



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, 2007

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	23.1	24.7	18.6	7.4	8.0	6.0	15.7	16.8	12.7	55	61	37
Bigger states												
1. Andhra Pradesh	18.7	19.5	16.7	7.4	8.0	5.7	11.3	11.5	11.0	54	60	37
2. Assam	24.3	25.7	15.5	8.6	9.1	5.7	15.7	16.6	9.8	66	68	41
3. Bihar	29.4	30.2	22.9	7.5	7.6	6.2	21.9	22.6	16.7	58	59	44
4. Chhattisgarh	26.5	28.0	19.6	8.1	8.5	6.5	18.4	19.5	13.1	59	61	49
5. Delhi	18.1	20.0	17.8	4.8	5.2	4.7	13.4	14.8	13.1	36	41	35
6. Gujarat	23.0	24.5	20.7	7.2	8.1	5.8	15.8	16.4	14.9	52	60	36
7. Haryana	23.4	24.5	20.8	6.6	7.0	5.7	16.8	17.5	15.1	55	60	44
8. Jammu & Kashmir	19.0	20.4	14.1	5.8	6.0	4.9	13.2	14.4	9.2	51	53	38
9. Jharkhand	26.1	27.8	19.0	7.3	7.6	5.8	18.8	20.1	13.2	48	51	31
10. Karnataka	19.9	21.2	17.5	7.3	8.3	5.4	12.6	12.9	12.1	47	52	35
11. Kerala	14.7	14.8	14.5	6.8	6.9	6.4	7.9	7.8	8.0	13	14	10
12. Madhya Pradesh	28.5	30.5	21.5	8.7	9.4	6.2	19.8	21.1	15.3	72	77	50
13. Maharashtra	18.1	18.7	17.3	6.6	7.3	5.7	11.5	11.4	11.6	34	41	24
14. Orissa	21.5	22.4	16.1	9.2	9.5	7.0	12.4	12.9	9.1	71	73	52
15. Punjab	17.6	18.3	16.4	7.0	7.7	5.9	10.6	10.6	10.5	43	47	35
16. Rajasthan	27.9	29.2	23.7	6.8	7.0	6.0	21.1	22.2	17.7	65	72	40
17. Tamil Nadu	15.8	16.0	15.5	7.2	8.0	6.3	8.5	8.0	9.2	35	38	31
18. Uttar Pradesh	29.5	30.5	25.5	8.5	9.0	6.5	21.0	21.5	18.9	69	72	51
19. West Bengal	17.9	19.8	12.7	6.3	6.3	6.4	11.6	13.5	6.3	37	39	29
Smaller states												
1. Arunachal Pradesh	22.2	23.4	17.3	5.1	5.6	3.3	17.0	17.8	13.9	37	41	15
2. Goa	14.7	13.0	15.8	7.2	8.4	6.4	7.5	4.5	9.4	13	11	13
3. Himachal Pradesh	17.4	17.9	12.6	7.1	7.3	5.0	10.4	10.6	7.7	47	49	25
4. Manipur	14.6	14.4	15.2	4.4	4.2	4.9	10.2	10.2	10.3	12	13	9
5. Meghalaya	24.4	26.1	17.0	7.5	7.9	6.0	16.9	18.2	11.0	56	57	46
6. Mizoram	18.2	22.5	13.7	5.2	6.0	4.3	13.0	16.5	9.4	23	27	16
7. Nagaland	17.4	17.7	16.1	5.0	5.4	3.8	12.3	12.3	12.4	21	18	29
8. Sikkim	18.1	18.2	17.5	5.3	5.4	4.4	12.8	12.8	13.1	34	36	20
9. Tripura	17.1	17.9	13.5	6.5	6.6	6.4	10.5	11.3	7.2	39	40	32
10. Uttarakhand	20.4	21.3	17.0	6.8	7.1	5.3	13.6	14.2	11.7	48	52	25
Union Territories												
1. Andaman & Nicobar Islands	15.8	17.7	12.5	4.5	5.1	3.4	11.3	12.6	9.1	34	38	23
2. Chandigarh	15.7	23.1	15.0	4.0	3.2	4.1	11.7	19.9	10.9	27	25	28
3. Dadra & Nagar Haveli	27.8	27.2	30.0	4.8	5.3	3.2	22.9	21.9	26.8	34	38	18
4. Daman & Diu	17.8	19.5	15.1	5.5	5.4	5.7	12.2	14.1	9.4	27	29	23
5. Lakshadweep	18.3	18.1	18.5	6.5	7.3	5.7	11.8	10.8	12.9	24	25	23
6. Puducherry	15.1	15.4	14.9	7.7	8.1	7.5	7.4	7.3	7.4	25	31	22

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2005-07.

