



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

Table 1: Estimated Birth rate, Death rate, Natural growth rate and Infant mortality rate, 1999

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
India	26.1	27.6	20.8	8.7	9.4	6.3	17.4	18.2	14.5	70	75	44
Larger States												
1. Andhra Pradesh	21.7	22.0	20.6	8.2	9.0	5.7	13.5	13.1	15.0	66	75	37
2. Assam	27.0	28.0	18.9	9.7	10.1	6.2	17.3	17.9	12.8	76	79	36
3. Bihar	31.5	32.4	25.2	8.9	9.2	7.1	22.6	23.2	18.1	63	64	55
4. Gujarat	25.4	27.0	22.0	7.9	8.8	5.9	17.6	18.2	16.1	63	70	45
5. Haryana	26.8	27.7	23.3	7.7	8.0	6.4	19.1	19.7	16.9	68	70	58
6. Karnataka	22.3	23.7	19.2	7.7	8.7	5.5	14.6	15.0	13.6	58	69	24
7. Kerala	18.0	18.1	17.7	6.4	6.5	6.3	11.5	11.6	11.4	14	14	16
8. Madhya Pradesh	31.1	33.1	23.6	10.4	11.1	7.6	20.7	21.9	15.9	90	96	55
9. Maharashtra	21.1	21.6	20.3	7.5	8.7	5.6	13.6	12.9	14.7	48	58	31
10. Orissa	24.1	24.6	20.3	10.7	11.1	7.1	13.4	13.5	13.2	97	100	65
11. Punjab	21.5	22.5	18.6	7.4	7.9	6.1	14.1	14.6	12.5	53	57	39
12. Rajasthan	31.1	32.5	24.9	8.4	8.9	6.4	22.7	23.6	18.5	81	85	59
13. Tamil Nadu	19.3	19.8	18.2	8.0	8.7	6.6	11.3	11.1	11.6	52	58	39
14. Uttar Pradesh	32.8	33.9	27.5	10.5	11.1	8.1	22.2	22.9	19.4	84	88	66
15. West Bengal	20.7	22.9	14.3	7.1	7.2	6.8	13.6	15.7	7.5	52	55	40
Smaller States												
16. Arunachal Pradesh	22.3	23.2	13.5	6.0	6.4	1.9	16.3	16.7	11.6	43	45	10
17. Chhatisgarh	26.9	29.3	23.6	9.6	11.3	7.0	17.4	18.0	16.5	78	95	47
18. Goa	14.3	14.4	14.1	7.2	7.6	6.6	7.1	6.8	7.5	21	23	17
19. Jharkhand	26.3	28.5	19.0	8.9	9.7	6.4	17.4	18.9	12.6	71	76	48
20. Himachal Pradesh	23.8	24.3	16.8	7.3	7.5	5.2	16.4	16.8	11.6	62	63	38
21. Jammu & Kashmir	Data not complied due to part- receipt of return											
22. Manipur	18.6	19.4	16.4	5.4	5.0	6.6	13.2	14.3	9.8	25	22	24
23. Meghalaya	28.7	31.1	15.7	9.1	10.2	3.3	19.5	20.9	12.4	56	59	33
24. Mizoram	17.0	18.7	14.8	5.5	6.9	3.7	11.5	11.8	11.1	19	22	14
25. Nagaland	11.8	N.A.	11.8	2.3	N.A.	2.3	9.5	N.A.	9.5	N.A.	N.A.	16
26. Sikkim	21.6	21.9	14.7	5.8	5.9	3.4	15.8	16.0	11.3	49	50	33
27. Tripura	17.0	17.5	14.4	5.7	5.7	5.7	11.3	11.8	8.7	42	43	33
28. Uttaranchal	19.6	24.5	16.1	6.5	10.5	3.5	13.2	14.0	12.5	52	75	27
Union Territories												
29. Andaman & Nicobar Islands	18.1	17.8	19.2	5.5	6.2	3.5	12.6	11.5	15.7	25	30	9
30. Chandigarh	17.9	24.5	17.1	3.9	2.6	4.1	14.0	21.9	13.0	28	36	27
31. Dadra & Nagar Haveli	34.2	35.2	23.6	6.6	7.0	2.5	27.5	28.1	21.0	56	61	7
32. Daman & Diu	26.9	24.9	28.8	7.1	8.9	5.4	19.9	16.0	23.3	35	34	36
33. Delhi	20.3	20.7	20.3	4.8	4.5	4.9	15.5	16.2	15.4	31	33	31
34. Lakshadweep	25.1	25.1	25.0	4.7	4.3	5.0	20.4	20.8	20.0	32	26	37
35. Pondicherry	17.7	18.0	17.5	6.9	7.9	6.1	10.8	10.1	11.4	22	32	15

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 1997-99; for Mizoram it is for 1997-99.

