



HEALTH AND NUTRITION

- HE 1 Health Infrastructure and Personnel in Madhya Pradesh, 1996-97
- HE 2 Estimates of Mortality and Fertility for Madhya Pradesh, 1981 and 1991
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Mortality estimates are available for district level only from the decadal censuses. The tables present mortality and fertility related indicated from the 1981 census released by the Registrar General of India, and some indicators for 1991. The figures for Life Expectancy for 1991 has been derived by Sanket-MPHDRO Based upon the fertility tables of 1991 census on the methodology Prescribed by the Registrar General of India. While there are no direct estimates available on nutrition, the data from the public distribution system gives the state of public provisioning of food.

HE 1 Health Infrastructure and Personnel in Madhya Pradesh, 1996-97.

	District Hospital		Urban Civil Hospital		Community Health Centres (CHC)		Urban Civil Dispensary		Primary Health Centre (PHC)		Sub Health Centre (SHC)
	Units	Beds	Units	Beds	Units	Beds	Units	Beds	Units	Beds	
SHIVPURI	1	184			4	120			15	40	199
DAMOH	1	135			1	30			15	36	162
MORENA	1	208	1	58	4	136	3	0	28	46	285
BHIND	1	233			6	160	1	0	20	12	186
GUNA	1	256	1	50	5	150	1		26	66	227
UJJAIN	1	571	6	183			8		21	40	169
TIKAMGARH	1	145			3	90	1	1	20	40	156
SEHORE	1	156	1	40	4	120	1	0	18	54	150
RAIPUR			3	96	9	276	2		83	176	664
JABALPUR	1	275	3	286	3	90	11		38	98	354
RAJNANDGAON	1	125			5	150	1		32	103	276
REWA					3	90	3		36	96	270
HOSHANGABAD	1	140	3	234	5	150	0	0	25	57	204
SHAJAPUR	1	136	5	164	2	60			23	51	171
PANNA	1	132			1	30			17	34	132
SAGAR	1	316	1	50	4	126	7		34	62	245
DATIA	1	88	2	56	0		2	0	9	30	58
BALAGHAT	1	150	1	50	5	156			36	69	274
DURG	1	330	2	45	7	216	1		47	40	352
VIDISHA	1	163	1	56	0	0	0	0	24	91	143
SIDHI	1	175			8	240			42	12	287
GWALIOR			4	158	4	120	5	0	18	18	124
RAISEN	1	321	0	0	5	150	0	0	23	59	175
BHOPAL	1	210	7	325	2	30	27	0	9	12	59
BILASPUR	1	437	3	144	10	306	8	0	108	177	679
JHABUA	1	110	1	60	5	156	1		38	46	286
NARSIMHAPUR	1	184	1	36	2	60			23	33	144
BETUL	1	130	0	0	6	180	0	0	34	56	241
SEONI	1	245			4	120			32	46	222
DEWAS	1	270	2	30					27	82	180
RAJGARH	1	145	1	37	3	94	2	0	31	85	159
MANDSAUR	1	256	5	243	1	30			47	98	268
SATNA	1	220	1	38	3	90	1		47	69	258
RATLAM	1	470	3	140	2	60	1		27	49	156
SHAHDOL	1	203	1	36	7	210			58	52	372
EAST NIMAR	1	209	1	111	7	210	3		45	46	270
DHAR	1	1	209		8	246	3		53	96	303
CHHATARPUR	1	148	1	22	1	30	13	0	43	73	180
INDORE	1	100	4	242	2	66	13	0	27	46	111
RAIGARH	1	117	3	165	5	150	6	0	76	133	382
MANDLA	1	214			6	180			60	60	376
WEST NIMAR	1	262	4	342	8	240	3		88	96	459
SARGUJA	1	188	1	20	11	330	0	0	94	126	594
CHHINDWARA	1	294	1	30	6	180	1		69	67	294
BASTAR	1	252	4	210	10	326			128	168	682
MADHYA PRADESH	42	8796	287	3757	197	5954	114	0	1814	3046	11938

Source: Directorate of Health Services, GOMP, 1997, Madhya Pradesh mein Chikitsa Sansthayen.

