.852	76.964	2.195	6
	Mahesana	3.643	75.186	2.739	1
	Mahisagar	3.005	79.301	2.383	6
	Morbi	2.538	71.354	1.811	4
	Narmada	2.935	75.813	2.225	6
	Navsari	2.425	69.238	1.679	4
	Panch Mahals	2.911	74.394	2.165	5
	Patan	3.271	72.420	2.369	1
	Porbandar	2.742	70.242	1.926	4
	Rajkot	2.975	72.647	2.161	5
	Sabar Kantha	2.915	74.419	2.170	5
	Surat	2.826	72.169	2.039	5
	Surendranagar	3.234	73.077	2.363	1

State/Union Territory	District	TMFR	Proportion	TFR	Fertility
			married		profile
	Tapi	2.521	72.163	1.820	5
	The Dangs	3.312	77.155	2.555	1
	Vadodara	2.502	75.026	1.877	5
	Valsad	2.116	73.229	1.550	5
Haryana					
	Ambala	2.557	68.622	1.755	4
	Bhiwani	3.250	71.635	2.328	2
	Charkhi Dadri	3.011	74.579	2.245	6
	Faridabad	2.980	69.686	2.077	4
	Fatehabad	2.588	70.151	1.815	4
	Gurgaon	2.686	74.708	2.007	5
	Hisar	2.809	72.203	2.028	5
	Jhajjar	2.688	71.923	1.933	4
	Jind	3.074	69.363	2.132	3
	Kaithal	3.117	73.431	2.289	1
	Karnal	3.394	70.458	2.391	2
	Kurukshetra	2.639	74.210	1.958	5
	Mahendragarh	3.055	77.075	2.355	1
	Mewat	5.027	72.027	3.621	1
	Palwal	4.133	72.313	2.989	1
	Panchkula	3.180	68.862	2.190	2
	Panipat	2.946	74.304	2.189	6
	Rewari	2.692	75.402	2.030	5
	Rohtak	2.858	69.267	1.980	4
	Sirsa	3.122	69.894	2.182	2
	Sonipat	2.641	73.917	1.953	5
	Yamunanagar	2.686	71.878	1.930	4
Himachal Pradesh		2.000	7.1.07.0		•
	Bilaspur	2.619	76.291	1.998	5
	Chamba	2.936	73.750	2.166	5
	Hamirpur	2.633	76.222	2.007	5
	Kangra	2.521	69.472	1.751	4
	Kinnaur	2.718	75.620	2.055	5
	Kullu	2.542	74.351	1.890	5
	Lahul & Spiti	2.648	79.708	2.111	5
	Mandi	2.509	78.603	1.972	5
	Shimla	2.502	71.032	1.777	4
	Sirmaur	3.461	71.956	2.490	2
	Solan	2.649	73.077	1.936	5
	Una	2.928	71.704	2.099	4
Jammu & Kashmir	Olla	2.520	71.704	2.055	-
Jannina & Rasinini	Anantnag	3.296	55.862	1.841	3
	Badgam	3.387	57.210	1.938	3
	Bandipore	3.538	53.187	1.882	3
	Baramula	3.486	56.003	1.952	3
					2
	Doda	3.347	67.218	2.250	3
	Ganderbal	3.499	60.092 65.330	2.102	
	Jammu	2.287		1.494	4
	Kathua	2.672	62.602	1.673	4

Nishtwar 1,970 62,915 1,868 4	State/Union Territory	District	TMFR	Proportion	TFR	Fertility
Kulgam	(married		profile
Kupwara 3,922 57,870 2,270 2 2 2 2 2 2 2 2 2		Kishtwar	2.970	62.915	1.868	4
Pulwama 3.015 58.109 1.752 4 Punch 3.477 61.482 2.137 3 Rajouri 3.374 65.094 2.196 2 Ramban 3.577 63.525 2.272 2 Reasi 3.197 68.007 2.174 2 Samba 2.801 67.607 1.894 4 Shupiyan 3.499 59.522 2.083 3 Srinagar 2.544 58.124 1.479 4 Shupiyan 3.361 66.303 2.228 2 Jharkhand Bokaro 3.043 75.431 2.296 1 Chatra 3.730 75.226 2.806 1 Deoghar 3.510 82.184 2.885 1 Dhanbad 3.169 72.593 2.300 1 Dumka 3.353 79.568 2.668 1 Garhwa 3.993 73.156 2.921 1 Giridih 3.282 79.587 2.612 1 Gumla 3.831 67.828 2.599 2 Hazaribagh 3.364 76.190 2.563 1 Jamtara 3.118 80.538 2.511 1 Khunti 3.305 67.081 2.217 2 Kodarma 3.533 74.866 2.645 1 Latehar 4.052 70.364 2.851 2 Lohardaga 3.523 66.016 2.326 2 Palamu 3.784 70.796 2.679 2 Palami 3.19 72.638 2.199 1 Palamarh 4.131 71.623 2.959 2 Ramchi 3.18 64.784 2.027 3 Sanibganj 4.068 77.902 3.169 1 Saraikela-Kharsawan 2.726 72.095 1.965 5 Sanibgang 3.043 72.185 2.197 3 Ranchi 3.18 64.784 2.027 3 Sanibagange 3.554 64.384 2.288 2 Karmataka Bagalkot 3.043 72.185 2.197 3 Bangalore 1.998 73.807 1.475 5 Bangalore 1.9		Kulgam	3.320	59.164	1.964	3
