



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, 2012

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	21.6	23.1	17.4	7.0	7.6	5.6	14.5	15.5	11.8	42	46	28
Bigger States												
1. Andhra Pradesh	17.5	17.9	16.6	7.4	8.4	5.1	10.1	9.5	11.5	41	46	30
2. Assam	22.5	23.7	15.6	7.9	8.3	5.6	14.6	15.4	10.0	55	58	33
3. Bihar	27.7	28.4	21.6	6.6	6.7	5.5	21.1	21.6	16.2	43	44	34
4. Chhattisgarh	24.5	26.0	18.0	7.9	8.3	5.9	16.6	17.6	12.1	47	48	39
5. Delhi	17.3	19.1	17.0	4.2	4.6	4.2	13.1	14.5	12.8	25	36	23
6. Gujarat	21.1	22.5	18.7	6.6	7.3	5.6	14.4	15.3	13.1	38	45	24
7. Haryana	21.6	22.6	19.2	6.4	6.9	5.4	15.1	15.7	13.8	42	46	33
8. Jammu & Kashmir	17.6	18.8	12.8	5.4	5.7	4.6	12.2	13.2	8.2	39	41	28
9. Jharkhand	24.7	26.1	18.7	6.8	7.1	5.1	18.0	19.0	13.6	38	39	27
10. Karnataka	18.5	19.4	16.9	7.1	8.1	5.3	11.4	11.3	11.6	32	36	25
11. Kerala	14.9	15.1	14.2	6.9	7.0	6.5	8.0	8.1	7.6	12	13	9
12. Madhya Pradesh	26.6	28.5	19.8	8.1	8.6	6.1	18.6	19.9	13.7	56	60	37
13. Maharashtra	16.6	17.4	15.5	6.3	7.3	5.0	10.3	10.1	10.5	25	30	17
14. Odisha	19.9	20.8	14.6	8.5	8.9	6.4	11.4	11.9	8.2	53	55	39
15. Punjab	15.9	16.5	14.8	6.8	7.5	5.5	9.1	9.0	9.3	28	30	24
16. Rajasthan	25.9	27.0	22.1	6.6	6.9	5.7	19.3	20.2	16.4	49	54	31
17. Tamil Nadu	15.7	15.8	15.6	7.4	8.2	6.4	8.3	7.6	9.1	21	24	18
18. Uttar Pradesh	27.4	28.4	23.5	7.7	8.1	6.0	19.7	20.2	17.5	53	56	39
19. West Bengal	16.1	17.8	11.5	6.3	6.3	6.6	9.7	11.6	4.9	32	33	26
Smaller States												
1. Arunachal Pradesh	19.4	21.0	13.9	5.8	6.7	2.7	13.6	14.3	11.3	33	37	13
2. Goa	13.1	12.5	13.5	6.6	8.1	5.8	6.5	4.4	7.7	10	8	11
3. Himachal Pradesh	16.2	16.7	11.0	6.7	7.0	3.6	9.5	9.7	7.4	36	37	25
4. Manipur	14.6	14.4	15.2	4.0	4.0	4.2	10.6	10.4	11.0	10	10	11
5. Meghalaya	24.1	26.2	14.4	7.6	8.1	5.4	16.5	18.1	9.0	49	50	40
6. Mizoram	16.3	20.2	12.2	4.4	5.5	3.1	11.9	14.7	9.1	35	44	19
7. Nagaland	15.6	15.7	15.1	3.2	3.3	2.8	12.4	12.5	12.3	18	18	18
8. Sikkim	17.2	17.3	16.7	5.4	5.7	3.3	11.9	11.7	13.4	24	25	16
9. Tripura	13.9	14.6	10.7	4.8	4.7	5.1	9.2	10.0	5.6	28	29	19
10. Uttarakhand	18.5	19.1	15.9	6.1	6.5	4.8	12.4	12.7	11.1	34	36	23
Union Territories												
1. Andaman & Nicobar Islands	15.0	14.9	15.1	4.6	5.2	3.4	10.3	9.7	11.6	24	31	12
2. Chandigarh	14.8	20.8	14.2	4.0	3.4	4.0	10.8	17.4	10.2	20	20	20
3. Dadra & Nagar Haveli	25.6	25.1	27.9	4.5	4.9	3.0	21.1	20.2	24.9	33	37	20
4. Daman & Diu	18.1	18.4	17.7	4.8	5.0	4.6	13.3	13.5	13.0	22	18	29
5. Lakshadweep	14.8	16.1	13.4	6.4	6.1	6.7	8.4	10.1	6.7	24	21	28
6. Puducherry	15.8	16.2	15.7	7.1	8.0	6.7	8.7	8.2	9.0	17	18	16

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2010-12.