HE 1 – Health Infrastructure and Personnel In Madhya Pradesh, 1996-97

District	Other Hospitals		PHC per lakh Rural Population	PHC Beds per lakh Rural Population	PHC per 100 sq Kms: Rural Area	Rural Population Served per SHC	Population per Health Centre
	Units	Beds					
SHIVPURI	0	0	13.8	3.69	0.46	5448	16.9
DAMOH	0	0	1.87	4.49	0.70	4952	17.8
MORENA	0	0	1.87	3.08	0.40	5245	16.2
BHIND	0	0	1.89	1.13	0.28	5696	15.6
GUNA	01	0	2.23	5.65	0.61	5145	17.3
UJJAIN	5	102	2.29	4.37	0.68	5416	13.6
TIKAMGARH	0	0	2.33	4.66	0.91	5507	16.9
SEHORE	1	40	2.37	7.11	0.88	5062	18.4
RAIPUR	4	346	2.39	5.06	1.16	5238	17.3
JABALPUR	3	0	2.41	6.21	1.11	4457	14.2
RAJNANDGAON	0	0	2.42	7.80	1.26	4786	19.6
REWA	0	0	2.44	6.50	1.61	5470	17.7
HOSHANGABAD	0	0	2.45	5.59	0.76	4994	16.7
SHAJAPUR	1	0	2.48	5.50	0.84	5421	17.7
PANNA	0	0	2.59	5.18	0.58	4969	19.2
SAGAR	3	50	2.64	4.81	0.76	5262	16.0
DATIA	0	0	2.65	8.82	1.58	5865	16.1
BALAGHAT	0	0	2.68	5.14	1.03	4899	21.3
DURG	0	0	2.76	2.35	0.52	4836	15.2
VIDISHA	0	0	2.83	10.75	1.27	5920	15.6
SIDHI	0	0	2.84	0.81	0.14	5149	20.3
GWALIOR	2	104	2.86	2.86	0.37	5074	9.8
RAISEN	0	0	2.90	7.43	0.81	4535	20.7
BHOPAL	3	346	2.95	3.93	0.50	5173	6.5
BILASPUR	0	0	3.08	5.05	1.20	5159	18.8
JHABUAA	0	0	3.09	3.74	0.72	4296	24.6
NARSIMHAPUR	0	0	3.15	4.53	0.74	5064	19.8
BETUL	0	0	3.21	4.61	0.73	4495	23.2
SEONI	0	0	3.24	9.83	1.36	4633	17.6
DEWAS	0	0	3.24	9.83	1.36	4633	17.6
RAJGARH	1	34	3.45	9.45	1.44	5657	17.8
MANDSAUR	5	0	3.61	7.52	1.12	4862	18.9
SATNA	0	0	3.62	5.32	0.97	5029	18.8
RATLAM	1	66	3.96	6.70	1.03	4690	17.6
SHAHDOL	0	0	3.75	3.39	0.39	4125	22.0
EAST NIMAR	0	0	3.91	4.00	0.69	4259	20.3
DHAR	1	35	3.94	7.13	1.18	4443	37.2
CHHATARPUR	1	125	4.12	6.99	0.88	5801	17.2
INDORE	7	105	4.45	7.58	1.42	5469	7.9
RAIGARH	0	0	4.49	7.85	1.29	4433	25.1
MANDLA	0	0	4.53	4.53	0.68	3526	30.7
WEST NIMAR	0	0	4.59	5.00	0.95	4179	24.9
SARGUJA	0	0	4.63	6.21	0.70	3417	29.7
CHHINDWARA	5	200	5.13	4.99	0.69	4571	21.3
BASTAR	2	40	5.50	7.21	0.68	3414	32.8
MADHYA PRADESH	45	1593	3.23	5.42	0.84	4709	78.2

Source: Directorate of Health Services, GOMP, 1997, Madhya Pradesh mein Chikitsa Sansthayen.