Punch 3.477 61.482 2.137 3 Rajouri 3.374 65.094 2.196 2 2 2 Reasi 3.577 63.555 2.272 2 2 Reasi 3.197 68.007 2.174 2 2 5 5 5 5 2 2 7 2 5 5 5 5 2 2 7 2 5 5 5 5 2 2 7 2 5 5 5 5 2 2 7 3 5 5 5 5 2 2 5 5 5 5		Kupwara	3.922	57.870	2.270	2
Rajouri 3.374 65.094 2.196 2 Ramban 3.577 68.007 2.174 2 2 2 2 2 2 2 2 2		Pulwama	3.015	58.109	1.752	4
Ramban 3.577 63.525 2.272 2 Reasi 3.197 68.007 2.174 2 5 5 5 5 2 2 2 5 5		Punch	3.477	61.482	2.137	3
Reasi 3.197 68.007 2.174 2 2 5 5 2 2 3 3 3 3 3 3 4 5 5 2 2 2 3 3 3 3 3 3 3		Rajouri	3.374	65.094	2.196	2
Samba Shupiyan 3.499 59.522 2.083 3 3 57 32 2.083 3 3 3 3 3 3 4 4 4		=	3.577	63.525	2.272	2
Shupiyan 3.499 59.522 2.083 3 Srinagar 2.544 58.124 1.479 4 4 4 4 4 58.124 1.479 4 4 4 4 58.124 1.479 4 4 4 4 58.124 1.479 4 4 4 58.124 1.479 4 4 4 58.124 1.479 4 4 58.124 1.479 4 4 58.124 1.479 4 4 58.124 1.479 4 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479 4 58.124 1.479		Reasi	3.197	68.007	2.174	2
Srinagar 2.544 58.124 1.479 4 1.479 3.361 66.303 2.228 2 2 2 2 2 2 2 2 2		Samba	2.801	67.607	1.894	4
Srinagar 2.544 58.124 1.479 4 1.479 3.361 66.303 2.228 2 2 2 2 2 2 2 2 2		Shupiyan	3.499	59.522	2.083	3
Didampur 3.361 66.303 2.228 2				58.124	1.479	4
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Bokaro	Iharkhand	r				
Chatra	J	Bokaro	3.043	75.431	2.296	1
Deoghar 3.510 82.184 2.885 1 Dhanbad 3.169 72.593 2.300 1 Dumka 3.353 79.568 2.668 1 Garhwa 3.993 73.156 2.921 1 Giridih 3.282 79.587 2.612 1 Godda 3.445 79.123 2.726 1 Gumla 3.831 67.828 2.599 2 Hazaribagh 3.364 76.190 2.563 1 Jamtara 3.118 80.538 2.551 1 Khunti 3.305 67.081 2.217 2 Kodarma 3.533 74.866 2.645 1 Latehar 4.052 70.364 2.851 2 Lohardaga 3.523 66.016 2.326 2 Pakur 3.435 75.407 2.590 1 Palamu 3.784 70.796 2.679 2 Pashchimi Singhbhum 3.303 69.132 2.284 2 Purbi Singhbhum 3.303 69.132 2.284 2 Purbi Singhbhum 2.828 70.367 1.990 4 Ramgarh 4.131 71.623 2.959 2 Ranchi 3.128 64.784 2.027 3 Sahibganj 4.068 77.902 3.169 1 Saraikela-Kharsawan 2.726 72.095 1.965 5 Simdega 3.554 64.384 2.288 2 Saraikela-Kharsawan 2.726 72.095 1.965 5 Saraikela-Kharsawan 2.726 73.790 1.788 5 Chikkaballapura 2.646 68.527 1.813 4 Chamarajanagar 2.423 73.790 1.788 5 Chikkaballapura 2.362 76.612 1.810 5						
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Bidar 3.105 69.687 2.164 3 Bijapur 3.297 74.638 2.461 1 Chamarajanagar 2.423 73.790 1.788 5 Chikkaballapura 2.362 76.612 1.810 5		Belgaum	3.019	72.638	2.193	6
Bidar 3.105 69.687 2.164 3 Bijapur 3.297 74.638 2.461 1 Chamarajanagar 2.423 73.790 1.788 5 Chikkaballapura 2.362 76.612 1.810 5		Bellary	2.646	68.527	1.813	4
