



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, 2011

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	21.8	23.3	17.6	7.1	7.6	5.7	14.7	15.7	11.9	44	48	29
Bigger states												
1. Andhra Pradesh	17.5	17.8	16.6	7.5	8.5	5.2	10.0	9.4	11.3	43	47	31
2. Assam	22.8	24.0	15.5	8.0	8.4	5.6	14.8	15.6	9.9	55	58	34
3. Bihar	27.7	28.4	21.7	6.7	6.9	5.5	21.0	21.5	16.2	44	45	34
4. Chhattisgarh	24.9	26.3	18.3	7.9	8.3	6.1	17.0	18.0	12.2	48	49	41
5. Delhi	17.5	19.3	17.2	4.3	4.7	4.3	13.2	14.6	12.9	28	36	26
6. Gujarat	21.3	22.9	19.0	6.7	7.4	5.7	14.6	15.5	13.3	41	48	27
7. Haryana	21.8	22.9	19.5	6.5	7.0	5.3	15.4	15.9	14.1	44	48	35
8. Jammu & Kashmir	17.8	19.1	13.1	5.5	5.7	4.7	12.3	13.4	8.4	41	43	28
9. Jharkhand	25.0	26.3	19.0	6.9	7.3	5.2	18.1	19.1	13.8	39	41	28
10. Karnataka	18.8	19.7	17.2	7.1	8.0	5.4	11.7	11.7	11.8	35	39	26
11. Kerala	15.2	15.4	14.4	7.0	7.1	6.6	8.2	8.3	7.8	12	13	9
12. Madhya Pradesh	26.9	28.8	20.1	8.2	8.7	6.1	18.7	20.1	13.9	59	63	39
13. Maharashtra	16.7	17.3	15.8	6.3	7.3	5.1	10.3	10.0	10.8	25	30	17
14. Odisha	20.1	21.0	14.7	8.5	8.8	6.5	11.6	12.1	8.2	57	58	40
15. Punjab	16.2	16.8	15.2	6.8	7.5	5.6	9.4	9.4	9.5	30	33	25
16. Rajasthan	26.2	27.4	22.5	6.7	7.0	5.8	19.6	20.5	16.7	52	57	32
17. Tamil Nadu	15.9	16.0	15.7	7.4	8.1	6.4	8.5	8.0	9.3	22	24	19
18. Uttar Pradesh	27.8	28.8	23.7	7.9	8.3	6.1	20.0	20.5	17.7	57	60	41
19. West Bengal	16.3	18.1	11.5	6.2	6.1	6.5	10.1	12.0	5.0	32	33	26
Smaller states												
1. Arunachal Pradesh	19.8	21.4	14.2	5.8	6.8	2.5	14.0	14.7	11.6	32	36	10
2. Goa	13.3	12.5	13.7	6.7	8.0	5.9	6.6	4.5	7.8	11	6	13
3. Himachal Pradesh	16.5	17.1	11.2	6.7	7.0	3.6	9.8	10.0	7.6	38	38	28
4. Manipur	14.4	14.2	15.0	4.1	4.1	4.2	10.3	10.2	10.8	11	11	12
5. Meghalaya	24.1	26.2	14.6	7.8	8.3	5.5	16.3	17.9	9.1	52	54	38
6. Mizoram	16.6	20.6	12.6	4.4	5.4	3.4	12.2	15.2	9.2	34	43	19
7. Nagaland	16.1	16.3	15.5	3.3	3.4	2.9	12.8	12.9	12.5	21	21	20
8. Sikkim	17.6	17.7	16.6	5.6	5.9	3.5	12.0	11.8	13.1	26	28	17
9. Tripura	14.3	15.1	11.0	5.0	4.9	5.4	9.4	10.2	5.6	29	31	19
10. Uttarakhand	18.9	19.7	16.0	6.2	6.5	4.9	12.8	13.2	11.2	36	39	23
Union Territories												
1. Andaman & Nicobar Islands	15.1	14.9	15.3	4.6	5.1	3.6	10.5	9.8	11.7	23	28	14
2. Chandigarh	15.0	21.2	14.4	4.1	3.6	4.1	11.0	17.6	10.3	20	19	20
3. Dadra & Nagar Haveli	26.1	25.5	28.1	4.6	5.1	3.0	21.4	20.4	25.1	35	39	22
4. Daman & Diu	18.4	18.8	17.9	4.9	5.0	4.8	13.5	13.7	13.2	22	18	29
5. Lakshadweep	14.7	15.7	13.7	6.4	6.0	6.7	8.3	9.7	7.0	24	21	27
6. Puducherry	16.1	16.4	15.9	7.2	7.9	6.8	8.9	8.5	9.1	19	21	18

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2009-11.

