



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, 2009

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	22.5	24.1	18.3	7.3	7.8	5.8	15.2	16.3	12.5	50	55	34
Bigger states												
1. Andhra Pradesh	18.3	18.8	17.0	7.6	8.5	5.5	10.6	10.3	11.5	49	54	35
2. Assam	23.6	24.9	15.9	8.4	8.8	5.9	15.2	16.1	10.1	61	64	37
3. Bihar	28.5	29.3	22.2	7.0	7.2	5.8	21.5	22.1	16.5	52	53	40
4. Chhattisgarh	25.7	27.2	19.0	8.1	8.5	6.4	17.6	18.8	12.6	54	55	47
5. Delhi	18.1	19.9	17.8	4.4	4.8	4.3	13.8	15.0	13.5	33	40	31
6. Gujarat	22.3	23.8	19.9	6.9	7.7	5.6	15.4	16.1	14.3	48	55	33
7. Haryana	22.7	23.8	20.1	6.6	7.1	5.7	16.0	16.7	14.5	51	54	41
8. Jammu & Kashmir	18.6	19.9	13.7	5.7	6.0	4.7	12.8	13.9	9.0	45	48	34
9. Jharkhand	25.6	27.1	19.2	7.0	7.4	5.3	18.6	19.7	13.9	44	46	30
10. Karnataka	19.5	20.6	17.6	7.2	8.3	5.3	12.3	12.3	12.3	41	47	31
11. Kerala	14.7	14.6	14.9	6.8	6.8	6.5	7.9	7.8	8.3	12	12	11
12. Madhya Pradesh	27.7	29.7	20.8	8.5	9.2	6.1	19.2	20.5	14.8	67	72	45
13. Maharashtra	17.6	18.1	16.9	6.7	7.6	5.5	10.9	10.6	11.4	31	37	22
14. Orissa	21.0	21.9	15.7	8.8	9.2	6.8	12.2	12.7	8.9	65	68	46
15. Punjab	17.0	17.7	15.8	7.0	7.8	5.8	9.9	9.9	10.1	38	42	31
16. Rajasthan	27.2	28.4	23.2	6.6	6.7	6.1	20.6	21.7	17.1	59	65	35
17. Tamil Nadu	16.3	16.5	16.0	7.6	8.5	6.6	8.6	8.0	9.4	28	30	26
18. Uttar Pradesh	28.7	29.7	24.7	8.2	8.6	6.5	20.5	21.1	18.3	63	66	47
19. West Bengal	17.2	19.1	12.1	6.2	6.1	6.4	11.0	13.0	5.7	33	34	27
Smaller states												
1. Arunachal Pradesh	21.1	22.6	14.9	6.1	7.0	2.5	15.0	15.6	12.4	32	35	14
2. Goa	13.5	13.0	13.9	6.7	8.2	5.8	6.8	4.8	8.1	11	11	10
3. Himachal Pradesh	17.2	17.8	11.7	7.2	7.4	4.9	10.0	10.4	6.8	45	46	28
4. Manipur	15.4	15.4	15.5	4.7	4.6	5.0	10.7	10.8	10.5	16	18	11
5. Meghalaya	24.4	26.4	15.0	8.1	8.6	5.7	16.3	17.9	9.4	59	61	40
6. Mizoram	17.6	21.7	13.2	4.5	5.0	4.1	13.0	16.7	9.2	36	45	19
7. Nagaland	17.2	17.4	16.3	3.6	3.7	3.1	13.6	13.7	13.2	26	27	23
8. Sikkim	18.1	18.4	16.0	5.7	6.0	3.9	12.3	12.4	12.1	34	36	21
9. Tripura	14.8	15.5	11.6	5.1	5.0	5.5	9.7	10.5	6.1	31	33	20
10. Uttarakhand	19.7	20.6	16.3	6.5	6.9	5.2	13.2	13.7	11.0	41	44	27
Union Territories												
1. Andaman & Nicobar Islands	16.3	16.5	16.1	4.1	4.4	3.6	12.2	12.0	12.5	27	31	20
2. Chandigarh	15.9	22.1	15.3	3.9	3.9	3.9	12.0	18.2	11.4	25	25	25
3. Dadra & Nagar Haveli	27.0	26.5	28.8	4.8	5.2	3.7	22.1	21.3	25.2	37	41	24
4. Daman & Diu	19.2	19.6	18.6	5.1	5.5	4.4	14.2	14.1	14.2	24	21	30
5. Lakshadweep	15.0	15.5	14.6	5.8	5.4	6.3	9.2	10.1	8.3	25	22	28
6. Puducherry	16.5	17.1	16.2	7.0	7.4	6.8	9.5	9.7	9.4	22	28	19

Note: Infant mortality rates for smaller States and Union Territories are based on three-years period 2007-09.