Bijapur 3.297 74.638 2.461 1 Chamarajanagar 2.423 73.790 1.788 5 Chikkaballapura 2.362 76.612 1.810 5		Bidar	3.105	69.687	2.164	3
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Chikkaballapura 2.362 76.612 1.810 5						
Chitradurga 2.207 76.694 1.693 5						

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vanagere arwad dag lbarga ssan veri dagu lar ppal andya	2.347 2.135 2.875 2.904 2.122 2.438 2.251 2.403 2.602	72.579 69.746 70.664 72.613 72.052 73.431 73.434 75.000	1.703 1.489 2.032 2.109 1.529 1.790 1.653	5 4 4 5 5 5
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veri dagu lar ppal ndya ⁄sore	2.438 2.251 2.403 2.602	73.431 73.434 75.000	1.790 1.653	5
dagu lar ppal ındya ⁄sore	2.251 2.403 2.602	73.434 75.000	1.653	
lar ppal nndya ⁄sore	2.403 2.602	75.000		-
ppal andya vsore	2.602			5
nndya vsore			1.802	5
/sore	วาว₁	73.255	1.906	5
	2.231	72.500	1.618	5
ichur	2.497	72.682	1.815	5
ichur	3.246	72.340	2.348	1
managara	2.292	71.604	1.641	4
imoga	2.036	72.460	1.476	5
	2.245	77.014	1.729	5
upi	2.187	68.750	1.503	4
tara Kannada	2.353	68.358	1.608	4
dgir	3.074	71.418	2.196	2
ippuzha	1.967	74.017	1.456	5
	2.067	72.449	1.498	5
ıkki	2.238	73.270	1.640	5
nnur	2.241	77.333	1.733	5
saragod	2.669	75.129	2.006	5
•	2.039	73.507	1.499	5
ttayam	2.195	72.110	1.583	5
	2.440	74.736	1.823	5
lappuram	3.253	77.800	2.531	1
	2.413	75.111	1.812	5
thanamthitta		69.423		4
		74.425		5
-			1.995	5
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rgil	3.642	57.603	2.098	3
•			1.934	3
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kshadweep	3.186	68.492	2.182	2
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ar Malwa	3.219	79.491	2.558	1
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State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
	Chhatarpur	3.236	72,432	2.344	1
	Chhindwara	2.749	65.969	1.813	4
	Damoh	3.678	75.201	2.766	1
	Datia	3.648	72.594	2.648	1
	Dewas	3.053	75.676	2.310	1
	Dhar	2.658	76.406	2.031	5
	Dindori	3.596	70.400	2.554	2
	Guna	3.768	74.249	2.797	1
	Guila	3.384	74.249	2.402	2
			73.680		
	Harda	3.799		2.799	1
	Hoshangabad	3.799	70.535	2.680	2
	Indore	2.680	75.450	2.022	5
	Jabalpur	2.519	68.880	1.735	4
	Jhabua	4.644	76.000	3.529	1
	Katni	3.254	71.311	2.321	2
	Khandwa (East Nimar)	3.607	71.611	2.583	2
	Khargone (West Nimar)	2.949	74.579	2.199	6
	Mandla	3.004	70.071	2.105	4
	Mandsaur	2.973	76.460	2.273	6
	Morena	3.936	75.680	2.979	1
	Narsimhapur	2.931	73.795	2.163	5
	Neemuch	3.019	74.531	2.250	6
	Panna	3.499	70.561	2.469	2
	Raisen	4.090	68.354	2.796	2
	Rajgarh	3.067	76.930	2.359	1
	Ratlam	3.048	78.335	2.388	1
	Rewa	4.438	69.254	3.073	2
	Sagar	3.910	74.808	2.925	1
	Satna	3.828	70.933	2.716	2
	Sehore	3.927	74.179	2.913	1
	Seoni	2.915	69.856	2.036	4
	Shahdol	2.742	70.460	1.932	4
		3.282	75.982	2.493	1
	Shajapur				1
	Sheopur	3.327	75.185	2.502	
	Shivpuri	3.684	75.164	2.769	1
	Sidhi	4.059	70.426	2.859	2
	Singrauli	4.612	72.418	3.340	1
	Tikamgarh	3.331	76.204	2.538	1
	Ujjain	3.148	76.361	2.404	1
