



# SRS BULLETIN

## SAMPLE REGISTRATION SYSTEM

### REGISTRAR GENERAL, INDIA

VITAL STATISTICS DIVISION, WEST BLOCK 1, WING 1, 2ND FLOOR, R. K. PURAM, NEW DELHI-110 066

ISSN 0971-3549

#### CONTENTS OF THIS ISSUE

Estimated Birth Rate, Death Rate, Natural Growth Rate and Infant Mortality Rate 1998.....	1
Ninety five percent lower and upper confidence limits of the Vital Rates 1998.....	2-3
Death Rate by Sex 1998.....	4
Infant Mortality Rate by sex, 1998.....	5
Maternal Mortality Rate 1998.....	6-7
About the Sample Registration System.....	8

**Table 1: Estimated Birth rate, Death rate, Natural growth rate and Infant mortality rate, 1998**

India/States/ Union territories	Birth rate			Death rate			Natural growth rate			Infant mortality rate		
	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>India</b>	26.5	28.0	21.1	9.0	9.7	6.6	17.5	18.3	14.5	72	77	45
<b>Bigger States</b>												
1. Andhra Pradesh	22.4	22.8	21.1	8.8	9.7	6.1	13.6	13.1	15.0	66	75	38
2. Assam	27.9	28.7	20.2	10.0	10.5	6.0	17.8	18.2	14.1	76	80	36
3. Bihar	31.1	32.1	23.1	9.4	9.7	6.5	21.8	22.3	16.6	67	68	51
4. Gujarat	25.5	27.0	22.2	7.9	8.6	6.4	17.6	18.4	15.8	64	71	46
5. Haryana	27.6	28.8	23.3	8.2	8.6	6.9	19.4	20.3	16.3	70	72	59
6. Karnataka	22.0	23.1	19.4	7.9	8.9	5.6	14.0	14.1	13.8	58	70	25
7. Kerala	18.3	18.3	18.2	6.4	6.5	6.2	11.8	11.8	12.0	16	15	17
8. Madhya Pradesh	30.7	32.1	23.1	11.2	11.9	7.8	19.4	20.2	15.3	98	104	56
9. Maharashtra	22.5	23.6	20.8	7.7	8.9	5.8	14.8	14.7	15.0	49	58	32
10. Orissa	25.7	26.4	20.9	11.1	11.6	7.6	14.6	14.8	13.3	98	101	66
11. Punjab	22.4	23.7	18.5	7.7	8.2	6.3	14.7	15.5	12.1	54	58	40
12. Rajasthan	31.6	33.1	24.7	8.8	9.3	6.9	22.8	23.9	17.8	83	87	60
13. Tamil Nadu	19.2	19.7	18.1	8.5	9.3	6.8	10.7	10.4	11.2	53	59	40
14. Uttar Pradesh	32.4	33.4	27.2	10.5	10.9	8.1	21.9	22.5	19.1	85	89	65
15. West Bengal	21.3	23.4	15.2	7.5	7.7	7.1	13.7	15.7	8.2	53	56	41
<b>Smaller States</b>												
1. Arunachal Pradesh	22.5	23.3	13.6	6.1	6.5	1.8	16.4	16.8	11.8	44	46	10
2. Goa	14.3	14.6	14.0	8.2	8.5	7.9	6.1	6.1	6.1	23	25	22
3. Himachal Pradesh	22.6	23.0	17.0	7.7	7.9	5.4	14.8	15.1	11.6	64	66	38
4. Jammu & Kashmir	19.9	20.8	16.1	5.4	5.6	4.6	14.4	15.2	11.5	45	46	45
5. Manipur	19.0	19.9	16.7	5.3	5.1	6.1	13.7	14.8	10.6	25	22	26
6. Meghalaya	29.2	31.8	15.6	9.0	9.9	4.2	20.2	21.8	11.5	52	54	36
7. Mizoram	15.8	18.1	13.1	5.6	6.7	4.3	10.2	11.4	8.7	23	26	18
8. Nagaland	N.A.	N.A.	11.9	N.A.	N.A.	1.7	N.A.	N.A.	10.2	N.A.	N.A.	16
9. Sikkim	20.9	21.2	13.5	6.1	6.2	3.9	14.8	15.0	9.7	52	52	44
10. Tripura	17.6	18.2	14.8	6.1	6.2	5.4	11.6	12.0	9.4	49	50	39
<b>Union territories</b>												
1. Andaman & Nicobar Islands	17.7	18.0	16.8	4.6	5.1	3.0	13.1	12.9	13.8	30	37	9
2. Chandigarh	17.9	21.3	17.5	4.1	3.5	4.2	13.8	17.8	13.3	32	44	30
3. Dadra & Nagar Haveli	34.1	35.1	23.4	7.9	8.4	3.0	26.2	26.7	20.4	61	65	7
4. Daman & Diu	21.7	23.0	20.5	7.0	8.1	6.1	14.6	14.9	14.4	51	42	59
5. Delhi	19.4	20.9	19.3	5.3	5.3	5.3	14.2	15.7	14.0	36	36	36
6. Lakshadweep	23.0	23.5	22.4	6.2	6.1	6.2	16.8	17.4	16.2	26	22	30
7. Pondicherry	18.2	18.3	18.1	7.8	8.7	7.2	10.3	9.5	10.9	21	31	14

