



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, 2004

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	24.1	25.9	19.0	7.5	8.2	5.8	16.6	17.8	13.3	58	64	40
Bigger states												
1. Andhra Pradesh	19.0	20.2	16.1	7.0	7.9	5.0	12.0	12.3	11.1	59	65	39
2. Assam	25.1	27.0	14.3	8.8	9.3	5.5	16.3	17.6	8.7	66	69	38
3. Bihar	30.2	31.0	23.1	8.1	8.3	5.7	22.1	22.7	17.3	61	63	47
4. Chhatisgarh	27.4	29.3	19.4	7.7	8.1	6.0	19.7	21.2	13.3	60	61	52
5. Delhi	18.4	18.4	18.4	4.7	5.4	4.6	13.7	13.0	13.8	32	48	30
6. Gujarat	24.3	26.3	21.1	6.9	7.8	5.5	17.4	18.6	15.7	53	62	38
7. Haryana	25.1	26.8	21.2	6.6	7.1	5.6	18.5	19.7	15.6	61	66	47
8. Jammu & Kashmir	18.7	20.2	13.4	5.6	5.8	5.1	13.0	14.4	8.3	49	51	37
9. Jharkhand	26.2	28.1	18.5	8.0	8.7	5.0	18.2	19.4	13.4	49	51	34
10. Karnataka	20.9	22.5	17.9	6.9	7.8	5.3	14.0	14.7	12.6	49	54	38
11. Kerala	15.2	15.4	14.6	6.1	6.0	6.4	9.1	9.4	8.2	12	13	9
12. Madhya Pradesh	29.8	32.0	22.6	9.2	10.1	6.4	20.6	22.0	16.3	79	84	56
13. Maharashtra	19.1	19.9	17.9	6.2	6.8	5.4	12.8	13.1	12.5	36	42	27
14. Orissa	22.7	23.6	17.3	9.6	10.0	7.2	13.1	13.6	10.1	77	80	58
15. Punjab	18.7	19.3	17.6	6.4	6.9	5.6	12.2	12.3	12.0	45	50	36
16. Rajasthan	29.0	30.8	23.7	7.0	7.3	6.1	22.0	23.5	17.6	67	74	42
17. Tamil Nadu	17.1	17.8	16.2	7.5	8.1	6.7	9.6	9.8	9.5	41	45	35
18. Uttar Pradesh	30.8	32.0	26.2	8.8	9.5	6.2	22.0	22.5	20.0	72	75	53
19. West Bengal	19.3	21.8	12.9	6.3	6.4	6.0	13.1	15.4	6.9	40	42	32
Smaller states												
1. Arunachal Pradesh	21.2	22.2	16.8	4.7	5.0	3.1	16.6	17.2	13.7	38	39	17
2. Goa	13.8	12.9	14.4	7.2	8.1	6.5	6.6	4.8	7.9	17	17	16
3. Himachal Pradesh	19.2	19.9	12.7	6.8	7.0	4.5	12.4	12.9	8.2	51	53	23
4. Manipur	13.9	13.3	15.8	4.3	4.3	4.4	9.6	9.0	11.5	14	13	19
5. Meghalaya	25.2	26.6	18.5	7.3	7.6	6.0	17.8	19.0	12.5	54	55	43
6. Mizoram	19.1	23.5	14.6	5.2	6.1	4.3	13.9	17.5	10.3	19	23	13
7. Nagaland	13.9	13.5	15.9	3.7	4.0	2.3	10.2	9.5	13.6	17	17	16
8. Sikkim	19.5	19.7	18.1	4.9	5.1	4.0	14.5	14.6	14.1	32	33	20
9. Tripura	15.0	15.6	11.9	5.5	5.5	5.7	9.4	10.1	6.2	32	33	29
10. Uttaranchal	20.5	21.6	16.2	7.2	8.0	4.4	13.2	13.6	11.7	42	57	22
Union Territories												
1. Andaman & Nicobar Islands	16.9	17.4	16.0	3.7	3.7	3.6	13.2	13.6	12.4	19	22	11
2. Chandigarh	16.1	21.4	15.6	2.9	2.8	2.9	13.1	18.6	12.6	21	25	20
3. Dadra & Nagar Haveli	28.8	28.6	29.5	5.2	5.7	3.0	23.6	22.8	26.4	48	50	21
4. Daman & Diu	20.0	19.7	20.6	5.8	5.5	6.2	14.3	14.1	14.4	37	39	35
5. Lakshadweep	20.4	21.0	19.8	7.3	5.5	9.1	13.1	15.5	10.7	30	24	37
6. Pondicherry	17.0	17.0	17.0	8.0	7.6	8.2	9.0	9.4	8.8	24	33	19

Note : Infant mortality rates for smaller States and Union territories are based on three-years period 2002-04.