	Umaria	3.529	69.417	2.450	2
	Vidisha	3.943	71.064	2.802	2
Maharashtra					
	Ahmadnagar	2.462	75.626	1.862	5
	Akola	2.732	74.176	2.026	5
	Amravati	2.384	71.442	1.703	4
	Aurangabad	2.668	78.508	2.095	5
	Bhandara	2.441	73.147	1.785	5
	Bid	2.795	78.361	2.190	6
	Buldana	2.492	75.468	1.881	5

State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
	Chandrapur	2.522	72.987	1.841	5
	Dhule	3.064	78.535	2.406	1
	Gadchiroli	2.284	73.197	1.672	5
	Gondiya	2.449	72.899	1.786	5
	Hingoli	2.772	76.603	2.123	5
	Jalgaon	2.675	77.193	2.065	5
	Jalna	2.930	79.943	2.342	6
	Kolhapur	2.355	76.205	1.795	5
	Latur	3.240	77.519	2.512	1
	Mumbai	2.179	67.742	1.476	4
	Mumbai Suburban	1.966		1.326	4
			67.459		
	Nagpur	2.379	68.785	1.636	4
	Nanded	2.956	75.489	2.232	6
	Nandurbar	2.949	73.784	2.176	6
	Nashik	3.392	76.742	2.603	1
	Osmanabad	2.867	80.704	2.314	6
	Palghar	2.685	69.371	1.863	4
	Parbhani	2.809	80.536	2.262	6
	Pune	2.232	73.749	1.646	5
	Raigarh	3.025	72.785	2.202	1
	Ratnagiri	3.153	69.378	2.187	2
	Sangli	1.769	77.387	1.369	5
	Satara	2.845	75.716	2.154	5
	Sindhudurg	1.927	68.997	1.330	4
	Solapur	3.580	76.644	2.744	1
	Thane	2.736	68.506	1.874	4
	Wardha	2.180	74.411	1.622	5
	Washim	2.970	78.537	2.333	6
	Yavatmal	2.371	73.849	1.751	5
Manipur					
•	Bishnupur	3.052	65.319	1.993	3
	Chandel	4.185	66.248	2.772	2
	Churachandpur	3.256	61.806	2.012	3
	Imphal East	2.937	64.689	1.900	4
	Imphal West	3.136	64.540	2.024	3
	Senapati	4.258	64.883	2.762	2
	Tamenglong	3.690	69.899	2.579	2
	Thoubal	3.140	63.816	2.004	3
	Ukhrul	4.734	63.624	3.012	2
Meghalaya	OKIII UI	7.757	03.024	5.012	2
vicgilalaya	East Garo Hills	3.670	63.060	2.314	2
	East Jantia Hills	6.333	61.224	3.877	2
	East Khasi Hills				3
		3.852	54.474 50.420	2.098	
	North Garo Hills	3.142	59.420	1.867	3
	Ribhoi	5.219	58.941	3.076	2
	South Garo Hills	3.059	67.701	2.071	3
	South West Garo Hills	3.130	63.248	1.980	3
	South West Khasi Hills	5.537	65.566	3.630	2
	West Garo Hills	3.112	67.336	2.095	3

State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
	West Jaintia Hills	5.764	60.269	3.474	2
	West Khasi Hills	6.754	69.601	4.701	2
Mizoram	.,	0.70.	03.001		_
2014	Aizawl	3.436	48.818	1.677	3
	Champhai	2.833	60.073	1.702	4
	Kolasib	2.896	61.033	1.767	4
	Lawngtlai	3.406	62.743	2.137	3
	Lunglei	2.601	53.049	1.380	4
	Mamit	3.488	63.747	2.224	2
	Saiha	2.645	62.636	1.657	4
	Serchhip	2.758	55.724	1.537	4
Nagaland	Sercimp	2.736	33.724	1.337	4
Nagaland	Dimanur	2 100	E7 272	1 020	2
	Dimapur	3.190	57.372	1.830	3
	Kiphire	3.564	72.896	2.598	1
	Kohima	4.035	48.778	1.968	3
	Longleng	4.294	69.989	3.006	2
	Mokokchung	3.400	55.395	1.884	3
	Mon	3.644	60.958	2.222	2
	Peren	3.929	62.540	2.457	2
	Phek	4.624	55.032	2.545	2
	Tuensang	4.973	60.628	3.015	2
	Wokha	3.716	59.824	2.223	2
	Zunheboto	4.659	58.259	2.714	2
Odisha					
	Anugul	2.680	73.353	1.966	5
	Balangir	2.929	68.020	1.993	4
	Baleshwar	2.710	78.863	2.137	5
	Bargarh	2.332	70.833	1.652	4
	Baudh	2.351	73.154	1.720	5