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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	21.6	22.0	23.1	23.6	17.3	17.9	7.0	7.2
Bigger States								
1. Andhra Pradesh	16.9	18.0	17.2	18.5	15.5	17.6	7.1	7.9
2. Assam	21.1	24.5	22.1	26.0	14.5	16.5	7.5	8.6
3. Bihar	26.9	28.5	27.5	29.2	20.2	23.2	6.4	7.1
4. Chhattisgarh	23.0	26.7	24.0	28.6	17.0	19.5	7.1	8.7
5. Delhi	16.2	18.8	14.8	23.8	15.9	18.4	3.8	4.8
6. Gujarat	20.5	22.2	21.6	24.1	17.7	20.2	6.4	7.1
7. Haryana	20.7	23.0	21.4	24.4	18.2	20.8	6.0	6.9
8. Jammu & Kashmir	16.9	18.8	17.9	20.2	11.8	14.3	5.2	5.8
9. Jharkhand	23.1	26.8	24.1	28.6	18.0	20.0	6.1	7.6
10. Karnataka	17.8	19.8	18.3	21.1	16.1	18.3	6.7	7.4
11. Kerala	14.5	15.8	14.6	16.2	13.4	15.5	6.7	7.3
12. Madhya Pradesh	26.0	27.8	27.7	29.9	18.6	21.5	7.8	8.6
13. Maharashtra	16.2	17.2	16.8	17.7	14.8	16.9	6.1	6.6
14. Odisha	19.4	20.8	20.2	21.8	13.5	15.9	8.1	8.9
15. Punjab	15.5	17.0	15.9	17.7	13.8	16.5	6.4	7.2
16. Rajasthan	25.3	27.2	26.3	28.5	20.5	24.4	6.3	7.0
17. Tamil Nadu	15.5	16.3	15.5	16.5	15.1	16.3	7.1	7.6
18. Uttar Pradesh	27.1	28.5	27.9	29.6	22.4	25.0	7.5	8.2
19. West Bengal	15.7	17.0	17.3	19.0	10.6	12.4	6.0	6.5
Smaller States								
1. Arunachal Pradesh	17.7	22.0	18.6	24.2	12.1	16.3		
2. Goa	12.2	14.4	11.4	13.7	12.1	15.4		
3. Himachal Pradesh	15.4	17.6	15.8	18.3	9.8	12.6		
4. Manipur	13.6	15.3	13.3	15.2	13.2	16.8		
5. Meghalaya	22.0	26.2	23.7	28.6	12.1	17.2		
6. Mizoram	13.8	19.5	15.9	25.3	9.8	15.3		
7. Nagaland	13.6	18.6	13.1	19.5	13.0	17.9		
8. Sikkim	16.7	18.5	16.8	18.7	14.0	19.2		
9. Tripura	13.4	15.3	14.1	16.1	8.8	13.1		
10. Uttarakhand	15.3	22.6	15.1	24.3	13.8	18.2		
Union Territories								
1. Andaman & Nicobar Islands	13.5	16.6	12.7	17.2	13.6	17.0		
2. Chandigarh	12.7	17.4	17.5	24.8	11.8	17.0		
3. Dadra & Nagar Haveli	23.0	29.1	22.2	28.8	20.9	35.3		
4. Daman & Diu	15.5	21.4	15.8	21.7	11.7	24.2		
5. Lakshadweep	12.4	17.1	12.0	19.4	10.9	16.6		
6. Puducherry	14.8	17.3	14.3	18.4	14.4	17.4		

