

## CHAPTER 2

### BACKGROUND CHARACTERISTICS OF HOUSEHOLDS

This chapter presents a profile of the demographic and socioeconomic characteristics of NFHS-2 households and describes facilities and services that are available in villages in India. The chapter also includes some comparisons of NFHS-2 results with results from NFHS-1, the Census of India, and the Sample Registration System (SRS).

#### 2.1 Age-Sex Distribution of the Household Population

The NFHS-2 household population can be tabulated in two ways: *de facto* (the place each person stayed the night before the survey interview) or *de jure* (the place of usual residence). The *de facto* and *de jure* populations in India may differ because of temporary population movements within or between states. Table 2.1 shows the *de facto* population in the NFHS-2 household sample for India, classified by age, residence, and sex. The total *de facto* sample population is 486,011. The sample is 27 percent urban and 73 percent rural.

The age distribution of the population in India is typical of populations in which fertility has fallen recently, with relatively low proportions of the population in the younger and older age groups (Figure 2.1). Thirty-six percent are below 15 years of age and 5 percent are age 65 or older. The proportion below age 15 is slightly higher in rural areas (38 percent) than in urban areas (32 percent).

The single-year age distributions by sex in the *de facto* population (see Appendix Table D.1) indicate that there is some misreporting of ages, including considerable preference for ages ending in particular digits, especially 0, 2, and 5. One of the most commonly used measures of digit preference in age reporting is Myers' Index (United Nations, 1955). This index provides an overall summary of preferences for, or avoidance of, each of the 10 digits, from 0 to 9. Values of Myers' Index computed for the age range 10–69 in the household sample population in India are 23 for males and 18 for females. The index is often used as one indicator of survey quality. The lower estimate for females is probably due to the emphasis during the interviewer training on obtaining accurate age information for women to correctly determine the eligibility of women for the individual interview. The values of Myers' Index from NFHS-2 are almost the same as from NFHS-1 (revised from the published NFHS-1 estimates). This indicates that age reporting on the household questionnaire is of the same quality in NFHS-2 and NFHS-1.

Table 2.2 compares the age distributions by sex from the NFHS-2 *de jure* sample with the age distributions by sex from the Sample Registration System for 1997. The SRS baseline survey, which is *de jure*, counts all usual residents in a sample area (Office of the Registrar General, 1999a). The NFHS-2 and SRS age distributions are similar for broad age groups, despite the misreporting of age that is evident in the NFHS-2 single-year age data.

**Table 2.1 Household population by age and sex**

Percent distribution of the household population by age, according to residence and sex, India, 1998–99

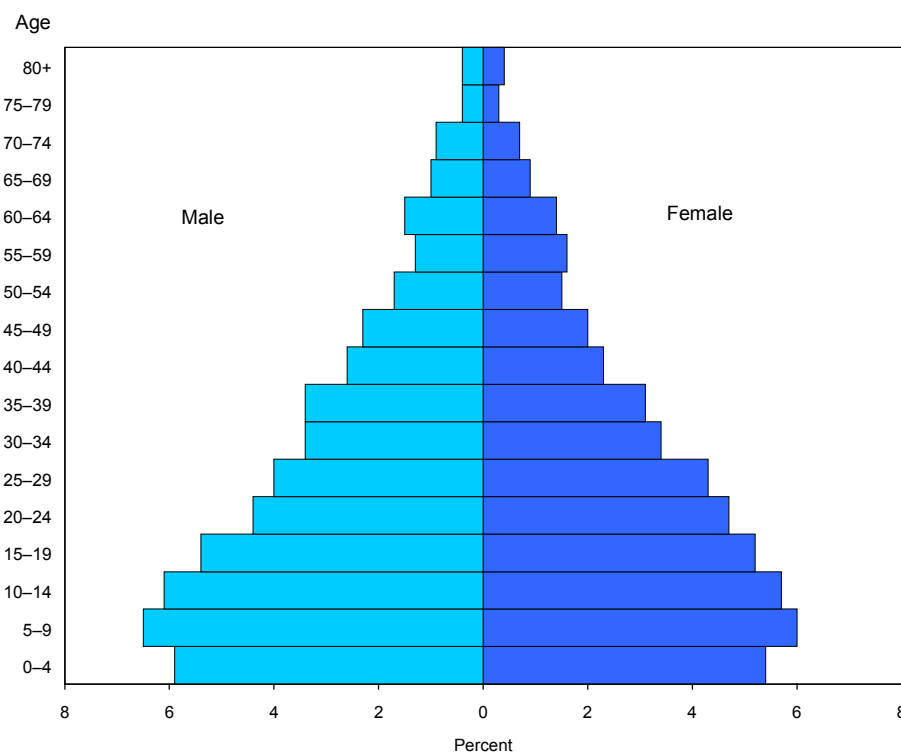
Age	Urban			Rural			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
< 1	2.0	1.9	1.9	2.6	2.4	2.5	2.4	2.3	2.3
1–4	7.7	7.8	7.8	9.7	9.5	9.6	9.2	9.0	9.1
5–9	10.7	10.6	10.6	13.8	13.0	13.4	13.0	12.4	12.7
10–14	11.5	11.1	11.3	12.5	11.9	12.2	12.2	11.7	12.0
15–19	11.1	10.8	11.0	10.0	10.3	10.1	10.3	10.4	10.4
20–24	9.8	10.3	10.0	7.8	9.2	8.5	8.4	9.5	8.9
25–29	8.7	9.1	8.9	7.4	8.6	8.0	7.7	8.7	8.2
30–34	7.2	7.5	7.3	6.4	6.9	6.6	6.6	7.0	6.8
35–39	7.0	7.2	7.1	6.4	6.0	6.2	6.5	6.3	6.4
40–44	5.7	5.3	5.5	4.8	4.4	4.6	5.1	4.7	4.9
45–49	5.1	4.6	4.8	4.2	3.9	4.1	4.4	4.1	4.3
50–54	3.6	3.4	3.5	3.3	2.9	3.1	3.4	3.0	3.2
55–59	2.8	3.1	3.0	2.6	3.2	2.9	2.6	3.2	2.9
60–64	2.6	2.6	2.6	3.0	3.1	3.1	2.9	3.0	2.9
65–69	1.8	2.0	1.9	2.1	2.0	2.0	2.0	2.0	2.0
70–74	1.4	1.4	1.4	1.8	1.4	1.6	1.7	1.4	1.6
75–79	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.6
80+	0.6	0.8	0.7	0.9	0.8	0.8	0.8	0.8	0.8
Total percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Number of persons	66,790	62,520	129,310	181,223	175,477	356,700	248,014	237,997	486,011
Sex ratio <sup>1</sup>	NA	NA	936	NA	NA	968	NA	NA	960

Note: Table is based on the *de facto* population, i.e., persons who stayed in the household the night before the interview (including both usual residents and visitors).

NA: Not applicable

<sup>1</sup>Females per 1,000 males

**Figure 2.1  
Population Pyramid**



NFHS-2, India, 1998–99

Table 2.2 Population by age and sex from the SRS and NFHS-2

Percent distribution of population by age and sex from the SRS and NFHS-2, India, 1997–99

Age	SRS (1997)		NFHS-2 (1998–99)		
	Male	Female	Male	Female	Sex ratio <sup>1</sup>
<b>URBAN</b>					
0–4	9.9	9.8	9.4	9.5	931
5–9	10.7	10.6	10.6	10.5	920
10–14	11.2	11.2	11.5	11.2	902
15–19	10.1	10.0	11.1	10.7	893
20–24	10.0	10.5	9.8	10.2	958
25–29	9.3	9.4	8.6	9.0	966
30–34	8.3	8.6	7.2	7.5	968
35–39	7.3	6.9	7.1	7.3	951
40–44	6.2	5.9	5.8	5.3	857
45–49	4.9	4.4	5.1	4.7	856
50–54	3.8	3.7	3.6	3.4	869
55–59	2.7	2.7	2.8	3.2	1,055
60–64	2.3	2.5	2.6	2.6	950
65–69	1.5	1.7	1.8	2.0	1,010
70+	1.9	2.1	2.7	2.9	972
Total	100.0	100.0	100.0	100.0	928
Median age	U	U	23.6	23.8	NA
<b>RURAL</b>					
0–4	11.8	11.5	11.9	11.7	948
5–9	13.5	13.2	13.6	13.0	915
10–14	12.4	11.9	12.3	12.0	929
15–19	10.1	9.3	10.2	10.1	953
20–24	8.9	9.0	8.0	9.0	1,075
25–29	8.1	8.4	7.5	8.6	1,096
30–34	7.0	7.6	6.5	6.9	1,022
35–39	6.3	6.0	6.5	6.0	891
40–44	5.1	5.3	4.9	4.5	890
45–49	4.2	4.0	4.2	4.0	891
50–54	3.6	3.7	3.3	2.9	850
55–59	2.6	2.8	2.6	3.3	1,221
60–64	2.6	2.9	3.0	3.2	996
65–69	1.7	1.9	2.1	2.0	928
70+	2.2	2.6	3.4	2.7	755
Total	100.0	100.0	100.0	100.0	957
Median age	U	U	20.8	21.2	NA

Table 2.2 Population by age and sex from the SRS and NFHS-2 (contd.)					
Percent distribution of population by age and sex from the SRS and NFHS-2, India, 1997–99					
Age	SRS (1997)		NFHS-2 (1998–99)		
	Male	Female	Male	Female	Sex ratio <sup>1</sup>
<b>TOTAL</b>					
0–4	11.4	11.1	11.2	11.1	944
5–9	12.8	12.6	12.8	12.4	916
10–14	12.1	11.7	12.1	11.8	922
15–19	10.1	9.5	10.4	10.3	936
20–24	9.2	9.4	8.5	9.3	1,039
25–29	8.3	8.6	7.8	8.7	1,057
30–34	7.3	7.8	6.7	7.1	1,007
35–39	6.5	6.2	6.6	6.4	908
40–44	5.4	5.4	5.1	4.7	880
45–49	4.3	4.1	4.5	4.2	880
50–54	3.6	3.7	3.4	3.1	855
55–59	2.6	2.8	2.6	3.3	1,173
60–64	2.5	2.8	2.9	3.0	985
65–69	1.7	1.9	2.0	2.0	948
70+	2.2	2.5	3.3	2.8	803
Total	100.0	100.0	100.0	100.0	949
Median age	U	U	21.8	22.1	NA
Note: Table is based on the <i>de jure</i> population, i.e., usual residents. NA: Not applicable U: Not available <sup>1</sup> Females per 1,000 males Source for SRS: Office of the Registrar General, 1999a					

Tables 2.1 and 2.2 also present sex ratios (females per 1,000 males) in India from NFHS-2. The sex ratio for the *de facto* population (960) in Table 2.1 is slightly higher than the sex ratio of the *de jure* population (949) in Table 2.2. The sex ratio for the *de facto* sample is 936 in urban areas and 968 in rural areas, suggesting that rural-urban migration has been dominated by males in India.

## 2.2 Marital Status

NFHS-2 includes information on the marital status of all household members age six and above. Table 2.3 shows the marital status distribution of the *de facto* household population, classified by age, residence, and sex. Among females age six and above, 53 percent are currently married and 36 percent have never been married. The proportion never married is higher for males (48 percent) than for females (36 percent) and slightly higher in urban areas (49 percent for males and 38 percent for females) than in rural areas (47 percent for males and 35 percent for females). The proportion divorced, separated, or deserted is small and widowhood is quite limited until the older ages. Forty-three percent of women age 50 or older are widowed, but only 12 percent of men in that age group are widowed.