	Bhadrak	2.813	72.250	2.032	5
	Cuttack	2.046	72.598	1.485	5
	Debagarh	2.560	70.692	1.810	4
	Dhenkanal	2.939	73.333	2.155	5
	Gajapati	2.978	66.596	1.983	4
	Ganjam	3.111	73.001	2.271	1
	Jagatsinghapur	2.396	72.642	1.740	5
	Jajapur	2.904	73.812	2.143	5
	Jharsuguda	2.720	65.164	1.773	4
	Kalahandi	2.858	70.526	2.016	4
	Kandhamal	3.487	69.628	2.428	2
		2.892	71.228	2.428	4
	Kendrapara Konduibar				2
	Kendujhar Khordha	3.326	71.167 71.696	2.367	4
		2.049	71.696	1.469	
	Koraput	2.757	66.182	1.825	4
	Malkangiri	3.045	70.599	2.150	3
	Mayurbhanj	2.603	75.485	1.965	5
	Nabarangapur	3.750	72.857	2.732	1
	Nayagarh	2.761	78.712	2.174	5
	Nuapada	3.216	69.990	2.251	2

State/Union Territory	District	TMFR	Proportion	TFR	Fertility
-			married		profile
	Puri	2.346	73.327	1.720	5
	Rayagada	3.168	71.901	2.278	2
	Sambalpur	2.408	64.769	1.559	4
	Subarnapur	2.586	70.389	1.820	4
	Sundargarh	2.551	65.329	1.666	4
Puducherry					
	Karaikal	2.260	65.279	1.475	4
	Mahe	2.399	70.344	1.688	4
	Puducherry	2.422	66.667	1.615	4
	Yanam	2.390	69.940	1.671	4
Punjab					
	Amritsar	2.693	71.233	1.918	4
	Barnala	2.383	72.753	1.734	5
	Bathinda	2.695	72.885	1.964	5
	Faridkot	2.696	73.033	1.969	5
	Fatehgarh Sahib	2.510	72.128	1.811	5
	Fazilka	3.010	70.416	2.120	4
	Firozpur	2.719	71.951	1.956	4
	Gurdaspur	2.474	71.884	1.778	4
	Hoshiarpur	2.768	66.917	1.852	4
	Jalandhar	2.915	67.517	1.968	4
	Kapurthala	2.784	66.865	1.862	4
	Ludhiana	3.234	69.141	2.236	2
	Mansa	2.943	69.409	2.043	4
	Moga	2.604	70.084	1.825	4
	Muktsar	2.773	71.795	1.991	4
	Pathankot	2.633	71.113	1.872	4
	Patiala	2.750	71.702	1.972	4
	Rupnagar	2.906	67.751	1.969	4
	Sahibzada Ajit Singh Nagar	2.343	75.426	1.767	5
	Sangrur	2.765	69.956	1.934	4
	Shahid Bhagat Singh Nagar	2.703	65.755	1.652	4
	Tarn Taran	2.957	69.265	2.048	4
Rajasthan	Talli Talali	2.337	09.203	2.040	4
Kajastiiaii	Ajmer	2.900	73.131	2.121	5
	Ajillei Alwar			2.781	
		3.723	74.693		1 2
	Banswara	3.198	70.840	2.266	
	Baran	3.132	72.288	2.264	1
	Barmer	3.568	68.761	2.454	2
	Bharatpur	4.217	70.136	2.958	2
	Bhilwara	3.602	75.198	2.709	1
	Bikaner	3.323	75.826	2.520	1
	Bundi	3.401	72.534	2.467	1
	Chittaurgarh	3.038	77.628	2.358	1
	Churu	3.441	73.177	2.518	1
	Dausa	3.812	72.117	2.749	1
	Dhaulpur	4.107	73.660	3.025	1
	Dungarpur	3.299	70.940	2.340	2
	Ganganagar	2.794	71.975	2.011	4

State/Union Territory	Fertility profile 1 1 2 2
Jaipur Jaipur Jaipur Jaipur Jaisalmer Jais	1 2
Jaisalmer Jaisalmer Jaisalmer Jaisalmer Jalor Jacob Jalor Jalor Jasephar Jalor Jasephar Jasephar Jalor Jasephar J	2
Jalor 3.597 71.479 2.571	
Jhalawar 3.086 75.000 2.314 Jhunjhunun 3.191 68.300 2.180 Jodhpur 3.141 71.941 2.260 Karauli 4.492 72.586 3.260 Kota 2.953 68.604 2.026 Nagaur 3.298 70.110 2.312 Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	2
Jhunjhunun 3.191 68.300 2.180 Jodhpur 3.141 71.941 2.260 Karauli 4.492 72.586 3.260 Kota 2.953 68.604 2.026 Nagaur 3.298 70.110 2.312 Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim	