Published and issued by Office of the Registrar General, India, Ministry of Home Affairs, Govt. of India, 2-A Mansingh Road, New Delhi 110 011, India

E mail: orgindia@vsnl.net Phone: (91) (11) 2338 3761 Fax: (91) (11) 2338 3145

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

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

India/States/ Union Territories	Birth Rate						Death Rate	
	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	22.9	23.3	24.5	25.0	18.3	18.9	7.3	7.5
Bigger States								
1. Andhra Pradesh	18.1	19.3	18.8	20.3	16.0	17.5	7.0	7.7
2. Assam	22.2	26.3	23.4	28.1	14.5	16.6	8.0	9.2
3. Bihar	28.6	30.2	29.3	31.1	21.5	24.4	7.1	7.9
4. Chhattisgarh	24.6	28.3	25.7	30.3	18.1	21.2	7.4	8.8
5. Delhi	17.2	19.1	17.8	22.2	16.8	18.9	4.4	5.1
6. Gujarat	22.1	23.9	23.3	25.7	19.4	22.0	6.8	7.6
7. Haryana	22.3	24.5	23.1	25.9	19.3	22.3	6.2	7.0
8. Jammu & Kashmir	18.0	20.0	19.2	21.6	12.8	15.5	5.4	6.2
9. Jharkhand	24.8	27.3	26.2	29.3	17.6	20.4	6.8	7.8
10. Karanataka	19.0	20.8	20.1	22.3	16.2	18.8	6.9	7.7
11. Kerala	14.1	15.3	14.1	15.5	13.3	15.7	6.5	7.1
12. Madhya Pradesh	27.5	29.4	29.3	31.6	19.9	23.1	8.3	9.0
13. Maharashtra	17.6	18.6	18.2	19.2	16.3	18.2	6.4	6.9
14. Orissa	20.7	22.3	21.5	23.3	14.9	17.4	8.7	9.6
15. Punjab	16.8	18.3	17.4	19.1	15.0	17.9	6.6	7.4
16. Rajasthan	26.8	29.0	27.9	30.6	21.9	25.5	6.4	7.2
17. Tamil Nadu	15.3	16.3	15.4	16.6	14.8	16.2	6.9	7.6
18. Uttar Pradesh	28.8	30.2	29.6	31.3	24.2	26.8	8.2	8.8
19. West Bengal	17.1	18.6	18.8	20.7	11.8	13.6	6.0	6.6
Smaller States								
1. Arunachal Pradesh	20.0	24.4	20.6	26.1	14.7	19.8		
2. Goa	13.5	15.9	12.0	13.9	13.9	17.7		
3. Himachal Pradesh	16.2	18.7	16.5	19.3	11.1	14.2		
4. Manipur	13.6	15.6	13.2	15.5	13.1	17.3		
5. Meghalaya	22.4	26.4	23.7	28.4	13.3	20.8		
6. Mizoram	16.3	20.1	19.3	25.7	11.6	15.8		
7. Nagaland	15.6	19.2	15.6	19.9	12.9	19.3		
8. Sikkim	17.0	19.1	17.0	19.3	15.2	19.7		
9. Tripura	16.0	18.2	16.6	19.1	11.3	15.8		
10. Uttarakhand	16.4	24.4	16.1	26.5	15.0	19.0		
Union Territories								
1. Andaman & Nicobar Islands	14.0	17.7	15.2	20.1	10.4	14.7		
2. Chandigarh	14.4	17.1	19.1	27.1	13.6	16.5		
3. Dadra & Nagar Haveli	25.8	29.8	24.9	29.5	25.6	34.4		
4. Daman & Diu	15.5	20.0	16.7	22.3	11.6	18.6		
5. Lakshadweep	16.5	20.1	15.3	20.9	16.2	20.9		
6. Puducherry	13.8	16.4	13.7	17.2	13.1	16.7		

Note : Ninety five percent confidence limits for Birth rate, Death rate and Infant mortality rate have been estimated using the formulae $BR \pm 2 \text{ S.E.}(BR)$, $DR \pm 2 \text{ S.E.}(DR)$ and $IMR \pm 2 \text{ S.E.}(IMR)$ respectively.