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, 2011

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
7.5	7.7	5.5	5.8	43	46	47	50	27	31	India
Bigger States										
8.0	9.0	4.8	5.7	37	48	40	55	23	40	1. Andhra Pradesh
7.8	9.1	5.1	6.1	48	63	50	66	24	43	2. Assam
6.5	7.3	4.8	6.2	39	49	39	50	24	45	3. Bihar
7.3	9.3	5.3	6.8	38	59	37	61	33	50	4. Chhattisgarh
2.7	6.7	3.8	4.7	21	34	18	54	19	33	5. Delhi
7.0	7.8	5.0	6.4	36	45	42	53	20	34	6. Gujarat
6.4	7.6	4.7	6.0	38	51	40	56	26	43	7. Haryana
5.3	6.1	4.1	5.3	34	47	36	50	16	41	8. Jammu & Kashmir
6.3	8.2	4.5	5.8	31	47	32	50	17	40	9. Jharkhand
7.5	8.5	4.9	6.0	29	40	31	47	18	34	10. Karnataka
6.8	7.5	6.0	7.2	9	15	10	16	3	15	11. Kerala
8.3	9.2	5.5	6.7	53	65	56	70	29	50	12. Madhya Pradesh
7.0	7.5	4.7	5.5	22	28	27	33	11	23	13. Maharashtra
8.4	9.3	5.6	7.4	51	62	52	65	28	52	14. Odisha
7.0	8.0	5.0	6.2	25	36	26	40	16	34	15. Punjab
6.5	7.4	5.1	6.5	46	58	50	64	20	43	16. Rajasthan
7.7	8.4	5.9	6.9	18	25	20	28	13	24	17. Tamil Nadu
7.9	8.7	5.6	6.6	53	61	55	64	34	48	18. Uttar Pradesh
5.8	6.4	6.0	6.9	27	36	28	39	19	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, 2011

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	7.1	7.8	6.3	7.6	8.4	6.9	5.7	6.3	5.0
Bigger States									
1. Andhra Pradesh	7.5	8.7	6.3	8.5	9.6	7.3	5.2	6.5	3.9
2. Assam	8.0	8.9	7.1	8.4	9.4	7.4	5.6	6.4	4.8
3. Bihar	6.7	7.0	6.5	6.9	7.1	6.7	5.5	6.2	4.8
4. Chhattisgarh	7.9	8.6	7.2	8.3	9.0	7.6	6.1	7.0	5.1
5. Delhi	4.3	4.7	3.9	4.7	4.8	4.5	4.3	4.6	3.8
6. Gujarat	6.7	7.4	6.0	7.4	8.2	6.6	5.7	6.3	5.0
7. Haryana	6.5	7.2	5.6	7.0	7.9	6.0	5.3	5.8	4.8
8. Jammu & Kashmir	5.5	6.0	5.0	5.7	6.3	5.1	4.7	4.9	4.5
9. Jharkhand	6.9	7.0	6.8	7.3	7.3	7.2	5.2	5.6	4.8
10. Karnataka	7.1	8.2	5.9	8.0	9.4	6.6	5.4	6.1	4.8
11. Kerala	7.0	8.3	5.8	7.1	8.7	5.8	6.6	7.3	6.0
12. Madhya Pradesh	8.2	8.8	7.5	8.7	9.4	8.1	6.1	6.7	5.5
13. Maharashtra	6.3	7.1	5.5	7.3	8.2	6.3	5.1	5.7	4.4
14. Odisha	8.5	8.8	8.2	8.8	9.1	8.6	6.5	7.0	6.0
15. Punjab	6.8	7.6	5.8	7.5	8.4	6.4	5.6	6.3	4.9
16. Rajasthan	6.7	7.3	6.0	7.0	7.5	6.4	5.8	6.6	5.0
17. Tamil Nadu	7.4	8.3	6.4	8.1	9.2	6.9	6.4	7.1	5.7
18. Uttar Pradesh	7.9	8.6	7.0	8.3	9.1	7.4	6.1	6.6	5.6
19. West Bengal	6.2	6.7	5.6	6.1	6.5	5.7	6.5	7.5	5.4
Smaller States									
1. Arunachal Pradesh	5.8	6.9	4.7	6.8	7.9	5.6	2.5	3.4	1.6
2. Goa	6.7	7.8	5.6	8.0	8.9	7.1	5.9	7.1	4.7
3. Himachal Pradesh	6.7	7.7	5.7	7.0	8.1	6.0	3.6	4.1	3.1
4. Manipur	4.1	4.7	3.5	4.1	4.7	3.4	4.2	4.6	3.8
5. Meghalaya	7.8	9.1	6.6	8.3	9.5	7.1	5.5	6.9	4.1
6. Mizoram	4.4	5.2	3.6	5.4	5.6	5.2	3.4	4.7	2.1
7. Nagaland	3.3	4.1	2.6	3.4	4.4	2.5	2.9	3.1	2.8
8. Sikkim	5.6	6.5	4.6	5.9	6.8	5.0	3.5	4.8	2.2
9. Tripura	5.0	5.6	4.3	4.9	5.6	4.2	5.4	5.9	4.8
10. Uttarakhand	6.2	7.1	5.2	6.5	7.7	5.2	4.9	4.6	5.1
Union Territories									
1. Andaman & Nicobar Islands	4.6	5.7	3.4	5.1	6.1	4.0	3.6	4.9	2.1
2. Chandigarh	4.1	4.9	3.0	3.6	4.1	2.7	4.1	5.0	3.1
3. Dadra & Nagar Haveli	4.6	5.2	4.0	5.1	5.6	4.5	3.0	3.8	2.0
4. Daman & Diu	4.9	5.5	4.3	5.0	5.2	4.8	4.8	6.0	3.4
5. Lakshadweep	6.4	7.9	4.9	6.0	6.1	5.9	6.7	9.8	3.9
6. Puducherry	7.2	8.8	5.6	7.9	10.1	5.7	6.8	8.2	5.5