Jodhpur 3.141 71.941 2.260 Karauli 4.492 72.586 3.260 Kota 2.953 68.604 2.026 Nagaur 3.298 70.110 2.312 Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim	1
Jodhpur 3.141 71.941 2.260 Karauli 4.492 72.586 3.260 Kota 2.953 68.604 2.026 Nagaur 3.298 70.110 2.312 Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim	2
Kota 2.953 68.604 2.026 Nagaur 3.298 70.110 2.312 Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim	2
Nagaur 3.298 70.110 2.312 Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim	1
Pali 3.465 67.705 2.346 Pratapgarh 3.548 74.166 2.631 Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim	4
Pratapgarh Rajsamand Rajsa	2
Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	2
Rajsamand 3.002 71.189 2.137 Sawai Madhopur 4.007 74.295 2.977 Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	1
Sawai Madhopur 4.007 74.295 2.977	4
Sikar 3.324 72.273 2.402 Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	1
Sirohi 4.225 69.292 2.927 Tonk 3.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	1
Tonk J.512 72.836 2.558 Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram Kanniyakumari 2.019 75.446 1.523	2
Udaipur 3.361 72.319 2.430 Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	1
Sikkim East District 2.268 62.544 1.418 North District 2.359 67.995 1.604 South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	1
North District 2.359 67.995 1.604	
South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	4
South District 1.972 70.604 1.392 West District 2.326 63.384 1.474 Tamil Nadu 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	4
West District 2.326 63.384 1.474 Tamil Nadu 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	4
Tamil Nadu Ariyalur 2.524 75.669 1.910 Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	4
Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	
Chennai 2.072 67.564 1.400 Coimbatore 1.927 72.914 1.405 Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	5
Coimbatore1.92772.9141.405Cuddalore2.13572.1091.540Dharmapuri2.31673.9501.712Dindigul2.29176.7151.758Erode2.26471.5741.621Kancheepuram2.45470.0341.719Kanniyakumari2.01975.4461.523	4
Cuddalore 2.135 72.109 1.540 Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	5
Dharmapuri 2.316 73.950 1.712 Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	5
Dindigul 2.291 76.715 1.758 Erode 2.264 71.574 1.621 Kancheepuram 2.454 70.034 1.719 Kanniyakumari 2.019 75.446 1.523	5
Erode2.26471.5741.621Kancheepuram2.45470.0341.719Kanniyakumari2.01975.4461.523	5
Kancheepuram2.45470.0341.719Kanniyakumari2.01975.4461.523	4
Kanniyakumari 2.019 75.446 1.523	4
	5
Katul 2.12/ /1.30/ 1.323	4
Krishnagiri 2.657 76.696 2.038	5
Madurai 2.159 70.104 1.513	4
Nagapattinam 2.397 68.010 1.630	4
Namakkal 2.058 71.031 1.462	4
Perambalur 2.722 74.459 2.027	5
Pudukkottai 2.774 72.277 2.005	5
Ramanathapuram 2.291 75.216 1.723	5
Salem 2.581 73.429 1.895	5
Sivaganga 2.172 71.778 1.559	4
