



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, 2016

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	20.4	22.1	17.0	6.4	6.9	5.4	14.0	15.2	11.7	34	38	23
Bigger States												
1. Andhra Pradesh	16.4	16.7	15.8	6.8	7.7	4.9	9.6	9.0	10.9	34	38	24
2. Assam	21.7	22.8	15.0	6.7	7.1	4.9	14.9	15.8	10.1	44	46	22
3. Bihar	26.8	27.7	21.1	6.0	6.1	5.5	20.8	21.6	15.6	38	39	29
4. Chhattisgarh	22.8	24.3	18.1	7.4	7.8	6.2	15.4	16.5	11.9	39	41	31
5. Delhi	15.5	17.0	15.5	4.0	4.5	4.0	11.5	12.5	11.5	18	24	17
6. Gujarat	20.1	22.0	17.7	6.1	6.5	5.5	14.0	15.5	12.2	30	38	19
7. Haryana	20.7	22.0	18.3	5.9	6.3	5.1	14.8	15.7	13.3	33	35	27
8. Jammu & Kashmir	15.7	17.4	11.9	5.0	5.2	4.4	10.8	12.2	7.5	24	25	23
9. Jharkhand	22.9	24.5	18.4	5.5	5.8	4.7	17.4	18.7	13.6	29	31	21
10. Karnataka	17.6	18.5	16.2	6.7	7.9	4.9	10.9	10.6	11.3	24	27	19
11. Kerala	14.3	14.3	14.4	7.6	7.3	7.8	6.8	7.0	6.5	10	10	10
12. Madhya Pradesh	25.1	27.1	19.5	7.1	7.6	5.7	17.9	19.5	13.8	47	50	33
13. Maharashtra	15.9	16.3	15.5	5.9	6.9	4.6	10.1	9.4	10.9	19	24	13
14. Odisha	18.6	19.6	13.7	7.8	8.1	6.1	10.8	11.4	7.6	44	46	34
15. Punjab	14.9	15.6	14.1	6.0	6.6	5.1	9.0	9.0	9.0	21	23	18
16. Rajasthan	24.3	25.2	21.6	6.1	6.4	5.2	18.2	18.8	16.3	41	45	30
17. Tamil Nadu	15.0	15.1	15.0	6.4	7.1	5.7	8.7	7.9	9.3	17	20	14
18. Telangana	17.5	17.8	17.0	6.1	7.1	4.6	11.4	10.7	12.5	31	35	24
19. Uttar Pradesh	26.2	27.3	22.8	6.9	7.3	5.5	19.3	20.0	17.3	43	46	34
20. Uttarakhand	16.6	16.8	16.0	6.7	7.0	5.9	9.9	9.8	10.1	38	41	29
21. West Bengal	15.4	16.9	11.8	5.8	5.7	6.1	9.6	11.3	5.7	25	25	22
Smaller States												
1. Arunachal Pradesh	18.9	19.5	16.1	6.2	6.5	4.5	12.7	13.0	11.6	36	38	23
2. Goa	12.9	12.1	13.5	6.7	7.6	6.1	6.1	4.5	7.4	8	10	7
3. Himachal Pradesh	16.0	16.5	10.5	6.8	7.0	4.3	9.2	9.4	6.2	25	25	19
4. Manipur	12.9	13.2	12.4	4.5	4.4	4.8	8.4	8.8	7.6	11	12	10
5. Meghalaya	23.7	25.9	14.0	6.6	7.0	5.0	17.1	18.9	9.0	39	40	26
6. Mizoram	15.5	18.2	12.6	4.2	4.4	4.1	11.3	13.8	8.5	27	35	14
7. Nagaland	14.0	14.4	13.3	4.5	5.6	2.8	9.5	8.8	10.5	12	11	14
8. Sikkim	16.6	15.5	18.5	4.7	5.5	3.4	11.9	10.0	15.1	16	18	13
9. Tripura	13.7	14.6	11.3	5.5	5.2	6.1	8.2	9.4	5.2	24	21	32
Union Territories												
1. Andaman & Nicobar Islands	11.7	12.5	10.6	5.2	5.7	4.6	6.5	6.8	6.1	16	12	22
2. Chandigarh	13.9	19.2	13.8	4.5	1.6	4.6	9.4	17.7	9.2	14	6	14
3. Dadra & Nagar Haveli	24.5	20.4	27.7	4.0	5.0	3.2	20.5	15.5	24.6	17	24	12
4. Daman & Diu	24.0	16.7	25.8	4.6	6.1	4.2	19.5	10.6	21.6	19	18	19
5. Lakshadweep	18.9	24.0	17.6	6.0	7.9	5.5	12.9	16.1	12.1	19	16	20
6. Puducherry	13.9	13.6	14.0	7.2	7.8	6.9	6.7	5.8	7.1	10	16	8

