



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

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Table 1: Estimated Birth rate, Death rate, Natural growth rate and Infant mortality rate, 2010

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	22.1	23.7	18.0	7.2	7.7	5.8	14.9	15.9	12.2	47	51	31
Bigger states												
1. Andhra Pradesh	17.9	18.3	16.7	7.6	8.6	5.4	10.2	9.7	11.3	46	51	33
2. Assam	23.2	24.4	15.8	8.2	8.6	5.8	14.9	15.8	10.1	58	60	36
3. Bihar	28.1	28.8	22.0	6.8	7.0	5.6	21.3	21.8	16.4	48	49	38
4. Chhattisgarh	25.3	26.8	18.6	8.0	8.4	6.2	17.3	18.4	12.4	51	52	44
5. Delhi	17.8	19.7	17.5	4.2	4.6	4.1	13.6	15.0	13.4	30	37	29
6. Gujarat	21.8	23.3	19.4	6.7	7.5	5.5	15.1	15.8	14.0	44	51	30
7. Haryana	22.3	23.3	19.8	6.6	7.0	5.6	15.7	16.3	14.3	48	51	38
8. Jammu & Kashmir	18.3	19.5	13.5	5.7	5.9	4.7	12.6	13.6	8.8	43	45	32
9. Jharkhand	25.3	26.7	19.3	7.0	7.4	5.4	18.3	19.3	13.9	42	44	30
10. Karnataka	19.2	20.2	17.5	7.1	8.1	5.4	12.1	12.1	12.1	38	43	28
11. Kerala	14.8	14.8	14.8	7.0	7.1	6.7	7.8	7.7	8.1	13	14	10
12. Madhya Pradesh	27.3	29.2	20.5	8.3	9.0	6.0	18.9	20.2	14.5	62	67	42
13. Maharashtra	17.1	17.6	16.4	6.5	7.5	5.3	10.6	10.2	11.1	28	34	20
14. Odisha	20.5	21.4	15.2	8.6	9.0	6.6	11.9	12.4	8.6	61	63	43
15. Punjab	16.6	17.2	15.6	7.0	7.7	5.8	9.6	9.5	9.8	34	37	28
16. Rajasthan	26.7	27.9	22.9	6.7	6.9	6.0	20.0	20.9	16.9	55	61	31
17. Tamil Nadu	15.9	16.0	15.8	7.6	8.2	6.9	8.3	7.8	8.9	24	25	22
18. Uttar Pradesh	28.3	29.2	24.2	8.1	8.5	6.3	20.2	20.7	17.9	61	64	44
19. West Bengal	16.8	18.6	11.9	6.0	6.0	6.3	10.7	12.6	5.6	31	32	25
Smaller states												
1. Arunachal Pradesh	20.5	22.1	14.6	5.9	6.9	2.3	14.6	15.2	12.3	31	34	12
2. Goa	13.2	12.6	13.7	6.6	8.1	5.7	6.6	4.5	8.0	10	10	10
3. Himachal Pradesh	16.9	17.5	11.5	6.9	7.2	4.2	10.0	10.3	7.3	40	41	29
4. Manipur	14.9	14.8	15.3	4.2	4.3	4.0	10.7	10.5	11.3	14	15	9
5. Meghalaya	24.5	26.6	14.8	7.9	8.4	5.6	16.6	18.2	9.2	55	58	37
6. Mizoram	17.1	21.1	13.0	4.5	5.4	3.7	12.5	15.7	9.3	37	47	21
7. Nagaland	16.8	17.0	16.0	3.6	3.7	3.3	13.2	13.3	12.7	23	24	20
8. Sikkim	17.8	18.1	16.1	5.6	5.9	3.8	12.3	12.3	12.3	30	31	19
9. Tripura	14.9	15.6	11.5	5.0	4.8	5.7	9.9	10.8	5.8	27	29	19
10. Uttarakhand	19.3	20.2	16.2	6.3	6.7	5.1	13.0	13.5	11.1	38	41	25
Union Territories												
1. Andaman & Nicobar Islands	15.6	15.5	15.8	4.3	4.8	3.3	11.3	10.7	12.6	25	29	18
2. Chandigarh	15.6	21.6	15.0	3.9	3.7	3.9	11.6	17.9	11.0	22	20	23
3. Dadra & Nagar Haveli	26.6	26.0	28.6	4.7	5.1	3.3	21.9	20.9	25.3	38	43	22
4. Daman & Diu	18.8	19.1	18.3	4.9	4.9	4.8	13.9	14.2	13.6	23	19	29
5. Lakshadweep	14.3	15.5	13.2	6.4	6.1	6.7	8.0	9.5	6.5	25	23	27
6. Puducherry	16.7	16.7	16.7	7.4	8.2	7.0	9.3	8.5	9.6	22	25	21

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2008-10.

