



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, 2003

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*	24.8	26.4	19.8	8.0	8.7	6.0	16.8	17.8	13.8	60	66	38
Bigger States												
1. Andhra Pradesh	20.4	20.9	19.1	8.0	8.8	5.4	12.5	12.1	13.7	59	67	33
2. Assam	26.3	27.2	18.0	9.1	9.5	5.9	17.2	17.7	12.0	67	70	35
3. Bihar	30.7	31.6	23.4	7.9	8.1	6.0	22.8	23.5	17.4	60	62	49
4. Gujarat	24.6	26.5	20.5	7.6	8.2	6.3	17.0	18.3	14.2	57	65	36
5. Haryana	26.3	27.4	22.3	7.1	7.3	6.2	19.3	20.1	16.1	59	61	49
6. Karnataka	21.8	23.2	18.6	7.2	7.8	5.6	14.6	15.3	13.0	52	61	24
7. Kerala	16.7	16.9	16.0	6.3	6.4	6.1	10.3	10.5	9.9	11	12	10
8. Madhya Pradesh	30.2	32.1	22.5	9.8	10.4	7.1	20.5	21.7	15.3	82	86	55
9. Maharashtra	19.9	20.1	19.4	7.2	8.2	5.6	12.6	11.9	13.9	42	48	32
10. Orissa	23.0	23.5	19.4	9.7	10.2	6.3	13.3	13.3	13.2	83	86	55
11. Punjab	20.6	21.5	17.9	7.0	7.3	6.0	13.6	14.2	11.9	49	53	34
12. Rajasthan	30.3	31.6	24.0	7.6	7.9	6.2	22.7	23.7	17.8	75	78	53
13. Tamil Nadu	18.3	18.8	17.3	7.6	8.5	5.6	10.7	10.2	11.7	43	48	31
14. Uttar Pradesh	31.3	32.2	26.6	9.5	10.1	7.0	21.7	22.2	19.7	76	79	55
15. West Bengal	20.3	22.4	14.0	6.6	6.8	6.2	13.6	15.6	7.8	46	48	34
Smaller States												
1. Arunachal Pradesh	18.9	19.5	12.3	4.7	4.9	2.5	14.2	14.6	9.8	34	35	11
2. Chhatisgarh	25.2	26.8	22.5	8.5	9.5	7.1	16.6	17.3	15.5	70	77	55
3. Goa	13.9	14.3	13.3	8.1	8.9	7.0	5.8	5.4	6.3	16	18	14
4. Jharkhand	26.3	28.5	18.9	8.0	8.7	5.5	18.3	19.8	13.5	51	54	34
5. Himachal Pradesh	20.6	20.9	16.1	7.1	7.3	4.9	13.5	13.6	11.2	49	51	26
6. Jammu & Kashmir	18.6	19.2	15.9	5.7	5.9	5.3	12.9	13.4	10.6	44	46	32
7. Manipur	15.5	16.1	14.1	4.8	4.9	4.4	10.7	11.1	9.7	16	15	19
8. Meghalaya	24.7	26.6	13.8	7.4	8.1	3.4	17.3	18.5	10.4	57	59	44
9. Mizoram	16.0	19.4	11.7	5.1	6.2	3.6	10.9	13.2	8.1	16	18	14
10. Nagaland	N.A.	N.A.	11.8	N.A.	N.A.	2.4	N.A.	N.A.	9.5	N.A.	N.A.	16
11. Sikkim	21.9	22.3	13.4	5.0	5.1	4.0	16.9	17.2	9.5	33	33	23
12. Tripura	14.5	14.8	13.2	5.5	5.4	6.0	9.0	9.4	7.2	32	32	31
13. Uttaranchal	17.2	18.9	16.0	6.5	8.6	4.8	10.8	10.3	11.1	41	62	21
Union territories												
1. Andaman & Nicobar Islands	17.1	18.1	14.3	5.6	6.4	3.4	11.6	11.8	11.0	18	20	11
2. Chandigarh	14.8	22.4	13.9	3.8	3.9	3.8	11.0	18.4	10.1	19	25	18
3. Dadra & Nagar Haveli	30.3	31.2	20.1	6.1	6.4	3.4	24.1	24.8	16.7	54	57	19
4. Daman & Diu	22.4	23.3	21.6	6.6	7.3	6.0	15.8	16.0	15.6	39	41	38
5. Delhi	17.3	21.3	16.8	5.0	5.5	4.9	12.4	15.8	11.9	28	32	28
6. Lakshadweep	19.0	20.1	18.0	5.2	5.0	5.4	13.8	15.1	12.6	26	31	21
7. Pondicherry	17.5	18.0	17.1	6.3	7.7	5.4	11.2	10.3	11.8	24	33	17

* : Excludes Nagaland (Rural) due to part-receipt of returns.