N. A.: Not available due to part-receipt of returns.

Note : Infant mortality rates for Smaller States and Union Territories are for the three-year period 1996-98; for Mizoram it is for 1996-98. Estimates of vital rates for Jammu & Kashmir and Nagaland are not reliable due to inadequacy of returns.

With compliments from Jayant Kumar Banthia Registrar General, India, 2-A Mansingh Road, New Delhi 110 011, India.

E mail: [rgindia@hub.nic.in](mailto:rgindia@hub.nic.in) Phone : (91) (11) 338 3761 Fax: (91) (11) 338 3145

Census and Vital Statistics Website on the Internet : <http://www.censusindia.net>

**Table 2 : Ninety five percent confidence limits (lower and upper limits) for**

India/States/ Union territories	Birth Rate						Death	
	Total		Rural		Urban		Total	
	Lower Limit	Upper Limit	Lower Limit	Upper limit	Lower limit	Upper Limit	Lower limit	Upper limit
1	2	3	4	5	6	7	8	9
<b>India</b>	26.3	26.7	27.8	28.3	20.7	21.6	8.9	9.1
<b>Bigger States</b>								
1. Andhra Pradesh	21.8	23.0	22.2	23.5	19.7	22.5	8.4	9.3
2. Assam	25.6	30.2	26.1	31.3	18.3	22.0	9.1	11.0
3. Bihar	30.4	31.8	31.3	32.8	21.5	24.8	9.0	9.8
4. Gujarat	24.6	26.3	26.0	27.9	20.7	23.6	7.5	8.3
5. Haryana	26.5	28.8	27.5	30.1	21.1	25.4	7.6	8.8
6. Karnataka	21.2	22.8	22.1	24.1	18.0	20.8	7.6	8.3
7. Kerala	17.7	18.9	17.7	18.9	16.7	19.7	6.2	6.7
8. Madhya Pradesh	29.9	31.4	31.3	33.0	21.5	24.7	10.7	11.7
9. Maharashtra	21.8	23.3	22.8	24.4	19.3	22.3	7.3	8.1
10. Orissa	25.0	26.4	25.6	27.1	19.4	22.4	10.6	11.6
11. Punjab	21.6	23.1	22.8	24.6	17.1	19.9	7.2	8.2
12. Rajasthan	30.8	32.4	32.2	34.0	23.1	26.3	8.4	9.3
13. Tamil Nadu	18.6	19.7	19.1	20.3	17.1	19.1	8.1	8.8
14. Uttar Pradesh	31.7	33.1	32.6	34.3	25.9	28.5	10.1	10.8
15. West Bengal	20.6	21.9	22.6	24.1	14.2	16.3	7.3	7.8
<b>Smaller States</b>								
1. Arunachal Pradesh	18.7	26.3	19.2	27.4	9.3	17.9		
2. Goa	13.3	15.4	13.3	15.8	12.2	15.8		
3. Himachal Pradesh	21.2	23.9	21.6	24.4	15.1	19.0		
4. Jammu & Kashmir	17.2	22.6	19.1	22.5	5.2	27.1		