**Table 2.3 Marital status of the household population**

Percent distribution of the household population age 6 and above by marital status, according to age, residence, and sex, India, 1998–99

Age	Marital status							Total percent
	Never married	Currently married	Married, <i>gauna</i> not performed	Widowed	Divorced	Separated	Deserted	
<b>URBAN</b>								
Male								
6–12	99.7	0.2	0.1	0.0	0.0	0.0	0.0	100.0
13–14	99.6	0.2	0.2	0.0	0.0	0.0	0.0	100.0
15–19	97.5	2.0	0.5	0.0	0.0	0.0	0.0	100.0
20–24	78.4	20.7	0.5	0.2	0.1	0.0	0.1	100.0
25–29	39.1	59.7	0.2	0.3	0.1	0.3	0.4	100.0
30–49	5.7	92.4	0.0	1.0	0.2	0.2	0.4	100.0
50+	1.3	89.0	0.0	9.3	0.0	0.1	0.2	100.0
Total	49.4	48.3	0.2	1.8	0.1	0.1	0.2	100.0
Female								
6–12	99.6	0.2	0.2	0.0	0.0	0.0	0.0	100.0
13–14	99.0	0.6	0.5	0.0	0.0	0.0	0.0	100.0
15–19	82.2	16.4	1.2	0.1	0.1	0.1	0.1	100.0
20–24	36.3	61.8	0.4	0.3	0.5	0.2	0.5	100.0
25–29	9.8	87.4	0.0	1.1	0.5	0.3	0.7	100.0
30–49	2.3	88.9	0.1	6.8	0.5	0.5	0.9	100.0
50+	1.0	52.8	0.0	45.2	0.2	0.4	0.4	100.0
Total	38.2	51.3	0.3	9.2	0.3	0.3	0.5	100.0
<b>RURAL</b>								
Male								
6–12	99.3	0.4	0.3	0.0	0.0	0.0	0.0	100.0
13–14	98.7	0.4	0.9	0.0	0.0	0.0	0.0	100.0
15–19	92.2	4.9	2.8	0.0	0.0	0.0	0.1	100.0
20–24	59.6	37.6	2.1	0.3	0.1	0.1	0.1	100.0
25–29	23.1	74.9	0.6	0.6	0.3	0.2	0.3	100.0
30–49	3.3	94.2	0.1	1.7	0.2	0.2	0.3	100.0
50+	1.3	85.0	0.0	13.3	0.1	0.1	0.2	100.0
Total	46.8	49.4	0.7	2.8	0.1	0.1	0.2	100.0
Female								
6–12	98.8	0.4	0.8	0.0	0.0	0.0	0.0	100.0
13–14	95.0	1.6	3.4	0.0	0.0	0.0	0.0	100.0
15–19	60.4	34.4	4.5	0.1	0.2	0.1	0.2	100.0
20–24	15.1	81.7	0.9	0.8	0.6	0.3	0.6	100.0
25–29	3.9	92.7	0.1	1.7	0.5	0.4	0.6	100.0
30–49	1.0	90.0	0.0	6.9	0.6	0.5	1.0	100.0
50+	0.5	55.7	0.0	42.8	0.2	0.3	0.4	100.0
Total	35.1	53.9	1.0	9.0	0.3	0.3	0.5	100.0

Table 2.3 Marital status of the household population (contd.)

Percent distribution of the household population age 6 and above by marital status, according to age, residence, and sex, India, 1998–99

Age	Marital status							Total percent
	Never married	Currently married	Married, <i>gauna</i> not performed	Widowed	Divorced	Separated	Deserted	
<b>TOTAL</b>								
Male								
6–12	99.4	0.3	0.2	0.0	0.0	0.0	0.0	100.0
13–14	98.9	0.4	0.7	0.0	0.0	0.0	0.0	100.0
15–19	93.7	4.0	2.1	0.0	0.0	0.0	0.1	100.0
20–24	65.6	32.3	1.6	0.3	0.1	0.1	0.1	100.0
25–29	27.9	70.3	0.5	0.5	0.2	0.3	0.3	100.0
30–49	4.0	93.7	0.1	1.5	0.2	0.2	0.3	100.0
50+	1.3	86.0	0.0	12.3	0.1	0.1	0.2	100.0
Total	47.5	49.1	0.6	2.5	0.1	0.1	0.2	100.0
Female								
6–12	99.0	0.3	0.6	0.0	0.0	0.0	0.0	100.0
13–14	96.1	1.3	2.6	0.0	0.0	0.0	0.0	100.0
15–19	66.4	29.5	3.6	0.1	0.2	0.1	0.2	100.0
20–24	21.2	76.0	0.8	0.6	0.6	0.3	0.6	100.0
25–29	5.5	91.3	0.1	1.5	0.5	0.4	0.7	100.0
30–49	1.4	89.7	0.1	6.9	0.6	0.5	1.0	100.0
50+	0.6	55.0	0.0	43.4	0.2	0.3	0.4	100.0
Total	35.9	53.2	0.8	9.0	0.3	0.3	0.5	100.0

Note: Table is based on the *de facto* population, i.e., persons who stayed in the household the night before the interview (including both usual residents and visitors). The marital status distribution for females by age cannot be directly compared with the published distribution for NFHS-1 because the ages in the current table are based entirely on the reports of the household respondents, whereas in NFHS-1 the ages of ever-married women age 13–49 were taken from the Woman's Questionnaire.

Also of interest is the proportion of persons who marry young. At age 15–19, the proportions ever married are 3 percent for males and 18 percent for females in urban areas, 8 percent for males and 40 percent for females in rural areas, and 6 percent for males and 34 percent for females in the country as a whole. By age 25–29, almost all women (95 percent) have ever been married. Only 72 percent of males in this age group have ever been married (61 percent in urban areas and 77 percent in rural areas). Overall, the table shows that women in India marry at much younger ages than men, and that both men and women marry at younger ages in rural areas than in urban areas.

Table 2.4 shows estimates of the singulate mean age at marriage (SMAM), which can be calculated from age-specific proportions single in a census or household survey. SMAM is calculated from the *de jure* population in NFHS-2 in order to arrive at estimates that are more comparable to those derived from the censuses, which are modified *de jure* counts. According to the SMAM measure, men in India tend to marry women who are five years younger than themselves. The census and NFHS-2 data indicate that the age at marriage has been rising for both men and women at approximately the same rate (about two and one-half years between 1971 and 1998–99). Marriage ages are higher in urban areas, with urban men and women marrying about two and one-half years later than their rural counterparts. The SMAM for

Table 2.4 Singulate mean age at marriage by state

Singulate mean age at marriage from selected sources by sex and state, India, 1971–1998/99

State	NFHS-2 (1998–99)											
	1971 Census		1981 Census		1991 Census		Urban		Rural		Total	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<b>India</b>	22.6	17.2	23.5	18.4	24.0	19.3	26.5	21.5	24.2	19.0	24.9	19.7
<b>North</b>												
Delhi	24.0	20.0	24.3	20.5	24.2	20.6	26.0	22.1	24.1	19.9	25.8	21.9
Haryana	20.9	17.7	25.2	17.9	22.8	18.8	25.2	21.4	24.3	19.2	24.6	19.8
Himachal Pradesh	23.5	17.7	24.2	19.2	24.5	20.3	27.2	23.7	26.6	21.9	26.7	22.1
Jammu & Kashmir	U	U	U	U	U	U	29.1	24.5	26.5	21.9	27.1	22.5
Punjab	24.1	20.1	25.0	21.1	24.3	21.0	26.4	23.2	25.5	21.6	25.7	22.1
Rajasthan	19.9	15.1	20.6	16.1	21.3	17.5	24.1	19.9	21.6	17.8	22.3	18.3
<b>Central</b>												
Madhya Pradesh	19.5	15.0	20.8	16.6	21.7	17.8	26.0	20.9	22.4	18.2	23.5	18.9
Uttar Pradesh	19.8	15.5	21.3	16.7	21.9	18.0	26.2	21.5	22.4	18.3	23.3	19.0
<b>East</b>												
Bihar	20.0	15.3	21.6	16.6	22.1	17.5	26.3	20.9	23.5	18.5	23.8	18.8
Orissa	22.7	17.3	24.3	19.1	25.0	20.2	27.7	22.8	26.4	21.0	26.6	21.2
West Bengal	24.6	18.0	26.0	19.3	25.9	19.7	29.0	22.4	25.2	18.7	26.2	19.6
<b>Northeast</b>												
Arunachal Pradesh	25.6	19.6	U	U	25.1	20.1	23.9	21.9	25.3	21.6	25.1	21.6
Assam	25.8	18.7	U	U	U	U	29.3	23.6	27.7	21.5	27.8	21.7
Manipur	26.4	22.2	27.3	23.4	28.1	24.7	28.7	25.9	28.6	25.0	28.6	25.4
Meghalaya	25.5	20.2	26.0	21.0	25.8	21.4	27.8	25.0	26.7	22.2	27.0	23.0
Mizoram	U	U	U	U	26.7	22.4	27.5	24.7	26.3	23.2	27.0	24.1
Nagaland	27.8	24.0	29.0	24.8	28.9	24.9	28.4	23.4	27.3	22.9	27.6	23.0
Sikkim	U	U	U	U	25.8	21.4	24.7	23.0	26.5	21.7	26.2	21.9
<b>West</b>												
Goa	U	U	28.5	23.0	29.4	24.2	30.3	25.2	30.1	24.4	30.2	24.8
Gujarat	22.4	18.5	23.3	19.6	23.4	19.9	25.0	21.1	23.8	19.6	24.4	20.2
Maharashtra	23.8	17.6	24.4	18.8	24.8	19.7	26.0	21.3	24.6	18.6	25.3	19.8
<b>South</b>												
Andhra Pradesh	22.8	16.3	23.1	17.3	23.5	18.3	25.8	20.3	23.1	17.6	23.9	18.3
Karnataka	25.2	17.9	26.0	19.3	26.2	20.1	27.8	21.5	26.1	19.4	26.7	20.1
Kerala	27.0	21.3	27.5	22.1	27.7	22.2	28.9	22.7	27.6	21.2	27.9	21.5
Tamil Nadu	26.1	19.6	26.1	20.3	26.4	20.9	27.1	21.7	26.4	20.4	26.6	20.9

Note: Table is based on the *de jure* population.  
U: Not available

females in India as estimated in NFHS-2 is 21.5 years in urban areas, 19.0 years in rural areas, and 19.7 years for the country as a whole. SMAM varies substantially across states. The female SMAM is lowest in Rajasthan and Andhra Pradesh (18.3 years) and highest in Manipur (25.4 years), followed by Goa (24.8 years). The mean age at marriage for females is also below the national average in the Central Region, and in Bihar and West Bengal. In addition to Goa, the SMAM is higher than 21 years in all of the northeastern states, most states in the North Region, Kerala and Orissa. Similar differences across the states are also found for the SMAM for males.

### 2.3 Household Composition

Table 2.5 shows the percent distribution of households by various characteristics of the household head (sex, age, religion, and caste/tribe), as well as by household type and the number of usual household members. The table is based on the *de jure* population because household type and the number of usual household members pertain to the usual-resident population. The table shows that 89–90 percent of household heads are male, regardless of area of residence (rural or urban). More than two-thirds of household heads are 30–59 years of age and the median age of household heads is 45 years in both urban and rural areas. Eighty-two percent of household heads are Hindu, 12 percent are Muslim, 3 percent are Christian, 2 percent are Sikh, 1 percent are Buddhist or Neo-Buddhist, and less than 0.5 percent are Jain. The percent distribution of household heads by religion is almost identical in NFHS-2 and NFHS-1, and is very close to the religious distribution of the population enumerated in the 1991 Census. Muslims constitute 15 percent of urban households, but only 10 percent of rural households. Christians, Jains, and Buddhists are also more concentrated in urban areas than in rural areas. Nineteen percent of household heads belong to scheduled castes and 9 percent belong to scheduled tribes. Both of these groups, but especially scheduled tribes, constitute higher proportions of households in rural areas than in urban areas. Almost one-third of household heads belong to other backward classes (OBC)<sup>1</sup>. The largest proportion of household heads (39 percent) belong to the ‘other’ caste category. Fifty-seven percent of all households are nuclear family households (consisting of an unmarried adult living alone or a married person or couple and their unmarried children, if any). Mean household size (5.4 persons per household in India as a whole) is slightly higher in rural areas (5.5) than in urban areas (5.2).

States differ substantially in terms of the distribution of household heads by religion and caste/tribe (Table 2.6). In 18 of the 25 states, a large majority of household heads are Hindu. More than half of household heads in Jammu and Kashmir, more than one-quarter in Assam and Kerala, and more than one-fifth in West Bengal are Muslim. Other states with at least 15 percent of Muslim household heads are Uttar Pradesh and Bihar and with at least 10 percent of Muslim household heads are Karnataka and Maharashtra. The largest percentages of households headed by Christians are in Mizoram (96 percent), Nagaland (82 percent), Meghalaya (73 percent), Manipur (37 percent), and Goa (33 percent). Sikhs are concentrated primarily in Punjab, where they constitute 54 percent of households. One-third of household heads in Sikkim are Buddhist or Neo-Buddhist. Eleven percent of household heads in Arunachal Pradesh and 7 percent in Maharashtra are also Buddhist or Neo-Buddhist. The proportion of household heads who come from ‘other religions’ is 36 percent in Arunachal Pradesh (almost all of whom are from the Donipolo religion) and 11 percent in Manipur (almost all of whom are from the Sanamahi religion).

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<sup>1</sup>Other backward classes are castes and communities that have been designated by the Government of India as socially and educationally backward and in need of protection from social injustice.



**Table 2.5 Household characteristics**

Percent distribution of households by selected characteristics of the household head, household type, and household size, according to residence, India, 1998–99

Characteristic	Urban	Rural	Total
<b>Sex of household head</b>			
Male	88.9	90.0	89.7
Female	11.1	10.0	10.3
<b>Age of household head</b>			
< 30	9.7	11.4	10.9
30–44	39.1	38.2	38.4
45–59	32.1	28.1	29.2
60+	19.2	22.4	21.5
Median age	45.2	45.1	45.1
<b>Religion of household head</b>			
Hindu	77.2	83.7	81.9
Muslim	15.0	10.4	11.7
Christian	3.6	2.7	3.0
Sikh	1.6	1.8	1.7
Jain	0.9	0.2	0.4
Buddhist/Neo-Buddhist	1.4	0.6	0.8
Other	0.1	0.3	0.3
No religion	0.0	0.1	0.1
Missing	0.1	0.1	0.1
<b>Caste/tribe of household head</b>			
Scheduled caste	14.7	20.2	18.7
Scheduled tribe	3.7	11.2	9.1
Other backward class	29.6	33.5	32.4
Other	51.5	33.9	38.8
Don't know/missing	0.5	1.1	1.0
<b>Household type</b>			
Nuclear household	59.3	55.6	56.6
Non-nuclear household	40.7	44.3	43.3
<b>Number of usual members</b>			
1	3.2	3.1	3.1
2	7.6	7.9	7.8
3	13.1	10.9	11.5
4	21.4	17.5	18.6
5	19.3	18.4	18.7
6	13.7	14.9	14.5
7	7.9	10.0	9.4
8	4.9	6.3	5.9
9+	8.8	11.0	10.4
Mean household size	5.2	5.5	5.4
Total percent	100.0	100.0	100.0
Number of households	25,243	65,953	91,196

Note: Table is based on the *de jure* population.