HE 1 Health Infrastructure and personnel in Madhya Pradesh, 1996-97

District	Total Health Centres per 100 sq kms	Total Beds per lakh Population	Class I	Class II	Female Multi Purpose Health Worker	Male Multi Purpose Health Worker
SHIVPURI	2.5	344	11	64	166	191
DAMOH	3.4	204	6	23	166	120
MORENA	2.8	448	16	87	245	256
BHIND	4.8	405	15	68	174	182
GUNA	2.4	522	16	89	226	220
UJJAIN	3.5	896	12	126	148	145
TIKAMGARH	4.0	275	11	39	150	150
SEHORE	2.8	410	15	67	136	121
RAIPUR	5.0	894	11	178	664	580
JABALPUR	4.4	749	8	116	323	238
RAJNANDGAON	3.8	378	11	77	306	196
REWA	5.0	186	3	70	259	269
HOSHANGABAD	3.1	581	12	72	187	170
SHAJAPUR	3.3	411	4	95	111	133
PANNA	2.5	196	5	36	127	122
SAGAR	3.5	604	20	112	240	238
DATIA	3.7	174	5	36	58	58
BALAGHAT	4.7	425	7	68	258	243
DURG	5.1	631	21	123	263	314
VIDISHA	2.3	310	7	77	113	118
SIDHI	3.8	427	4	39	221	249
GWALIOR	3.0	400	15	177	101	124
RAISEN	2.8	341	8	62	135	161
BHOPAL	4.0	923	24	91	58	58
BILASPUR	3.3	1064	31	212	571	567
JHABUAA	5.1	372	11	69	260	281
NARSIMHAPUR	3.7	366	6	56	206	185
BETUL	4.1	411	5	69	215	198
SEONI	4.1	411	5	69	215	198
DEWAS	3.4	382	10	65	155	144
RAJGARH	3.3	395	12	48	142	148
MANDSAUR	3.6	627	10	90	237	222
SATNA	4.2	417	18	91	243	198
RATLAM	3.9	785	14	69	141	139
SHAHDOL	3.2	501	18	79	204	294
EAST NIMAR	4.7	657	18	93	238	246
DHAR	7.0	378	13	95	275	164
CHHATARPUR	2.6	398	11	71	179	179
INDORE	4.7	559	19	160	127	127
RAIGARH	4.6	565	11	133	276	355
MANDLA	5.0	454	10	86	360	347
WEST NIMAR	5.5	940	21	156	385	436
SARGUJA	3.9	664	13	149	487	456
CHHINDWARA	3.8	771	13	112	241	277
BASTAR	3.3	996	16	198	630	632
MADHYA PRADESH	3.9	23146	553	4152	10555	10399

Source: Directorate of Health Services, I GOMP, 1997, Madhya Pradesh Mein Chikitsa Sansthayen.