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E mail: rgi.rgi@nic.in 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	21.9	22.4	23.4	24.0	17.6	18.4	7.1	7.3
Bigger States								
1. Andhra Pradesh	17.2	18.5	17.6	19.1	15.5	18.0	7.3	8.0
2. Assam	21.4	24.9	22.4	26.4	14.8	16.9	7.6	8.8
3. Bihar	27.4	28.8	28.0	29.6	20.5	23.5	6.5	7.2
4. Chhattisgarh	23.2	27.4	24.2	29.4	17.1	20.1	7.3	8.7
5. Delhi	16.7	18.9	16.5	22.8	16.4	18.7	3.8	4.6
6. Gujarat	20.9	22.7	22.1	24.5	18.1	20.7	6.3	7.1
7. Haryana	21.2	23.3	21.9	24.7	18.7	21.0	6.2	7.0
8. Jammu & Kashmir	17.3	19.2	18.4	20.7	12.5	14.5	5.3	6.0
9. Jharkhand	24.0	26.6	25.2	28.3	18.4	20.2	6.3	7.8
10. Karnataka	17.8	20.7	18.1	22.2	15.6	19.4	6.5	7.8
11. Kerala	14.2	15.4	14.1	15.5	13.5	16.1	6.7	7.3
12. Madhya Pradesh	26.3	28.2	28.0	30.4	19.0	22.0	7.9	8.8
13. Maharashtra	16.5	17.7	17.2	18.1	15.1	17.6	6.3	6.8
14. Odisha	19.7	21.3	20.5	22.3	14.2	16.2	8.3	8.9
15. Punjab	15.9	17.3	16.3	18.1	14.6	16.7	6.6	7.3
16. Rajasthan	25.6	27.7	26.6	29.1	21.3	24.4	6.3	7.1
17. Tamil Nadu	15.5	16.4	15.5	16.6	15.1	16.5	7.3	8.0
18. Uttar Pradesh	27.5	29.1	28.4	30.0	22.4	25.9	7.7	8.4
19. West Bengal	16.1	17.4	17.8	19.4	11.0	12.8	5.8	6.3
Smaller States								
1. Arunachal Pradesh	18.3	22.6	19.3	24.9	12.5	16.8		
2. Goa	12.0	14.5	11.3	13.8	11.9	15.5		
3. Himachal Pradesh	15.9	18.0	16.3	18.7	10.3	12.7		
4. Manipur	13.9	15.9	13.6	15.9	13.6	17.1		
5. Meghalaya	22.3	26.7	24.0	29.2	11.6	18.0		
6. Mizoram	15.1	19.0	17.5	24.6	11.2	14.8		
7. Nagaland	14.0	19.5	13.5	20.5	13.4	18.5		
8. Sikkim	16.9	18.8	17.1	19.1	14.0	18.2		
9. Tripura	13.9	15.8	14.5	16.7	9.5	13.4		
10. Uttarakhand	15.7	23.0	15.3	25.0	14.4	18.0		
Union Territories								
1. Andaman & Nicobar Islands	13.7	17.6	12.7	18.4	14.2	17.4		
2. Chandigarh	13.7	17.5	17.0	26.2	12.9	17.0		
3. Dadra & Nagar Haveli	23.3	29.8	23.0	29.1	18.2	39.0		
4. Daman & Diu	15.5	22.1	16.6	21.6	10.6	26.0		
5. Lakshadweep	12.4	16.3	12.5	18.5	10.7	15.6		
6. Puducherry	15.0	18.3	15.1	18.4	14.3	19.0		

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, 2010

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
7.6	7.9	5.6	5.9	46	48	50	53	29	33	India
Bigger States										
8.1	9.1	4.9	5.9	40	51	44	58	24	41	1. Andhra Pradesh
8.0	9.3	5.2	6.4	49	67	51	70	27	45	2. Assam
6.6	7.4	5.0	6.2	44	52	44	53	28	47	3. Bihar
7.5	9.3	5.5	7.0	45	57	46	59	34	53	4. Chhattisgarh
3.4	5.9	3.7	4.6	25	35	23	50	23	34	5. Delhi
7.0	7.9	4.8	6.1	39	48	46	57	23	37	6. Gujarat
6.5	7.5	5.0	6.1	42	53	44	58	31	45	7. Haryana
5.5	6.3	4.2	5.3	37	49	38	52	19	44	8. Jammu & Kashmir
6.6	8.3	4.7	6.0	35	49	36	52	20	40	9. Jharkhand
7.2	9.0	4.7	6.1	33	43	36	49	20	36	10. Karanataka
6.7	7.5	6.1	7.4	10	17	10	19	4	16	11. Kerala
8.5	9.5	5.3	6.7	57	68	61	73	32	51	12. Madhya Pradesh
7.2	7.7	4.8	5.7	25	32	30	37	13	27	13. Maharashtra
8.6	9.3	6.1	7.1	55	66	57	69	33	52	14. Odisha
7.2	8.1	5.3	6.4	29	39	32	43	19	37	15. Punjab
6.5	7.4	5.3	6.7	50	59	56	66	21	41	16. Rajasthan
7.8	8.6	6.4	7.4	20	27	21	30	16	28	17. Tamil Nadu
8.2	8.8	5.7	6.8	57	64	60	67	38	50	18. Uttar Pradesh
5.7	6.2	5.9	6.7	26	35	27	37	17	33	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, 2010