N. A. : Not available due to part-receipt of returns.

Note : Infant mortality rates for smaller States and Union territories are based on three-years period 2001-03.

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Table 2 : Ninety five percent confidence limits (lower and upper limits) for

India/States/ Union territories	Birth Rate						Death	
	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*	24.5	25.1	26.0	26.8	19.2	20.4	7.9	8.1
Bigger States								
1. Andhra Pradesh	19.7	21.2	20.0	21.7	17.8	20.5	7.6	8.3
2. Assam	25.5	27.1	26.4	28.1	16.5	19.4	8.6	9.6
3. Bihar	30.0	31.3	31.1	32.1	20.0	26.8	7.6	8.2
4. Gujarat	23.7	25.5	25.5	27.6	19.0	22.1	7.2	8.0
5. Haryana	25.3	27.3	26.2	28.5	20.3	24.3	6.6	7.6
6. Karnataka	21.0	22.5	22.4	24.0	16.9	20.2	6.8	7.5
7. Kerala	16.1	17.3	16.2	17.6	14.8	17.2	6.0	6.6
8. Madhya Pradesh	29.5	30.9	31.4	32.9	20.7	24.2	9.5	10.1
9. Maharashtra	19.3	20.5	19.5	20.8	18.3	20.6	6.9	7.5
10. Orissa	22.3	23.7	22.7	24.2	18.1	20.7	9.3	10.1
11. Punjab	19.9	21.3	20.8	22.2	16.3	19.5	6.6	7.4
12. Rajasthan	29.5	31.1	30.7	32.4	22.5	25.6	7.3	7.9
13. Tamil Nadu	17.8	18.8	18.2	19.4	16.2	18.4	7.3	7.9
14. Uttar Pradesh	29.8	32.8	30.5	34.0	24.9	28.3	9.0	10.0
15. West Bengal	19.7	20.8	21.7	23.1	12.9	15.0	6.4	6.8
Smaller States								
1. Arunachal Pradesh	16.3	21.5	16.6	22.4	6.6	18.0		
2. Chhatisgarh	23.4	26.9	25.4	28.3	18.2	26.9		
3. Goa	13.0	14.7	13.3	15.2	11.7	14.9		
4. Jharkhand	23.4	29.2	26.9	30.1	9.2	28.7		
5. Himachal Pradesh	19.4	21.8	19.7	22.2	14.1	18.2		
6. Jammu & Kashmir	17.4	19.8	17.9	20.6	14.1	17.6		
7. Manipur	14.6	16.5	14.9	17.2	12.0	16.2		
8. Meghalaya	22.9	26.5	24.6	28.5	11.3	16.3		
9. Mizoram	14.0	18.0	16.8	22.1	8.7	14.7		
10. Nagaland	N.A.	N.A.	N.A.	N.A.	10.7	12.9		
11. Sikkim	20.9	23.0	21.1	23.4	10.3	16.6		
12. Tripura	13.0	16.0	13.0	16.5	11.5	14.8		
13. Uttaranchal	15.2	19.3	16.0	21.8	13.0	19.0		
Union territories								
1. Andaman & Nicobar Islands	15.6	18.6	16.2	20.0	12.4	16.3		
2. Chandigarh	12.6	17.1	17.8	26.9	11.4	16.4		
3. Dadra & Nagar Haveli	27.6	33.0	28.3	34.1	17.7	22.5		
4. Daman & Diu	11.2	33.6	21.4	25.2	2.5	40.6		
5. Delhi	16.2	18.5	18.8	23.9	15.5	18.1		
6. Lakshadweep	17.0	21.1	17.7	22.6	14.6	21.3		
7. Pondicherry	15.7	19.3	16.5	19.6	14.2	20.0		

* : Excludes Nagaland (Rural) due to part-receipt of returns.