HE 2 – Estimates of Mortality and Fertility of Madhya Pradesh, 1981 and 1991

DISTRICT	Total Fertility Rate		District level Fertility Estimates – using different Methods for 1981				
	1981: Census	1991: Census	Brass	Method Palmore Method	Funsek Palmore Method	Rele Method	Average TFR – 1981
			a	b	c	d	(Average a-d)
INDORE	4.5	3.8	4.5	4.4	4.2	4.4	4.4
UJJAIN	5.3	4.2	5.3	5.3	5.0	5.1	5.1
JHABUA	6.3	5.7	6.3	6.4	6.4	6.2	6.3
SARGUJA	4.4	4.3	4.4	4.7	4.4	4.7	4.6
BHOPAL*	5.1	4.8	5.1	4.8	4.3	4.8	4.6
GWALIOR	5.8	4.9	5.8	5.6	5.0	5.3	5.3
DEWAS	5.5	4.9	5.5	6.0	5.6	5.8	5.8
BASTAR	4.7	4.5	4.7	4.8	4.6	4.8	4.7
DHAR	5.7	5.0	5.7	6.0	6.0	6.0	6.0
DURG	4.5	4.2	4.5	5.0	4.7	4.9	4.9
BHIND	6.1	5.6	6.1	6.3	5.8	5.8	6.0
VIDISHA	6.5	5.6	6.5	6.9	6.3	6.3	6.5
BILASPUR	4.7	4.7	4.7	5.3	5.1	5.1	5.2
SIDHI	5.7	6.0	5.7	6.0	5.8	6.0	5.9
MANDSAUR	5.3	4.1	5.3	5.5	5.2	5.4	5.4
RAIGARH	3.8	4.0	3.8	4.3	4.2	4.3	4.3
MANDLA	4.5	4.1	4.5	4.9	4.8	5.0	4.9
SHAJAPUR	5.7	5.0	5.7	6.1	5.6	5.7	5.8
MORENA	6.8	6.6	6.8	6.7	6.2	6.3	6.4
CHHINDWARA	5.2	5.2	5.2	5.7	5.5	5.5	5.6
SHIVPURI	6.4	5.4	6.4	7.1	6.6	6.3	6.7
NARSIMHAPUR	5.5	4.0	5.5	6.2	5.9	5.7	5.9
JABALPUR	5.3	4.6	5.3	5.6	5.0	5.2	5.2
RAIPUR	4.7	4.3	4.7	5.0	4.9	4.9	5.0
GUNA	6.3	5.9	6.3	6.7	6.4	6.3	6.5
RAJGARH	5.7	5.2	5.7	6.0	5.6	5.6	5.7
SEHORE	6.2	5.2	6.2	6.6	6.1	6.0	6.2
WEST NIMAR	5.9	5.1	5.9	6.4	6.2	6.2	6.3
SEONI	5.0	4.3	5.0	5.6	5.5	5.4	5.5
RATLAM	5.3	4.7	5.3	5.4	5.0	5.2	5.2
EAST NIMAR	5.7	4.2	5.7	6.1	5.6	5.6	5.8
RAJNANDGAON	5.0	4.2	5.0	5.4	5.2	5.3	5.3
DATIA	6.1	5.1	6.1	5.6	6.1	6.0	6.2
PANNA	6.7	5.7	6.7	6.6	6.0	5.9	6.2
CHHATARPUR	6.8	5.6	6.8	7.2	6.8	6.4	6.8
SHAHDOL	4.9	5.0	4.9	5.4	5.1	5.3	5.3
SAGAR	6.4	5.5	6.4	6.8	6.1	6.0	6.3
HOSHANGABAD	6.0	4.7	6.0	6.2	5.5	5.5	5.8
RAISEN	6.4	6.1	6.4	6.8	6.3	6.3	6.5
BALAGHAT	7.0	6.2	7.6	7.2	6.8	6.4	6.8
TIKAMGARH	7.0	6.2	7.6	7.2	6.8	6.4	6.8
SATNA	5.9	5.5	5.9	6.2	5.7	5.6	5.8
BETUL	5.0	5.0	6.0	6.2	5.7	5.6	5.8
REWA	5.8	5.6	5.8	5.9	5.6	5.6	5.7
DAMOHO	6.2	5.1	6.2	6.7	6.1	6.0	6.3
MADHYA PRADESH	5.3	4.9	5.3	5.7	5.4	5.4	5.5

* Bhopal and Rajnandgaon were formed in 1972.