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	7.2	7.7	6.7	7.7	8.3	7.2	5.8	6.2	5.3
Bigger States									
1. Andhra Pradesh	7.6	8.3	7.0	8.6	9.3	8.0	5.4	5.9	4.9
2. Assam	8.2	8.7	7.7	8.6	9.1	8.1	5.8	6.5	5.0
3. Bihar	6.8	7.1	6.6	7.0	7.2	6.7	5.6	5.7	5.4
4. Chhattisgarh	8.0	8.2	7.8	8.4	8.6	8.2	6.2	6.6	5.8
5. Delhi	4.2	4.5	3.9	4.6	4.7	4.5	4.1	4.4	3.7
6. Gujarat	6.7	7.1	6.3	7.5	7.9	7.0	5.5	5.8	5.1
7. Haryana	6.6	7.1	6.0	7.0	7.6	6.4	5.6	6.0	5.1
8. Jammu & Kashmir	5.7	5.6	5.7	5.9	5.8	6.0	4.7	4.9	4.5
9. Jharkhand	7.0	7.2	6.9	7.4	7.6	7.3	5.4	5.6	5.1
10. Karnataka	7.1	7.7	6.6	8.1	8.8	7.4	5.4	5.6	5.2
11. Kerala	7.0	7.7	6.3	7.1	7.9	6.3	6.7	7.1	6.4
12. Madhya Pradesh	8.3	9.1	7.6	9.0	9.9	8.1	6.0	6.2	5.8
13. Maharashtra	6.5	7.0	6.0	7.5	8.1	6.8	5.3	5.5	5.0
14. Odisha	8.6	9.3	8.0	9.0	9.7	8.3	6.6	7.1	6.1
15. Punjab	7.0	7.6	6.4	7.7	8.4	6.9	5.8	6.2	5.5
16. Rajasthan	6.7	7.2	6.2	6.9	7.5	6.3	6.0	6.2	5.8
17. Tamil Nadu	7.6	8.4	6.8	8.2	9.0	7.4	6.9	7.7	6.1
18. Uttar Pradesh	8.1	8.6	7.5	8.5	9.0	7.9	6.3	6.8	5.6
19. West Bengal	6.0	6.5	5.6	6.0	6.4	5.5	6.3	6.9	5.7
Smaller States									
1. Arunachal Pradesh	5.9	6.3	5.5	6.9	7.2	6.6	2.3	3.1	1.5
2. Goa	6.6	7.6	5.6	8.1	9.0	7.2	5.7	6.7	4.7
3. Himachal Pradesh	6.9	7.8	6.1	7.2	8.1	6.3	4.2	4.8	3.5
4. Manipur	4.2	4.8	3.6	4.3	4.7	3.9	4.0	5.2	2.9
5. Meghalaya	7.9	9.1	6.7	8.4	9.6	7.2	5.6	6.9	4.4
6. Mizoram	4.5	5.5	3.6	5.4	5.7	5.1	3.7	5.4	2.1
7. Nagaland	3.6	4.3	2.9	3.7	4.4	2.9	3.3	3.8	2.8
8. Sikkim	5.6	7.3	3.7	5.9	7.6	4.0	3.8	5.2	2.2
9. Tripura	5.0	6.0	4.0	4.8	5.6	4.1	5.7	7.7	3.7
10. Uttarakhand	6.3	6.7	5.9	6.7	7.2	6.1	5.1	5.2	5.0
Union Territories									
1. Andaman & Nicobar Islands	4.3	5.3	3.2	4.8	6.0	3.6	3.3	4.0	2.5
2. Chandigarh	3.9	3.6	4.3	3.7	4.2	3.0	3.9	3.5	4.4
3. Dadra & Nagar Haveli	4.7	4.7	4.7	5.1	5.2	5.0	3.3	2.8	3.8
4. Daman & Diu	4.9	5.1	4.6	4.9	5.4	4.4	4.8	4.7	4.8
5. Lakshadweep	6.4	7.5	5.3	6.1	6.2	6.0	6.7	8.8	4.7
6. Puducherry	7.4	9.1	5.9	8.2	10.4	6.1	7.0	8.4	5.8