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2014-16.

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: 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	20.2	20.7	21.8	22.4	16.7	17.3	6.3	6.5
Bigger States								
1. Andhra Pradesh	15.7	17.2	15.8	17.6	14.6	17.0	6.5	7.2
2. Assam	20.6	22.8	21.5	24.1	14.3	15.7	6.3	7.2
3. Bihar	26.0	27.6	26.8	28.6	20.1	22.0	5.8	6.3
4. Chhattisgarh	21.2	24.4	22.2	26.3	16.8	19.3	6.5	8.3
5. Delhi	14.3	16.8	13.6	20.4	14.2	16.8	3.5	4.5
6. Gujarat	19.2	21.0	20.9	23.2	16.4	19.0	5.7	6.4
7. Haryana	19.7	21.7	20.6	23.4	17.0	19.6	5.5	6.2
8. Jammu & Kashmir	14.7	16.8	16.1	18.8	10.4	13.4	4.6	5.3
9. Jharkhand	21.8	24.1	22.9	26.0	17.3	19.5	5.1	6.0
10. Karnataka	16.6	18.6	17.4	19.6	14.2	18.2	6.3	7.2
11. Kerala	13.6	15.0	13.6	15.0	13.1	15.6	7.2	7.9
12. Madhya Pradesh	24.1	26.0	25.9	28.2	18.4	20.7	6.7	7.5
13. Maharashtra	15.4	16.5	15.5	17.0	14.7	16.3	5.6	6.2
14. Odisha	17.9	19.3	18.7	20.4	12.7	14.7	7.4	8.2
15. Punjab	14.2	15.6	14.6	16.5	13.0	15.2	5.5	6.4
16. Rajasthan	23.6	24.9	24.4	26.0	20.4	22.7	5.8	6.4
17. Tamil Nadu	14.5	15.6	14.3	15.9	14.3	15.7	6.1	6.7
18. Telangana	16.6	18.4	16.6	19.0	15.9	18.2	5.6	6.6
19. Uttar Pradesh	25.2	27.2	26.1	28.6	22.0	23.6	6.6	7.2
20. Uttarakhand	15.9	17.3	15.9	17.7	15.0	17.0	6.2	7.2
21. West Bengal	14.7	16.1	16.1	17.8	10.6	13.0	5.5	6.1
Smaller States								
1. Arunachal Pradesh	16.8	21.0	17.2	21.8	10.8	21.5		
2. Goa	11.5	14.2	10.9	13.3	11.3	15.7		
3. Himachal Pradesh	14.9	17.0	15.3	17.6	9.3	11.7		
4. Manipur	12.0	13.8	12.3	14.1	10.6	14.1		
5. Meghalaya	21.7	25.7	23.6	28.2	11.2	16.9		
6. Mizoram	14.1	16.9	15.8	20.6	11.2	14.0		
7. Nagaland	12.4	15.5	12.3	16.5	11.1	15.6		
8. Sikkim	15.5	17.8	14.1	16.8	16.5	20.6		
9. Tripura	12.6	14.7	13.3	15.8	9.5	13.2		
Union Territories								
1. Andaman & Nicobar Islands	10.7	12.8	10.9	14.1	9.5	11.8		
2. Chandigarh	10.9	16.9	16.6	21.9	10.7	16.8		
3. Dadra & Nagar Haveli	21.2	27.8	15.8	25.0	23.3	32.2		
4. Daman & Diu	18.1	30.0	15.1	18.3	18.7	33.0		
5. Lakshadweep	13.5	24.3	0.0	50.4	14.9	20.3		
6. Puducherry	12.3	15.5	12.2	14.9	11.9	16.1		