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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	21.3	21.8	22.8	23.4	17.1	17.7	6.9	7.1
Bigger States								
1. Andhra Pradesh	16.9	18.1	17.2	18.7	15.5	17.7	7.1	7.8
2. Assam	21.0	24.1	21.9	25.5	14.7	16.5	7.4	8.4
3. Bihar	27.0	28.3	27.7	29.1	20.4	22.9	6.3	6.9
4. Chhattisgarh	23.1	26.0	24.3	27.6	16.9	19.2	7.1	8.7
5. Delhi	16.0	18.6	14.8	23.3	15.7	18.3	3.8	4.6
6. Gujarat	20.2	21.9	21.5	23.6	17.3	20.1	6.3	7.0
7. Haryana	20.4	22.7	21.2	24.1	17.7	20.7	6.0	6.8
8. Jammu & Kashmir	16.7	18.5	17.7	20.0	11.6	14.1	5.0	5.8
9. Jharkhand	23.3	26.1	24.4	27.8	17.6	19.9	6.2	7.3
10. Karnataka	17.7	19.3	18.3	20.4	15.7	18.2	6.7	7.5
11. Kerala	14.2	15.5	14.3	15.9	12.9	15.4	6.6	7.2
12. Madhya Pradesh	25.8	27.5	27.5	29.5	18.5	21.1	7.7	8.4
13. Maharashtra	16.1	17.1	16.9	17.8	14.5	16.5	6.0	6.5
14. Odisha	19.2	20.6	20.0	21.5	13.5	15.8	8.1	8.9
15. Punjab	15.2	16.6	15.7	17.3	13.6	16.0	6.3	7.2
16. Rajasthan	25.0	26.7	26.0	28.1	20.5	23.8	6.2	7.0
17. Tamil Nadu	15.2	16.1	15.3	16.3	14.8	16.3	7.1	7.7
18. Uttar Pradesh	26.4	28.5	27.1	29.6	22.2	24.8	7.3	8.1
19. West Bengal	15.5	16.7	17.0	18.6	10.7	12.2	6.1	6.6
Smaller States								
1. Arunachal Pradesh	17.7	21.2	18.9	23.1	11.2	16.7		
2. Goa	12.1	14.1	11.4	13.6	12.1	14.9		
3. Himachal Pradesh	14.9	17.5	15.3	18.2	9.5	12.5		
4. Manipur	13.6	15.6	13.2	15.6	13.5	17.0		
5. Meghalaya	22.2	26.1	24.0	28.5	12.0	16.8		
6. Mizoram	14.3	18.3	16.8	23.7	10.5	13.9		
7. Nagaland	13.1	18.1	12.7	18.7	11.5	18.7		
8. Sikkim	16.4	18.1	16.4	18.3	14.2	19.1		
9. Tripura	13.0	14.9	13.6	15.7	9.0	12.5		
10. Uttarakhand	14.9	22.1	14.6	23.7	13.4	18.3		
Union Territories								
1. Andaman & Nicobar Islands	13.2	16.8	12.6	17.2	12.2	17.9		
2. Chandigarh	12.7	16.9	15.1	26.6	11.9	16.5		
3. Dadra & Nagar Haveli	23.6	27.7	23.1	27.0	21.7	34.1		
4. Daman & Diu	15.2	21.0	14.8	22.1	12.8	22.6		
5. Lakshadweep	13.4	16.2	14.2	18.1	11.3	15.5		
6. Puducherry	14.5	17.2	14.6	17.7	13.8	17.5		

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, 2012

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
7.4	7.7	5.5	5.7	41	44	45	48	26	30	India
Bigger States										
8.0	8.9	4.5	5.6	36	47	39	53	21	38	1. Andhra Pradesh
7.7	8.9	5.1	6.1	49	62	50	66	26	40	2. Assam
6.4	7.1	4.9	6.0	38	48	39	49	25	44	3. Bihar
7.3	9.4	5.3	6.5	39	55	39	57	30	48	4. Chhattisgarh
4.1	5.0	3.7	4.6	19	30	25	46	16	29	5. Delhi
6.8	7.7	5.0	6.1	33	43	40	51	16	32	6. Gujarat
6.4	7.4	4.7	6.0	37	48	39	52	24	42	7. Haryana
5.2	6.1	3.9	5.3	32	45	33	48	17	39	8. Jammu & Kashmir
6.5	7.8	4.5	5.7	30	45	31	48	17	37	9. Jharkhand
7.6	8.5	4.7	6.0	27	37	29	42	17	33	10. Karnataka
6.6	7.4	5.9	7.1	8	15	8	17	4	14	11. Kerala
8.2	9.0	5.4	6.8	52	61	55	65	28	46	12. Madhya Pradesh
7.0	7.5	4.5	5.4	22	28	27	33	12	23	13. Maharashtra
8.4	9.3	5.8	7.0	47	59	48	62	29	49	14. Odisha
7.0	8.0	4.8	6.2	22	34	23	37	14	34	15. Punjab
6.4	7.3	5.1	6.4	43	55	47	60	22	40	16. Rajasthan
7.7	8.6	6.0	6.9	18	25	20	29	13	23	17. Tamil Nadu
7.6	8.6	5.4	6.5	49	57	51	60	31	47	18. Uttar Pradesh
5.9	6.6	6.1	7.1	28	36	29	38	20	32	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, 2012