5. Manipur	17.8	20.3	18.3	21.4	15.0	18.4		
6. Meghalaya	27.4	31.0	29.6	34.0	12.2	19.0		
7. Mizoram	13.6	18.1	15.8	20.4	9.1	17.1		
8. Nagaland	N.A.	N.A.	N.A.	N.A.	9.4	14.4		
9. Sikkim	19.3	22.6	19.5	22.6	12.1	15.0		
10. Tripura	16.4	18.9	16.9	19.4	11.1	18.5		
<b>Union territories</b>								
1. Andaman & Nicobar Islands	15.9	19.6	15.8	20.2	13.3	20.3		
2. Chandigarh	14.8	21.0	17.4	25.2	14.1	20.9		
3. Dadra & Nagar Haveli	31.5	36.7	32.3	37.8	17.7	29.0		
4. Daman & Diu	18.2	25.1	21.4	24.6	15.0	26.0		
5. Delhi	18.2	20.6	18.3	23.6	18.0	20.6		
6. Lakshadweep	19.4	26.6	18.0	29.1	17.9	27.0		
7. Pondicherry	16.6	19.7	16.7	19.8	15.7	20.5		

### Birth Rate, Death Rate and Infant Mortality Rate 1998

Rate		Infant Mortality Rate								India/States/ Union territories
Rural		Urban		Total		Rural		Urban		
Lower Limit	Upper Limit	Lower Limit	Upper limit	Lower limit	Upper limit	Lower limit	Upper limit	Lower Limit	Upper limit	
10	11	12	13	14	15	16	17	18	19	1
9.6	9.8	6.4	6.8	69.8	73.4	75.3	79.5	41.8	48.0	<b>India</b>
<b>Bigger States</b>										
9.2	10.2	5.5	6.8	59.6	73.2	66.4	83.2	30.0	46.0	1. Andhra Pradesh
9.4	11.6	5.4	6.7	66.2	86.7	68.5	90.7	22.8	49.9	2. Assam
9.3	10.1	5.5	7.4	62.5	71.4	63.5	73.0	41.1	61.6	3. Bihar
8.2	9.0	5.5	7.2	56.9	71.5	62.5	79.6	32.1	60.3	4. Gujarat
7.9	9.2	5.9	7.9	60.1	79.7	61.3	83.3	37.7	79.7	5. Haryana
8.5	9.3	5.0	6.2	53.0	63.7	63.7	77.0	16.4	33.8	6. Karnataka
6.2	6.9	5.5	6.9	12.5	18.7	12.4	17.8	7.6	26.7	7. Kerala
11.3	12.5	7.0	8.6	89.9	106.2	95.0	113.0	40.1	71.2	8. Madhya Pradesh
8.4	9.4	5.3	6.4	42.8	54.5	50.4	65.7	23.3	40.5	9. Maharashtra
11.1	12.1	6.8	8.4	90.1	105.1	92.9	109.2	50.8	80.3	10. Orissa
7.6	8.7	5.6	7.1	46.9	61.8	49.6	67.0	26.5	52.8	11. Punjab
8.8	9.8	6.1	7.8	76.7	90.2	79.8	94.8	45.8	73.3	12. Rajasthan
8.8	9.7	6.3	7.4	46.4	59.5	50.3	67.4	30.8	48.8	13. Tamil Nadu
10.5	11.4	7.4	8.8	80.9	89.8	83.7	93.5	55.6	74.7	14. Uttar Pradesh
7.4	8.0	6.5	7.6	48.4	58.5	50.5	61.9	31.2	51.6	15. West Bengal