Table 2.6 Religion and caste/tribe of household head by state

Percent distribution of households by religion and caste/tribe of the household head, according to state, India, 1998–99

State	Religion of household head										Caste/tribe of household head					
	Hindu	Muslim	Christian	Sikh	Jain	Buddhist/ Neo- Buddhist	Other <sup>1</sup>	No religion	Missing	Total percent	Sched- uled caste	Sched- uled tribe	Other back- ward class	Other	Missing	Total percent
<b>India</b>	81.9	11.7	3.0	1.7	0.4	0.8	0.3	0.1	0.1	100.0	18.7	9.1	32.4	38.8	1.0	100.0
<b>North</b>																
Delhi	84.3	8.3	1.2	4.6	0.8	0.1	0.2	0.1	0.3	100.0	17.7	0.9	14.9	66.4	0.1	100.0
Haryana	88.5	4.1	0.1	7.1	0.1	0.0	0.0	0.0	0.1	100.0	21.3	0.1	21.4	57.2	0.0	100.0
Himachal Pradesh	93.1	3.1	0.1	1.3	0.1	2.3	0.0	0.0	0.1	100.0	22.4	0.6	17.3	59.7	0.0	100.0
Jammu & Kashmir	45.2	52.8	0.3	1.6	0.0	0.0	0.0	0.0	0.0	100.0	14.8	2.5	11.3	71.5	0.0	100.0
Punjab	41.9	2.1	2.0	53.9	0.0	0.0	0.0	0.0	0.1	100.0	29.8	0.1	16.8	53.4	0.0	100.0
Rajasthan	88.6	9.1	0.1	1.0	1.2	0.0	0.1	0.0	0.0	100.0	18.6	12.0	23.2	46.1	0.1	100.0
<b>Central</b>																
Madhya Pradesh	92.2	5.0	1.4	0.2	1.0	0.2	0.0	0.0	0.0	100.0	16.1	23.7	39.8	20.2	0.0	100.0
Uttar Pradesh	82.6	16.3	0.1	0.7	0.0	0.0	0.0	0.0	0.2	100.0	20.2	2.2	26.2	46.2	5.1	100.0
<b>East</b>																
Bihar	83.2	14.8	1.1	0.0	0.0	0.0	0.9	0.0	0.0	100.0	20.8	9.9	49.9	19.3	0.0	100.0
Orissa	96.5	1.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	100.0	21.6	21.7	29.6	27.0	0.0	100.0
West Bengal	75.8	21.8	0.3	0.1	0.0	0.4	1.3	0.1	0.2	100.0	22.8	7.2	4.5	65.1	0.5	100.0
<b>Northeast</b>																
Arunachal Pradesh	37.5	1.3	13.0	0.1	0.0	11.0	35.8	1.1	0.2	100.0	13.7	68.0	12.4	5.9	0.0	100.0
Assam	66.9	29.4	2.4	0.0	0.0	0.2	0.3	0.1	0.7	100.0	9.9	21.3	12.5	54.0	2.4	100.0
Manipur	49.5	3.0	36.8	0.0	0.0	0.1	10.6	0.1	0.0	100.0	5.0	38.0	4.5	52.2	0.3	100.0
Meghalaya	9.6	3.4	73.1	0.0	0.0	0.0	2.1	11.6	0.2	100.0	2.1	89.5	1.2	7.1	0.2	100.0
Mizoram	2.5	0.4	95.6	0.1	0.0	1.2	0.1	0.0	0.2	100.0	0.4	98.4	0.2	1.1	0.0	100.0
Nagaland	10.3	6.3	81.8	0.0	0.0	0.1	0.3	0.4	0.9	100.0	5.7	83.5	3.4	6.8	0.6	100.0
Sikkim	59.9	1.3	5.3	0.0	0.0	32.9	0.3	0.0	0.3	100.0	7.1	27.9	33.3	31.5	0.2	100.0
<b>West</b>																
Goa	63.0	3.8	32.9	0.0	0.2	0.0	0.0	0.1	0.0	100.0	6.2	0.3	6.4	86.8	0.2	100.0
Gujarat	89.8	8.1	0.7	0.2	1.2	0.0	0.1	0.0	0.0	100.0	14.7	19.7	23.6	42.0	0.0	100.0
Maharashtra	79.7	9.8	1.3	0.2	1.4	7.1	0.5	0.1	0.0	100.0	13.4	10.2	22.6	53.3	0.5	100.0
<b>South</b>																
Andhra Pradesh	87.8	6.1	6.0	0.0	0.0	0.0	0.0	0.1	0.0	100.0	20.1	5.0	43.5	31.1	0.2	100.0
Karnataka	85.4	10.6	3.2	0.0	0.7	0.0	0.0	0.0	0.0	100.0	16.7	5.6	40.3	36.3	1.0	100.0
Kerala	55.0	25.6	19.3	0.1	0.1	0.0	0.0	0.0	0.0	100.0	9.3	1.1	40.5	49.2	0.0	100.0
Tamil Nadu	89.1	5.3	5.3	0.0	0.1	0.0	0.1	0.0	0.1	100.0	23.5	0.9	73.4	2.2	0.0	100.0

<sup>1</sup>Includes 34.2 percent belonging to the Doni-polo religion in Arunachal Pradesh and 9.9 percent belonging to the Sanamahi religion in Manipur

Thirty percent of households in Punjab, and more than one-fifth in Tamil Nadu, Himachal Pradesh, Haryana, Uttar Pradesh, Andhra Pradesh, and the East Region, belong to scheduled castes. Between 10 and 20 percent of households belong to scheduled castes in Rajasthan, Delhi, Karnataka, Madhya Pradesh, Jammu and Kashmir, Gujarat, Arunachal Pradesh, and Maharashtra. Scheduled tribes are more concentrated in the northeastern states, particularly Mizoram (where 98 percent of household heads belong to scheduled tribes), Meghalaya (90 percent), Nagaland (84 percent), and Arunachal Pradesh (68 percent). Scheduled tribes constitute 38 percent of the household heads in Manipur, 28 percent in Sikkim, 24 percent in Madhya Pradesh, 22 percent in Orissa, and 21 percent in Assam. The percentage of scheduled tribes is negligible (3 percent or less) in the North Region (except for Rajasthan), and in Goa, Tamil Nadu, Kerala, and Uttar Pradesh.

Other backward classes (OBCs) are particularly prominent in the South Region (where 40–73 percent of household heads belongs to OBCs), and in Bihar (50 percent), Madhya Pradesh (40 percent), and Sikkim (33 percent). The highest proportions of household heads who do not belong to scheduled castes, scheduled tribes, and OBCs are in Goa (87 percent), Jammu and Kashmir (72 percent), Delhi (66 percent), West Bengal (65 percent), and Himachal Pradesh (60 percent).

## 2.4 Educational Attainment

The level of education of household members may affect reproductive behaviour, contraceptive use, the health of children, and proper hygienic practices. Table 2.7 shows the percent distribution of the *de facto* household population by literacy and educational level, according to age, residence, and sex. (This table and all subsequent tables and figures in this report are based on the *de facto* sample, unless otherwise specified.)

Table 2.7 shows that in India 49 percent of females and 26 percent of males age six and above are illiterate. Comparable figures from NFHS-1 are 57 percent of females and 31 percent of males, indicating a substantial decline in illiteracy in only six and one-half years. Cohort differences in literacy also suggest that there has been considerable progress over time (Table 2.7 and Figure 2.2). For example, while only 21 percent of women age 50 and over are literate, the literacy rate doubles for those age 30–39, and steadily increases to 76 percent for women age 10–14. The literacy gap between males and females has narrowed over time, but even at age 10–14 there is still a gap of 11 percentage points (although the gap has decreased from 18 percentage points in NFHS-1).

Changes over time in educational attainment can be seen by examining the differences in educational levels by age. For example, the proportion of males completing at least high school rises from 18 percent at age 50 and above to 40 percent at ages 20–29. For females, the proportion completing at least high school is almost negligible (only 4 percent) at age 50 and above but reaches a level of 23 percent at age 20–29.

A higher percentage of males than of females have completed each level of schooling. The median number of years of schooling is 5.5 for males and 1.6 for females. The proportion illiterate is lowest at age 10–14 for both males and females and is highest at age 50 and above.

Table 2.7 Educational level of the household population

Percent distribution of the household population age 6 and above by literacy and level of education, and median number of completed years of schooling, according to age, residence, and sex, India, 1998–99

Age	Educational level <sup>1</sup>							Total percent	Number of persons	Median number of years of schooling
	Illiterate	Literate, < primary school complete	Primary school complete	Middle school complete	High school complete	Higher secondary complete and above	Missing			
<b>URBAN</b>										
Male										
6–9	16.2	83.1	0.7	0.0	0.0	0.0	0.0	100.0	5,648	1.8
10–14	7.0	30.0	48.9	13.6	0.5	0.0	0.0	100.0	7,714	5.7
15–19	8.8	5.4	18.1	31.0	24.7	12.0	0.0	100.0	7,418	9.3
20–29	9.1	4.4	13.1	17.3	19.4	36.6	0.0	100.0	12,338	10.4
30–39	12.8	5.8	14.4	13.9	18.6	34.5	0.0	100.0	9,504	10.2
40–49	14.4	6.8	15.1	12.7	20.3	30.7	0.0	100.0	7,193	10.1
50+	20.6	12.6	16.7	9.5	18.6	22.0	0.0	100.0	8,987	8.1
Total	12.5	17.2	18.2	14.6	15.6	21.9	0.0	100.0	58,804	8.3
Female										
6–9	19.7	79.5	0.8	0.0	0.0	0.0	0.0	100.0	5,293	1.9
10–14	9.6	28.4	46.2	15.2	0.6	0.0	0.0	100.0	6,926	5.7
15–19	13.4	5.3	17.3	26.0	24.1	13.9	0.0	100.0	6,770	9.3
20–29	21.6	4.7	14.1	13.3	15.4	30.9	0.0	100.0	12,107	9.4
30–39	32.5	5.6	16.0	11.5	14.3	20.1	0.0	100.0	9,153	7.3
40–49	36.7	7.7	17.0	9.5	14.6	14.4	0.0	100.0	6,178	5.7
50+	55.9	10.8	14.4	6.3	6.9	5.6	0.1	100.0	8,721	0.0
Total	27.8	16.4	17.9	12.0	11.5	14.3	0.0	100.0	55,156	5.8
Total										
6–9	17.9	81.3	0.7	0.0	0.0	0.0	0.0	100.0	10,942	1.9
10–14	8.2	29.3	47.6	14.4	0.5	0.0	0.0	100.0	14,640	5.7
15–19	11.0	5.4	17.7	28.6	24.4	12.9	0.0	100.0	14,187	9.3
20–29	15.3	4.6	13.6	15.3	17.4	33.8	0.0	100.0	24,445	10.1
30–39	22.4	5.7	15.2	12.7	16.5	27.4	0.0	100.0	18,656	9.0
40–49	24.7	7.2	16.0	11.2	17.7	23.2	0.0	100.0	13,371	8.3
50+	38.0	11.7	15.6	7.9	12.8	14.0	0.1	100.0	17,708	5.1
Total	19.9	16.8	18.1	13.3	13.6	18.2	0.0	100.0	113,959	7.3

Table 2.7 Educational level of the household population (contd.)