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	7.0	7.7	6.4	7.6	8.3	6.8	5.6	6.1	5.1
Bigger States									
1. Andhra Pradesh	7.4	8.4	6.4	8.4	9.7	7.2	5.1	5.4	4.8
2. Assam	7.9	9.1	6.7	8.3	9.5	7.1	5.6	6.7	4.5
3. Bihar	6.6	6.7	6.5	6.7	6.8	6.7	5.5	5.4	5.6
4. Chhattisgarh	7.9	9.1	6.7	8.3	9.6	7.1	5.9	6.9	5.0
5. Delhi	4.2	4.6	3.7	4.6	5.3	3.8	4.2	4.5	3.7
6. Gujarat	6.6	7.3	5.9	7.3	8.2	6.3	5.6	5.9	5.2
7. Haryana	6.4	7.2	5.6	6.9	7.7	6.0	5.4	5.9	4.8
8. Jammu & Kashmir	5.4	6.0	4.8	5.7	6.1	5.2	4.6	5.5	3.7
9. Jharkhand	6.8	6.9	6.6	7.1	7.1	7.1	5.1	6.0	4.1
10. Karnataka	7.1	7.8	6.4	8.1	8.8	7.3	5.3	6.0	4.7
11. Kerala	6.9	8.2	5.7	7.0	8.4	5.8	6.5	7.7	5.4
12. Madhya Pradesh	8.1	8.7	7.4	8.6	9.1	8.0	6.1	7.1	5.0
13. Maharashtra	6.3	6.8	5.7	7.3	7.9	6.6	5.0	5.4	4.6
14. Odisha	8.5	9.2	7.9	8.9	9.6	8.1	6.4	6.6	6.2
15. Punjab	6.8	7.6	5.8	7.5	8.5	6.5	5.5	6.2	4.7
16. Rajasthan	6.6	7.2	5.9	6.9	7.6	6.1	5.7	6.0	5.5
17. Tamil Nadu	7.4	8.4	6.4	8.2	9.4	6.9	6.4	7.1	5.8
18. Uttar Pradesh	7.7	8.3	7.1	8.1	8.8	7.4	6.0	6.1	5.8
19. West Bengal	6.3	6.9	5.7	6.3	6.9	5.6	6.6	7.0	6.2
Smaller States									
1. Arunachal Pradesh	5.8	6.5	5.1	6.7	7.7	5.8	2.7	2.7	2.7
2. Goa	6.6	7.9	5.5	8.1	9.5	6.6	5.8	6.8	4.7
3. Himachal Pradesh	6.7	8.2	5.2	7.0	8.7	5.5	3.6	4.2	3.0
4. Manipur	4.0	4.6	3.4	4.0	4.4	3.5	4.2	5.3	3.1
5. Meghalaya	7.6	8.2	7.1	8.1	8.6	7.7	5.4	6.6	4.2
6. Mizoram	4.4	5.0	3.7	5.5	6.5	4.6	3.1	3.4	2.9
7. Nagaland	3.2	3.9	2.3	3.3	4.1	2.4	2.8	3.3	2.3
8. Sikkim	5.4	6.0	4.6	5.7	6.4	4.9	3.3	3.8	2.8
9. Tripura	4.8	5.5	4.0	4.7	5.5	3.9	5.1	5.7	4.6
10. Uttarakhand	6.1	7.2	4.9	6.5	7.7	5.1	4.8	5.4	4.2
Union Territories									
1. Andaman & Nicobar Islands	4.6	5.1	4.2	5.2	5.7	4.8	3.4	3.9	3.0
2. Chandigarh	4.0	4.7	3.1	3.4	3.3	3.7	4.0	4.8	3.0
3. Dadra & Nagar Haveli	4.5	5.1	3.9	4.9	5.5	4.2	3.0	3.5	2.4
4. Daman & Diu	4.8	5.6	3.9	5.0	6.5	3.2	4.6	4.2	5.1
5. Lakshadweep	6.4	7.3	5.5	6.1	5.9	6.2	6.7	8.8	4.7
6. Puducherry	7.1	8.7	5.5	8.0	10.5	5.5	6.7	7.8	5.6