Birth Rate, Death Rate and Infant Mortality Rate, 2007

Death 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	
7.9	8.1	5.8	6.1	54	57	59	62	36	39	India	
Bigger States											
7.6	8.5	5.1	6.3	49	60	54	67	27	47	1.	Andhra Pradesh
8.3	9.8	5.2	6.3	58	74	59	77	33	49	2.	Assam
7.2	8.0	5.7	6.8	52	63	53	65	38	51	3.	Bihar
7.6	9.3	5.8	7.3	53	66	53	68	41	57	4.	Chhattisgarh
4.3	6.1	4.3	5.0	31	41	26	55	30	41	5.	Delhi
7.6	8.5	5.2	6.4	47	57	54	67	29	43	6.	Gujarat
6.5	7.5	5.0	6.3	50	61	52	67	37	50	7.	Haryana
5.6	6.5	4.2	5.6	45	56	47	59	26	50	8.	Jammu & Kashmir
7.0	8.2	5.2	6.5	43	54	45	57	22	40	9.	Jharkhand
7.8	8.9	4.8	5.9	41	53	44	60	26	43	10.	Karnataka
6.6	7.3	5.7	7.1	8	17	8	19	3	17	11.	Kerala
8.9	9.8	5.5	6.9	67	77	71	82	44	57	12.	Madhya Pradesh
7.0	7.6	5.3	6.1	31	37	39	44	18	29	13.	Maharashtra
9.0	10.0	6.3	7.7	65	77	66	80	43	60	14.	Orissa
7.2	8.2	5.3	6.5	37	49	39	56	27	43	15.	Punjab
6.6	7.5	5.2	6.7	60	70	66	77	32	48	16.	Rajasthan
7.6	8.4	5.8	6.8	31	39	33	44	25	37	17.	Tamil Nadu
8.6	9.3	6.1	7.0	65	73	68	77	46	55	18.	Uttar Pradesh
5.9	6.6	6.0	6.8	32	41	33	44	23	35	19.	West Bengal
Smaller States											
1. Arunachal Pradesh											
2. Goa											
3. Himachal Pradesh											
4. Manipur											
5. Meghalaya											
6. Mizoram											
7. Nagaland											
8. Sikkim											
9. Tripura											
10. Uttarakhand											
Union Territories											
1. Andaman & Nicobar Islands											
2. Chandigarh											
3. Dadra & Nagar Haveli											
4. Daman & Diu											
5. Lakshadweep											
6. Puducherry											

Confidence limits of Death Rate and Infant Mortality Rate for smaller States and Union Territories have not been presented due to small sample size and very large variations between the Upper and Lower tolerance limits.