Thanjavur 2.211 71.545 1.582	4
The Nilgiris 2.261 69.803 1.578	4
Theni 2.463 75.915 1.870	5
Thiruvallur 2.269 74.235 1.685	5
Thiruvannamalai 2.335 70.537 1.647	4
Thiruvarur 2.493 69.212 1.725	4

State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
	Thoothukkudi	2.769	68.608	1.900	4
	Thrissur	1.988	70.929	1.410	4
	Tiruchirappalli	2.343	71.226	1.669	4
	Tirunelveli	2.142	73.737	1.580	5
	Tiruppur	2.256	71.409	1.611	4
	Vellore	2.725	73.467	2.002	5
					5
	Viluppuram	2.906	72.368	2.103	4
Tolongona	Virudhunagar	2.244	69.381	1.557	4
Telangana	A dilaha d	2 200	74.020	2 422	1
	Adilabad	3.286	74.030	2.433	1
	Bhadradri Kothagudem	2.196	72.439	1.591	5
	Hyderabad	2.678	66.549	1.782	4
	Jagitial	2.337	75.163	1.757	5
	Jangoan	2.378	76.556	1.821	5
	Jayashankar Bhupalapally	2.275	76.637	1.743	5
	Jogulamba Gadwal	2.773	77.527	2.150	5
	Kamareddy	2.320	76.101	1.766	5
	Karimnagar	1.959	74.946	1.469	5
	Khammam	2.228	73.774	1.643	5
	Komaram Bheem Asifabad	2.408	73.140	1.761	5
	Mahabubabad	2.194	74.362	1.631	5
	Mahabubnagar	2.801	74.904	2.098	5
	Mancherial	2.089	71.544	1.495	4
	Medak	2.636	75.255	1.984	5
	Medchal-Malkajgiri	2.570	72.626	1.866	5
	Nagarkurnool	2.483	72.860	1.809	5
	Nalgonda	2.344	76.138	1.784	5
	Nirmal	2.147	74.497	1.600	5
	Nizamabad	2.200	74.684	1.643	5
	Peddapalli	2.136	73.168	1.563	5
	Rajanna Sircilla	2.594	75.940	1.970	5
	Ranga Reddy	2.720	73.503	1.999	5
	Sangareddy	3.107	73.970	2.298	1
	Siddipet	2.369	77.111	1.827	5
	Suryapet	2.392	77.614	1.857	5
	Vikarabad	2.849	74.395	2.120	5
		2.733	74.595	1.930	4
	Wanaparthy Warangal Rural		78.596	1.808	5
		2.300			
	Warangal Urban	2.395	74.252	1.778	5
P	Yadadri Bhuvanagiri	2.503	71.821	1.798	4
Ггірига	DI I	2.007	50 222	2.255	
	Dhalai	2.907	78.322	2.277	6
	Gomati	2.207	81.709	1.803	5
	Khowai	2.084	80.068	1.669	5
	North Tripura	2.642	72.643	1.919	5
	Sepahijala	2.724	81.481	2.220	6
	South Tripura	2.199	81.525	1.793	5
	Unakoti	3.249	75.879	2.465	1
	West Tripura	2.096	81.159	1.701	5

State/Union Territory	District	TMFR	Proportion married	TFR	Fertility profile
Uttar Pradesh					•
	Agra	4.237	69.447	2.942	2
	Aligarh	3.494	70.858	2.476	2
	Allahabad	4.736	67.259	3.186	2
	Ambedkar Nagar	4.816	60.455	2.911	2
	Amethi	4.828	65.598	3.167	2
	Auraiya	4.156	70.893	2.946	2
	Azamgarh	3.628	63.290	2.296	2
	Baghpat	3.766	67.960	2.559	2
	Bahraich	4.175	74.494	3.110	1
	Ballia	3.615	65.321	2.361	2
	Balrampur	4.030	72.253	2.912	1
	Banda	4.257	69.089	2.941	2
	Bara Banki	4.694	64.434	3.025	2
	Bareilly	4.596	63.870	2.935	2
	Basti	3.532	65.621	2.318	2
	Bijnor	4.097	60.707	2.487	2
	Budaun	4.981	67.980	3.386	2
	Bulandshahr	3.642	71.715	2.612	2
	Chandauli	3.473	70.456	2.447	2
	Chitrakoot	3.591	69.376	2.491	2
	Deoria	3.159	67.243	2.124	3
	Etah	5.068	67.882	3.440	2
	Etawah	3.757	69.315	2.604	2
	Faizabad	3.506	66.552	2.333	2
	Farrukhabad	4.460	66.565	2.969	2
	Fatehpur	4.261	66.125	2.817	2
	Firozabad	4.145	71.234	2.953	2
	Gautam Buddha Nagar	3.178	69.263	2.201	2
	Ghaziabad	3.695	68.449	2.529	2