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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	23.8	24.3	25.6	26.3	18.7	19.4	7.4	7.6
Bigger States								
1. Andhra Pradesh	18.3	19.7	19.3	21.1	14.9	17.2	6.7	7.4
2. Assam	23.1	27.1	24.7	29.3	13.2	15.3	8.1	9.5
3. Bihar	29.3	31.0	30.1	31.9	21.5	24.6	7.8	8.3
4. Chhatisgarh	24.4	30.5	25.5	33.1	18.0	20.7	6.6	8.9
5. Delhi	17.2	19.6	14.6	22.3	17.1	19.7	4.4	5.1
6. Gujarat	23.3	25.3	25.0	27.7	19.6	22.7	6.5	7.2
7. Haryana	23.9	26.3	25.2	28.4	19.4	22.9	6.1	7.1
8. Jammu & Kashmir	17.7	19.6	18.9	21.4	12.3	14.6	5.3	6.0
9. Jharkhand	25.0	27.3	26.7	29.6	17.3	19.6	7.2	8.7
10. Karnataka	19.9	21.9	21.1	23.9	16.7	19.1	6.5	7.3
11. Kerala	14.6	15.8	14.7	16.1	13.4	15.7	5.7	6.4
12. Madhya Pradesh	28.8	30.9	30.7	33.4	21.0	24.3	8.7	9.7
13. Maharashtra	18.6	19.6	19.5	20.4	16.9	18.9	6.0	6.5
14. Orissa	21.9	23.6	22.7	24.6	16.0	18.6	9.2	10.0
15. Punjab	17.9	19.4	18.5	20.1	16.1	19.2	6.0	6.8
16. Rajasthan	28.2	29.8	29.9	31.7	22.0	25.4	6.7	7.4
17. Tamil Nadu	16.8	17.5	17.3	18.3	15.6	16.9	7.2	7.8
18. Uttar Pradesh	29.9	31.7	30.9	33.0	24.7	27.7	8.5	9.2
19. West Bengal	18.6	20.0	20.9	22.7	12.1	13.8	6.0	6.5
Smaller States								
1. Arunachal Pradesh	18.1	24.4	18.4	26.0	13.3	20.3		
2. Goa	12.3	15.2	11.7	14.1	12.1	16.7		
3. Himachal Pradesh	17.8	20.6	18.4	21.5	11.0	14.3		
4. Manipur	12.8	15.0	12.1	14.5	13.7	18.0		
5. Meghalaya	22.6	27.7	23.5	29.7	15.0	22.0		
6. Mizoram	16.3	22.0	18.7	28.4	11.5	17.7		
7. Nagaland	12.1	15.7	11.4	15.6	12.9	18.8		
8. Sikkim	17.9	21.1	17.9	21.5	15.1	21.2		
9. Tripura	13.9	16.0	14.4	16.8	9.5	14.2		
10. Uttaranchal	16.7	24.3	16.7	26.6	13.8	18.5		
Union territories								
1. Andaman & Nicobar Islands	15.0	18.9	14.7	20.0	13.3	18.7		
2. Chandigarh	12.6	19.5	12.9	29.9	11.9	19.2		
3. Dadra & Nagar Haveli	26.0	31.5	25.4	31.8	24.1	34.8		
4. Daman & Diu	16.8	23.3	17.0	22.3	13.2	28.0		
5. Lakshadweep	16.7	24.1	17.4	24.7	13.3	26.3		
6. Pondicherry	15.3	18.7	15.6	18.4	14.5	19.4		

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, 2004

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
8.0	8.3	5.6	5.9	57	60	62	66	38	42	India
Bigger States										
7.4	8.3	4.3	5.7	55	62	61	69	31	47	1. Andhra Pradesh
8.5	10.2	5.0	6.1	59	74	60	77	31	46	2. Assam
8.1	8.6	5.1	6.4	55	68	55	70	41	52	3. Bihar
6.7	9.5	5.3	6.8	50	70	49	73	44	60	4. Chhatisgarh
4.7	6.1	4.3	5.0	26	39	37	59	22	37	5. Delhi
7.3	8.2	4.8	6.1	49	58	56	68	30	45	6. Gujarat
6.4	7.7	4.9	6.2	56	66	59	72	40	54	7. Haryana
5.3	6.2	4.6	5.6	44	54	45	57	25	49	8. Jammu & Kashmir
7.8	9.6	4.3	5.8	42	56	43	60	25	42	9. Jharkhand
7.2	8.3	4.8	5.9	43	55	46	62	29	46	10. Karnataka
5.6	6.4	5.6	7.1	8	16	8	18	3	15	11. Kerala
9.4	10.7	5.5	7.2	73	85	77	91	48	63	12. Madhya Pradesh
6.6	7.1	4.9	5.9	32	40	38	47	20	34	13. Maharashtra
9.6	10.5	6.5	7.9	70	85	71	88	49	67	14. Orissa
6.5	7.4	4.9	6.3	39	51	41	59	28	44	15. Punjab
6.9	7.8	5.6	6.7	62	72	68	80	34	49	16. Rajasthan
7.7	8.4	6.3	7.2	36	46	38	51	27	43	17. Tamil Nadu
9.1	9.9	5.7	6.7	67	77	69	81	47	59	18. Uttar Pradesh
6.0	6.7	5.6	6.5	36	44	37	46	25	40	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. Pondicherry										