** P-Population, M-Male, F-Female, R-Rural, U-Urban

Source: 1. Census of India 1951 to 1981

2. District Level Estimates of Fertility and Child Mortality for 1991, RGI, New Delhi.

HE 2- Estimates of Mortality and Fertility for Madhya Pradesh, 1981 and 1991

	Crude Birth Rate (CBR)		Total Marital-Fertility Rate (TMFR)		General Fertility Rate (GFR)		General Marital Fertility Rate (GMFR)	
	1981	1991	1981	1991	1981	1991	1981	1991
INDORE	35.0	31.2	5.4	4.9	149	130	182	159
UJJAIN	37.2	31.4	5.9	4.9	165	138	189	161
JHABUA	42.7	39.4	7.5	6.8	190	180	233	216
SARGUJA	33.4	33.4	4.9	4.9	137	141	157	159
BHOPAL	39.6	38.6	6.3	6.2	166	159	510	206
GWALIOR	40.7	34.7	6.6	5.7	182	157	213	184
DEWAS	37.8	35.9	5.9	5.5	173	162	192	182
BASTAR	34.3	35.4	5.6	5.8	144	144	179	182
DHAR	39.4	37.4	6.5	5.8	175	164	207	192
DURG	34.4	34.9	5.2	5.4	145	141	170	172
BHIND	40.2	37.4	6.5	6.0	188	182	204	199
VIDISHA	43.4	38.2	6.9	6.1	202	181	221	203
BILASPUR	34.1	35.3	5.3	5.6	147	153	169	179
SIDHI	38.7	42.6	5.9	6.4	173	194	187	207
MANDSAUR	38.3	32.0	2.7	4.5	167	137	186	154
RAIGARH	37.2	32.1	4.8	5.2	121	130	149	158
MANDLA	33.6	34.0	5.2	5.0	142	140	169	164
SHAJAPUR	38.5	35.9	6.2	5.4	175	162	192	179
MORENA	44.6	44.1	7.3	7.1	211	211	288	229
CHHINDWARA	35.6	37.7	6.1	6.5	161	168	196	207
SHIVPURI	40.6	35.7	6.8	6.0	196	171	212	193
NARSIMHAPUR	36.9	30.0	6.1	4.8	173	137	197	158
JABALPUR	35.0	36.5	6.0	5.5	169	154	201	185
RAIPUR	34.4	34.5	5.5	5.5	146	144	174	176
GUNA	42.0	40.5	6.8	6.4	196	189	215	210
RAJGARH	39.0	37.4	6.1	5.6	175	167	190	183
SEHORE	40.8	36.0	6.6	5.8	189	172	208	192
WEST NIMAR	39.7	37.2	6.6	6.1	187	169	216	199
SEONI	35.1	33.5	5.8	5.3	157	143	186	174
RATLAM	38.2	36.1	5.9	5.4	164	153	190	178
EAST NIMAR	39.7	38.9	6.5	6.3	177	173	210	206
RAJNANDGAON	35.5	34.2	5.7	5.1	153	141	180	170
DATIA	40.0	36.0	6.4	5.6	186	168	203	186
PANNA	45.5	39.4	7.0	6.2	202	181	222	198
CHHATARPUR	42.2	36.8	7.2	6.1	204	176	221	196
SHAHDOL	35.6	38.6	5.1	5.5	152	164	165	181
SAGAR	43.2	39.2	7.0	6.3	200	184	224	211
HOSHANGABAD	0.9	33.8	6.7	5.6	185	156	215	184
RAISEN	42.6	41.1	6.9	6.7	197	196	218	219
BALAGHAT	34.3	30.8	5.2	4.9	144	127	171	156
TIKAMGARH	44.5	43.2	7.3	6.7	210	203	224	220
SATNA	41.2	40.5	6.3	6.0	18	180	197	198
BETUL	40.7	38.0	7.1	6.9	183	172	224	218
REWA	40.6	39.2	6.1	6.0	177	179	191	196
DAMOH	42.9	38.1	6.6	5.7	194	174	213	194
MADHYA PRADESH	38.0	32.8	2.9	2.7	167	161	192	188

* Bhopal and Rajnandgaon were formed in 1972.

