



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, 2013

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	21.4	22.9	17.3	7.0	7.5	5.6	14.4	15.4	11.7	40	44	27
Bigger States												
1. Andhra Pradesh	17.4	17.7	16.7	7.3	8.3	5.0	10.0	9.4	11.6	39	44	29
2. Assam	22.4	23.5	15.4	7.8	8.2	5.6	14.5	15.3	9.9	54	56	32
3. Bihar	27.6	28.3	21.5	6.6	6.7	5.5	21.0	21.5	16.1	42	42	33
4. Chhattisgarh	24.4	25.8	17.9	7.9	8.4	5.9	16.5	17.5	12.0	46	47	38
5. Delhi	17.2	18.9	16.9	4.1	4.6	4.1	13.1	14.3	12.9	24	35	22
6. Gujarat	20.8	22.2	18.5	6.5	7.2	5.5	14.3	15.1	13.0	36	43	22
7. Haryana	21.3	22.4	19.0	6.3	6.7	5.3	15.0	15.6	13.7	41	44	32
8. Jammu & Kashmir	17.5	18.7	12.6	5.3	5.5	4.5	12.1	13.2	8.1	37	39	28
9. Jharkhand	24.6	25.9	18.5	6.8	7.2	5.0	17.8	18.8	13.5	37	38	27
10. Karnataka	18.3	19.1	16.7	7.0	8.0	5.2	11.3	11.2	11.5	31	34	24
11. Kerala	14.7	15.0	14.0	6.9	7.0	6.6	7.8	7.9	7.3	12	13	9
12. Madhya Pradesh	26.3	28.2	19.6	8.0	8.5	6.1	18.4	19.7	13.4	54	57	37
13. Maharashtra	16.5	17.2	15.4	6.2	7.1	5.0	10.2	10.1	10.4	24	29	16
14. Odisha	19.6	20.5	14.4	8.4	8.7	6.3	11.3	11.8	8.2	51	53	38
15. Punjab	15.7	16.3	14.7	6.7	7.5	5.4	9.0	8.8	9.4	26	28	23
16. Rajasthan	25.6	26.7	22.0	6.5	6.8	5.6	19.1	19.9	16.4	47	51	30
17. Tamil Nadu	15.6	15.7	15.5	7.3	8.1	6.3	8.3	7.6	9.2	21	24	17
18. Uttar Pradesh	27.2	28.1	23.3	7.7	8.1	5.9	19.5	20.0	17.4	50	53	38
19. West Bengal	16.0	17.7	11.4	6.4	6.3	6.6	9.6	11.4	4.8	31	32	26
Smaller States												
1. Arunachal Pradesh	19.3	20.8	13.8	5.8	6.7	2.7	13.4	14.1	11.1	32	36	14
2. Goa	13.0	12.4	13.4	6.6	8.0	5.8	6.4	4.4	7.6	9	8	10
3. Himachal Pradesh	16.0	16.5	10.9	6.7	7.0	3.7	9.4	9.6	7.3	35	35	23
4. Manipur	14.7	14.5	15.1	4.0	4.0	4.2	10.6	10.5	10.9	10	10	10
5. Meghalaya	23.9	26.1	14.2	7.6	8.0	5.4	16.4	18.0	8.8	47	48	40
6. Mizoram	16.1	20.0	12.0	4.3	5.5	3.1	11.8	14.5	9.0	35	44	19
7. Nagaland	15.4	15.5	15.0	3.1	3.2	2.7	12.3	12.3	12.3	18	18	19
8. Sikkim	17.1	17.1	16.7	5.2	5.6	3.2	11.8	11.6	13.5	22	23	15
9. Tripura	13.7	14.3	10.6	4.7	4.6	5.1	9.0	9.8	5.5	26	27	19
10. Uttarakhand	18.2	18.9	15.7	6.1	6.4	4.8	12.1	12.5	10.9	32	34	22
Union Territories												
1. Andaman & Nicobar Islands	14.6	14.5	15.0	4.6	5.2	3.4	10.0	9.3	11.5	24	29	13
2. Chandigarh	14.7	20.5	14.1	4.0	3.4	4.0	10.7	17.1	10.0	21	18	21
3. Dadra & Nagar Haveli	25.5	24.9	27.8	4.4	4.8	2.9	21.1	20.1	24.8	31	34	22
4. Daman & Diu	17.9	18.2	17.5	4.9	5.1	4.6	13.0	13.1	12.9	20	17	26
5. Lakshadweep	14.8	16.2	13.3	6.3	6.0	6.6	8.5	10.3	6.6	24	20	28
6. Puducherry	15.7	15.9	15.6	7.0	8.0	6.6	8.7	7.9	9.1	17	20	15

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2011-13.