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: orgindia@vsnl.net 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	22.3	22.8	23.8	24.4	17.9	18.7	7.2	7.4
Bigger States								
1. Andhra Pradesh	17.7	18.9	18.1	19.5	16.0	18.1	7.3	8.0
2. Assam	21.8	25.4	22.9	26.9	14.9	16.9	7.9	8.8
3. Bihar	27.8	29.3	28.5	30.1	20.7	23.7	6.7	7.3
4. Chhattisgarh	24.2	27.3	25.4	29.1	17.3	20.7	7.2	9.0
5. Delhi	17.0	19.3	14.8	25.0	16.8	18.8	3.9	4.8
6. Gujarat	21.4	23.2	22.7	24.9	18.5	21.3	6.5	7.2
7. Haryana	21.6	23.7	22.4	25.2	18.5	21.7	6.2	7.0
8. Jammu & Kashmir	17.6	19.6	18.7	21.1	12.5	14.8	5.4	6.1
9. Jharkhand	24.2	26.9	25.4	28.8	18.2	20.1	6.4	7.5
10. Karnataka	18.6	20.4	19.4	21.8	16.3	18.9	6.8	7.6
11. Kerala	14.1	15.3	13.9	15.4	13.8	16.0	6.4	7.1
12. Madhya Pradesh	26.7	28.7	28.5	30.8	19.4	22.2	8.0	8.9
13. Maharashtra	17.1	18.1	17.7	18.5	15.9	17.9	6.4	6.9
14. Orissa	20.2	21.8	21.0	22.8	14.5	16.9	8.4	9.2
15. Punjab	16.4	17.6	17.0	18.4	14.6	17.1	6.7	7.4
16. Rajasthan	24.7	29.6	25.5	31.3	19.3	27.1	5.7	7.5
17. Tamil Nadu	15.9	16.7	16.0	17.0	15.2	16.7	7.3	8.0
18. Uttar Pradesh	28.0	29.5	28.9	30.5	23.3	26.2	7.9	8.5
19. West Bengal	16.5	17.9	18.2	20.0	11.2	13.0	5.9	6.4
Smaller States								
1. Arunachal Pradesh	19.0	23.2	20.1	25.1	12.7	17.1		
2. Goa	12.4	14.7	11.8	14.2	12.1	15.6		
3. Himachal Pradesh	16.1	18.4	16.5	19.1	10.3	13.1		
4. Manipur	14.4	16.4	14.2	16.6	13.5	17.4		
5. Meghalaya	22.3	26.5	24.0	28.9	11.9	18.2		
6. Mizoram	15.6	19.5	18.3	25.1	11.6	14.8		
7. Nagaland	15.5	18.9	15.3	19.6	14.9	17.6		
8. Sikkim	17.0	19.1	17.2	19.6	13.8	18.2		
9. Tripura	13.7	15.9	14.2	16.8	10.0	13.2		
10. Uttarakhand	15.9	23.5	15.7	25.5	14.3	18.3		
Union Territories								
1. Andaman & Nicobar Islands	14.6	18.1	14.1	18.8	13.8	18.4		
2. Chandigarh	13.3	18.6	15.9	28.4	12.4	18.2		
3. Dadra & Nagar Haveli	24.8	29.2	24.3	28.6	21.9	35.7		
4. Daman & Diu	16.0	22.5	15.2	24.1	14.1	23.1		
5. Lakshadweep	13.0	17.1	13.4	17.6	11.0	18.1		
6. Puducherry	15.2	17.8	16.0	18.3	14.3	18.1		

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, 2009

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
7.7	8.0	5.7	6.0	49	52	54	57	31	36	India