Table 3: Death rate by sex and residence, 2007

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	7.4	8.0	6.9	8.0	8.5	7.4	6.0	6.5	5.4
Bigger States									
1. Andhra Pradesh	7.4	8.1	6.6	8.0	8.9	7.2	5.7	6.2	5.3
2. Assam	8.6	8.7	8.5	9.1	9.0	9.2	5.7	6.8	4.6
3. Bihar	7.5	7.6	7.4	7.6	7.7	7.6	6.2	6.5	5.9
4. Chhattisgarh	8.1	8.2	8.0	8.5	8.4	8.6	6.5	7.5	5.5
5. Delhi	4.8	5.0	4.5	5.2	5.7	4.6	4.7	4.9	4.5
6. Gujarat	7.2	7.6	6.7	8.1	8.7	7.4	5.8	6.1	5.5
7. Haryana	6.6	7.6	5.5	7.0	8.1	5.8	5.7	6.4	4.8
8. Jammu & Kashmir	5.8	6.2	5.3	6.0	6.5	5.6	4.9	5.4	4.4
9. Jharkhand	7.3	8.0	6.6	7.6	8.4	6.8	5.8	6.1	5.5
10. Karnataka	7.3	8.2	6.4	8.3	9.2	7.4	5.4	6.3	4.5
11. Kerala	6.8	7.8	5.9	6.9	8.1	5.9	6.4	6.9	6.0
12. Madhya Pradesh	8.7	9.2	8.1	9.4	9.9	8.8	6.2	6.7	5.6
13. Maharashtra	6.6	7.2	6.1	7.3	8.0	6.6	5.7	6.2	5.2
14. Orissa	9.2	9.5	8.8	9.5	9.7	9.3	7.0	8.2	5.8
15. Punjab	7.0	7.7	6.3	7.7	8.4	6.9	5.9	6.5	5.2
16. Rajasthan	6.8	7.1	6.4	7.0	7.4	6.7	6.0	6.3	5.6
17. Tamil Nadu	7.2	7.9	6.6	8.0	8.8	7.1	6.3	6.7	5.9
18. Uttar Pradesh	8.5	8.9	8.0	9.0	9.3	8.5	6.5	7.1	5.9
19. West Bengal	6.3	6.9	5.6	6.3	6.9	5.6	6.4	7.1	5.6
Smaller States									
1. Arunachal Pradesh	5.1	4.9	5.3	5.6	5.5	5.6	3.3	2.6	4.1
2. Goa	7.2	8.7	5.7	8.4	10.0	6.9	6.4	7.9	4.9
3. Himachal Pradesh	7.1	8.1	6.1	7.3	8.4	6.2	5.0	5.5	4.5
4. Manipur	4.4	5.4	3.4	4.2	5.2	3.2	4.9	6.0	3.8
5. Meghalaya	7.5	8.4	6.7	7.9	8.6	7.1	6.0	7.3	4.7
6. Mizoram	5.2	5.9	4.5	6.0	7.4	4.6	4.3	4.2	4.4
7. Nagaland	5.0	7.0	3.0	5.4	7.5	3.2	3.8	4.9	2.5
8. Sikkim	5.3	5.4	5.1	5.4	5.5	5.3	4.4	4.7	4.0
9. Tripura	6.5	7.3	5.8	6.6	7.3	5.8	6.4	6.9	5.9
10. Uttarakhand	6.8	8.3	5.2	7.1	8.8	5.4	5.3	6.1	4.4
Union Territories									
1. Andaman & Nicobar Islands	4.5	5.0	3.9	5.1	5.8	4.3	3.4	3.6	3.2
2. Chandigarh	4.0	4.4	3.6	3.2	3.4	2.8	4.1	4.5	3.6
3. Dadra & Nagar Haveli	4.8	5.1	4.5	5.3	5.6	4.9	3.2	3.2	3.2
4. Daman & Diu	5.5	5.8	5.2	5.4	5.5	5.4	5.7	6.5	4.8
5. Lakshadweep	6.5	5.9	7.0	7.3	7.3	7.3	5.7	4.5	6.8
6. Puducherry	7.7	9.3	6.2	8.1	9.5	6.8	7.5	9.2	5.9

Table 4: Infant mortality rate by sex and residence, 2007

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	55	55	56	61	60	61	37	36	39
Bigger States									
1. Andhra Pradesh	54	54	55	60	60	61	37	36	38
2. Assam	66	64	67	68	67	70	41	40	42
3. Bihar	58	57	58	59	59	59	44	42	47
4. Chhattisgarh	59	58	61	61	60	62	49	46	52
5. Delhi	36	36	36	41	43	39	35	34	36
6. Gujarat	52	50	54	60	59	62	36	34	38
7. Haryana	55	55	56	60	59	61	44	44	44
8. Jammu & Kashmir	51	49	52	53	52	55	38	37	39
9. Jharkhand	48	47	49	51	50	52	31	31	31
10. Karnataka	47	46	47	52	52	53	35	34	36
11. Kerala	13	12	13	14	13	14	10	9	11
12. Madhya Pradesh	72	72	72	77	77	77	50	50	51
13. Maharashtra	34	33	35	41	41	42	24	21	26
14. Orissa	71	70	72	73	72	74	52	49	55
15. Punjab	43	42	45	47	45	50	35	35	36
16. Rajasthan	65	63	67	72	70	74	40	39	41
17. Tamil Nadu	35	34	36	38	38	39	31	30	33
18. Uttar Pradesh	69	67	70	72	71	74	51	50	51
19. West Bengal	37	36	37	39	38	39	29	29	29
Smaller States									
1. Arunachal Pradesh	37	35	38						
2. Goa	13	11	14						
3. Himachal Pradesh	47	45	49						
4. Manipur	12	9	15						
5. Meghalaya	56	55	56						
6. Mizoram	23	21	25						
7. Nagaland	21	21	20						
8. Sikkim	34	26	43						
9. Tripura	39	37	41						
10. Uttarakhand	48	47	48						
<p>Infant mortality rates for smaller States and Union Territories are based on three-years period 2005-07. On account of wide year-to-year fluctuations due to inadequate sample size, the infant mortality rate by sex, separately for rural and urban areas is not given.</p>									
Union Territories									
1. Andaman & Nicobar Islands	34	26	42						
2. Chandigarh	27	24	32						
3. Dadra & Nagar Haveli	34	28	40						
4. Daman & Diu	27	22	34						
5. Lakshadweep	24	28	21						
6. Puducherry	25	15	35						