N.A : Not available due to part-receipt of returns.

Note : Ninety five percent confidence limits for birth rate, death rate and infant mortality rate have been estimated using the formulae $BR \pm 2$ S.E. (BR), $DR \pm 2$ S.E. (DR) and $IMR \pm 2$ S.E. (IMR) respectively.

Birth Rate, Death Rate and Infant Mortality Rate 2003

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
8.5	8.8	5.8	6.2	59	62	64	68	35	41	India*
										Bigger States
8.4	9.2	4.7	6.1	54	64	61	72	26	39	1. Andhra Pradesh
8.9	10.0	5.2	6.7	59	75	61	78	25	45	2. Assam
7.8	8.4	4.9	7.1	56	64	57	66	38	59	3. Bihar
7.7	8.7	5.7	6.9	52	62	59	70	27	44	4. Gujarat
6.7	7.9	5.5	6.8	51	66	52	70	40	57	5. Haryana
7.5	8.2	5.0	6.2	46	57	54	69	18	30	6. Karnataka
6.0	6.7	5.5	6.7	9	14	9	15	4	16	7. Kerala
10.1	10.8	6.4	7.9	76	88	79	93	45	65	8. Madhya Pradesh
7.8	8.5	5.1	6.1	38	46	43	52	25	39	9. Maharashtra
9.7	10.6	5.6	6.9	76	89	78	93	43	66	10. Orissa
6.9	7.8	5.3	6.7	42	56	44	61	25	44	11. Punjab
7.5	8.2	5.5	6.9	71	79	74	82	42	64	12. Rajasthan
8.2	8.9	5.1	6.1	39	47	43	53	24	38	13. Tamil Nadu
9.5	10.7	6.4	7.6	71	80	74	84	49	62	14. Uttar Pradesh
6.5	7.0	5.7	6.7	42	50	44	53	26	41	15. West Bengal
										Smaller States
										1. Arunachal Pradesh
										2. Chhatisgarh
										3. Goa
										4. Jharkhand
										5. Himachal Pradesh
										6. Jammu & Kashmir
										7. Manipur
										8. Meghalaya
										9. Mizoram
										10. Nagaland
										11. Sikkim
										12. Tripura
										13. Uttaranchal
										Union territories
										1. Andaman & Nicobar Islands
										2. Chandigarh
										3. Dadra & Nagar Haveli
										4. Daman & Diu
										5. Delhi
										6. Lakshadweep
										7. Pondicherry

Confidence limits of Death Rate and Infant Mortality Rate for smaller States and Union territories have not been presented due to the small sample size and very large variations between the Upper and Lower tolerance limits.