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

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
India	25.9	26.3	27.3	27.8	20.4	21.3	8.6	8.8
Bigger States								
1. Andhra Pradesh	21.1	22.3	21.4	22.7	19.3	21.9	7.8	8.6
2. Assam	25.8	28.3	26.6	29.3	17.1	20.8	8.7	10.7
3. Bihar	30.8	32.3	31.6	33.2	23.1	27.3	8.6	9.3
4. Gujarat	24.5	26.3	25.9	28.1	20.4	23.7	7.5	8.3
5. Haryana	25.7	27.9	29.8	32.5	21.1	25.5	7.1	8.2
6. Karnataka	21.5	23.3	22.7	24.7	17.5	20.9	7.4	8.1
7. Kerala	17.4	18.5	17.5	18.6	16.3	19.1	6.1	6.7
8. Madhya Pradesh	30.2	32.1	31.9	34.2	21.9	25.3	10.6	11.7
9. Maharashtra	20.3	21.9	20.8	22.4	18.8	21.8	7.1	7.8
10. Orissa	23.3	24.9	23.7	25.5	18.8	21.9	10.1	11.2
11. Punjab	20.7	22.3	21.5	23.4	17.1	20.1	7.0	7.8
12. Rajasthan	30.2	32.1	31.4	33.5	23.3	26.6	8.0	8.9
13. Tamil Nadu	18.7	19.9	19.1	20.5	17.1	19.3	7.7	8.4
14. Uttar Pradesh	32.2	33.4	32.2	34.7	26.1	28.8	10.2	10.8
15. West Bengal	20.0	21.3	22.2	23.6	13.2	15.4	6.8	7.3
Smaller States								
1. Arunachal Pradesh	17.7	26.9	18.0	28.3	9.9	17.2		
2. Chhatisgarh	25.3	28.5	27.8	30.7	20.0	27.2		
3. Goa	13.2	15.4	13.1	15.8	12.2	15.9		
4. Jharkhand	25.0	27.5	27.1	30.0	16.4	21.6		
5. Himachal Pradesh	22.3	25.2	22.8	25.9	14.8	18.7		
6. Jammu & Kashmir				Not available				
7. Manipur	14.6	18.2	0.0	0.0	14.6	18.2		
8. Meghalaya	24.8	32.6	26.4	35.8	11.5	19.9		
9. Mizoram	14.7	19.2	16.1	21.4	10.9	18.6		
10. Nagaland	N.A	N.A	N.A	N.A	7.4	16.2		
11. Sikkim	10.5	19.0	0.0	0.0	10.5	19.0		
12. Tripura	16.0	17.9	16.7	18.3	10.2	18.6		
13. Uttaranchal	18.3	20.9	22.0	27.0	14.4	17.8		
Union Territories								
1. Andaman & Nicobar Islands	16.3	19.9	16.1	19.4	14.2	24.1		
2. Chandigarh	15.1	20.7	15.7	33.4	14.1	20.1		
3. Dadra & Nagar Haveli	29.5	35.3	32.1	38.3	19.3	27.7		
4. Daman & Diu	22.5	31.3	22.9	26.9	21.9	35.6		
5. Delhi	19.1	21.5	18.0	23.4	18.9	21.6		
6. Lakshadweep	21.7	28.4	20.9	29.3	19.9	30.2		
7. Pondicherry	16.2	19.2	16.2	19.8	15.3	19.7		