#### Smaller States

Confidence limits of Death Rate and Infant Mortality Rate for smaller states and union territories have not been presented due to the small sample size and very large variations between the Upper and Lower tolerance limits

1. Arunachal Pradesh
2. Goa
3. Himachal Pradesh
4. Jammu & Kashmir
5. Manipur
5. Meghalaya
6. Mizoram
8. Nagaland
9. Sikkim
10. Tripura

#### Union territories

1. Andaman & Nicobar Islands
2. Chandigarh
3. Dadra & Nagar Haveli
4. Daman & Diu
5. Delhi

**Table 3: Death rate by sex, 1998**

India/States/ Union Territories	Total			Rural			Urban		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9	10
<b>India</b>	9.0	9.2	8.8	9.7	9.9	9.5	6.6	6.9	6.3
<b>Bigger States</b>									
1. Andhra Pradesh	8.8	9.5	8.2	9.7	10.3	9.1	6.1	6.8	5.4
2. Assam	10.0	10.6	9.4	10.5	11.0	9.9	6.0	6.8	5.2
3. Bihar	9.4	9.3	9.5	9.7	9.6	9.8	6.5	6.3	6.7
4. Gujarat	7.9	8.1	7.6	8.6	8.9	8.2	6.4	6.3	6.4
5. Haryana	8.2	8.3	8.1	8.6	8.6	8.5	6.9	7.0	6.8
6. Karnataka	7.9	8.4	7.4	8.9	9.3	8.6	5.6	6.3	4.8
7. Kerala	6.4	7.6	5.4	6.5	7.8	5.4	6.2	7.0	5.4
8. Madhya Pradesh	11.2	11.4	11.1	11.9	12.0	11.8	7.8	8.2	7.4
9. Maharashtra	7.7	8.2	7.2	8.9	9.5	8.3	5.8	6.3	5.4
10. Orissa	11.1	11.3	11.0	11.6	11.6	11.6	7.6	8.5	6.7
11. Punjab	7.7	8.2	7.1	8.2	8.8	7.5	6.3	6.6	6.1
12. Rajasthan	8.8	9.3	8.4	9.3	9.7	8.7	6.9	7.1	6.8
13. Tamil Nadu	8.5	9.3	7.7	9.3	10.1	8.5	6.8	7.7	6.0
14. Uttar Pradesh	10.5	10.0	11.0	10.9	10.4	11.5	8.1	7.7	8.6
15. West Bengal	7.5	7.9	7.1	7.7	7.9	7.4	7.1	7.6	6.4
<b>Smaller States</b>									
1. Arunachal Pradesh	6.1	6.1	6.1	6.5	6.5	6.5	1.8	1.8	1.7
2. Goa	8.2	9.8	6.8	8.5	9.9	7.1	7.9	9.6	6.3
3. Himachal Pradesh	7.7	8.8	6.8	7.9	9.0	6.9	5.4	6.2	4.6
4. Jammu & Kashmir	5.4	5.8	5.0	5.6	5.9	5.3	4.6	5.5	3.7
5. Manipur	5.3	6.3	4.3	5.1	5.9	4.2	6.1	7.6	4.6
6. Meghalaya	9.0	9.8	8.2	9.9	10.8	9.0	4.2	4.7	3.6
7. Mizoram	5.6	8.0	3.3	6.7	9.5	3.9	4.3	6.1	2.6
8. Nagaland	1.7	2.0	1.3	N.A	N.A	N.A	1.7	2.0	1.3
9. Sikkim	6.1	6.9	5.3	6.2	7.0	5.4	3.9	4.6	2.9
10. Tripura	6.1	6.9	5.1	6.2	6.8	5.5	5.4	7.5	3.4
<b>Union territories</b>									
1. Andaman & Nicobar Islands	4.6	5.4	3.7	5.1	6.3	3.9	3.0	3.1	3.0
2. Chandigarh	4.1	4.6	3.6	3.5	3.4	3.6	4.2	4.8	3.6
3. Dadra & Nagar Haveli	7.9	9.7	6.1	8.4	10.3	6.4	3.0	2.7	3.2
4. Daman & Diu	7.0	6.8	7.3	8.1	9.1	7.1	6.1	4.6	7.5
5. Delhi	5.3	5.3	5.2	5.3	6.2	4.2	5.3	5.2	5.3
6. Lakshadweep	6.2	6.4	6.0	6.1	6.4	5.9	6.2	6.4	6.1
7. Pondicherry	7.8	9.0	6.7	8.7	9.6	7.9	7.2	8.6	5.9