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, 2016

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
6.8	7.0	5.2	5.5	33	36	37	40	21	25	India
Bigger States										
7.2	8.1	4.2	5.5	28	39	31	44	15	33	1. Andhra Pradesh
6.6	7.6	4.4	5.4	38	49	40	52	15	30	2. Assam
5.8	6.4	5.1	5.9	33	42	34	44	22	37	3. Bihar
6.7	8.9	5.0	7.3	30	47	31	50	14	49	4. Chhattisgarh
2.7	6.3	3.5	4.5	12	24	11	37	11	24	5. Delhi
6.0	7.0	5.0	6.0	26	35	32	44	12	25	6. Gujarat
5.8	6.8	4.5	5.6	27	38	30	41	16	37	7. Haryana
4.8	5.7	3.8	5.0	18	31	18	31	7	39	8. Jammu & Kashmir
5.2	6.3	4.3	5.2	22	36	22	40	11	31	9. Jharkhand
7.4	8.4	4.0	5.9	19	30	21	33	7	31	10. Karnataka
6.9	7.7	7.2	8.5	6	14	7	14	3	17	11. Kerala
7.2	8.1	5.1	6.3	42	51	45	56	24	41	12. Madhya Pradesh
6.4	7.3	4.3	5.0	16	22	20	28	8	18	13. Maharashtra
7.7	8.6	5.3	6.9	39	50	40	52	19	49	14. Odisha
6.0	7.2	4.4	5.8	15	26	15	30	9	26	15. Punjab
6.0	6.7	4.4	6.0	36	46	39	50	19	40	16. Rajasthan
6.7	7.6	5.3	6.1	14	20	16	25	9	19	17. Tamil Nadu
6.4	7.7	3.8	5.3	25	37	27	42	14	35	18. Telangana
7.0	7.7	5.1	5.9	39	48	41	51	26	43	19. Uttar Pradesh
6.4	7.6	5.4	6.4	30	45	31	50	21	38	20. Uttarakhand
5.3	6.0	5.5	6.7	20	30	19	31	13	32	21. West Bengal
Smaller States										
1. Arunachal Pradesh										
2. Goa										
3. Himachal Pradesh										
4. Manipur										
5. Meghalaya										
6. Mizoram										
7. Nagaland										
8. Sikkim										
9. Tripura										
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, 2016