Percent distribution of the household population age 6 and above by literacy and level of education, and median number of completed years of schooling, according to age, residence, and sex, India, 1998–99

Age	Educational level <sup>1</sup>							Total percent	Number of persons	Median number of years of schooling
	Illiterate	Literate, < primary school complete	Primary school complete	Middle school complete	High school complete	Higher secondary complete and above	Missing			
<b>RURAL</b>										
Male										
6–9	30.0	69.1	0.8	0.0	0.0	0.0	0.1	100.0	19,420	1.4
10–14	15.0	39.3	37.3	8.1	0.2	0.0	0.0	100.0	22,646	4.7
15–19	17.0	9.0	22.7	30.0	16.1	5.1	0.0	100.0	18,196	8.1
20–29	23.7	8.0	16.7	18.3	15.9	17.3	0.0	100.0	27,623	8.2
30–39	35.1	10.5	16.9	13.9	11.6	11.9	0.0	100.0	23,153	5.6
40–49	37.9	12.2	17.8	11.7	11.8	8.7	0.0	100.0	16,339	5.0
50+	52.3	15.8	15.6	6.1	6.4	3.7	0.0	100.0	25,973	0.0
Total	30.5	22.6	18.4	12.5	8.9	7.1	0.0	100.0	153,381	4.6
Female										
6–9	36.4	63.1	0.4	0.0	0.0	0.0	0.1	100.0	17,951	1.2
10–14	28.6	32.8	31.5	7.0	0.3	0.0	0.0	100.0	20,958	4.1
15–19	38.7	8.2	18.6	19.8	11.0	3.7	0.0	100.0	17,992	5.5
20–29	55.2	6.8	13.9	9.8	7.7	6.5	0.0	100.0	31,136	0.0
30–39	68.4	7.2	12.4	5.3	4.2	2.5	0.0	100.0	22,533	0.0
40–49	74.3	7.9	10.2	3.5	2.8	1.3	0.0	100.0	14,662	0.0
50+	87.1	6.0	4.8	1.0	0.7	0.3	0.1	100.0	24,452	0.0
Total	56.3	17.4	13.2	6.7	4.0	2.4	0.0	100.0	149,714	0.0
Total										
6–9	33.1	66.2	0.6	0.0	0.0	0.0	0.1	100.0	37,371	1.3
10–14	21.5	36.2	34.5	7.6	0.2	0.0	0.0	100.0	43,604	4.5
15–19	27.8	8.6	20.7	24.9	13.6	4.4	0.0	100.0	36,188	7.1
20–29	40.4	7.4	15.3	13.8	11.5	11.6	0.0	100.0	58,759	5.4
30–39	51.5	8.9	14.7	9.7	8.0	7.3	0.0	100.0	45,687	2.1
40–49	55.1	10.2	14.2	7.8	7.5	5.2	0.0	100.0	31,001	0.0
50+	69.2	11.1	10.4	3.6	3.7	2.1	0.0	100.0	50,425	0.0
Total	43.3	20.0	15.9	9.6	6.5	4.7	0.0	100.0	303,095	2.6

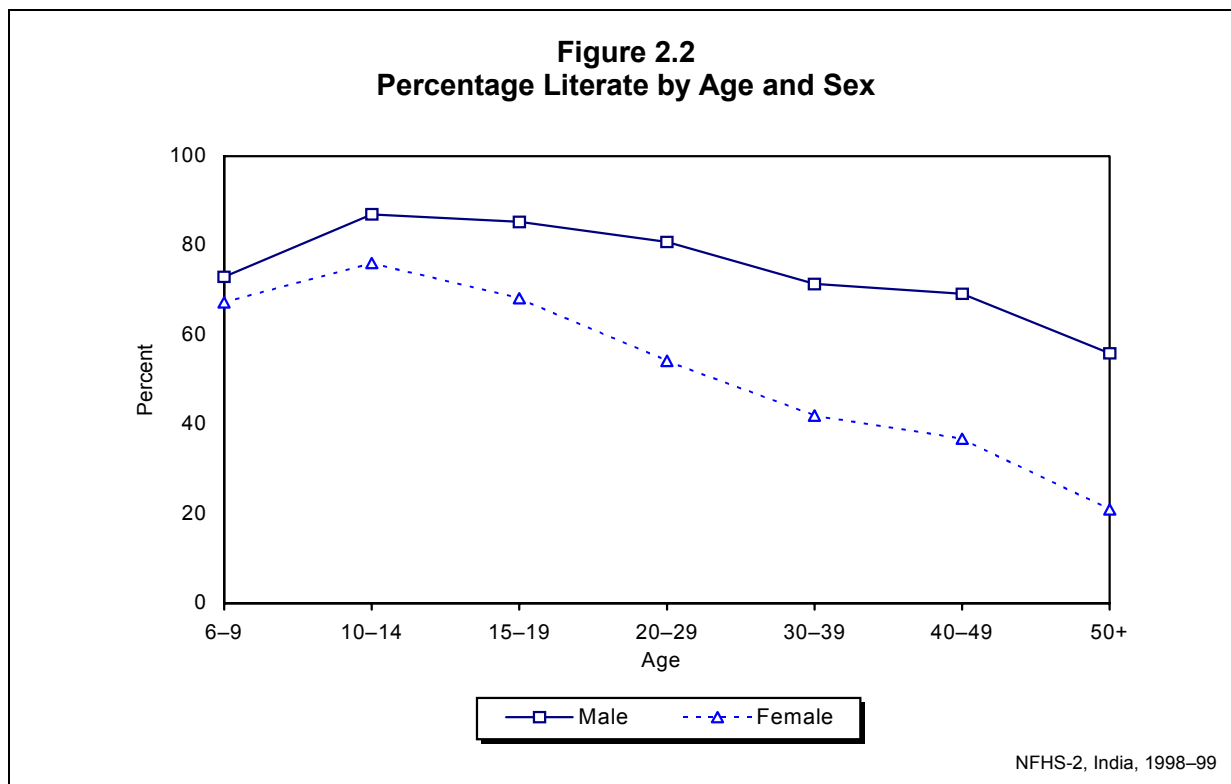
Table 2.7 Educational level of the household population (contd.)

Percent distribution of the household population age 6 and above by literacy and level of education, and median number of completed years of schooling, according to age, residence, and sex, India, 1998–99

Age	Educational level <sup>1</sup>							Total percent	Number of persons	Median number of years of schooling
	Illiterate	Literate, < primary school complete	Primary school complete	Middle school complete	High school complete	Higher secondary complete and above	Missing			
<b>TOTAL</b>										
Male										
6–9	26.9	72.3	0.8	0.0	0.0	0.0	0.1	100.0	25,068	1.5
10–14	13.0	37.0	40.3	9.5	0.3	0.0	0.0	100.0	30,359	5.0
15–19	14.7	8.0	21.4	30.3	18.6	7.1	0.0	100.0	25,614	8.5
20–29	19.2	6.9	15.6	18.0	17.0	23.3	0.0	100.0	39,961	9.0
30–39	28.6	9.1	16.2	13.9	13.7	18.5	0.0	100.0	32,657	7.3
40–49	30.8	10.5	17.0	12.0	14.4	15.4	0.0	100.0	23,532	6.2
50+	44.1	15.0	15.9	7.0	9.5	8.4	0.0	100.0	34,960	3.5
Total	25.5	21.1	18.4	13.0	10.7	11.2	0.0	100.0	212,185	5.5
Female										
6–9	32.6	66.8	0.5	0.0	0.0	0.0	0.1	100.0	23,244	1.4
10–14	23.9	31.7	35.1	9.0	0.3	0.0	0.0	100.0	27,885	4.6
15–19	31.8	7.4	18.2	21.5	14.6	6.5	0.0	100.0	24,762	7.0
20–29	45.8	6.2	14.0	10.8	9.9	13.3	0.0	100.0	43,243	4.5
30–39	58.0	6.8	13.4	7.1	7.1	7.6	0.0	100.0	31,686	0.0
40–49	63.2	7.9	12.2	5.3	6.3	5.2	0.0	100.0	20,840	0.0
50+	78.9	7.2	7.3	2.4	2.3	1.7	0.1	100.0	33,173	0.0
Total	48.6	17.1	14.5	8.1	6.0	5.6	0.0	100.0	204,870	1.6
Total										
6–9	29.6	69.6	0.7	0.0	0.0	0.0	0.1	100.0	48,312	1.5
10–14	18.2	34.4	37.8	9.3	0.3	0.0	0.0	100.0	58,244	4.8
15–19	23.1	7.7	19.8	26.0	16.6	6.8	0.0	100.0	50,376	7.9
20–29	33.0	6.5	14.8	14.3	13.3	18.1	0.0	100.0	83,204	7.2
30–39	43.1	8.0	14.8	10.6	10.4	13.1	0.0	100.0	64,343	4.8
40–49	46.0	9.3	14.7	8.8	10.6	10.6	0.0	100.0	44,372	3.9
50+	61.1	11.2	11.7	4.7	6.0	5.2	0.0	100.0	68,133	0.0
Total	36.9	19.2	16.5	10.6	8.4	8.4	0.0	100.0	417,055	4.0

Note: This table and all the subsequent tables (unless otherwise indicated) are based on the *de facto* population. Illiterate persons may have been to school, but they cannot read and write. Total includes persons with missing information on age, who are not shown separately.

<sup>1</sup>In this report, 'primary school complete' means 5–7 completed years of education, 'middle school complete' means 8–9 completed years of education, 'high school complete' means 10–11 completed years of education, and 'higher secondary complete and above' means 12 or more completed years of education.



Education levels are much higher in urban areas than in rural areas for both males and females. The proportion illiterate is twice as high for rural females (56 percent) as for urban females (28 percent), and is more than twice as high for rural males (31 percent) as for urban males (13 percent).

There are large interstate variations in the level of female and male literacy and educational attainment (Table 2.8 and Figure 2.3). At least three-quarters of females age six and above are literate in Mizoram (89 percent), Kerala (85 percent), Delhi (78 percent), and Goa (75 percent). At the other extreme, less than half of females age six and over are literate in Bihar (35 percent), Rajasthan (37 percent), Uttar Pradesh (43 percent), Madhya Pradesh (45 percent), Jammu and Kashmir (45 percent), and Andhra Pradesh (46 percent). The percentage of females who have a high school level of education or above is highest in Delhi (33 percent, up from 29 percent in NFHS-1), followed by Kerala (31 percent, up from 19 percent in NFHS-1), Goa (28 percent, up from 23 percent in NFHS-1), and Punjab (23 percent, up from 15 percent in NFHS-1).

Table 2.8 Educational level of the household population by state

Percent distribution of the *de facto* household population age 6 and above by literacy and level of education, and median number of completed years of schooling, according to sex and state, India, 1998–99

State	Educational level							Total percent	Median number of years of schooling
	Illiterate	Literate, < primary school complete	Primary school complete	Middle school complete	High school complete	Higher secondary complete and above	Missing		
<b>MALE</b>									
<b>India</b>	25.5	21.1	18.4	13.0	10.7	11.2	0.0	100.0	5.5
<b>North</b>									
Delhi	8.5	15.4	15.9	14.6	16.9	28.7	0.0	100.0	9.3
Haryana	21.2	19.6	17.8	13.1	16.0	12.3	0.0	100.0	6.2
Himachal Pradesh	14.6	17.8	21.0	14.8	19.7	12.1	0.0	100.0	7.5
Jammu & Kashmir	31.2	15.0	14.9	18.1	11.6	9.1	0.0	100.0	5.7
Punjab	22.1	18.0	17.3	12.9	17.4	12.3	0.0	100.0	6.4
Rajasthan	28.2	22.0	18.4	13.2	9.3	8.9	0.0	100.0	5.0
<b>Central</b>									
Madhya Pradesh	27.9	24.0	20.4	11.4	5.6	10.7	0.0	100.0	4.8
Uttar Pradesh	28.2	22.0	15.9	13.8	8.9	11.2	0.1	100.0	5.0
<b>East</b>									
Bihar	36.8	19.7	14.2	9.7	10.4	9.2	0.0	100.0	3.6
Orissa	24.0	24.8	20.8	13.2	8.5	8.6	0.0	100.0	5.1
West Bengal	24.0	29.0	16.7	12.5	7.6	10.2	0.0	100.0	4.7
<b>Northeast</b>									
Arunachal Pradesh	27.0	26.6	16.5	13.2	7.4	9.2	0.1	100.0	4.4
Assam	25.4	27.2	15.7	15.8	6.9	8.9	0.1	100.0	4.7
Manipur	20.3	15.0	14.7	20.5	12.3	17.3	0.0	100.0	8.0
Meghalaya	28.3	35.1	14.0	11.2	5.5	5.8	0.1	100.0	3.2
Mizoram	6.4	31.9	24.4	19.7	7.6	9.9	0.1	100.0	6.4
Nagaland	19.4	27.6	20.3	15.3	8.7	8.5	0.1	100.0	5.4
Sikkim	20.7	32.0	20.2	11.2	7.2	8.6	0.1	100.0	4.7
<b>West</b>									
Goa	11.3	19.3	17.4	15.8	17.7	18.5	0.1	100.0	8.3
Gujarat	23.3	18.3	20.3	13.4	12.2	12.4	0.0	100.0	6.3
Maharashtra	17.3	21.6	19.0	16.0	12.8	13.3	0.0	100.0	7.1
<b>South</b>									
Andhra Pradesh	33.1	18.1	19.8	8.9	10.5	9.6	0.0	100.0	4.9
Karnataka	25.7	17.6	19.6	10.9	12.8	13.4	0.0	100.0	6.0
Kerala	7.2	18.4	23.4	17.4	21.2	12.4	0.0	100.0	8.1
Tamil Nadu	20.3	15.2	24.2	16.4	12.8	11.0	0.0	100.0	6.4

The states with the highest literacy rates for males are the same states that have the highest literacy rates for females (Mizoram, Kerala, Delhi, and Goa). Literacy rates for males are lowest in Bihar (63 percent), Andhra Pradesh (67 percent), and Jammu and Kashmir (69 percent). In every state, the percentage of the population that is literate is higher for males than for females, and a higher percentage of males than females have completed at least high school. The literacy gap between males and females is highest in Rajasthan and Uttar Pradesh, and the differences are least pronounced in Mizoram, Meghalaya, and Kerala.