Table 4: Infant mortality rate by sex and residence, 2011

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
	44	43	46	48	47	50	29	27	31
India									
Bigger States									
1. Andhra Pradesh	43	40	46	47	45	50	31	28	35
2. Assam	55	55	56	58	57	59	34	33	34
3. Bihar	44	44	45	45	44	45	34	34	35
4. Chhattisgarh	48	47	50	49	47	51	41	41	41
5. Delhi	28	25	31	36	21	53	26	26	27
6. Gujarat	41	39	42	48	47	49	27	23	30
7. Haryana	44	41	48	48	45	52	35	31	39
8. Jammu & Kashmir	41	40	41	43	42	44	28	28	29
9. Jharkhand	39	36	43	41	38	45	28	25	32
10. Karnataka	35	34	35	39	38	39	26	24	27
11. Kerala	12	11	13	13	12	14	9	8	12
12. Madhya Pradesh	59	57	62	63	61	66	39	38	41
13. Maharashtra	25	24	25	30	29	30	17	16	18
14. Odisha	57	55	58	58	57	60	40	40	41
15. Punjab	30	28	33	33	31	35	25	22	28
16. Rajasthan	52	50	53	57	56	58	32	29	35
17. Tamil Nadu	22	21	23	24	23	25	19	17	20
18. Uttar Pradesh	57	55	59	60	58	62	41	39	43
19. West Bengal	32	30	34	33	31	36	26	26	27
Smaller States									
1. Arunachal Pradesh	32	33	31						
2. Goa	11	7	14						
3. Himachal Pradesh	38	36	39						
4. Manipur	11	8	15						
5. Meghalaya	52	52	52						
6. Mizoram	34	31	37						
7. Nagaland	21	15	26						
8. Sikkim	26	23	30						
9. Tripura	29	29	29						
10. Uttarakhand	36	34	38						
Infant mortality rates for smaller States and Union Territories are based on three-years period 2009-11. 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	23	19	27						
2. Chandigarh	20	21	19						
3. Dadra & Nagar Haveli	35	35	36						
4. Daman & Diu	22	17	27						
5. Lakshadweep	24	27	20						
6. Puducherry	19	17	20						

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 7.35 million population.

Number of sample units and population covered, India, States and Union Territories, 2011

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	7352	5383	1968
Bigger States						
1. Andhra Pradesh	375	235	140	410	320	91
2. Assam	300	90	210	223	97	125
3. Bihar	330	200	130	370	302	68
4. Chhattisgarh	130	40	90	109	46	64
5. Delhi	200	10	190	168	21	147
6. Gujarat	365	215	150	369	288	81
7. Haryana	210	100	110	216	137	79
8. Jammu & Kashmir	260	150	110	227	178	50
9. Jharkhand	170	60	110	120	65	56
10. Karnataka	480	330	150	440	357	83
11. Kerala	250	150	100	353	287	66
12. Madhya Pradesh	340	220	120	326	252	74
13. Maharashtra	485	250	235	415	280	135
14. Odisha	405	290	115	344	276	68
15. Punjab	250	150	100	248	180	68
16. Rajasthan	350	250	100	344	292	52
17. Tamil Nadu	465	250	215	476	336	140
18. Uttar Pradesh	500	350	150	584	482	102
19. West Bengal	555	310	245	610	443	167
Smaller States						
1. Arunachal Pradesh	60	45	15	36	23	13
2. Goa	85	43	42	82	58	24
3. Himachal Pradesh	190	140	50	98	71	28
4. Manipur	150	110	40	139	114	25
5. Meghalaya	120	90	30	71	53	18
6. Mizoram	40	20	20	32	18	14
7. Nagaland	45	33	12	37	29	8
8. Sikkim	60	45	15	66	55	12
9. Tripura	80	60	20	114	102	13
10. Uttarakhand	150	100	50	116	85	30
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	42	36	5
4. Daman & Diu	20	13	7	28	23	4
5. Lakshadweep	12	6	6	15	10	4
6. Puducherry	50	17	33	48	27	21

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