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	6.4	6.8	5.9	6.9	7.3	6.4	5.4	5.8	4.9
Bigger States									
1. Andhra Pradesh	6.8	7.5	6.1	7.7	8.4	6.8	4.9	5.2	4.5
2. Assam	6.7	7.4	6.0	7.1	7.8	6.3	4.9	5.5	4.3
3. Bihar	6.0	6.0	6.0	6.1	6.1	6.1	5.5	5.4	5.5
4. Chhattisgarh	7.4	7.8	7.0	7.8	8.3	7.3	6.2	6.4	5.9
5. Delhi	4.0	4.5	3.5	4.5	4.6	4.4	4.0	4.5	3.5
6. Gujarat	6.1	6.6	5.5	6.5	7.4	5.6	5.5	5.6	5.4
7. Haryana	5.9	6.5	5.2	6.3	7.0	5.5	5.1	5.5	4.5
8. Jammu & Kashmir	5.0	5.8	4.1	5.2	6.1	4.3	4.4	5.1	3.6
9. Jharkhand	5.5	5.1	6.0	5.8	5.2	6.4	4.7	5.0	4.5
10. Karnataka	6.7	7.2	6.2	7.9	8.5	7.3	4.9	5.2	4.6
11. Kerala	7.6	8.5	6.7	7.3	8.2	6.4	7.8	8.9	6.9
12. Madhya Pradesh	7.1	7.8	6.4	7.6	8.4	6.8	5.7	6.1	5.4
13. Maharashtra	5.9	6.2	5.5	6.9	6.9	6.8	4.6	5.3	3.9
14. Odisha	7.8	8.5	7.1	8.1	8.9	7.3	6.1	6.4	5.8
15. Punjab	6.0	6.4	5.4	6.6	7.0	6.1	5.1	5.7	4.4
16. Rajasthan	6.1	6.7	5.4	6.4	7.2	5.5	5.2	5.2	5.2
17. Tamil Nadu	6.4	7.2	5.5	7.1	8.0	6.3	5.7	6.5	4.8
18. Telangana	6.1	6.7	5.4	7.1	7.8	6.2	4.6	4.9	4.2
19. Uttar Pradesh	6.9	7.0	6.7	7.3	7.5	7.1	5.5	5.6	5.4
20. Uttarakhand	6.7	7.9	5.5	7.0	8.4	5.6	5.9	6.8	5.0
21. West Bengal	5.8	6.1	5.5	5.7	6.0	5.3	6.1	6.5	5.8
Smaller States									
1. Arunachal Pradesh	6.2	6.0	6.4	6.5	6.3	6.8	4.5	4.8	4.1
2. Goa	6.7	7.7	5.7	7.6	8.4	6.8	6.1	7.2	4.9
3. Himachal Pradesh	6.8	8.0	5.6	7.0	8.3	5.8	4.3	5.0	3.6
4. Manipur	4.5	5.1	3.9	4.4	5.2	3.5	4.8	5.0	4.5
5. Meghalaya	6.6	7.7	5.5	7.0	8.2	5.7	5.0	5.6	4.5
6. Mizoram	4.2	4.7	3.7	4.4	4.4	4.3	4.1	5.1	3.1
7. Nagaland	4.5	4.9	4.1	5.6	6.6	4.4	2.8	2.2	3.5
8. Sikkim	4.7	5.6	3.7	5.5	6.7	4.1	3.4	3.8	3.1
9. Tripura	5.5	5.9	5.0	5.2	6.0	4.4	6.1	5.7	6.5
Union Territories									
1. Andaman & Nicobar Islands	5.2	6.1	4.3	5.7	7.1	4.2	4.6	4.8	4.3
2. Chandigarh	4.5	5.0	4.0	1.6	1.7	1.4	4.6	5.1	4.0
3. Dadra & Nagar Haveli	4.0	4.0	3.9	5.0	4.9	5.1	3.2	3.4	2.8
4. Daman & Diu	4.6	5.0	4.1	6.1	6.7	5.4	4.2	4.6	3.7
5. Lakshadweep	6.0	7.1	4.9	7.9	8.1	7.7	5.5	6.8	4.2
6. Puducherry	7.2	9.7	4.8	7.8	10.8	4.9	6.9	9.3	4.7