Bigger States

8.1	9.0	5.0	6.1	43	55	47	61	26	44	1. Andhra Pradesh
8.2	9.4	5.4	6.4	53	69	54	73	28	45	2. Assam
6.8	7.5	5.1	6.4	47	56	48	58	30	50	3. Bihar
7.4	9.5	5.6	7.3	46	62	46	64	36	57	4. Chhattisgarh
3.2	6.5	3.9	4.7	27	39	26	54	25	38	5. Delhi
7.3	8.1	5.0	6.3	42	53	49	62	25	41	6. Gujarat
6.5	7.6	5.1	6.2	45	57	47	62	33	49	7. Haryana
5.6	6.4	4.1	5.3	40	51	42	53	22	46	8. Jammu & Kashmir
6.7	8.1	4.7	5.9	39	48	40	52	22	38	9. Jharkhand
7.7	8.8	4.7	5.9	36	47	40	53	22	40	10. Karnataka
6.5	7.2	5.8	7.2	9	15	8	16	4	17	11. Kerala
8.6	9.7	5.4	6.7	64	71	67	76	35	55	12. Madhya Pradesh
7.3	7.8	5.1	6.0	28	33	33	40	16	27	13. Maharashtra
8.7	9.6	6.1	7.4	59	71	61	74	33	59	14. Orissa
7.3	8.3	5.2	6.3	31	45	34	50	19	42	15. Punjab
5.6	7.9	4.6	7.5	49	69	53	78	13	56	16. Rajasthan
8.1	8.9	6.1	7.0	24	32	25	34	20	31	17. Tamil Nadu
8.3	8.9	5.9	7.0	60	66	63	70	39	54	18. Uttar Pradesh
5.8	6.4	6.0	6.7	29	37	30	39	20	34	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, 2009

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	7.3	7.8	6.7	7.8	8.4	7.3	5.8	6.4	5.3
Bigger States									
1. Andhra Pradesh	7.6	8.4	6.9	8.5	9.3	7.7	5.5	6.0	5.1
2. Assam	8.4	9.3	7.4	8.8	9.7	7.9	5.9	7.1	4.6
3. Bihar	7.0	7.2	6.8	7.2	7.2	7.1	5.8	6.6	4.9
4. Chhattisgarh	8.1	9.0	7.2	8.5	9.5	7.5	6.4	7.2	5.7
5. Delhi	4.4	4.7	4.0	4.8	5.8	3.7	4.3	4.5	4.1
6. Gujarat	6.9	7.3	6.4	7.7	8.5	6.8	5.6	5.5	5.7
7. Haryana	6.6	7.4	5.7	7.1	7.9	6.1	5.7	6.3	4.9
8. Jammu & Kashmir	5.7	6.3	5.2	6.0	6.5	5.5	4.7	5.6	3.8
9. Jharkhand	7.0	7.0	6.9	7.4	7.4	7.4	5.3	5.7	4.9
10. Karnataka	7.2	8.1	6.4	8.3	9.4	7.2	5.3	5.7	4.9
11. Kerala	6.8	7.8	5.8	6.8	8.0	5.7	6.5	7.1	6.0
12. Madhya Pradesh	8.5	8.5	8.4	9.2	9.2	9.2	6.1	6.3	5.8
13. Maharashtra	6.7	7.5	5.8	7.6	8.5	6.6	5.5	6.3	4.7
14. Orissa	8.8	9.4	8.3	9.2	9.8	8.6	6.8	7.2	6.3
15. Punjab	7.0	7.6	6.4	7.8	8.5	7.0	5.8	6.1	5.4
16. Rajasthan	6.6	7.1	6.0	6.7	7.2	6.3	6.1	6.8	5.2
17. Tamil Nadu	7.6	8.5	6.8	8.5	9.4	7.5	6.6	7.3	5.8
18. Uttar Pradesh	8.2	8.5	7.8	8.6	8.8	8.4	6.5	7.3	5.6
19. West Bengal	6.2	6.7	5.6	6.1	6.6	5.6	6.4	6.8	5.9
Smaller States									
1. Arunachal Pradesh	6.1	7.3	4.9	7.0	8.5	5.4	2.5	2.4	2.5
2. Goa	6.7	8.1	5.4	8.2	9.4	7.0	5.8	7.2	4.4
3. Himachal Pradesh	7.2	8.4	6.0	7.4	8.7	6.2	4.9	5.5	4.2
4. Manipur	4.7	5.3	4.1	4.6	5.3	3.9	5.0	5.5	4.5
5. Meghalaya	8.1	8.8	7.3	8.6	9.4	7.7	5.7	5.8	5.5
6. Mizoram	4.5	5.1	4.0	5.0	5.4	4.6	4.1	4.7	3.4
7. Nagaland	3.6	3.7	3.4	3.7	4.2	3.2	3.1	2.1	4.1
8. Sikkim	5.7	5.9	5.6	6.0	6.1	6.0	3.9	4.8	2.9
9. Tripura	5.1	5.7	4.5	5.0	5.4	4.6	5.5	7.2	3.8
10. Uttarakhand	6.5	7.0	6.1	6.9	7.4	6.4	5.2	5.6	4.8
Union Territories									
1. Andaman & Nicobar Islands	4.1	5.3	2.9	4.4	5.8	2.9	3.6	4.3	2.9
2. Chandigarh	3.9	4.7	3.0	3.9	3.8	4.0	3.9	4.8	2.9
3. Dadra & Nagar Haveli	4.8	5.5	4.1	5.2	6.1	4.1	3.7	3.1	4.3
4. Daman & Diu	5.1	5.2	4.9	5.5	5.7	5.2	4.4	4.3	4.4
5. Lakshadweep	5.8	6.3	5.4	5.4	4.6	6.1	6.3	8.0	4.7
6. Puducherry	7.0	7.9	6.1	7.4	9.6	5.3	6.8	7.1	6.4