Note: Estimates of Death rate by sex are subject to year to year fluctuations. Estimates of death rates for Jammu & Kashmir and Nagaland are not reliable due to inadequacy of returns.

N.A : Not available due to part receipt of returns.

**Table 4: Infant mortality rate by sex, 1998**

India/States/ Union Territories	Total			Rural			Urban		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9	10
<b>India</b>	71.6	69.8	73.5	77.4	76.0	78.9	44.9	41.5	48.7
<b>Bigger States</b>									
1. Andhra Pradesh	66.4	65.0	67.8	74.8	73.5	76.1	38.0	36.0	40.0
2. Assam	76.5	84.9	67.4	79.6	88.3	70.1	36.4	38.3	34.6
3. Bihar	67.0	67.5	66.5	68.3	67.7	68.9	51.3	64.9	36.7
4. Gujarat	64.2	62.7	65.9	71.1	69.4	73.0	46.2	45.1	47.4
5. Haryana	69.7	60.7	81.4	72.1	62.4	84.5	58.7	53.0	66.3
6. Karnataka	58.3	60.9	55.7	70.3	74.5	66.0	25.1	23.4	26.9
7. Kerala	15.6	18.0	13.1	15.1	16.8	13.3	17.2	21.9	12.5
8. Madhya Pradesh	98.1	99.5	96.5	104.0	106.2	101.5	55.6	50.3	61.3
9. Maharashtra	48.7	42.5	55.6	58.0	57.4	58.7	31.9	17.1	49.7
10. Orissa	97.6	98.3	96.9	101.0	102.6	99.3	65.5	57.5	74.3
11. Punjab	54.4	52.7	56.4	58.3	51.6	66.7	39.6	57.0	17.9
12. Rajasthan	83.5	82.8	84.2	87.3	87.0	87.6	59.6	58.0	61.6
13. Tamil Nadu	53.0	48.3	58.1	58.8	52.1	65.9	39.8	40.0	39.5
14. Uttar Pradesh	85.3	78.8	92.9	88.6	82.4	95.8	65.2	55.8	75.4
15. West Bengal	53.4	58.6	48.0	56.2	59.1	53.1	41.4	56.3	24.8
<b>Smaller States</b>									
1. Arunachal Pradesh	47.6	45.6	49.8	49.6	47.9	51.3	11.8	0.0	23.3
2. Goa	26.1	30.5	21.1	24.0	30.1	17.0	29.2	31.0	27.2
3. Himachal Pradesh	67.8	59.7	76.6	69.6	60.8	79.2	37.3	41.6	32.5
4. Jammu & Kashmir	45.4	39.5	52.1	45.5	37.9	54.1	45.1	48.1	41.7
5. Manipur	21.1	23.7	18.4	19.7	23.6	15.9	25.5	24.0	27.1
6. Meghalaya	53.2	59.2	47.2	56.2	62.1	50.3	21.2	28.8	13.6
7. Mizoram	25.4	32.3	19.9	31.4	47.9	21.2	15.2	13.9	16.7
8. Nagaland	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9. Sikkim	50.8	64.0	35.7	51.1	63.5	36.7	40.7	88.5	0.0
10. Tripura	46.7	50.4	42.9	49.1	52.9	45.2	31.0	33.5	28.7
<b>Union territories</b>									
1. Andaman & Nicobar Islands	28.1	21.6	35.4	35.2	25.8	44.7	6.5	10.8	0.0
2. Chandigarh	27.8	26.0	30.6	40.8	50.6	29.4	26.0	23.1	30.8
3. Dadra & Nagar Haveli	62.7	60.6	65.0	65.6	63.5	67.9	12.7	20.0	0.0
4. Daman & Diu	54.1	17.3	95.0	33.5	34.6	32.2	74.1	0.0	153.8
5. Delhi	33.1	23.3	45.0	37.4	44.4	28.4	32.5	20.5	47.1
6. Lakshadweep	26.4	31.6	21.2	21.7	20.2	23.5	30.9	44.4	19.2
7. Pondicherry	26.2	23.9	28.6	39.7	32.1	47.7	16.8	18.0	15.7