** P-Population, M-Male, F-Female, R-Rural, U-Urban

Source: 1. Census of India 1951 to 1981

2. District Level Estimates of Fertility and Child Mortality for 1991, RGI, New Delhi.

HE 2- Estimates of Mortality and Fertility for Madhya Pradesh, 1981 and 1991

DISTRICT	Child Mortality Estimates by District – Madhya Pradesh – 1981											
	Mortality at Age 1			Mortality at Age 2			Mortality at Age 3			Mortality at Age 5		
	P	M	F	P	M	F	P	M	F	P	M	F
INDORE	84	87	82	86	88	83	91	93	90	112	109	115
UJJAIN	106	116	94	136	141	131	147	148	147	168	166	169
JHABUA	144	163	123	151	151	151	164	173	155	180	182	177
SARGUJA	115	127	104	142	151	132	147	155	139	170	174	165
BHOPAL	91	81	102	99	99	100	105	101	109	130	129	130
GWALIOR	151	155	148	150	138	163	166	147	186	191	165	220
DEWAS	134	147	120	135	135	135	165	161	170	185	180	191
BASTAR	118	131	104	130	144	117	137	143	130	163	170	155
DHAR	116	120	111	138	140	136	150	152	148	171	174	168
DURG	137	155	119	144	154	133	148	152	145	162	166	159
BHIND	129	124	135	158	143	174	193	169	221	205	174	242
VIDISHA	144	156	131	183	183	183	205	198	212	236	221	253
BILASPUR	145	159	131	150	156	143	159	167	152	183	187	178
SIDHI	161	165	157	169	177	160	178	182	173	202	204	200
MANDSAUR	138	150	126	159	166	151	164	170	158	188	191	185
RAIGARH	156	167	143	147	155	139	154	160	147	178	186	170
MANDLA	153	147	159	148	152	143	158	165	152	185	192	177
SHAJAPUR	149	150	148	185	194	175	201	193	209	232	231	232
MORENA	132	124	140	163	153	173	179	159	202	199	173	203
CHHINDWARA	138	149	127	148	156	140	162	163	161	196	200	192
SHIVPURI	179	180	177	208	198	220	211	195	229	244	218	274
NARSIMHAPUR	162	164	159	174	172	177	177	165	189	204	198	211
JABALPUR	188	209	167	174	181	167	179	182	176	207	206	209
RAIPUR	141	151	132	149	155	143	144	149	138	164	170	159
GUNA	150	146	154	181	182	179	199	193	205	221	207	237
RAJGARH	170	188	153	190	196	184	199	199	198	225	222	227
SEHORE	146	161	127	198	194	2052	203	201	205	244	231	259
WEST NIMAR	137	143	131	145	151	139	156	157	154	178	177	179
SEONI	149	170	128	151	151	150	158	157	159	181	183	178
RATLAM	143	152	134	161	163	158	166	171	160	196	194	198
EAST NIMAR	161	145	138	177	182	171	185	185	185	209	195	223
RAJNANDGAON*	159	182	134	183	197	168	183	190	176	208	205	211
DATIA	156	140	176	206	194	219	216	200	235	238	210	270
PANNA	185	190	176	204	204	204	238	232	244	270	261	280
CHHATARPUR	182	181	183	205	199	211	237	234	241	267	248	288
SHAHNOL	164	187	141	179	191	166	193	195	189	215	219	210
SAGAR	164	173	155	185	179	193	197	181	214	220	205	237
HOSHANGABAD	163	170	156	190	189	191	198	189	208	229	215	244
RAISEN	157	185	128	175	182	168	191	186	197	226	217	234
BALAGHAT	193	205	177	163	180	145	167	175	158	185	194	176
TIKAMGARH	195	201	189	213	208	219	233	225	244	275	262	289
SATNA	181	176	187	205	203	200	212	207	218	241	231	251
BETUL	158	161	155	170	177	163	177	177	176	207	206	208
REWA	173	178	168	178	179	176	192	187	197	211	200	222
DAMOH	189	197	182	202	200	205	220	213	228	243	228	258
MADHYA PRADESH	150	158	140	162	165	159	171	170	173	197	193	201

* Bhopal and Rajnandgaon were formed in 1972.