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

Birth Rate, Death Rate and Infant Mortality Rate 1999

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
9.3	9.6	6.1	6.5	68.3	71.7	73.5	77.3	40.1	47.3	India
Bigger States										
8.5	9.4	5.1	6.3	59.4	72.9	66.9	83.2	27.8	45.6	1. Andhra Pradesh
9.0	11.2	5.3	7.0	67.5	83.7	70.0	87.3	24.7	47.0	2. Assam
8.8	9.6	6.1	8.0	60.4	70.8	61.2	72.3	40.4	62.3	3. Bihar
8.3	9.3	5.1	6.6	56.3	70.0	62.4	77.8	31.1	58.2	4. Gujarat
7.8	9.2	5.6	7.1	60.2	75.1	61.6	78.4	40.7	75.4	5. Haryana
8.3	9.1	4.9	6.2	52.2	64.9	61.8	77.0	14.3	35.5	6. Karnataka
6.1	6.8	5.6	6.9	11.3	17.6	10.9	16.8	7.4	25.4	7. Kerala
10.6	11.7	6.8	8.5	84.3	96.8	88.7	102.3	41.1	69.8	8. Madhya Pradesh
8.2	9.1	5.1	6.2	42.4	53.9	50.9	65.5	22.5	40.1	9. Maharashtra
10.5	11.7	6.2	8.1	87.3	106.2	89.9	110.6	49.3	79.8	10. Orissa
7.3	8.4	5.4	6.8	45.9	60.4	48.4	65.5	26.2	52.3	11. Punjab
8.3	9.4	5.7	7.1	75.5	86.9	78.5	91.2	47.3	71.0	12. Rajasthan
8.3	9.2	6.0	7.1	46.0	58.2	50.1	65.7	30.2	47.7	13. Tamil Nadu
10.7	11.5	7.4	8.8	79.7	87.8	82.4	91.3	54.4	73.6	14. Uttar Pradesh
6.8	7.5	6.3	7.3	47.4	56.8	49.4	60.0	30.6	49.9	15. West Bengal

Smaller States

Confidence limits of Death rate 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. Chhatisgarh
 3. Goa
 4. Jharkhand
 5. Himachal Pradesh
 6. Jammu & Kashmir
 7. Manipur
 8. Meghalaya
 9. Mizoram
 10. Nagaland
 11. Sikkim
 12. Tripura
 13. Uttaranchal
- Union Territories**