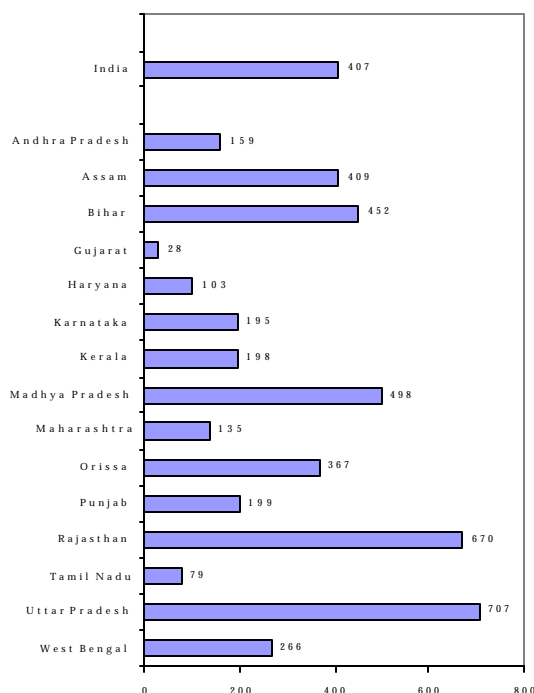
Note: Estimates of Infant mortality rate by sex are subject to year to year fluctuations. Estimates of infant mortality rates for Jammu & Kashmir and Nagaland are not reliable due to inadequacy of returns.

N.A: Not available due to part-receipt of returns.

## MATERNAL MORTALITY RATE

There is a major data gap in India in regard to estimates of Maternal Mortality Rate (MMR). In order to fill this gap to the extent possible, data on maternal deaths are being through the Sample Registration System (SRS) from 1997. Estimates of such rare events like maternal deaths through SRS may not be very accurate due to the small sample size. The quality of data may also suffer due to various difficulties associated with ascertaining the cause of death through household inquiries.

To collect maternal deaths the SRS field functionaries were asked to collect deaths of women on account of pregnancy, childbirth or within 43 days of childbirth. The method of *post death verbal autopsy* was adopted to collect causes of maternal deaths. Based on the maternal deaths so collected and the live births captured through the SRS, estimates of MMR at the national level and for the bigger states have been worked out for the year 1998. These figures give an idea of the likely level of MMR in the bigger states and at the national level. The estimates for the smaller states and the Union territories have not been presented due to the small sample size. However, estimates at the national level include the estimates for all states and Union territories. The estimates of MMR for some states like Gujarat and Tamil Nadu prima facie appear to be on the lower side. At the national level the maternal mortality rate has been estimated at 407 maternal deaths per 1,00,000 live births. The ninety five percent confidence limits (lower and upper limits) for this estimate of MMR for India are 351 and 463 respectively.