Table 4: Infant mortality rate by sex and residence, 2009

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	50	49	52	55	54	56	34	32	35
Bigger States									
1. Andhra Pradesh	49	48	50	54	53	55	35	34	37
2. Assam	61	58	64	64	61	67	37	35	38
3. Bihar	52	52	52	53	53	53	40	39	41
4. Chhattisgarh	54	50	57	55	51	58	47	43	50
5. Delhi	33	31	34	40	40	39	31	29	33
6. Gujarat	48	47	48	55	55	56	33	32	34
7. Haryana	51	48	53	54	52	58	41	39	42
8. Jammu & Kashmir	45	41	51	48	43	53	34	31	39
9. Jharkhand	44	42	46	46	44	48	30	27	33
10. Karnataka	41	41	42	47	46	47	31	30	32
11. Kerala	12	10	13	12	10	14	11	10	11
12. Madhya Pradesh	67	66	68	72	71	72	45	44	47
13. Maharashtra	31	28	33	37	35	39	22	19	25
14. Orissa	65	65	66	68	67	68	46	44	48
15. Punjab	38	37	39	42	41	43	31	29	33
16. Rajasthan	59	58	61	65	64	67	35	31	39
17. Tamil Nadu	28	27	29	30	29	30	26	24	27
18. Uttar Pradesh	63	62	65	66	65	68	47	46	48
19. West Bengal	33	33	33	34	34	35	27	26	28
Smaller States									
1. Arunachal Pradesh	32	31	34						
2. Goa	11	7	14						
3. Himachal Pradesh	45	44	45						
4. Manipur	16	14	18						
5. Meghalaya	59	59	59						
6. Mizoram	36	33	38						
7. Nagaland	26	23	28						
8. Sikkim	34	35	33						
9. Tripura	31	33	30						
10. Uttarakhand	41	41	42						
Infant mortality rates for smaller States and Union Territories are based on three-years period 2007-09. 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	27	29	25						
2. Chandigarh	25	26	23						
3. Dadra & Nagar Haveli	37	38	37						
4. Daman & Diu	24	21	28						
5. Lakshadweep	25	21	29						
6. Puducherry	22	25	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 7.18 million population.

Number of sample units and population covered, India, States and Union Territories, 2009

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	7183	5259	1924
Bigger States						
1. Andhra Pradesh	375	235	140	405	317	88
2. Assam	300	90	210	211	93	119
3. Bihar	330	200	130	358	290	68
4. Chhattisgarh	130	40	90	106	44	62
5. Delhi	200	10	190	162	20	142
6. Gujarat	365	215	150	363	283	80
7. Haryana	210	100	110	212	135	77
8. Jammu & Kashmir	260	150	110	221	172	50
9. Jharkhand	170	60	110	117	62	55
10. Karnataka	480	330	150	439	356	83
11. Kerala	250	150	100	346	282	64
12. Madhya Pradesh	340	220	120	318	245	73
13. Maharashtra	485	250	235	411	277	134
14. Orissa	405	290	115	339	271	67
15. Punjab	250	150	100	245	177	67
16. Rajasthan	350	250	100	335	285	51
17. Tamil Nadu	465	250	215	464	329	135
18. Uttar Pradesh	500	350	150	568	467	100
19. West Bengal	555	310	245	591	429	162
Smaller States						
1. Arunachal Pradesh	60	45	15	33	22	11
2. Goa	85	43	42	80	56	23
3. Himachal Pradesh	190	140	50	96	69	27
4. Manipur	150	110	40	136	111	25
5. Meghalaya	120	90	30	68	50	17
6. Mizoram	40	20	20	31	18	13
7. Nagaland	45	33	12	37	29	8
8. Sikkim	60	45	15	64	53	11
9. Tripura	80	60	20	111	99	12
10. Uttarakhand	150	100	50	113	83	30
Union Territories						
1. Andaman & Nicobar Islands	50	34	16	39	29	10
2. Chandigarh	35	5	30	33	10	23
3. Dadra & Nagar Haveli	30	22	8	40	35	5
4. Daman & Diu	20	13	7	28	23	4
5. Lakshadweep	12	6	6	15	10	5

6.	Puducherry	50	17	33	47	26	21
----	------------	----	----	----	----	----	----

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