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

Table 3: Death rate by sex, 1999

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
India	8.7	9.0	8.3	9.4	9.7	9.1	6.3	6.7	5.8
Bigger States									
1. Andhra Pradesh	8.2	9.0	7.4	9.0	9.8	8.1	5.7	6.4	5.0
2. Assam	9.7	10.2	9.2	10.1	10.5	9.6	6.2	6.9	5.3
3. Bihar	8.9	8.4	9.5	9.2	8.7	9.7	7.1	6.7	7.5
4. Gujarat	7.9	8.5	7.2	8.8	9.6	8.0	5.9	6.2	5.6
5. Haryana	7.7	7.7	7.7	8.0	8.0	8.0	6.4	6.4	6.4
6. Karnataka	7.7	8.5	7.0	8.7	9.4	8.0	5.5	6.3	4.7
7. Kerala	6.4	7.5	5.4	6.5	7.7	5.4	6.3	7.0	5.6
8. Madhya Pradesh	10.4	10.6	10.3	11.1	11.3	11.0	7.6	7.9	7.3
9. Maharashtra	7.5	8.2	6.7	8.7	9.3	8.1	5.6	6.6	4.5
10. Orissa	10.7	10.9	10.4	11.1	11.4	10.9	7.1	7.2	7.1
11. Punjab	7.4	8.1	6.7	7.9	8.6	7.0	6.1	6.5	5.7
12. Rajasthan	8.4	8.9	7.9	8.9	9.2	8.5	6.4	7.4	5.4
13. Tamil Nadu	8.0	8.8	7.3	8.7	9.5	8.0	6.6	7.3	5.8
14. Uttar Pradesh	10.5	10.4	10.7	11.1	11.0	11.2	8.1	7.8	8.3
15. West Bengal	7.1	7.2	6.9	7.2	7.2	7.1	6.8	7.3	6.3
Smaller States									
1. Arunachal Pradesh	6.0	6.4	5.7	6.4	6.8	6.1	1.9	2.2	1.6
2. Chhatisgarh	9.6	10.7	8.4	11.3	13.1	9.5	7.0	7.4	6.7
3. Goa	7.2	8.4	6.1	7.6	8.7	6.6	6.6	7.9	5.3
4. Jharkhand	8.9	8.8	9.0	9.7	9.4	9.9	6.4	6.9	5.8
5. Himachal Pradesh	7.3	8.2	6.5	7.5	8.5	6.6	5.2	5.6	4.8
7. Jammu & Kashmir				Data not compiled due to part receipt of returns					
8. Manipur	5.4	6.4	4.5	5.0	6.1	4.0	6.6	7.3	5.8
9. Meghalaya	9.1	10.2	8.0	10.2	11.5	9.0	3.3	3.7	2.8
10. Mizoram	5.5	7.1	3.9	6.9	8.9	5.0	3.7	5.0	2.5
11. Nagaland	2.3	1.3	3.5	N.A	N.A	N.A	2.3	1.3	3.5
12. Sikkim	5.8	5.4	6.2	5.9	5.5	6.4	3.4	4.5	2.2
13. Tripura	5.7	6.3	5.1	5.7	6.4	4.9	5.7	5.5	5.9
14. Uttaranchal	6.5	6.9	5.9	10.5	11.2	9.7	3.5	3.9	3.1
Union Territories									
1. Andaman & Nicobar Islands	5.5	5.8	5.3	6.2	7.0	5.4	3.5	2.2	4.9
2. Chandigarh	3.9	3.7	4.1	2.6	1.7	4.0	4.1	4.0	4.1
3. Dadra & Nagar Haveli	6.6	7.4	5.9	7.0	7.8	6.2	2.5	3.1	1.8
4. Daman & Diu	7.1	7.2	6.9	8.9	9.8	7.9	5.4	4.8	6.1
5. Delhi	4.8	5.3	4.3	4.5	4.7	4.4	4.9	5.3	4.3
6. Lakshadweep	4.7	4.8	4.5	4.3	4.2	4.4	5.0	5.4	4.6
7. Pondicherry	6.9	8.3	5.4	7.9	9.0	6.8	6.1	7.8	4.5

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

Note: Estimates of Death rate by sex are subject to year to year fluctuations.