**Maternal mortality rate for India and bigger states, 1998**

■ Maternal mortality rate (number of maternal deaths per 1,00,000 live births)

To provide an insight into the nature of the maternal deaths by specific causes of death captured through SRS, the distribution of sample maternal deaths by causes along with the per cent distribution of cause-specific maternal deaths for 1998 are given in the adjoining Table. It is to be noted, however, that the number of sample maternal deaths by specific cause is to be used with caution and

are liable to be erratic due to the small sample size.

**Distribution of sample maternal deaths by causes and per cent distribution to total maternal deaths  
India and bigger states, 1998**

Sl. No.	India and bigger states	Direct causes					Indirect causes				Others	Total Maternal deaths
		Pregnancy with abortive outcome	Oedema, proteinuria and hypertensive disorders	Haemorrhage	Obstructed labour due to malposition and malpresentation of fetus	Complications predominantly related to the puerperium	Tuberculosis	Viral hepatitis	Malaria	Anaemia		
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Number</b>												
	<b>India</b>	45	40	151	47	79	22	2	7	96	9	498
1.	Andhra Pradesh	0	0	2	3	4	0	0	0	0	0	9
2.	Assam	3	1	13	1	3	0	0	0	5	0	26
3.	Bihar	1	4	21	13	4	0	1	0	14	1	59
4.	Gujarat	0	0	0	0	1	0	0	0	1	0	2
5.	Haryana	0	0	5	0	1	0	0	0	0	0	6
6.	Karnataka	1	3	4	0	5	0	0	0	2	0	15
7.	Kerala	0	1	3	0	1	0	0	0	2	4	11
8.	Madhya Pradesh	2	6	15	3	15	0	0	0	12	0	53
9.	Maharashtra	1	4	2	1	1	0	0	0	4	0	13
10.	Orissa	0	1	10	5	4	0	0	0	4	0	24
11.	Punjab	0	0	7	0	1	0	0	0	0	0	8
12.	Rajasthan	22	4	9	3	3	10	1	5	5	1	63
13.	Tamil Nadu	1	0	1	3	1	0	0	0	0	0	6
14.	Uttar Pradesh	5	12	35	7	24	12	0	2	25	2	124
15.	West Bengal	3	3	9	4	2	0	0	0	5	0	26
<b>Percentage</b>												
	<b>India</b>	8.9	8.3	29.6	9.5	16.1	4.6	0.4	1.4	19.0	2.1	100.0
1.	Andhra Pradesh	0.0	0.0	22.2	33.3	44.4	0.0	0.0	0.0	0.0	0.0	100.0
2.	Assam	11.5	3.8	50.0	3.8	11.5	0.0	0.0	0.0	19.5	0.0	100.0
3.	Bihar	1.7	6.8	35.6	22.0	6.8	0.0	1.7	0.0	23.7	1.7	100.0
4.	Gujarat	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	0.0	100.0
5.	Haryana	0.0	0.0	83.3	0.0	16.7	0.0	0.0	0.0	0.0	0.0	100.0
6.	Karnataka	6.7	20.0	26.7	0.0	33.3	0.0	0.0	0.0	13.3	0.0	100.0
7.	Kerala	0.0	9.1	27.3	0.0	9.1	0.0	0.0	0.0	18.2	36.4	100.0
8.	Madhya Pradesh	3.8	11.3	28.3	5.7	28.3	0.0	0.0	0.0	22.6	0.0	100.0
9.	Maharashtra	7.7	30.8	15.4	7.7	7.7	0.0	0.0	0.0	30.8	0.0	100.0
10.	Orissa	0.0	4.2	41.7	20.8	16.7	0.0	0.0	0.0	16.7	0.0	100.0
11.	Punjab	0.0	0.0	87.5	0.0	12.5	0.0	0.0	0.0	0.0	0.0	100.0
12.	Rajasthan	34.9	6.3	14.3	4.8	4.8	15.9	1.6	7.9	7.9	1.6	100.0
13.	Tamil Nadu	16.7	0.0	16.7	50.0	16.7	0.0	0.0	0.0	0.0	0.0	100.0
14.	Uttar Pradesh	4.0	9.7	28.2	5.6	19.4	9.7	0.0	1.6	20.2	1.6	100.0
15.	West Bengal	11.5	11.5	34.6	15.4	7.7	0.0	0.0	0.0	19.2	0.0	100.0

Note : The data for smaller states and union territories have not been presented here in view of their small sample size, these figures, however have been taken into account for working out the figures for India.