Table 4: Infant mortality rate by sex and residence, 2010

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	47	46	49	51	50	53	31	30	33
Bigger States									
1. Andhra Pradesh	46	44	47	51	50	51	33	29	36
2. Assam	58	56	60	60	59	62	36	35	38
3. Bihar	48	46	50	49	47	51	38	36	40
4. Chhattisgarh	51	48	54	52	49	55	44	41	46
5. Delhi	30	29	31	37	32	42	29	28	29
6. Gujarat	44	41	47	51	48	54	30	28	33
7. Haryana	48	46	49	51	51	52	38	35	42
8. Jammu & Kashmir	43	41	45	45	43	47	32	28	37
9. Jharkhand	42	41	44	44	43	46	30	28	31
10. Karnataka	38	37	39	43	42	44	28	28	28
11. Kerala	13	13	14	14	14	15	10	10	11
12. Madhya Pradesh	62	62	63	67	66	67	42	41	42
13. Maharashtra	28	27	29	34	33	35	20	19	21
14. Odisha	61	60	61	63	62	63	43	40	46
15. Punjab	34	33	35	37	36	39	28	27	29
16. Rajasthan	55	52	57	61	58	64	31	29	34
17. Tamil Nadu	24	23	24	25	25	26	22	22	22
18. Uttar Pradesh	61	58	63	64	61	67	44	44	45
19. West Bengal	31	29	32	32	31	33	25	24	27
Smaller States									
1. Arunachal Pradesh	31	31	32						
2. Goa	10	6	15						
3. Himachal Pradesh	40	35	47						
4. Manipur	14	11	16						
5. Meghalaya	55	55	56						
6. Mizoram	37	36	39						
7. Nagaland	23	19	28						
8. Sikkim	30	28	32						
9. Tripura	27	25	29						
10. Uttarakhand	38	37	39						
Infant mortality rates for smaller States and Union Territories are based on three-years period 2008-10. 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.									
Union Territories									
1. Andaman & Nicobar Islands	25	24	27						
2. Chandigarh	22	20	25						
3. Dadra & Nagar Haveli	38	36	40						
4. Daman & Diu	23	22	23						
5. Lakshadweep	25	21	29						
6. Puducherry	22	22	22						

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 1.5 million households and 7.27 million population.

Number of sample units and population covered, India, States and Union Territories, 2010

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	7270	5320	1950
Bigger States						
1. Andhra Pradesh	375	235	140	410	320	90
2. Assam	300	90	210	216	94	122
3. Bihar	330	200	130	365	296	68
4. Chhattisgarh	130	40	90	108	45	63
5. Delhi	200	10	190	165	20	145
6. Gujarat	365	215	150	367	286	81
7. Haryana	210	100	110	215	138	78
8. Jammu & Kashmir	260	150	110	224	174	50
9. Jharkhand	170	60	110	119	64	56
10. Karnataka	480	330	150	439	356	83
11. Kerala	250	150	100	352	286	66
12. Madhya Pradesh	340	220	120	323	249	74
13. Maharashtra	485	250	235	412	279	134
14. Odisha	405	290	115	341	273	68
15. Punjab	250	150	100	244	177	67
16. Rajasthan	350	250	100	340	288	52
17. Tamil Nadu	465	250	215	470	332	138
18. Uttar Pradesh	500	350	150	575	474	101
19. West Bengal	555	310	245	600	436	164
Smaller States						
1. Arunachal Pradesh	60	45	15	34	22	12
2. Goa	85	43	42	81	57	24
3. Himachal Pradesh	190	140	50	97	70	27
4. Manipur	150	110	40	137	112	25
5. Meghalaya	120	90	30	69	51	17
6. Mizoram	40	20	20	32	18	14
7. Nagaland	45	33	12	37	29	8
8. Sikkim	60	45	15	65	54	11
9. Tripura	80	60	20	113	100	12
10. Uttarakhand	150	100	50	115	84	31
Union Territories						
1. Andaman & Nicobar Islands	50	34	16	40	30	11
2. Chandigarh	35	5	30	34	11	23
3. Dadra & Nagar Haveli	30	22	8	41	35	5
4. Daman & Diu	20	13	7	28	23	4
5. Lakshadweep	12	6	6	15	10	4
6. Puducherry	50	17	33	47	26	21

Note: 1. 'Total' population may not add up to 'Rural' and 'Urban' population due to rounding.