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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	21.2	21.6	22.6	23.2	17.0	17.6	6.9	7.1
Bigger States								
1. Andhra Pradesh	16.9	17.9	17.1	18.3	15.5	17.8	7.0	7.7
2. Assam	20.9	23.8	21.8	25.2	14.5	16.3	7.2	8.4
3. Bihar	27.0	28.2	27.6	28.9	20.2	22.9	6.4	6.9
4. Chhattisgarh	22.7	26.1	23.8	27.9	16.4	19.4	7.2	8.6
5. Delhi	16.0	18.4	14.8	23.0	15.7	18.1	3.8	4.5
6. Gujarat	19.9	21.7	21.2	23.3	16.8	20.2	6.1	6.9
7. Haryana	20.4	22.3	21.1	23.6	17.7	20.2	5.9	6.7
8. Jammu & Kashmir	16.6	18.3	17.7	19.7	11.3	14.0	4.9	5.8
9. Jharkhand	23.1	26.0	24.1	27.7	17.4	19.7	6.1	7.4
10. Karnataka	17.5	19.0	18.2	20.1	15.4	18.1	6.6	7.4
11. Kerala	14.0	15.4	14.1	15.8	12.8	15.1	6.6	7.3
12. Madhya Pradesh	25.5	27.2	27.2	29.2	18.3	20.9	7.6	8.4
13. Maharashtra	15.9	17.0	16.8	17.7	14.4	16.4	6.0	6.5
14. Odisha	18.9	20.3	19.7	21.3	13.4	15.4	8.0	8.8
15. Punjab	15.0	16.3	15.4	17.1	13.7	15.8	6.3	7.0
16. Rajasthan	24.6	26.6	25.5	27.9	20.2	23.8	6.1	6.9
17. Tamil Nadu	15.2	16.0	15.1	16.2	14.8	16.2	7.0	7.6
18. Uttar Pradesh	26.3	28.1	27.0	29.1	21.9	24.7	7.3	8.0
19. West Bengal	15.5	16.5	17.0	18.4	10.6	12.1	6.2	6.7
Smaller States								
1. Arunachal Pradesh	17.8	20.7	19.2	22.5	11.9	15.6		
2. Goa	11.5	14.5	11.0	13.9	11.2	15.6		
3. Himachal Pradesh	14.9	17.2	15.3	17.8	9.0	12.9		
4. Manipur	13.8	15.6	13.4	15.6	13.6	16.7		
5. Meghalaya	20.9	27.0	22.6	29.5	10.0	18.4		
6. Mizoram	13.8	18.4	16.5	23.5	9.7	14.4		
7. Nagaland	12.7	18.0	12.4	18.5	9.6	20.4		
8. Sikkim	16.1	18.0	16.1	18.2	13.7	19.6		
9. Tripura	12.8	14.6	13.3	15.4	8.4	12.8		
10. Uttarakhand	14.8	21.6	14.6	23.2	13.5	17.9		
Union Territories								
1. Andaman & Nicobar Islands	12.9	16.3	12.9	16.1	10.9	19.0		
2. Chandigarh	12.4	17.0	12.3	28.7	11.6	16.5		
3. Dadra & Nagar Haveli	23.6	27.3	23.0	26.8	22.4	33.1		
4. Daman & Diu	14.6	21.2	15.0	21.3	10.5	24.6		
5. Lakshadweep	12.9	16.6	12.8	19.7	12.5	14.1		
6. Puducherry	14.4	17.0	14.1	17.6	13.9	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, 2013

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	7.6	5.4	5.7	39	42	42	46	25	29	India
Bigger States										
7.9	8.8	4.4	5.7	34	45	37	50	19	38	1. Andhra Pradesh
7.5	8.9	5.1	6.1	46	62	48	65	25	38	2. Assam
6.5	7.0	5.0	6.0	37	46	38	47	24	42	3. Bihar
7.5	9.2	5.1	6.6	39	53	39	56	29	46	4. Chhattisgarh
3.6	5.6	3.7	4.4	19	30	21	50	16	28	5. Delhi
6.7	7.7	4.8	6.1	31	40	38	48	14	29	6. Gujarat
6.2	7.3	4.8	5.8	36	46	38	50	25	39	7. Haryana
5.0	6.1	3.9	5.2	30	45	30	47	16	39	8. Jammu & Kashmir
6.4	7.9	4.5	5.6	30	43	31	45	19	36	9. Jharkhand
7.5	8.4	4.6	5.8	27	35	29	39	17	31	10. Karnataka
6.7	7.4	6.0	7.3	7	16	7	18	3	14	11. Kerala
8.0	8.9	5.5	6.7	48	59	50	63	29	44	12. Madhya Pradesh
6.8	7.4	4.6	5.4	20	27	25	33	11	21	13. Maharashtra
8.3	9.1	5.6	6.9	46	56	47	58	29	47	14. Odisha
7.0	7.9	4.9	5.8	21	31	21	34	14	31	15. Punjab
6.3	7.2	4.9	6.3	42	52	45	57	22	38	16. Rajasthan
7.7	8.5	5.8	6.8	18	24	19	28	12	21	17. Tamil Nadu
7.6	8.5	5.4	6.5	45	55	47	59	33	43	18. Uttar Pradesh
6.0	6.6	6.1	7.1	28	34	28	36	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, 2013