Table 2.8 Educational level of the household population by state (contd.)

Percent distribution of the *de facto* household population age 6 and above by literacy and level of education, and median number of completed years of schooling, according to sex and state, India, 1998–99

State	Educational level							Total percent	Median number of years of schooling
	Illiterate	Literate, < primary school complete	Primary school complete	Middle school complete	High school complete	Higher secondary complete and above	Missing		
<b>FEMALE</b>									
<b>India</b>	48.6	17.1	14.5	8.1	6.0	5.6	0.0	100.0	1.6
<b>North</b>									
Delhi	21.7	15.3	17.6	12.3	12.4	20.6	0.0	100.0	7.0
Haryana	42.7	17.4	16.5	8.4	7.8	7.2	0.0	100.0	2.4
Himachal Pradesh	31.3	16.0	21.7	12.1	11.8	7.1	0.0	100.0	5.2
Jammu & Kashmir	55.3	12.1	11.6	10.8	5.6	4.7	0.0	100.0	0.0
Punjab	35.1	14.7	17.3	9.5	13.3	10.1	0.0	100.0	5.0
Rajasthan	62.9	15.7	9.9	5.3	3.2	2.9	0.0	100.0	0.0
<b>Central</b>									
Madhya Pradesh	55.5	18.7	12.7	5.6	2.7	4.8	0.0	100.0	0.0
Uttar Pradesh	57.3	16.2	11.4	6.3	3.6	5.1	0.1	100.0	0.0
<b>East</b>									
Bihar	65.2	14.5	9.3	4.8	4.1	2.0	0.0	100.0	0.0
Orissa	48.7	20.4	15.8	7.8	4.1	3.2	0.0	100.0	1.2
West Bengal	42.6	26.4	13.9	8.4	4.1	4.6	0.0	100.0	2.1
<b>Northeast</b>									
Arunachal Pradesh	43.0	22.0	14.5	11.3	5.2	4.0	0.1	100.0	2.1
Assam	40.9	24.0	12.5	13.7	4.9	3.8	0.2	100.0	2.5
Manipur	41.3	13.1	11.6	15.5	7.4	11.0	0.0	100.0	4.3
Meghalaya	33.2	35.9	13.0	9.4	4.6	3.9	0.1	100.0	2.3
Mizoram	10.6	36.3	21.7	17.9	7.5	6.0	0.1	100.0	5.5
Nagaland	31.7	26.3	19.1	13.2	5.4	4.3	0.0	100.0	3.7
Sikkim	35.6	26.4	18.0	10.3	5.2	4.5	0.0	100.0	3.3
<b>West</b>									
Goa	25.2	17.6	15.8	13.5	13.6	14.2	0.1	100.0	6.7
Gujarat	46.4	13.7	16.5	8.4	7.0	8.1	0.0	100.0	3.2
Maharashtra	38.6	18.1	17.8	10.8	7.9	6.9	0.0	100.0	4.1
<b>South</b>									
Andhra Pradesh	54.0	15.2	16.3	5.4	5.5	3.6	0.0	100.0	0.0
Karnataka	44.5	15.1	16.6	7.9	8.9	7.0	0.0	100.0	3.2
Kerala	14.9	16.9	21.4	16.0	18.5	12.3	0.0	100.0	7.6
Tamil Nadu	41.7	12.6	19.4	12.5	7.2	6.5	0.1	100.0	4.5

The median years of schooling for males and females also vary substantially over the states. All states in the West Region, all states in the South Region except Andhra Pradesh, and all states in the North Region except Rajasthan have median years of schooling above the national average for males. In the Central and East Regions, all states are below the national average. Among the northeastern states, only Manipur and Mizoram have a median number of years of schooling higher than the national average. For females, the median number of years of schooling ranges from a high of 7–8 years in Kerala, Delhi, and Goa to a low of zero years in six states where the majority of women have never been to school.

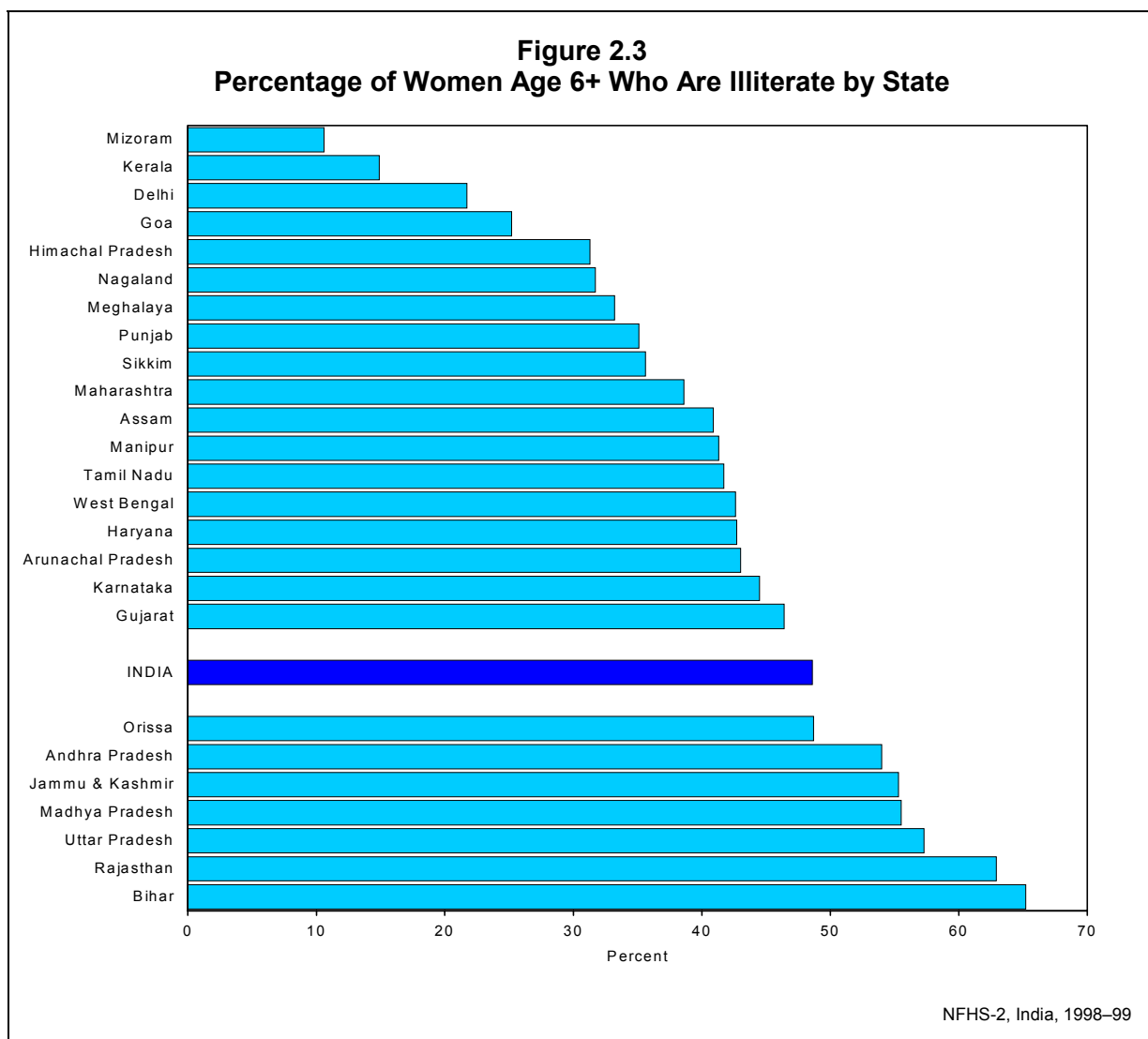


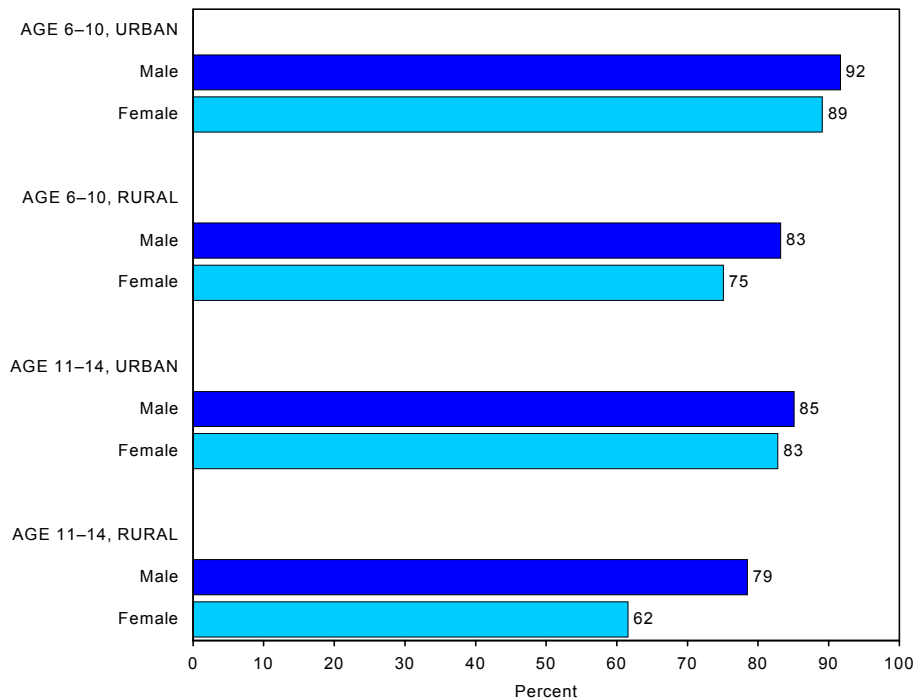
Table 2.9 and Figure 2.4 show school attendance rates for the school-age household population by age, sex, and residence in different states. In the country as a whole, 79 percent of children age 6–14 are attending school, up from 68 percent in NFHS-1. The attendance rate drops off sharply to 49 percent at age 15–17. For the age group 6–17, the attendance rate is 78 percent for males, 66 percent for females, and 72 percent for India as a whole. In urban areas, attendance rates for males and females differ by less than 5 percentage points for every age group. In rural areas, however, attendance rates are considerably higher for males than for females at every age, and the gap widens with increasing age. For both males and females, school attendance rates are much higher in urban areas than in rural areas in every age group.

School attendance at age 6–17 years is more than 90 percent in Himachal Pradesh and Kerala, and 85–90 percent in Goa, Delhi, Manipur, Mizoram, and Punjab. Overall, school attendance is lowest in Bihar (only 60 percent), and it is also 70 percent or lower in the Central Region, Rajasthan, Gujarat, and Andhra Pradesh. Generally, the lower the overall attendance rate, the higher the difference in children’s school attendance by residence and sex.

Table 2.9 School attendance by state									
Percentage of the household population age 6–17 years attending school by sex, residence, age, and state, India, 1998–99									
State	Male			Female			Total		
	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
<b>India</b>									
<b>Age</b>									
6–10 years	91.7	83.2	85.2	89.1	75.1	78.3	90.4	79.3	81.9
11–14 years	85.1	78.5	80.2	82.8	61.6	67.0	84.0	70.4	73.9
15–17 years	65.3	54.8	57.7	60.5	32.8	40.3	63.0	44.0	49.3
6–14 years	88.7	81.4	83.1	86.3	69.7	73.7	87.6	75.7	78.6
6–17 years	83.0	75.8	77.6	80.0	61.7	66.2	81.5	69.0	72.1
<b>North</b>									
Delhi	86.0	89.2	86.2	87.6	83.2	87.2	86.7	86.2	86.7
Haryana	87.1	85.4	85.9	86.1	74.7	77.8	86.7	80.5	82.2
Himachal Pradesh	96.4	95.4	95.5	96.3	92.8	93.0	96.3	94.1	94.3
Jammu & Kashmir	83.0	85.8	85.3	85.2	67.6	70.4	84.0	76.6	77.8
Punjab	93.0	84.1	86.7	92.7	78.1	82.7	92.8	81.5	84.9
Rajasthan	83.9	80.4	81.3	73.5	49.9	55.6	79.0	66.0	69.1
<b>Central</b>									
Madhya Pradesh	84.0	73.1	75.9	77.9	58.0	62.8	81.2	65.7	69.6
Uttar Pradesh	77.7	77.3	77.3	77.0	57.3	61.4	77.3	68.0	69.9
<b>East</b>									
Bihar	79.1	66.8	68.2	72.1	47.5	50.5	75.5	57.4	59.6
Orissa	78.2	77.1	77.2	75.4	65.8	66.8	76.9	71.5	72.1
West Bengal	78.5	72.5	73.7	76.1	65.9	68.0	77.3	69.3	70.9
<b>Northeast</b>									
Arunachal Pradesh	96.7	82.3	84.2	87.3	74.3	75.9	92.2	78.3	80.1
Assam	86.8	73.3	74.2	81.1	69.0	69.9	83.8	71.2	72.1
Manipur	91.8	87.8	89.1	89.3	82.0	84.4	90.5	84.7	86.6
Meghalaya	91.4	75.3	78.5	91.3	76.8	79.9	91.3	76.0	79.2
Mizoram	92.6	78.6	85.5	89.8	79.8	85.3	91.0	79.2	85.4
Nagaland	87.3	84.5	85.1	84.8	78.0	79.4	86.0	81.1	82.2
Sikkim	88.0	82.7	83.2	73.4	83.6	82.6	80.6	83.2	82.9
<b>West</b>									
Goa	91.2	88.5	89.6	87.2	86.5	86.8	89.2	87.5	88.1
Gujarat	82.8	69.6	74.8	73.4	56.7	63.1	78.3	63.2	69.1
Maharashtra	86.3	82.6	84.1	84.6	75.7	79.1	85.5	79.3	81.8
<b>South</b>									
Andhra Pradesh	80.1	71.3	73.5	78.5	56.0	61.5	79.4	63.9	67.7
Karnataka	81.9	71.4	74.9	79.7	62.4	68.0	80.8	66.9	71.4
Kerala	95.6	89.7	91.0	94.5	89.8	90.8	95.0	89.8	90.9
Tamil Nadu	84.4	81.6	82.6	84.7	73.3	76.9	84.5	77.4	79.7

Fifty percent of school-age girls in Bihar are not attending school. School attendance for school-age girls is also low in Rajasthan (56 percent), Uttar Pradesh (61 percent), Andhra Pradesh (62 percent), and Madhya Pradesh and Gujarat (63 percent each). Among females age 6–14 years, less than three-quarters attend school in 5 states compared with 11 states in NFHS-1. Similarly, for males age 6–14 years, less than 75 percent attend school only in Bihar, whereas there were eight such states in NFHS-1 (data not shown).