	Ghazipur	3.926	67.941	2.667	2
	Gonda	4.130	67.826	2.801	2
	Gorakhpur	3.943	66.251	2.612	2
	Hamirpur	3.697	67.661	2.501	2
	Нариг	3.713	69.842	2.593	2
	Hardoi	4.586	67.442	3.093	2
	Jalaun	3.424	71.967	2.464	2
	Jaunpur	3.398	66.585	2.263	2
	Jaunpui Jhansi	3.236	71.501	2.203	2
	3				2
	Jyotiba Phule Nagar Kannauj	4.835	62.953 66.568	3.044 2.961	2
		4.448			
	Kanpur Dehat Kanpur Nagar	3.615	69.165 67.283	2.500	2
		3.392	67.283	2.282	2 2
	Kanshiram Nagar	5.331	70.742	3.771	
	Kaushambi	5.585	67.451	3.767	2
	Kheri	3.985	68.704	2.738	2
	Kushinagar	3.448	68.553	2.364	2
	Lalitpur	4.149	76.420	3.171	1
	Lucknow	3.136	65.742	2.062	3

State/Union Territory	District	TMFR	Proportion	TFR	Fertility
	Malana Na	2.600	married	2 522	profile
	Mahamaya Nagar	3.680	68.818	2.532	2
	Mahoba	4.171	66.714	2.783	2
	Mahrajganj	3.426	71.018	2.433	2
	Mainpuri	4.446	66.463	2.955	2
	Mathura	4.151	72.252	2.999	1
	Mau	4.054	62.055	2.516	2
	Meerut	4.430	66.191	2.932	2
	Mirzapur	3.430	71.887	2.466	2
	Moradabad	4.042	63.008	2.547	2
	Muzaffarnagar	3.688	67.213	2.479	2
	Pilibhit	3.806	68.855	2.621	2
	Pratapgarh	4.257	66.145	2.816	2
	Rae Bareli	4.362	64.752	2.824	2
	Rampur	5.714	61.224	3.499	2
	Saharanpur	3.377	65.444	2.210	2
	Sambhal	4.182	67.299	2.814	2
	Sant Kabir Nagar	3.530	66.025	2.330	2
	Sant Ravidas Nagar (Bhadohi)	3.573	71.768	2.564	2
	Shahjahanpur	5.185	70.774	3.670	2
	Shamli	3.978	64.919	2.582	2
	Shrawasti	4.348	79.389	3.452	1
	Siddharthnagar	4.495	69.862	3.140	2
	Sitapur	3.760	69.842	2.626	2
	Sonbhadra	3.534	72.699	2.569	1
	Sultanpur	4.679	65.476	3.064	2
	Unnao	3.624	66.125	2.396	2
	Varanasi	3.389	67.819	2.298	2
Uttarakhand					
	Almora	2.488	67.213	1.672	4
	Bageshwar	2.766	73.044	2.020	5
	Chamoli	2.716	71.190	1.934	4
	Champawat	3.744	69.880	2.616	2
	Dehradun	2.900	66.488	1.928	4
	Garhwal	3.102	65.160	2.021	3
	Hardwar	4.705	68.366	3.217	2
	Nainital	3.231	68.921	2.227	2
	Pithoragarh	2.925	72.000	2.106	5
	Rudraprayag	3.218	72.014	2.317	1
	Tehri Garhwal	3.194	70.231	2.243	2
	Udham Singh Nagar	3.634	69.921	2.541	2
	Uttarkashi	2.894	73.429	2.125	5
West Bengal					
J	Bankura	2.565	79.539	2.040	5
	Birbhum	2.741	80.202	2.198	6
	Dakshin Dinajpur	2.512	77.787	1.954	5
	Darjiling	2.379	70.686	1.681	4
	Haora	2.021	74.608	1.507	5
	Hugli	1.838	78.585	1.444	5
	Jalpaiguri	3.165	72.297	2.288	1

PROFILES OF FERTILITY IN DISTRICTS OF INDIA

State/Union Territory	District	TMFR	Proportion	TFR	Fertility
			married		profile
	Koch Bihar	2.922	79.893	2.334	6
	Kolkata	1.877	68.483	1.285	4
	Maldah	3.051	77.257	2.357	1
	Murshidabad	2.696	79.304	2.138	5
	Nadia	2.352	80.805	1.901	5
	North Twenty Four Parganas	2.279	77.736	1.772	5
	Paschim Barddhaman	2.519	74.125	1.867	5
	Paschim Medinipur	2.431	82.673	2.010	5
	Purba Barddhaman	2.471	80.927	2.000	5
	Purba Medinipur	1.969	83.219	1.639	5
	Puruliya	3.279	75.135	2.464	1
	South Twenty Four Parganas	2.592	81.341	2.108	5
	Uttar Dinajpur	3.539	71.690	2.537	2

Source: Authors' calculations