Table 4: Infant mortality rate by sex and residence, 2016

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	34	33	36	38	37	40	23	22	25
Bigger States									
1. Andhra Pradesh	34	33	35	38	37	38	24	23	26
2. Assam	44	43	45	46	45	47	22	22	22
3. Bihar	38	31	46	39	31	47	29	26	34
4. Chhattisgarh	39	39	38	41	41	40	31	31	31
5. Delhi	18	18	17	24	23	25	17	18	16
6. Gujarat	30	31	30	38	39	37	19	18	19
7. Haryana	33	31	35	35	33	38	27	26	28
8. Jammu & Kashmir	24	24	25	25	24	26	23	23	23
9. Jharkhand	29	27	31	31	28	34	21	22	20
10. Karnataka	24	22	27	27	25	30	19	17	21
11. Kerala	10	9	11	10	10	11	10	8	11
12. Madhya Pradesh	47	49	44	50	53	47	33	34	31
13. Maharashtra	19	18	19	24	22	25	13	13	13
14. Odisha	44	44	44	46	45	46	34	36	31
15. Punjab	21	20	21	23	23	23	18	17	18
16. Rajasthan	41	39	44	45	42	47	30	27	33
17. Tamil Nadu	17	18	17	20	22	18	14	14	15
18. Telangana	31	31	30	35	36	33	24	24	25
19. Uttar Pradesh	43	41	45	46	45	47	34	29	40
20. Uttarakhand	38	36	41	41	39	44	29	27	32
21. West Bengal	25	24	26	25	25	26	22	22	23
Smaller States									
1. Arunachal Pradesh	36	35	37						
2. Goa	8	8	9						
3. Himachal Pradesh	25	23	26						
4. Manipur	11	10	13						
5. Meghalaya	39	41	37						
6. Mizoram	27	26	29						
7. Nagaland	12	5	21						
8. Sikkim	16	13	19						
9. Tripura	24	25	22						
Infant mortality rates for smaller States and Union Territories are based on three-years period 2014-16. 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	16	15	17						
2. Chandigarh	14	13	14						
3. Dadra & Nagar Haveli	17	16	17						
4. Daman & Diu	19	19	19						
5. Lakshadweep	19	22	15						
6. Puducherry	10	9	12						

ABOUT THE SAMPLE REGISTRATION SYSTEM (SRS)

The Sample Registration System (SRS) is a large-scale demographic survey for providing reliable annual estimates of Infant mortality rate, 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. The current Sample is based on the 2011 Census frame and is effective from January 2014. This report of SRS 2016 is based on 8,779 sample units (4,909 rural and 3,870 urban) spread across all States and Union territories excluding Ladakh Natural Division of Jammu & Kashmir.

Number of sample units and population covered, India, States and Union Territories, 2016

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*	8779	4909	3870	7708	5674	2033
Bigger States						
1. Andhra Pradesh	326	198	128	321	260	61
2. Assam	300	90	210	215	106	109
3. Bihar	330	200	130	360	283	76
4. Chhattisgarh	158	73	85	114	70	44
5. Delhi	199	10	189	128	15	114
6. Gujarat	478	231	247	416	289	127
7. Haryana	256	144	112	235	182	53
8. Jammu & Kashmir*	276	174	102	225	182	44
9. Jharkhand	212	91	121	150	90	60
10. Karnataka	511	361	150	491	411	80
11. Kerala	280	175	105	359	307	51
12. Madhya Pradesh	449	285	164	399	303	96
13. Maharashtra	662	306	356	501	340	161
14. Odisha	405	290	115	347	288	59
15. Punjab	249	130	119	202	142	60
16. Rajasthan	350	236	114	314	259	55
17. Tamil Nadu	545	235	310	504	327	177
18. Telangana	224	121	103	206	153	53
19. Uttar Pradesh	500	328	172	505	406	99
20. Uttarakhand	375	195	180	285	181	104
21. West Bengal	555	304	251	534	408	126
Smaller States						
1. Arunachal Pradesh	65	50	15	40	30	10
2. Goa	95	45	50	85	63	22
3. Himachal Pradesh	210	155	55	116	91	25
4. Manipur	165	120	45	146	120	26
5. Meghalaya	130	95	35	79	60	19
6. Mizoram	45	25	20	35	24	11
7. Nagaland	50	35	15	30	23	6
8. Sikkim	65	50	15	60	49	11
9. Tripura	90	65	25	105	90	14
Union Territories						
1. Andaman & Nicobar Islands	55	37	18	45	36	9
2. Chandigarh	40	5	35	30	10	21
3. Dadra & Nagar Haveli	35	15	20	40	27	13
4. Daman & Diu	25	15	10	27	21	6
5. Lakshadweep	14	2	12	12	3	9
6. Puducherry	55	18	37	48	26	21

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

*: Estimate of Jammu & Kashmir excludes the Ladakh Valley Natural Division.