**Figure 2.4**  
**School Attendance by Age, Sex, and Residence**



NFHS-2, India, 1998-99

Table 2.10 shows reasons for children never attending school or not currently attending school. For both boys and girls, the cost of schooling is cited most often as the main reason for never attending school. This reason is mentioned in one-quarter of cases for both boys and girls. This reason is almost twice as likely to be mentioned for children never attending school as for children not currently attending school. The most mentioned reason for not currently attending school is that the child is not interested in studies, which was cited for 41 percent of boys and 26 percent of girls. A lack of interest in school is also frequently given as a reason for children (especially boys) never attending school. Not surprisingly, the need for children to work in the household is mentioned more for girls than for boys, and the need for children to work on the family farm, in the family business, or outside the home for payment is more frequently mentioned for boys than for girls. Education is not considered necessary for 13 percent of girls and 8 percent of boys who never attended school. The lack of accessibility of schools ('school too far away' or 'transport not available') is mentioned infrequently for both boys and girls. The pattern of the reasons for not attending school for boys and girls is similar in urban and rural areas with the exception that the cost of schooling is cited more often in urban areas and the distance from school and the need for work (in the household, on a family farm, or in a family business) are mentioned slightly less often in urban areas.

Table 2.10 Reasons for children not attending school						
Percent distribution of children age 6–17 years who never attended school by the main reason for never attending school and percent distribution of children age 6–17 years who have dropped out of school by the main reason for not currently attending school, according to residence and sex, India, 1998–99						
Reason	Urban		Rural		Total	
	Male	Female	Male	Female	Male	Female
<b>Main reason for never attending school<sup>1</sup></b>						
School too far away	1.3	2.8	3.8	4.5	3.5	4.3
Transport not available	0.2	0.6	0.6	0.7	0.6	0.7
Education not considered necessary	6.1	12.9	7.8	13.1	7.6	13.1
Required for household work	4.6	9.6	6.7	15.5	6.4	14.9
Required for work on farm/family business	2.8	1.2	5.2	3.4	4.9	3.2
Required for outside work for payment in cash or kind	4.6	2.9	4.3	2.6	4.4	2.6
Costs too much	28.5	30.1	25.8	23.8	26.2	24.5
No proper school facilities for girls	0.0	1.1	0.0	2.6	0.0	2.5
Required for care of siblings	0.6	1.7	0.9	3.0	0.9	2.9
Not interested in studies	26.5	15.7	25.7	15.9	25.8	15.8
Other	21.9	18.6	17.0	12.8	17.6	13.4
Don't know	3.0	2.8	2.0	2.1	2.2	2.2
Total percent	100.0	100.0	100.0	100.0	100.0	100.0
Number of children	1,107	1,438	7,081	12,614	8,188	14,052
<b>Main reason for not currently attending school<sup>2</sup></b>						
School too far away	0.2	1.0	1.0	5.9	0.8	4.8
Transport not available	0.1	0.2	0.4	1.6	0.3	1.3
Further education not considered necessary	2.4	5.4	2.3	4.3	2.4	4.5
Required for household work	5.7	14.7	8.7	17.3	8.0	16.7
Required for work on farm/family business	4.7	1.6	9.2	2.9	8.0	2.6
Required for outside work for payment in cash or kind	11.3	3.0	9.9	3.7	10.3	3.5
Costs too much	15.2	17.0	13.3	11.4	13.8	12.6
No proper school facilities for girls	0.0	1.2	0.0	3.5	0.0	3.0
Required for care of siblings	0.2	1.5	0.6	2.3	0.5	2.2
Not interested in studies	42.5	30.2	40.0	24.8	40.6	26.0
Repeated failures	6.0	6.1	5.3	3.7	5.5	4.2
Got married	0.1	4.9	0.2	8.5	0.2	7.7
Other	5.8	8.2	5.3	6.2	5.5	6.6
Don't know	5.7	5.1	3.8	4.0	4.2	4.2
Total percent	100.0	100.0	100.0	100.0	100.0	100.0
Number of children	1,852	1,747	5,475	6,121	7,327	7,868
<sup>1</sup> For children who have never attended school						
<sup>2</sup> For children who have dropped out of school						

## 2.5 Housing Characteristics

Table 2.11 provides information on housing characteristics by residence. Overall, three in every five households in India have electricity (up from one in two households in NFHS-1). The proportion of households with electricity is 91 percent in urban areas and 48 percent in rural areas, an increase of 10 and 24 percent, respectively, over the NFHS-1 results.

Table 2.11 Housing characteristics			
Percent distribution of households by housing characteristics, according to residence, India, 1998–99			
Housing characteristic	Urban	Rural	Total
<b>Electricity</b>			
Yes	91.3	48.1	60.1
No	8.7	51.9	39.9
Total percent	100.0	100.0	100.0
<b>Source of drinking water</b>			
Piped	74.5	25.0	38.7
Hand pump	18.1	47.3	39.2
Well water	6.0	23.5	18.7
Surface water	0.4	3.5	2.6
Other	1.0	0.7	0.8
Total percent	100.0	100.0	100.0
<b>Time to get drinking water</b>			
Percentage < 15 minutes	86.4	69.3	74.1
Median time (minutes)	0.0	4.9	4.3
<b>Method of drinking water purification<sup>1</sup></b>			
Strains water by cloth	25.1	16.1	18.6
Uses alum	1.4	1.2	1.2
Uses water filter	14.8	2.4	5.8
Boils water	13.6	6.1	8.2
Uses electronic purifier	1.2	0.1	0.4
Uses other method	0.6	0.8	0.7
Does not purify water	50.4	75.3	68.4
<b>Sanitation facility</b>			
Flush toilet	63.9	8.8	24.0
Pit toilet/latrine	16.8	10.0	11.9
Other	0.0	0.1	0.1
No facility	19.3	81.1	64.0
Total percent	100.0	100.0	100.0
<b>Main type of fuel used for cooking</b>			
Wood	23.1	73.1	59.3
Crop residues	0.5	8.1	6.0
Dung cakes	1.4	8.4	6.5
Coal/coke/lignite/charcoal	4.9	1.7	2.6
Kerosene	21.5	2.7	7.9
Electricity	0.8	0.2	0.4
Liquid petroleum gas	46.9	5.1	16.7
Biogas	0.6	0.5	0.5
Other	0.2	0.2	0.2
Total percent	100.0	100.0	100.0
<b>Type of house</b>			
<i>Kachha</i>	9.4	41.4	32.5
<i>Semi-pucca</i>	24.4	39.5	35.3
<i>Pucca</i>	66.0	19.0	32.0
Missing	0.2	0.2	0.2
Total percent	100.0	100.0	100.0
<b>Persons per room</b>			
< 3	68.6	60.2	62.5
3–4	19.5	24.4	23.1
5–6	8.3	10.7	10.0
7+	3.5	4.5	4.2
Missing	0.1	0.1	0.1
Total percent	100.0	100.0	100.0
Mean number of persons per room	2.5	2.8	2.7
Number of households	25,243	65,953	91,196

<sup>1</sup>Totals add to more than 100.0 because households may use more than one method of purification.

Water sources and sanitation facilities have an important influence on the health of household members, especially children. NFHS-1 and NFHS-2 included questions on sources of drinking water and types of sanitation facilities. NFHS-2 found that 39 percent of households in India use piped drinking water (up from 31 percent in NFHS-1), the same proportion drink water from hand pumps (also up from 31 percent in NFHS-1), 19 percent drink water from wells (down from 26 percent in NFHS-1), and 3 percent drink surface water (down from 11 percent in NFHS-1). As in the case of electricity, there are large urban-rural differences in sources of drinking water. Three-quarters of households in urban areas use piped drinking water compared with only one-quarter in rural areas. The median time to get drinking water is five minutes in rural areas, whereas in urban areas the majority of households do not have any travel time to their source of drinking water. Only one-third of households in India purify water by any method (half of households in urban areas and one-quarter of households in rural areas). The most popular methods of water purification are straining and boiling water. Water filters are used by 30 percent of urban households that purified their drinking water.

Regarding sanitation facilities, only 24 percent of households have a flush toilet that uses either piped water or bucket water for flushing (up slightly from 22 percent in NFHS-1), 12 percent have a pit toilet or latrine, and 64 percent have no facility. Again there are large urban-rural differences: 64 percent of urban households have a flush toilet compared with only 9 percent of rural households. A large majority (81 percent) of rural households have no toilet facility at all.

Several types of fuel are used for cooking in India, with wood as the most common type. Overall, 59 percent of households rely mainly on wood, 17 percent on liquid petroleum gas, 13 percent on either crop residues or dung cakes, 8 percent on kerosene, and the rest on other fuels. Sixty-eight percent of urban households rely mainly on liquid petroleum gas or kerosene, while 73 percent of rural households rely mainly on wood.

Regarding type of house construction, one-third of households in India live in houses that are *kachha* (made from mud, thatch, or other low-quality materials), one-third live in semi-*pucca* houses (using partly low-quality and partly high-quality materials), and one-third live in *pucca* houses (made with high-quality materials throughout, including the roof, walls, and floor). By residence, 66 percent of households in urban areas live in *pucca* houses compared with 19 percent of households in rural areas.

Crowded housing conditions may affect health as well as the quality of life. Thirty-seven percent of households live in houses with three or more persons per room. The mean number of persons per room is 2.5 in urban areas, 2.8 in rural areas, and 2.7 overall (only a slight decrease from 2.8 persons per room in NFHS-1).

Table 2.12 presents an interstate comparison of housing characteristics. The percentage of households with electricity is lowest in Bihar (18 percent), Assam (26 percent), Orissa (34 percent), and West Bengal and Uttar Pradesh (37 percent each). At least 90 percent of households have electricity in Delhi (98 percent), Himachal Pradesh (97 percent), Punjab (96 percent), Goa (94 percent), and Jammu and Kashmir (90 percent). In addition, over three-quarters of households have electricity in Haryana, Gujarat, Mizoram, Sikkim, Tamil Nadu, and Manipur. More than 60 percent of households use piped water or water from a hand pump for drinking in every state except Kerala and a few states in the Northeast Region. In Manipur,

Table 2.12 Housing characteristics by state

Selected housing characteristics by state, India, 1998–99

State	Percentage of households:					Mean number of persons per room
	With electricity	With drinking water that is piped or from a hand pump	With a toilet or latrine facility	Using biomass fuel for cooking	Living in a <i>pucca</i> house	
<b>India</b>	60.1	77.9	35.9	71.7	32.0	2.7
<b>North</b>						
Delhi	97.7	98.7	94.4	3.6	88.2	2.2
Haryana	89.1	88.0	39.0	66.9	46.7	2.4
Himachal Pradesh	97.2	77.4	26.7	64.0	28.7	1.8
Jammu & Kashmir	90.1	70.6	51.0	65.8	36.1	2.2
Punjab	95.5	98.9	51.4	60.6	52.1	2.1
Rajasthan	64.4	69.8	27.8	81.0	41.4	3.0
<b>Central</b>						
Madhya Pradesh	68.1	63.5	22.2	79.3	19.2	2.9
Uttar Pradesh	36.6	85.6	26.5	82.8	24.8	3.1
<b>East</b>						
Bihar	18.2	75.4	16.8	85.9	15.5	2.9
Orissa	33.8	65.3	13.5	86.8	14.8	2.4
West Bengal	36.7	89.3	44.8	65.7	32.8	2.7
<b>Northeast</b>						
Arunachal Pradesh	68.9	80.7	73.0	80.8	14.2	2.2
Assam	26.4	60.1	63.0	87.1	10.9	2.1
Manipur	75.3	48.9	92.0	69.2	7.1	2.1
Meghalaya	41.2	42.1	52.0	83.5	14.5	2.0
Mizoram	84.1	63.2	97.7	57.4	16.2	2.6
Nagaland	56.3	40.5	74.3	86.1	18.1	1.6
Sikkim	80.7	84.6	72.7	63.2	50.6	2.0
<b>West</b>						
Goa	93.5	61.8	58.9	41.4	51.0	1.6
Gujarat	84.3	84.5	44.9	54.5	45.2	2.7
Maharashtra	82.1	81.9	45.9	51.9	28.3	3.0
<b>South</b>						
Andhra Pradesh	74.4	78.5	27.3	74.1	39.9	2.9
Karnataka	80.9	87.0	38.6	67.8	41.2	2.5
Kerala	71.8	19.9	85.2	81.7	79.8	1.3
Tamil Nadu	78.8	85.0	34.0	66.5	27.6	2.2

Meghalaya, and Nagaland, piped water or water from a hand pump is used for drinking by 41–49 percent of households, and less than 20 percent of households use these water sources in Kerala. The majority of households in Kerala obtain their drinking water from wells.