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 & mortality indicators at the national and sub-national levels. Initiated on a pilot basis by the OFFICE OF THE REGISTRAR GENERAL, INDIA in a few selected states in 1964-65, it became fully operational during 1969-70 with about 3700 sample units. The field investigation consists of continuous enumeration of births and deaths in selected sample units by resident part time enumerators, generally anganwadi workers & teachers, and an independent survey every six months by SRS supervisors. The data obtained by these two independent functionaries 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 sample unit in rural areas is a village or a segment of it, if the village population is 2000 or more. In urban areas, the sampling unit is a census enumeration block with population ranging from 750 to 1000. The SRS sample is replaced every ten years based on the latest census frame. It had been a practice to stagger the replacement process over 2-3 years. However, the latest replacement has been carried out in one go. Effective from January 2004, this sample is based on the 2001 Census frame. At present, SRS is operational in 7,597 sample units (4,433 rural and 3,164 urban) spread across all States and Union territories and covers about 1.4 million households and 7.01 million population.

Number of sample units and population covered, India, States and Union Territories, 2007

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	7,597	4,433	3,164	7017	5147	1870
Bigger States						
1. Andhra Pradesh	375	235	140	402	316	86
2. Assam	300	90	210	202	89	113
3. Bihar	330	200	130	346	280	66
4. Chhattisgarh	130	40	90	103	43	60
5. Delhi	200	10	190	151	18	132
6. Gujarat	365	215	150	356	277	78
7. Haryana	210	100	110	208	133	75
8. Jammu & Kashmir	260	150	110	218	168	50
9. Jharkhand	170	60	110	115	61	54
10. Karnataka	480	330	150	435	355	81
11. Kerala	250	150	100	340	278	62
12. Madhya Pradesh	340	220	120	313	240	73
13. Maharashtra	485	250	235	404	274	130
14. Orissa	405	290	115	333	267	66
15. Punjab	250	150	100	240	174	66
16. Rajasthan	350	250	100	327	276	50
17. Tamil Nadu	465	250	215	460	326	133
18. Uttar Pradesh	500	350	150	553	454	98
19. West Bengal	555	310	245	576	418	158
Smaller States						
1. Arunachal Pradesh	60	45	15	32	21	10
2. Goa	85	43	42	79	56	23
3. Himachal Pradesh	190	140	50	94	68	26
4. Manipur	150	110	40	133	109	24
5. Meghalaya	120	90	30	64	48	17
6. Mizoram	40	20	20	30	17	13
7. Nagaland	45	33	12	36	29	8
8. Sikkim	60	45	15	60	50	10
9. Tripura	80	60	20	107	95	12
10. Uttarakhand	150	100	50	110	81	30
Union Territories						
1. Andaman & Nicobar Islands	50	34	16	33	24	9
2. Chandigarh	35	5	30	32	10	22
3. Dadra & Nagar Haveli	30	22	8	39	34	5
4. Daman & Diu	20	13	7	28	23	5
5. Lakshadweep	12	6	6	15	10	5
6. Puducherry	50	17	33	45	25	20

Note: 1. Population figures exclude that of 1 urban unit of Delhi, and 4 rural units of Andaman & Nicobar Islands due to non-receipt of returns.

2. 'Total' population may not add up to 'Rural' and 'Urban' population due to rounding.