Table 4: Infant mortality rate by sex, 1999

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
India	70.0	69.8	70.8	75.4	75.6	75.2	43.8	47.4	39.7
Bigger States									
1. Andhra Pradesh	66.3	68.9	63.5	75.4	79.2	70.6	37.4	35.1	39.9
2. Assam	75.6	74.7	76.4	78.6	77.8	79.5	35.8	36.1	35.6
3. Bihar	62.8	63.2	62.3	63.6	64.3	62.8	55.1	52.5	57.7
4. Gujarat	63.2	61.7	64.8	70.1	67.9	72.6	44.6	45.7	43.3
5. Haryana	67.7	59.1	78.4	69.8	56.8	86.1	58.0	69.4	43.5
6. Karnataka	57.7	58.6	56.7	69.4	73.4	65.1	24.5	18.5	31.5
7. Kerala	14.5	13.7	15.3	13.8	12.4	15.4	16.4	18.0	14.9
8. Madhya Pradesh	89.5	89.6	89.5	95.8	94.9	96.8	55.3	59.6	50.7
9. Maharashtra	48.2	47.8	48.5	58.2	64.1	51.9	31.3	20.5	42.8
10. Orissa	96.7	97.3	96.0	100.2	101.2	99.2	64.6	63.8	65.5
11. Punjab	53.1	50.5	56.4	57.0	48.8	67.2	39.3	56.5	16.2
12. Rajasthan	81.2	78.9	83.9	84.7	79.9	90.5	59.1	73.5	40.5
13. Tamil Nadu	52.4	50.3	54.5	58.1	57.5	58.8	39.4	33.8	45.1
14. Uttar Pradesh	84.4	85.2	83.5	87.6	86.1	89.4	65.8	80.1	49.6
15. West Bengal	52.1	60.7	43.0	54.7	61.9	47.1	40.3	55.1	24.0
Smaller States									
1. Arunachal Pradesh	35.4	43.0	27.9	37.4	46.0	29.2	N.A	N.A	N.A
2. Chhatisgarh	77.6	92.1	62.0	94.5	116.5	71.3	47.1	49.4	44.4
3. Goa	16.7	26.3	6.6	22.3	32.0	11.4	8.5	17.2	0.0
4. Jharkhand	71.2	63.7	79.1	76.1	69.8	82.6	48.1	34.0	62.4
5. Himachal Pradesh	54.1	56.9	51.1	55.0	58.0	51.9	37.0	38.8	34.9
6. Jammu & Kashmir	Data not compiled due to part receipt of returns								
7. Manipur	22.8	22.1	23.7	24.6	25.8	23.1	17.1	9.6	25.7
8. Meghalaya	61.3	66.6	55.6	64.7	71.4	57.6	25.6	22.2	30.3
9. Mizoram	13.7	18.8	8.9	14.0	23.2	6.2	13.2	12.8	13.6
10. Nagaland	31.7	21.3	42.5	N.A	N.A	N.A	31.7	21.3	42.5
11. Sikkim	46.1	49.7	42.4	46.8	50.3	43.3	17.6	29.4	0.0
12. Tripura	27.1	22.6	31.8	26.9	23.8	30.2	28.5	14.6	40.9
13. Uttarakhand	52.4	60.0	43.8	75.3	65.4	87.4	27.3	53.6	0.0
Union Territories									
1. Andaman & Nicobar Islands	13.9	10.5	17.1	17.1	14.4	19.7	5.5	0.0	10.4
2. Chandigarh	15.6	9.0	23.7	22.5	0.0	58.8	14.5	10.8	18.9
3. Dadra & Nagar Haveli	42.3	57.7	27.0	44.9	61.1	28.7	0.0	0.0	0.0
4. Daman & Diu	6.8	12.0	2.9	15.6	22.1	8.2	0.0	0.0	0.0
5. Delhi	25.4	29.1	20.5	27.8	27.3	28.4	25.1	29.3	19.5
6. Lakshadweep	21.3	29.1	13.8	34.1	55.0	10.4	9.1	0.0	16.7
7. Pondicherry	20.9	31.1	10.2	27.4	32.0	23.2	16.3	30.5	0.0

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

Note: Estimates of Infant mortality rate by sex are subject to year to year fluctuations.

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 6.05 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 1999

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
India	6671	4436	2235	6047	4725	1322
Bigger States						
1. Andhra Pradesh	310	210	100	306	240	66
2. Assam	275	200	75	238	195	43
3. Bihar	361	308	53	428	393	34
4. Gujarat	300	200	100	274	222	51
5. Haryana	180	110	70	209	159	50
6. Karnataka	375	260	115	353	281	72
7. Kerala	250	150	100	302	240	62
8. Madhya Pradesh	299	216	83	292	243	49
9. Maharashtra	375	200	175	337	232	105
10. Orissa	405	300	105	300	239	61
11. Punjab	200	120	80	175	127	48
12. Rajasthan	350	250	100	325	277	48
13. Tamil Nadu	375	200	175	350	234	116
14. Uttar Pradesh	615	428	187	633	531	102
15. West Bengal	475	300	175	465	357	108
Smaller States						
1. Arunachal Pradesh	56	50	6	45	38	7
2. Chhatisgarh	101	84	17	90	80	10
3. Goa	70	40	30	62	44	17
4. Jharkhand	139	92	47	119	94	25
5. Himachal Pradesh	190	140	50	100	72	28
6. Jammu & Kashmir	166	100	66	NA	NA	NA
7. Manipur	150	100	50	132	97	35
8. Meghalaya	120	100	20	60	51	10
9. Mizoram	32	16	16	22	12	11
10. Nagaland	35	25	10	Not Av...Not av.	5
11. Sikkim	60	50	10	57	49	9
12. Tripura	75	60	15	87	78	9
13. Uttaranchal	35	22	13	30	24	6
Union Territories						
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	23	4
4. Daman & Diu	17	15	2	20	19	1
5. Delhi	130	10	120	98	16	83
6. Lakshadweep	10	5	5	13	8	4
7. Pondicherry	40	20	20	36	22	13

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