Table 4: Infant mortality rate by sex and residence, 2012

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	42	41	44	46	45	48	28	26	29
Bigger States									
1. Andhra Pradesh	41	40	43	46	45	47	30	27	33
2. Assam	55	54	57	58	57	60	33	31	35
3. Bihar	43	42	45	44	43	46	34	33	36
4. Chhattisgarh	47	46	47	48	47	49	39	38	39
5. Delhi	25	24	26	36	35	37	23	22	23
6. Gujarat	38	36	39	45	44	47	24	23	25
7. Haryana	42	41	44	46	44	48	33	32	34
8. Jammu & Kashmir	39	38	40	41	40	42	28	27	30
9. Jharkhand	38	36	39	39	38	41	27	24	30
10. Karnataka	32	30	34	36	35	37	25	22	28
11. Kerala	12	10	13	13	11	14	9	8	10
12. Madhya Pradesh	56	54	59	60	58	62	37	35	39
13. Maharashtra	25	24	26	30	30	31	17	16	19
14. Odisha	53	52	54	55	53	56	39	38	40
15. Punjab	28	27	29	30	29	31	24	22	26
16. Rajasthan	49	47	51	54	52	56	31	29	33
17. Tamil Nadu	21	21	22	24	23	25	18	17	19
18. Uttar Pradesh	53	52	55	56	54	57	39	37	41
19. West Bengal	32	31	33	33	32	35	26	25	27
Smaller States									
1. Arunachal Pradesh	33	32	35						
2. Goa	10	8	12						
3. Himachal Pradesh	36	35	38						
4. Manipur	10	10	11						
5. Meghalaya	49	48	50						
6. Mizoram	35	33	37						
7. Nagaland	18	15	22						
8. Sikkim	24	22	27						
9. Tripura	28	26	29						
10. Uttarakhand	34	33	35						
<p>Infant mortality rates for smaller States and Union Territories are based on three-year period 2010-12. 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	24	18	31						
2. Chandigarh	20	19	22						
3. Dadra & Nagar Haveli	33	31	35						
4. Daman & Diu	22	20	25						
5. Lakshadweep	24	23	25						
6. Puducherry	17	15	18						

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 7.44 million population.

Number of sample units and population covered, India, States and Union Territories, 2012

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	7439	5453	1986
Bigger States						
1. Andhra Pradesh	375	235	140	416	324	92
2. Assam	300	90	210	227	99	128
3. Bihar	330	200	130	380	310	70
4. Chhattisgarh	130	40	90	110	46	64
5. Delhi	200	10	190	170	22	149
6. Gujarat	365	215	150	371	290	81
7. Haryana	210	100	110	220	139	80
8. Jammu & Kashmir	260	150	110	228	179	49
9. Jharkhand	170	60	110	122	66	56
10. Karnataka	480	330	150	440	358	83
11. Kerala	250	150	100	356	290	67
12. Madhya Pradesh	340	220	120	332	257	74
13. Maharashtra	485	250	235	415	282	134
14. Odisha	405	290	115	348	280	69
15. Punjab	250	150	100	249	181	68
16. Rajasthan	350	250	100	349	297	53
17. Tamil Nadu	465	250	215	482	342	141
18. Uttar Pradesh	500	350	150	593	490	103
19. West Bengal	555	310	245	617	448	169
Smaller States						
1. Arunachal Pradesh	60	45	15	37	23	14
2. Goa	85	43	42	84	59	25
3. Himachal Pradesh	190	140	50	99	71	28
4. Manipur	150	110	40	140	115	25
5. Meghalaya	120	90	30	72	54	18
6. Mizoram	40	20	20	32	18	14
7. Nagaland	45	33	12	37	29	8
8. Sikkim	60	45	15	68	56	12
9. Tripura	80	60	20	116	104	13
10. Uttarakhand	150	100	50	118	87	31
Union Territories						
1. Andaman & Nicobar Islands	50	34	16	40	30	10
2. Chandigarh	35	5	30	36	11	24
3. Dadra & Nagar Haveli	30	22	8	42	37	5
4. Daman & Diu	20	13	7	28	24	5
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.