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, 2004

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	7.5	8.0	7.0	8.2	8.7	7.6	5.8	6.1	5.4
Bigger States									
1. Andhra Pradesh	7.0	8.0	6.1	7.9	8.9	6.8	5.0	5.6	4.3
2. Assam	8.8	9.6	7.9	9.3	10.2	8.4	5.5	6.3	4.7
3. Bihar	8.1	8.5	7.6	8.3	8.8	7.8	5.7	5.8	5.6
4. Chhattisgarh	7.7	8.6	6.9	8.1	8.9	7.3	6.0	7.0	5.0
5. Delhi	4.7	5.3	4.1	5.4	6.6	4.0	4.6	5.0	4.2
6. Gujarat	6.9	7.3	6.3	7.8	8.7	6.9	5.5	5.4	5.5
7. Haryana	6.6	7.2	6.0	7.1	7.8	6.3	5.6	5.8	5.4
8. Jammu & Kashmir	5.6	6.0	5.3	5.8	5.9	5.7	5.1	6.3	3.9
9. Jharkhand	8.0	8.1	7.8	8.7	8.9	8.5	5.0	5.2	4.8
10. Karnataka	6.9	7.8	6.0	7.8	8.6	7.0	5.3	6.5	4.1
11. Kerala	6.1	7.2	5.0	6.0	7.1	4.9	6.4	7.4	5.4
12. Madhya Pradesh	9.2	9.3	9.1	10.1	10.2	9.9	6.4	6.4	6.3
13. Maharashtra	6.2	6.6	5.8	6.8	7.3	6.4	5.4	5.8	5.0
14. Orissa	9.6	10.3	8.9	10.0	10.9	9.2	7.2	7.0	7.4
15. Punjab	6.4	6.7	6.2	6.9	7.2	6.6	5.6	5.7	5.4
16. Rajasthan	7.0	7.5	6.5	7.3	7.9	6.7	6.1	6.5	5.7
17. Tamil Nadu	7.5	8.1	6.9	8.1	8.7	7.4	6.7	7.4	6.1
18. Uttar Pradesh	8.8	9.0	8.7	9.5	9.7	9.3	6.2	6.1	6.3
19. West Bengal	6.3	6.9	5.6	6.4	7.1	5.6	6.0	6.4	5.6
Smaller States									
1. Arunachal Pradesh	4.7	4.7	4.6	5.0	5.0	5.0	3.1	3.4	2.8
2. Goa	7.2	8.3	6.0	8.1	10.3	5.9	6.5	7.0	6.0
3. Himachal Pradesh	6.8	7.7	5.8	7.0	8.0	6.0	4.5	4.9	3.9
4. Manipur	4.3	5.2	3.4	4.3	5.1	3.5	4.4	5.7	3.1
5. Meghalaya	7.3	7.8	6.8	7.6	7.9	7.3	6.0	7.2	4.8
6. Mizoram	5.2	5.8	4.6	6.1	6.2	6.0	4.3	5.3	3.3
7. Nagaland	3.7	4.2	3.2	4.0	4.6	3.5	2.3	2.7	1.9
8. Sikkim	4.9	5.6	4.2	5.1	5.6	4.5	4.0	5.7	2.2
9. Tripura	5.5	6.7	4.3	5.5	6.2	4.7	5.7	9.1	2.3
10. Uttaranchal	7.2	8.1	6.3	8.0	8.8	7.1	4.4	5.4	3.4
Union Territories									
1. Andaman & Nicobar Islands	3.7	4.3	3.1	3.7	4.1	3.3	3.6	4.6	2.6
2. Chandigarh	2.9	2.8	3.1	2.8	3.3	1.9	2.9	2.7	3.2
3. Dadra & Nagar Haveli	5.2	6.3	3.9	5.7	6.7	4.7	3.0	4.8	0.6
4. Daman & Diu	5.8	6.3	5.1	5.5	5.6	5.4	6.2	7.6	4.5
5. Lakshadweep	7.3	7.4	7.2	5.5	5.8	5.2	9.1	9.0	9.1
6. Pondicherry	8.0	9.1	6.9	7.6	9.2	6.0	8.2	9.1	7.3