Table 3: Death rate by sex and residence, 2003

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*	8.0	8.4	7.5	8.7	9.1	8.2	6.0	6.4	5.4
Bigger States									
1. Andhra Pradesh	8.0	8.9	7.0	8.8	9.9	7.8	5.4	6.0	4.8
2. Assam	9.1	9.2	9.1	9.5	9.5	9.5	5.9	6.5	5.3
3. Bihar	7.9	7.6	8.2	8.1	7.8	8.4	6.0	5.8	6.2
4. Gujarat	7.6	8.3	6.9	8.2	9.0	7.4	6.3	6.8	5.8
5. Haryana	7.1	8.0	6.0	7.3	8.4	6.1	6.2	6.7	5.5
6. Karnataka	7.2	7.9	6.5	7.8	8.7	7.0	5.6	6.0	5.2
7. Kerala	6.3	7.2	5.5	6.4	7.3	5.5	6.1	6.8	5.5
8. Madhya Pradesh	9.8	10.2	9.3	10.4	10.8	9.9	7.1	7.5	6.8
9. Maharashtra	7.2	7.7	6.7	8.2	8.7	7.6	5.6	6.1	5.0
10. Orissa	9.7	10.3	9.1	10.2	10.8	9.6	6.3	7.1	5.3
11. Punjab	7.0	7.6	6.4	7.3	8.0	6.7	6.0	6.5	5.4
12. Rajasthan	7.6	8.2	6.9	7.9	8.5	7.2	6.2	6.8	5.6
13. Tamil Nadu	7.6	8.1	7.0	8.5	9.0	8.1	5.6	6.4	4.8
14. Uttar Pradesh	9.5	9.7	9.4	10.1	10.2	9.9	7.0	7.0	6.9
15. West Bengal	6.6	7.2	6.0	6.8	7.4	6.1	6.2	6.7	5.6
Smaller States									
1. Arunachal Pradesh	4.7	4.5	4.9	4.9	4.7	5.1	2.5	2.2	2.7
2. Chhatisgarh	8.5	9.1	8.0	9.5	10.1	8.9	7.1	7.6	6.5
3. Goa	8.1	8.9	7.3	8.9	10.0	7.8	7.0	7.4	6.5
4. Jharkhand	8.0	7.7	8.2	8.7	8.4	9.0	5.5	5.6	5.3
5. Himachal Pradesh	7.1	8.3	6.0	7.3	8.6	6.1	4.9	5.6	4.2
6. Jammu & Kashmir	5.7	6.6	4.8	5.9	6.7	5.0	5.3	6.1	4.3
7. Manipur	4.8	5.6	4.0	4.9	5.9	4.0	4.4	4.7	4.0
8. Meghalaya	7.4	7.5	7.2	8.1	7.9	8.2	3.4	5.0	1.8
9. Mizoram	5.1	6.8	3.4	6.2	8.4	4.1	3.6	4.8	2.5
10 Nagaland	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	2.4	3.3	1.3
11 Sikkim	5.0	5.5	4.6	5.1	5.5	4.6	4.0	5.5	2.2
12. Tripura	5.5	6.5	4.5	5.4	6.3	4.4	6.0	7.3	4.8
13. Uttaranchal	6.5	7.4	5.5	8.6	9.4	7.9	4.8	5.8	3.7
Union territories									
1. Andaman & Nicobar Islands	5.6	7.3	3.7	6.4	7.9	4.7	3.4	4.3	2.3
2. Chandigarh	3.8	3.8	3.9	3.9	4.2	3.6	3.8	3.7	3.9
3. Dadra & Nagar Haveli	6.1	7.7	4.6	6.4	8.1	4.7	3.4	3.4	3.4
4. Daman & Diu	6.6	6.6	6.6	7.3	8.7	5.8	6.0	4.6	7.3
5. Delhi	5.0	5.5	4.4	5.5	6.2	4.8	4.9	5.4	4.3
6. Lakshadweep	5.2	5.5	4.9	5.0	5.1	4.9	5.4	5.8	5.0
7. Pondicherry	6.3	7.6	5.1	7.7	9.7	5.8	5.4	6.2	4.6

* : Excludes Nagaland (Rural) due to part-receipt of returns.

N.A : Not available due to part-receipt of returns.

Note : Estimates of Death rate by sex are subject to year by year fluctuation.

Table 4 : Infant mortality rate by sex and residence, 2003

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*	60	57	64	66	63	69	38	33	44
Bigger States									
1. Andhra Pradesh	59	59	59	67	65	68	33	36	30
2. Assam	67	69	65	70	72	67	35	29	40
3. Bihar	60	59	62	62	59	65	49	59	37
4. Gujarat	57	54	61	65	63	67	36	28	44
5. Haryana	59	54	65	61	56	67	49	43	56
6. Karnataka	52	51	52	61	62	61	24	20	29
7. Kerala	11	11	12	12	12	12	10	8	12
8. Madhya Pradesh	82	77	86	86	85	87	55	32	79
9. Maharashtra	42	32	54	48	37	60	32	23	43
10. Orissa	83	82	83	86	86	85	55	50	61
11. Punjab	49	46	52	53	49	57	34	33	36
12. Rajasthan	75	70	81	78	72	86	53	58	47
13. Tamil Nadu	43	44	41	48	50	46	31	32	31
14. Uttar Pradesh	76	69	84	79	71	88	55	54	57
15. West Bengal	46	45	46	48	48	48	34	32	35
Smaller States									
1. Arunachal Pradesh	34	31	38						
2. Chhatisgarh	70	68	71						
3. Goa	16	15	18						
4. Jharkhand	51	50	52						
5. Himachal Pradesh	49	54	44						
6. Jammu & Kashmir	44	46	41						
7. Manipur	16	18	13						
8. Meghalaya	57	56	59						
9. Mizoram	16	16	17						
10. Nagaland	N.A.	N.A.	N.A.						
11. Sikkim	33	34	31						
12. Tripura	32	36	27						
13. Uttaranchal	41	31	53						
<p>Infant mortality rates for smaller States and Union territories are based on three-years period 2001-03. 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	18	12	24						
2. Chandigarh	19	21	16						
3. Dadra & Nagar Haveli	54	69	39						
4. Daman & Diu	39	43	34						
5. Delhi	28	28	29						
6. Lakshadweep	26	21	32						
7. Pondicherry	24	29	18						