Most of the states in India have inadequate toilet facilities. There are only seven states where more than 70 percent of households have any type of toilet facility. In order of decreasing proportions, these states are Mizoram, Delhi, Manipur, Kerala, Nagaland, Arunachal Pradesh, and Sikkim. Less than 30 percent of households have a toilet or latrine facility in Central India and in Orissa, Bihar, Himachal Pradesh, Andhra Pradesh, and Rajasthan. In Delhi, only 4 percent of households use biomass fuel for cooking. In every other state except Goa, a majority of households use biomass fuel for cooking.



Table 2.13 Household ownership of agricultural land, house, and livestock			
Percent distribution of households owning agricultural land and percentage owning a house and livestock by residence, India, 1998–99			
Asset	Urban	Rural	Total
No agricultural land	80.0	38.6	50.1
<b>Irrigated land only</b>			
< 1 acre	1.6	9.4	7.2
1–5 acres	5.4	16.1	13.2
6+ acres	2.2	4.2	3.6
<b>Nonirrigated land only</b>			
< 1 acre	1.5	5.1	4.1
1–5 acres	4.2	13.2	10.7
6+ acres	1.4	3.6	3.0
<b>Both irrigated and nonirrigated land</b>			
< 1 acre	0.2	0.8	0.6
1–5 acres	0.9	5.0	3.9
6+ acres	1.1	3.4	2.8
Missing	1.4	0.6	0.8
Total percent	100.0	100.0	100.0
Percentage owning a house	78.2	94.8	90.2
Percentage owning livestock	13.7	59.3	46.7
Number of households	25,243	65,953	91,196

The percentage of households living in *pucca* houses is quite low in most states. In Orissa, Bihar, Madhya Pradesh, and all the states in the Northeast Region except Sikkim, less than 20 percent of households live in *pucca* houses. Delhi (88 percent) and Kerala (80 percent) are the only states in which more than 60 percent of households live in houses classified as *pucca*. Households are least crowded in Kerala (1.3 persons per room), followed by Goa and Nagaland (where the average number of persons per room is 1.6). Households in Uttar Pradesh, Rajasthan, Maharashtra, Andhra Pradesh, Bihar, and Madhya Pradesh have an average of around 3 persons per room, which puts them in the most crowded category.

Table 2.13 gives a number of measures related to the socioeconomic status of the household (ownership of land, a house, and livestock). Overall, half of households in India do not own any agricultural land. Thirty-nine percent of households in rural areas do not own agricultural land (up slightly from 36 percent in NFHS-1), compared with 80 percent of households in urban areas. In rural areas, among those who own land, 64 percent have at least some irrigated land. The proportion of households owning a house is 78 percent in urban areas, 95 percent in rural areas, and 90 percent overall. The proportion of households owning livestock is 14 percent in urban areas, 59 percent in rural areas, and 47 percent overall.

The possession of durable goods is another indicator of a household's socioeconomic level, although these goods may also have other benefits. For example, having access to a radio or television may expose household members to innovative ideas or important information about health and family welfare; a refrigerator prolongs the wholesomeness of food; and a means of transportation allows greater access to many services outside the local area. Table 2.14 shows that the majority of Indian households have a cot or a bed (81 percent) or a clock or watch (67

Table 2.14 Household ownership of durable goods and standard of living			
Percentage of households owning selected durable goods and percent distribution of households by type of kitchenware and the standard of living index, according to residence, India, 1998–99			
Asset	Urban	Rural	Total
<b>Durable goods</b>			
Mattress	71.7	38.1	47.4
Pressure cooker	65.2	16.0	29.6
Chair	71.3	35.6	45.5
Cot/bed	86.1	79.4	81.2
Table	64.9	30.0	39.6
Clock/watch	90.1	57.5	66.5
Electric fan	82.2	31.4	45.5
Bicycle	53.5	45.7	47.8
Radio/transistor	53.2	32.2	38.0
Sewing machine	35.5	11.9	18.4
Telephone	20.1	2.6	7.4
Refrigerator	28.8	3.7	10.6
Television (black and white)	44.8	17.0	24.7
Television (colour)	27.3	3.5	10.1
Moped/scooter/motorcycle	25.0	6.0	11.2
Car	4.4	0.6	1.6
Water pump	9.3	8.2	8.5
Bullock cart	1.4	9.4	7.2
Thresher	0.7	2.5	2.0
Tractor	0.8	2.0	1.6
None of the above	1.9	7.3	5.8
<b>Main type of kitchenware used</b>			
Clay	0.5	1.1	0.9
Aluminium	29.8	45.5	41.1
Cast iron	0.2	0.3	0.3
Brass/copper	0.6	1.2	1.0
Stainless steel	68.9	51.9	56.6
Total percent	100.0	100.0	100.0
<b>Standard of living index</b>			
Low	14.3	44.7	36.3
Medium	45.2	44.0	44.3
High	39.0	10.3	18.2
Missing	1.5	1.0	1.2
Total percent	100.0	100.0	100.0
Number of households	25,243	65,953	91,196

percent). Other durable goods found in many households are bicycles (48 percent), mattresses (47 percent), chairs or electric fans (46 percent each), tables (40 percent), radios (38 percent), pressure cookers (30 percent), and black and white televisions (25 percent). A small proportion of households own sewing machines (18 percent), motorcycles, scooters, or mopeds (11 percent), refrigerators (11 percent), colour televisions (10 percent), water pumps (9 percent), telephones (7 percent), or cars (2 percent). Urban households are much more likely than rural households to own each of these durable goods. In rural areas, 9 percent of households own a bullock cart, 3 percent own a thresher, and 2 percent own a tractor. Six percent of households in India do not own any of the above durable goods. The majority of households (57 percent) use stainless steel kitchenware and two in every five households use aluminium kitchenware.

Table 2.14 shows a summary household measure called the standard of living index (SLI), which is calculated by adding the following scores:

*House type*: 4 for *pucca*, 2 for *semi-pucca*, 0 for *kachha*;

*Toilet facility*: 4 for own flush toilet, 2 for public or shared flush toilet or own pit toilet, 1 for shared or public pit toilet, 0 for no facility;

*Source of lighting*: 2 for electricity, 1 for kerosene, gas, or oil, 0 for other source of lighting;

*Main fuel for cooking*: 2 for electricity, liquid petroleum gas, or biogas, 1 for coal, charcoal, or kerosene, 0 for other fuel;

*Source of drinking water*: 2 for pipe, hand pump, or well in residence/yard/plot, 1 for public tap, hand pump, or well, 0 for other water source;

*Separate room for cooking*: 1 for yes, 0 for no;

*Ownership of house*: 2 for yes, 0 for no;

*Ownership of agricultural land*: 4 for 5 acres or more, 3 for 2.0–4.9 acres, 2 for less than 2 acres or acreage not known, 0 for no agricultural land;

*Ownership of irrigated land*: 2 if household owns at least some irrigated land, 0 for no irrigated land;

*Ownership of livestock*: 2 if owns livestock, 0 if does not own livestock;

*Ownership of durable goods*: 4 each for a car or tractor, 3 each for a moped/scooter/motorcycle, telephone, refrigerator, or colour television, 2 each for a bicycle, electric fan, radio/transistor, sewing machine, black and white television, water pump, bullock cart, or thresher, 1 each for a mattress, pressure cooker, chair, cot/bed, table, or clock/watch.

Index scores range from 0–14 for a low SLI to 15–24 for a medium SLI and 25–67 for a high SLI. By this measure, more than one-third (36 percent) of Indian households have a low standard of living, 44 percent have a medium standard of living, and 18 percent have a high standard of living. The proportion with a low standard of living is much higher in rural areas than in urban areas (45 and 14 percent, respectively), and the proportion with a high standard of living is much higher in urban areas than in rural areas (39 and 10 percent, respectively). The proportion with a medium standard of living is almost the same in urban and rural areas.

## **2.6 Lifestyle Indicators**

The NFHS-2 Household Questionnaire asked about certain aspects of the lifestyle of household members. Table 2.15 shows the percentages of men and women age 15 and above who chew *paan masala* or tobacco, drink alcohol, or smoke. These lifestyle indicators are of considerable interest because the use of *paan masala*, tobacco, and alcohol all have detrimental effects on health.

Table 2.15 Lifestyle indicators					
Percentage of usual household members age 15 and above who chew <i>paan masala</i> or tobacco, drink alcohol, currently smoke, or have ever smoked by selected background characteristics and sex, India, 1998–99					
Background characteristic	Chew <i>paan masala</i> or tobacco	Drink alcohol	Currently smoke	Ever smoked <sup>1</sup>	Number of household members
<b>MALE</b>					
<b>Age</b>					
15–19	9.4	2.4	4.4	4.8	26,297
20–24	20.3	7.7	13.7	14.6	21,461
25–29	28.0	14.9	25.1	27.3	19,641
30–39	34.1	23.6	37.6	41.2	33,554
40–49	35.6	26.1	45.0	49.9	24,151
50–59	35.4	23.9	45.3	52.3	15,195
60+	37.6	18.6	38.2	46.6	20,571
<b>Residence</b>					
Urban	20.8	12.4	21.4	24.5	46,245
Rural	31.3	18.5	32.6	36.5	114,626
<b>Education</b>					
Illiterate	38.0	26.7	44.8	49.6	44,661
Literate, < middle school complete	31.5	17.8	33.1	37.5	43,328
Middle school complete	23.2	11.8	21.2	23.7	25,376
High school complete and above	18.9	8.9	15.9	18.5	47,485
<b>Standard of living index</b>					
Low	37.6	24.8	39.4	43.5	46,887
Medium	27.7	15.0	29.1	32.7	76,510
High	17.2	9.8	16.9	20.2	35,463
Total	28.3	16.7	29.4	33.1	160,871
<b>FEMALE</b>					
<b>Age</b>					
15–19	2.1	0.6	0.2	0.3	24,602
20–24	4.3	1.1	0.6	0.6	22,288
25–29	8.0	2.0	1.1	1.2	20,761
30–39	12.3	2.5	2.2	2.4	32,127
40–49	18.6	3.1	4.0	4.5	21,253
50–59	22.8	3.8	5.7	6.4	15,108
60+	25.0	3.1	5.3	6.0	18,588
<b>Residence</b>					
Urban	8.8	0.5	0.9	1.0	43,173
Rural	13.8	2.9	3.1	3.4	111,554
<b>Education</b>					
Illiterate	17.4	3.5	4.0	4.5	86,359
Literate, < middle school complete	10.2	0.8	0.8	0.9	30,563
Middle school complete	3.8	0.5	0.3	0.3	14,217
High school complete and above	1.8	0.2	0.1	0.2	23,529
<b>Standard of living index</b>					
Low	18.7	4.4	4.2	4.7	47,225
Medium	11.7	1.7	2.2	2.4	71,497
High	5.2	0.3	0.6	0.8	34,144
Total	12.4	2.2	2.5	2.8	154,726
Total male and female	20.5	9.6	16.2	18.2	315,598
Note: Total includes 23 males and 58 females with missing information on education and 2,012 males and 1,861 females with missing information on the standard of living index, who are not shown separately.					
<sup>1</sup> Includes household members who currently smoke					

The respondent to the Household Questionnaire reports on these lifestyle indicators for all persons in the household, and therefore the results should be interpreted with caution because the household respondent may not be aware of use that takes place outside the household environs. In addition, to the extent that social stigma may be attached to the use of some of the substances, underreporting is likely.