Table 4 : Infant mortality rate by sex and residence, 2004

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	58	58	58	64	64	63	40	39	40
Bigger States									
1. Andhra Pradesh	59	59	58	65	64	66	39	42	35
2. Assam	66	76	55	69	80	57	38	37	40
3. Bihar	61	60	63	63	61	65	47	44	50
4. Chhattisgarh	60	78	42	61	82	41	52	51	53
5. Delhi	32	32	32	48	47	49	30	30	29
6. Gujarat	53	50	57	62	62	62	38	30	48
7. Haryana	61	55	68	66	63	69	47	30	67
8. Jammu & Kashmir	49	41	59	51	41	64	37	40	34
9. Jharkhand	49	42	57	51	47	57	34	17	53
10. Karnataka	49	49	49	54	52	57	38	44	31
11. Kerala	12	14	11	13	15	11	9	9	9
12. Madhya Pradesh	79	82	75	84	88	80	56	58	53
13. Maharashtra	36	31	42	42	34	53	27	28	26
14. Orissa	77	76	79	80	78	81	58	54	63
15. Punjab	45	37	55	50	42	60	36	28	46
16. Rajasthan	67	66	69	74	70	79	42	49	33
17. Tamil Nadu	41	43	38	45	46	44	35	39	30
18. Uttar Pradesh	72	71	72	75	75	75	53	51	55
19. West Bengal	40	45	34	42	48	35	32	33	32
Smaller States									
1. Arunachal Pradesh	38	34	42						
2. Goa	17	17	17						
3. Himachal Pradesh	51	56	45						
4. Manipur	14	16	12						
5. Meghalaya	54	52	55						
6. Mizoram	19	21	16						
7. Nagaland	17	18	16						
8. Sikkim	32	37	27						
9. Tripura	32	36	27						
10. Uttaranchal	42	37	49						
<p>Infant mortality rates for smaller States and Union territories are based on three-years period 2002-04. 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	19	17	21						
2. Chandigarh	21	24	17						
3. Dadra & Nagar Haveli	48	56	39						
4. Daman & Diu	37	44	28						
5. Lakshadweep	30	30	30						
6. Pondicherry	24	30	17						

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 the computer-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 1.3 million households and 6.73 million population. Some fluctuations in the vital rates for 2004 over previous year for certain states and union territories may largely be due to complete replacement of the sample in one go.

Number of sample units and population covered, India, States and Union territories, 2004

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	6,734	4,936	1,798
Bigger States						
1. Andhra Pradesh	375	235	140	391	309	82
2. Assam	300	90	210	192	83	109
3. Bihar	330	200	130	329	266	63
4. Chhattisgarh	130	40	90	98	39	59
5. Delhi	200	10	190	137	17	120
6. Gujarat	365	215	150	342	265	77
7. Haryana	210	100	110	199	129	70
8. Jammu & Kashmir	260	150	110	211	161	50
9. Jharkhand	170	60	110	111	57	54
10. Karnataka	480	330	150	426	349	77
11. Kerala	250	150	100	330	270	61
12. Madhya Pradesh	340	220	120	297	225	72
13. Maharashtra	485	250	235	396	269	127
14. Orissa	405	290	115	320	257	64
15. Punjab	250	150	100	233	168	65
16. Rajasthan	350	250	100	309	260	50
17. Tamil Nadu	465	250	215	446	319	128
18. Uttar Pradesh	500	350	150	528	431	97
19. West Bengal	555	310	245	549	396	152
Smaller States						
1. Arunachal Pradesh	60	45	15	29	20	9
2. Goa	85	43	42	75	53	21
3. Himachal Pradesh	190	140	50	92	65	27
4. Manipur	150	110	40	128	105	23
5. Meghalaya	120	90	30	59	44	15
6. Mizoram	40	20	20	29	16	13
7. Nagaland	45	33	12	39	32	7
8. Sikkim	60	45	15	55	46	9
9. Tripura	80	60	20	101	90	11
10. Uttaranchal	150	100	50	107	77	29
Union Territories						
1. Andaman & Nicobar Islands	50	34	16	33	24	9
2. Chandigarh	35	5	30	26	8	18
3. Dadra & Nagar Haveli	30	22	8	34	30	4
4. Daman & Diu	20	13	7	25	21	4
5. Lakshadweep	12	6	6	14	10	4
6. Pondicherry	50	17	33	43	24	20

Note : 1. Population figures exclude that of 2 rural units of Chhattisgarh, 1 rural unit of Madhya Pradesh, 3 urban units of Chandigarh and 4 rural units of Andaman & Nicobar Islands due to non-receipt of returns.

2. 'Total' population may not add up to 'Rural' and 'Urban' populations due to rounding.