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	7.5	6.4	7.5	8.1	6.9	5.6	6.1	5.0
Bigger States									
1. Andhra Pradesh	7.3	8.1	6.6	8.3	9.2	7.4	5.0	5.6	4.5
2. Assam	7.8	8.5	7.1	8.2	8.8	7.5	5.6	6.3	4.7
3. Bihar	6.6	6.7	6.5	6.7	6.8	6.7	5.5	5.5	5.4
4. Chhattisgarh	7.9	8.2	7.6	8.4	8.5	8.2	5.9	6.8	5.0
5. Delhi	4.1	4.4	3.8	4.6	5.2	3.9	4.1	4.3	3.8
6. Gujarat	6.5	7.2	5.8	7.2	8.1	6.2	5.5	5.7	5.2
7. Haryana	6.3	7.0	5.5	6.7	7.5	5.9	5.3	6.0	4.5
8. Jammu & Kashmir	5.3	6.2	4.4	5.5	6.5	4.6	4.5	5.4	3.6
9. Jharkhand	6.8	7.0	6.5	7.2	7.4	6.9	5.0	5.3	4.7
10. Karnataka	7.0	7.5	6.5	8.0	8.6	7.4	5.2	5.5	4.9
11. Kerala	6.9	7.9	6.0	7.0	8.0	6.1	6.6	7.6	5.8
12. Madhya Pradesh	8.0	8.7	7.2	8.5	9.2	7.7	6.1	6.8	5.4
13. Maharashtra	6.2	6.8	5.5	7.1	7.7	6.5	5.0	5.8	4.1
14. Odisha	8.4	8.9	7.9	8.7	9.3	8.2	6.3	6.5	6.0
15. Punjab	6.7	7.1	6.2	7.5	7.9	7.0	5.4	5.8	4.8
16. Rajasthan	6.5	7.0	5.9	6.8	7.4	6.0	5.6	5.6	5.6
17. Tamil Nadu	7.3	8.2	6.4	8.1	9.0	7.1	6.3	7.2	5.4
18. Uttar Pradesh	7.7	8.1	7.1	8.1	8.5	7.5	5.9	6.5	5.3
19. West Bengal	6.4	6.9	5.9	6.3	6.8	5.9	6.6	7.2	6.1
Smaller States									
1. Arunachal Pradesh	5.8	6.5	5.2	6.7	7.7	5.8	2.7	2.3	3.1
2. Goa	6.6	7.8	5.5	8.0	9.0	7.0	5.8	7.0	4.5
3. Himachal Pradesh	6.7	7.5	5.9	7.0	7.9	6.1	3.7	3.9	3.5
4. Manipur	4.0	4.7	3.4	4.0	4.4	3.6	4.2	5.9	2.7
5. Meghalaya	7.6	8.3	6.8	8.0	8.7	7.4	5.4	6.7	4.1
6. Mizoram	4.3	4.9	3.8	5.5	6.3	4.7	3.1	3.3	2.9
7. Nagaland	3.1	3.8	2.3	3.2	4.1	2.2	2.7	2.9	2.5
8. Sikkim	5.2	6.0	4.4	5.6	6.4	4.7	3.2	3.6	2.8
9. Tripura	4.7	5.1	4.2	4.6	5.0	4.1	5.1	5.4	4.9
10. Uttarakhand	6.1	6.9	5.2	6.4	7.3	5.4	4.8	5.3	4.3
Union Territories									
1. Andaman & Nicobar Islands	4.6	5.1	4.1	5.2	5.9	4.5	3.4	3.5	3.4
2. Chandigarh	4.0	4.4	3.4	3.4	3.2	3.7	4.0	4.6	3.4
3. Dadra & Nagar Haveli	4.4	4.7	4.0	4.8	5.6	3.9	2.9	1.7	4.3
4. Daman & Diu	4.9	4.9	4.9	5.1	5.1	5.0	4.6	4.4	4.8
5. Lakshadweep	6.3	7.2	5.4	6.0	6.8	5.1	6.6	7.7	5.6
6. Puducherry	7.0	7.9	6.2	8.0	8.8	7.2	6.6	7.5	5.7