Twenty-one percent of persons age 15 and above are reported to chew *paan masala* or tobacco. This proportion rises from 9 percent of men and 2 percent of women at age 15–19 to 38 percent and 25 percent, respectively, at age 60 and above. Chewing of *paan masala* or tobacco for both men and women is about one and one-half times as common in rural areas as in urban areas. Chewing of *paan masala* or tobacco is inversely related with education. It is twice as high among illiterate men as among men who have completed at least high school. Chewing of *paan masala* or tobacco is rare among educated women, and it is much higher among men and women in households with a low standard of living than in households with a high standard of living.

Seventeen percent of men, but only 2 percent of women, age 15 and above are reported to drink alcohol. The proportion of men who drink alcohol rises with age up to age 40–49. The proportion of men who drink is one and one-half times as high in rural areas as in urban areas. Illiterate men are three times as likely to drink alcohol as men who have completed at least high school. Drinking alcohol by household members is negatively related to the household's standard of living.

Only 3 percent of women are reported to have ever smoked and to currently smoke. Among men age 15 and above, 29 percent currently smoke. The proportion of men who smoke rises from 4 percent at age 15–19 to 45 percent at age 40–59 and then falls to 38 percent at age 60 and above. As for chewing *paan masala* or tobacco and drinking alcohol, the proportion of men who smoke is one and one-half times as high in rural areas as in urban areas. It is much higher among illiterate than literate men, and more than twice as high among men with a low standard of living as among men with a high standard of living. Eighty-nine percent of men who ever smoked were still smokers at the time of the survey. The pattern of differentials for ever-smokers closely resembles the pattern for current smokers.

An interstate comparison of life style indicators is presented in Table 2.16. The percentage of men chewing *paan masala* or tobacco is quite low (7–10 percent) in Jammu and Kashmir, Goa, Himachal Pradesh, Haryana, Punjab, and Kerala. More than half of men in Mizoram, Arunachal Pradesh, and Bihar and 40–50 percent in Orissa, Assam, Nagaland, Madhya Pradesh, and Sikkim chew *paan masala* or tobacco. In the northeastern states, chewing *paan masala* or tobacco is also quite common among women, particularly in Mizoram where the proportion chewing *paan masala* or tobacco is the same for men and women. Outside of the Northeast Region, chewing *paan masala* or tobacco is most common for women in Orissa, Maharashtra, West Bengal, Karnataka, and Madhya Pradesh.

Table 2.16 Lifestyle indicators by state				
Percentage of usual household members age 15 and above who chew <i>paan masala</i> or tobacco, drink alcohol, currently smoke, or have ever smoked by sex and state, India, 1998–99				
State	Chew <i>paan masala</i> or tobacco	Drink alcohol	Currently smoke	Ever smoked <sup>1</sup>
<b>MALE</b>				
<b>India</b>	28.3	16.7	29.4	33.1
<b>North</b>				
Delhi	13.1	17.9	24.0	26.4
Haryana	8.0	20.7	40.6	42.4
Himachal Pradesh	7.9	24.2	38.8	42.3
Jammu & Kashmir	7.2	10.0	44.5	49.0
Punjab	9.3	28.3	13.9	15.8
Rajasthan	19.1	10.7	37.9	41.0
<b>Central</b>				
Madhya Pradesh	40.6	20.6	29.5	35.1
Uttar Pradesh	36.3	11.6	34.0	37.2
<b>East</b>				
Bihar	51.7	22.4	26.3	32.0
Orissa	49.5	19.2	25.4	29.4
West Bengal	23.3	11.0	39.6	43.1
<b>Northeast</b>				
Arunachal Pradesh	52.0	64.5	25.1	34.3
Assam	48.2	24.9	31.7	34.9
Manipur	34.4	30.5	35.2	39.2
Meghalaya	16.7	28.1	55.2	57.6
Mizoram	60.3	16.8	59.4	67.1
Nagaland	45.3	26.8	38.2	49.5
Sikkim	39.6	31.9	19.5	29.0
<b>West</b>				
Goa	7.7	28.7	17.8	23.5
Gujarat	24.6	6.6	25.5	29.1
Maharashtra	34.7	12.1	13.4	15.5
<b>South</b>				
Andhra Pradesh	10.8	26.1	35.7	39.0
Karnataka	13.9	16.4	26.0	29.6
Kerala	9.5	14.5	28.3	35.0
Tamil Nadu	13.0	20.5	27.0	29.8

Alcohol consumption is highest in Arunachal Pradesh, where 65 percent of men and 49 percent of women drink alcohol. There are only two other states, Sikkim and Assam, where more than 10 percent of women drink alcohol. In addition to Arunachal Pradesh, more than one-quarter of men drink alcohol in Sikkim, Manipur, Goa, Punjab, Meghalaya, Nagaland, and Andhra Pradesh. The lowest prevalence of alcohol consumption is in Gujarat, where there is a state ban on alcohol.

Table 2.16 Lifestyle indicators by state (contd.)				
Percentage of usual household members age 15 and above who chew <i>paan masala</i> or tobacco, drink alcohol, currently smoke, or have ever smoked by sex and state, India, 1998–99				
State	Chew <i>paan masala</i> or tobacco	Drink alcohol	Currently smoke	Ever smoked <sup>1</sup>
<b>FEMALE</b>				
<b>India</b>	12.4	2.2	2.5	2.8
<b>North</b>				
Delhi	2.5	0.1	1.8	1.9
Haryana	0.9	0.1	3.6	3.8
Himachal Pradesh	0.5	0.2	2.4	2.6
Jammu & Kashmir	0.9	0.3	8.5	10.2
Punjab	0.2	0.2	0.3	0.4
Rajasthan	3.9	0.2	4.3	4.4
<b>Central</b>				
Madhya Pradesh	14.8	3.4	0.9	1.1
Uttar Pradesh	11.4	0.2	3.1	3.5
<b>East</b>				
Bihar	6.9	3.3	6.4	7.2
Orissa	34.9	6.2	0.9	1.0
West Bengal	15.6	2.0	2.6	2.8
<b>Northeast</b>				
Arunachal Pradesh	33.2	48.9	5.4	7.2
Assam	24.9	11.1	2.7	3.1
Manipur	19.6	2.0	12.2	14.4
Meghalaya	27.6	3.1	6.8	7.0
Mizoram	60.7	0.4	22.1	29.3
Nagaland	16.5	2.6	2.5	3.7
Sikkim	18.9	17.1	8.3	11.8
<b>West</b>				
Goa	8.2	4.5	2.1	3.1
Gujarat	8.2	1.0	1.4	1.7
Maharashtra	18.5	0.5	0.2	0.2
<b>South</b>				
Andhra Pradesh	10.3	7.5	4.4	4.9
Karnataka	14.9	1.0	0.3	0.4
Kerala	10.5	0.2	0.4	0.6
Tamil Nadu	11.0	0.5	0.4	0.4

<sup>1</sup>Includes household members who currently smoke

More than half of men have ever smoked in Mizoram and Meghalaya, and 41–50 percent have ever smoked in Nagaland, Jammu and Kashmir, West Bengal, Haryana, Himachal Pradesh, and Rajasthan. Current smoking is also highest in these states. Less than 20 percent of men smoke in Maharashtra, Punjab, Goa, and Sikkim. In most states, around 90 percent of men who ever smoked currently smoke. In Mizoram, where the proportion of women who chew *paan masala* or tobacco is the highest, the proportions of women who have ever smoked and who currently smoke are also the highest. In a large majority of states, less than 5 percent of women smoke or have ever smoked. Between 5 and 15 percent of women currently smoke in Manipur, Jammu and Kashmir, Sikkim, Meghalaya, Bihar, and Arunachal Pradesh.

Table 2.17 Distance from the nearest health facility						
Percent distribution of ever-married rural women age 15–49 by distance from the nearest health facility, India, 1998–99						
Distance	Health facility					
	Primary Health Centre	Sub-centre	Either PHC or sub-centre	Hospital <sup>1</sup>	Dispensary/clinic	Any health facility
Within village	13.1	33.0	36.5	9.7	28.3	47.4
< 5 km	28.4	39.7	40.8	25.0	32.4	38.9
5–9 km	29.2	16.3	15.3	25.1	17.4	9.7
10+ km	28.8	9.6	7.0	40.0	21.7	3.9
Don't know/missing	0.5	1.4	0.3	0.2	0.2	0.2
Total percent	100.0	100.0	100.0	100.0	100.0	100.0
Median distance	4.9	1.3	1.0	6.7	2.4	0.0

Note: The category '< 5 km' excludes cases where the facility is within the village. When median distance is calculated, 'within village' cases and cases with a facility less than 1 km from the village are assigned a distance of zero.  
 PHC: Primary Health Centre  
<sup>1</sup>Includes community health centre, rural hospital, government hospital, and private hospital

## 2.7 Availability of Facilities and Services to the Rural Population

The NFHS-2 Village Questionnaire collected information from the *sarpanch*, other village officials, or other knowledgeable persons in the village on facilities and services in the village that can affect health and family planning. One important set of questions was on the distance of the village from various types of health facilities, including Primary Health Centres (PHCs), sub-centres, hospitals, and dispensaries or clinics. Table 2.17 summarizes findings on distance from a health facility. The unit of analysis is ever-married women age 15–49 who reside in rural areas. Thirteen percent of rural women live in a village with a Primary Health Centre, 33 percent live in a village with a sub-centre, and 37 percent live in a village with either a PHC or a sub-centre. The proportions who live in a village with other health facilities are 10 percent for hospitals and 28 percent for dispensaries or clinics. Nearly half of women (47 percent) live in a village that has some kind of health facility. Median distances from particular health facilities are 4.9 km for a Primary Health Centre, 1.3 km for a sub-centre, 6.7 km for a hospital, and 2.4 km for a dispensary or a clinic. Fourteen percent of rural women need to travel at least five kilometres to reach the nearest health facility.

Table 2.18 shows the proportion of residents (the *de jure* rural population) in rural India that live in villages which have various facilities and services. Eighty percent of rural residents live in villages that have a primary school, 45 percent live in villages with a middle school, and more than one-quarter (26 percent) live in villages that have a secondary school. Higher secondary schools are available in villages where 14 percent of the rural population live. Almost two-thirds of rural residents (64 percent) live in villages that have an *anganwadi*<sup>2</sup> (a nursery school for children age 3–6 years) and nearly one-quarter (24 percent) live in villages with an adult education centre. Forty-two percent of rural residents live in villages that have a private doctor and 59 percent live in villages with a traditional birth attendant.

<sup>2</sup>*Anganwadi* workers provide integrated child development services and may also engage in the promotion of family planning among parents of preschool age children.



Table 2.18 Availability of facilities and services			
Percentage of rural residents living in villages that have selected facilities and services, India, 1998–99			
Facility/service	Percentage of residents	Facility/service	Percentage of residents
Primary school	79.7	At least one village household has a telephone	61.0
Middle school	44.6	Mill/small-scale industry	24.8
Secondary school	26.3	Credit cooperative society	25.0
Higher secondary school	14.0	Agricultural cooperative society	27.2
College	2.8	Fishermen's cooperative society	5.5
<i>Anganwadi</i>	63.8	Milk cooperative society	21.8
Adult education centre	24.2	<i>Kirana</i> /general market shop	67.0
Primary Health Centre	12.9	Weekly market	23.1
Sub-centre	32.3	Fair price shop	61.1
Hospital <sup>1</sup>	9.6	<i>Paan</i> shop	57.6
Dispensary/clinic	28.3	Pharmacy/medical shop	25.6
Private doctor	41.9	<i>Mahila mandal</i>	33.7
Visiting doctor	31.4	Youth club	38.8
Village health guide	33.0	Community centre	19.9
Traditional birth attendant	58.9	Community television set	17.7
Mobile health unit	12.1	Cable connection	28.3
Electricity	81.3	Integrated Rural Development Programme (IRDP)	53.6
Bank	20.7	National Rural Employment Programme (NREP)	13.3
Post office	43.2	Training Rural Youth for Self-Employment (TRYSEM)	22.2
Telegraph office	10.9	Employment Guarantee Scheme (EGS)	9.5
STD (Subscriber Trunk Dialling) phone booth	13.7	Development of Women and Children of Rural Areas (DWACRA)	28.4
		Indira Awas Yojana (IAY)	59.1
		Sanjay Gandhi Niradhar Yojana (SGNY)	27.4
		Total population	360,764

Note: Table is based on the *de jure* population.  
<sup>1</sup>Includes community health centre, rural hospital, government hospital, and private hospital

Eighty-one percent of rural residents live in villages that are at least partly electrified. Although only 14 percent of rural residents live in villages with an STD booth (for telephoning within India), 61 percent live in villages that have at least one household with a private telephone. Almost one-fifth of rural Indians live in villages that have a community television set, and 28 percent of rural residents live in villages that have cable television service, providing further evidence that the exposure to electronic mass media is limited in rural India. Slightly more than one-third live in villages with a *mahila mandal*, a women's community group. Other facilities and clubs that are available in villages where more than one-third of rural residents live are *kirana* shops (small grocery stores), fair price shops, *paan* shops, post offices, and youth clubs. The most widely available rural development programmes as reported by the respondents to the Village Questionnaire are the Indira Awas Yojana (IAY) and the Integrated Rural Development Programme (IRDP).