* : Excludes Nagaland (Rural) due to part-receipt of returns.

N.A. : Not available due to part receipt of returns.

Note: Infant mortality rates for smaller States and Union territories are based on three-years period 2001-03. Due to inadequate sample size, rural and urban breakup of infant mortality rate is not given.

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 and mortality indicators at the national and sub-national levels. The vital rates in respect of the three newly created states of Chhatisgarh, Jharkhand and Uttaranchal are being presented since April 2002 issue of SRS bulletin. The field investigation consists of continuous enumeration of births and deaths by a resident part time enumerator, generally a teacher and an independent survey every six months by a computer supervisor. The data obtained through these operations 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 SRS was initiated by the OFFICE OF THE REGISTRAR GENERAL, INDIA on a pilot basis in a few selected states in 1964-65 and it became fully operational during 1969-70 with about 3700 sample units. Thereafter the number of sample units was periodically increased. The sample unit in rural areas is a village or a segment of it if the village had a population of 1500 or more. In urban areas the sampling unit is a census enumeration block with a population ranging from 750 to 1000. At present SRS has 6671 sample units (4436 rural and 2235 urban) in all States and Union territories. However, the vital rates provided in this Bulletin is based on 6645 sample units (4410 rural and 2235 urban) covering about 1.1 million households and 6.45 million population. Data for 1 rural in Madhya Pradesh and 25 rural units in Nagaland could not be included due to various reasons.

Number of sample units and population covered India, States and Union territories 2003

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	6645	4410	2235	6452	5064	1387
Bigger States						
1. Andhra Pradesh	310	210	100	310	243	67
2. Assam	275	200	75	252	208	44
3. Bihar	361	308	53	457	422	35
4. Gujarat	300	200	100	280	227	53
5. Haryana	180	110	70	217	165	52
6. Karnataka	375	260	115	364	289	75
7. Kerala	250	150	100	319	254	65
8. Madhya Pradesh	299	215	82	302	254	48
9. Maharashtra	375	200	175	345	241	103
10. Orissa	405	300	105	314	251	63
11. Punjab	200	120	80	178	130	48
12. Rajasthan	350	250	100	345	296	49
13. Tamil Nadu	375	200	175	355	237	118
14. Uttar Pradesh	615	428	187	671	568	103
15. West Bengal	475	300	175	485	377	109
Smaller States						
1. Arunachal Pradesh	56	50	6	48	41	7
2. Chhatisgarh	101	84	18	95	84	10
3. Goa	70	40	30	63	45	17
4. Jharkhand	139	92	47	124	99	25
5. Himachal Pradesh	190	140	50	103	75	28
6. Jammu & Kashmir	166	100	66	141	101	40
7. Manipur	150	100	50	139	102	37
8. Meghalaya	120	100	20	65	56	10
9. Mizoram	32	16	16	23	12	11
10. Nagaland	10	0	10	5	0	5
11. Sikkim	60	50	10	63	54	9
12. Tripura	75	60	15	89	80	9
13. Uttaranchal	35	22	13	31	25	6
Union territories						
1. Andaman & Nicobar Islands	45	30	15	33	23	10
2. Chandigarh	30	5	25	29	8	21
3. Dadra & Nagar Haveli	25	20	5	29	25	4
4. Daman & Diu	17	15	2	21	20	1
5. Delhi	130	10	120	107	18	89
6. Lakshadweep	10	5	5	13	9	4
7. Pondicherry	40	20	20	36	23	13

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