Table 4: Infant mortality rate by sex and residence, 2013

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	40	39	42	44	43	46	27	26	28
Bigger States									
1. Andhra Pradesh	39	39	40	44	43	45	29	28	30
2. Assam	54	53	55	56	55	58	32	31	32
3. Bihar	42	40	43	42	41	44	33	32	34
4. Chhattisgarh	46	45	47	47	46	48	38	36	39
5. Delhi	24	23	25	35	36	35	22	21	23
6. Gujarat	36	35	37	43	42	44	22	21	23
7. Haryana	41	40	42	44	43	45	32	31	33
8. Jammu & Kashmir	37	36	38	39	38	40	28	27	28
9. Jharkhand	37	35	38	38	37	39	27	26	29
10. Karnataka	31	30	32	34	33	35	24	22	26
11. Kerala	12	10	13	13	11	14	9	7	10
12. Madhya Pradesh	54	52	55	57	55	59	37	35	38
13. Maharashtra	24	23	25	29	28	29	16	15	17
14. Odisha	51	50	52	53	51	54	38	37	39
15. Punjab	26	25	27	28	27	29	23	21	24
16. Rajasthan	47	45	49	51	50	53	30	29	32
17. Tamil Nadu	21	20	21	24	23	24	17	16	17
18. Uttar Pradesh	50	49	52	53	51	54	38	36	40
19. West Bengal	31	30	33	32	31	34	26	25	27
Smaller States									
1. Arunachal Pradesh	32	32	33						
2. Goa	9	8	10						
3. Himachal Pradesh	35	33	36						
4. Manipur	10	9	10						
5. Meghalaya	47	46	48						
6. Mizoram	35	33	37						
7. Nagaland	18	14	23						
8. Sikkim	22	20	25						
9. Tripura	26	22	30						
10. Uttarakhand	32	30	33						
Infant mortality rates for smaller States and Union Territories are based on three-year period 2011-13. 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	24	20	28						
2. Chandigarh	21	20	22						
3. Dadra & Nagar Haveli	31	29	34						
4. Daman & Diu	20	19	20						
5. Lakshadweep	24	19	29						
6. Puducherry	17	15	19						

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 7.52 million population.

Number of sample units and population covered, India, States and Union Territories, 2013

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	7522	5520	2002
Bigger States						
1. Andhra Pradesh	375	235	140	423	329	94
2. Assam	300	90	210	231	102	130
3. Bihar	330	200	130	386	316	70
4. Chhattisgarh	130	40	90	112	47	65
5. Delhi	200	10	190	173	22	151
6. Gujarat	365	215	150	374	291	82
7. Haryana	210	100	110	222	141	81
8. Jammu & Kashmir	260	150	110	231	182	49
9. Jharkhand	170	60	110	123	67	56
10. Karnataka	480	330	150	441	359	82
11. Kerala	250	150	100	358	291	67
12. Madhya Pradesh	340	220	120	334	260	74
13. Maharashtra	485	250	235	417	284	134
14. Odisha	405	290	115	352	282	70
15. Punjab	250	150	100	250	181	69
16. Rajasthan	350	250	100	354	302	53
17. Tamil Nadu	465	250	215	486	345	141
18. Uttar Pradesh	500	350	150	601	497	104
19. West Bengal	555	310	245	627	457	171
Smaller States						
1. Arunachal Pradesh	60	45	15	38	24	14
2. Goa	85	43	42	85	59	25
3. Himachal Pradesh	190	140	50	99	72	28
4. Manipur	150	110	40	142	116	25
5. Meghalaya	120	90	30	74	55	19
6. Mizoram	40	20	20	33	19	14
7. Nagaland	45	33	12	38	29	8
8. Sikkim	60	45	15	68	56	12
9. Tripura	80	60	20	118	105	13
10. Uttarakhand	150	100	50	119	88	31
Union Territories						
1. Andaman & Nicobar Islands	50	34	16	40	30	10
2. Chandigarh	35	5	30	37	12	25
3. Dadra & Nagar Haveli	30	22	8	43	37	5
4. Daman & Diu	20	13	7	28	24	4
5. Lakshadweep	12	6	6	15	10	5
6. Puducherry	50	17	33	49	28	21

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