## ABOUT THE SAMPLE REGISTRATION SYSTEM (SRS)

The Sample Registration System (SRS) is a large scale demographic survey for providing reliable annual estimates of birth rate, death rate and other fertility and mortality indicators at the national and sub-national levels. The field investigation consists of continuous enumeration of births and deaths by a resident part time enumerator, generally a teacher and an independent survey every six months by a departmental official. The data obtained through these operations are matched. The unmatched and partially matched events are re-verified in the field and thereafter an unduplicated count of births and deaths is obtained. The SRS was initiated by the OFFICE OF THE REGISTRAR GENERAL, INDIA on a pilot basis in a few selected states in 1964-65 and it became fully operational during 1969-70 with about 3700 sample units. Thereafter the number of sample units was periodically increased and the frame updated after each census. The latest updating based on the 1991 census data was done in 1993-1994. The sample unit in rural areas is a village or a segment of it if the village had a population of 1500 or more. In urban areas the sampling unit is a census enumeration block with a population ranging from 750 to 1000. At present SRS has 6671 sample units (4436 rural and 2235 urban) in all States and Union territories covering about 1.1 million households and 6.11 million population. The state-wise break up of the sample units and the population covered are given below:

### Number of sample units and population covered India, States and Union Territories 1998

India/States/ Union territories	Number of sample units			Population covered (in '000)		
	Total	Rural	Urban	Total	Rural	Urban
1	2	3	4	5	6	7
<b>India</b>	6671	4436	2235	6112	4763	1349
<b>Bigger States</b>						
1. Andhra Pradesh	310	210	100	306	241	65
2. Assam	275	200	75	234	191	42
3. Bihar	500	400	100	536	478	58
4. Gujarat	300	200	100	272	221	51
5. Haryana	180	110	70	206	156	50
6. Jammu & Kashmir	166	100	66	134	95	39
7. Karnataka	375	260	115	352	280	72
8. Kerala	250	150	100	299	237	61
9. Madhya Pradesh	400	300	100	378	319	58
10. Maharashtra	375	200	175	333	229	104
11. Orissa	405	300	105	298	237	61
12. Punjab	200	120	80	174	126	48
13. Rajasthan	350	250	100	321	273	48
14. Tamil Nadu	375	200	175	349	232	116
15. Uttar Pradesh	650	450	200	653	546	107
16. West Bengal	475	300	175	460	353	107
<b>Smaller States</b>						
1. Arunachal Pradesh	56	50	6	44	38	6
2. Goa	70	40	30	61	44	17
3. Himachal Pradesh	190	140	50	98	71	27
4. Manipur	150	100	50	130	95	35
5. Meghalaya	120	100	20	59	49	10
6. Mizoram	32	16	16	22	11	10
7. Nagaland	35	25	10	4	0	4
8. Sikkim	60	50	10	55	47	8
9. Tripura	75	60	15	86	78	8
<b>Union territories</b>						
1. Andaman & Nicobar Islands	45	30	15	31	22	9
2. Chandigarh	30	5	25	27	7	20
3. Dadra & Nagar Haveli	25	20	5	26	22	3
4. Daman & Diu	17	15	2	20	18	1
5. Delhi	130	10	120	98	15	83
6. Lakshadweep	10	5	5	12	8	4

Note: Total population may not add up to the sum of Rural and Urban populations due to rounding.