** P-Population, M-Male, F-Female, R-Rural, U-Urban

Source: 1. Census of India 1951 to 1981

2. District Level Estimates of Fertility and Child Mortality for 1991, RGI, New Delhi.

HE 2- Estimates of Mortality and Fertility for Madhya Pradesh, 1981 and 1991

DISTRICT	Child Mortality Estimates by District – Madhya Pradesh – 1991											
	Mortality at Age 1			Mortality at Age 2			Mortality at Age 3			Mortality at Age 5		
	P	M	F	P	M	F	P	M	F	P	M	F
INDORE	71	74	69	75	77	72	86	84	89	94	89	97
UJJAIN	77	79	74	133	121	146	1140	133	151	147	141	156
JHABUA	92	91	96	104	101	107	165	151	171	169	159	179
SARGUJA	92	89	95	99	101	97	104	106	102	113	115	112
BHOPAL	94	89	98	97	95	101	99	100	103	105	102	107
GWALIOR	96	100	103	111	106	113	113	108	115	119	121	126
DEWAS	97	87	102	118	109	126	125	108	133	129	116	139
BASTAR	98	95	86	112	117	106	121	124	115	129	130	123
DHAR	99	95	102	111	108	115	113	112	114	122	117	127
DURG	102	112	84	108	116	93	117	121	101	122	128	115
BHIND	105	98	113	131	106	161	144	109	174	149	108	185
VIDISHA	107	109	102	165	158	170	175	177	173	191	184	198
BILASPUR	109	116	91	114	121	99	119	126	106	123	127	118
SIDHI	111	115	106	136	133	138	146	143	150	165	167	163
MANDSAUR	111	109	112	136	135	137	140	139	142	150	147	153
RAIGARH	112	116	107	121	123	116	125	127	120	131	134	129
MANDLA	114	125	104	115	118	112	119	123	115	132	135	129
SHAJAPUR	116	113	118	139	144	132	149	147	164	168	153	184
MORENA	118	120	116	130	116	147	132	120	152	138	149	163
CHHINDWARA	119	126	116	129	133	124	136	141	132	142	145	137
SHIVPURI	120	112	139	134	158	179	181	163	201	200	172	234
NARSIMHAPUR	120	119	121	136	132	152	138	141	157	148	144	159
JABALPUR	121	126	117	134	142	128	140	147	132	147	151	145
RAIPUR	121	120	122	124	123	126	129	129	134	137	136	138
GUNA	124	113	144	174	156	195	183	161	194	195	167	198
RAJGARH	125	109	144	160	150	171	169	159	179	182	167	198
SEHORE	125	137	117	156	161	153	170	170	170	178	183	195
WEST NIMAR	126	138	124	144	142	147	153	155	152	158	160	156
SEONI	126	135	118	133	142	131	142	147	139	152	156	148
RATLAM	128	120	132	132	134	125	140	139	145	149	147	151
EAST NIMAR	129	127	131	137	138	136	141	142	144	151	147	153
RAJNANDGAON	129	134	124	139	142	133	145	149	142	150	154	145
DATIA	131	129	141	152	138	167	15	143	174	178	148	213
PANNA	132	142	129	177	188	194	191	187	201	204	201	207
CHHATARPUR	136	130	149	190	183	194	197	188	1999	199	193	227
SHAHNOL	137	144	111	145	150	138	152	162	144	160	165	154
SAGAR	138	141	132	157	159	155	165	169	162	172	176	169
HOSHANGABAD	138	138	139	155	144	167	171	167	178	179	174	183
RAISEN	141	135	159	167	170	163	171	174	167	179	181	170
BALAGHAT	141	132	147	189	151	153	159	159	159	167	164	172
TIKAMGARH	142	131	153	178	149	198	182	167	200	187	172	205
SATNA	142	139	147	186	183	191	198	194	200	203	198	207
BETUL	146	150	141	158	161	154	168	168	168	180	179	181
REWA	149	162	127	174	188	147	188	191	185	196	195	198
DAMOH	166	181	139	175	188	162	188	197	168	194	200	173
MADHYA PRADESH	133	131	136	139	134	143	143	138	149	147	142	151

* Bhopal and Rajnandgaon were formed in 1972.

** P-Population, M-Male, F-Female, R-Rural, U-Urban

Source: 1. Census of India 1951 to 1981

2. District Level Estimates of Fertility and Child Mortality for 1991, RGI, New Delhi.

HE 3 – Mortality Rates 1991

DISTRICT	Life Expectancy – All				Infant Mortality Rate – All	
	Census: 1951- 61	Census: 1961-71	Census: 1971-81	Census: 1981-91(p)	1981	1991(p)
BHOPAL			59.14	65.0	91	70
GWALIOR	44.6	47.4	51.43	64.9	133	70
INDORE	49.3	43.0	61.29	63.9	80	75
DURG	46.7	50.0	52.29	63.7	128	75
SARGUJA	44.1	46.9	52.58	63.6	126	76
BASTAR	44.7	47.6	58.13	62.1	117	83
DHAR	44.0	46.7	53.16	61.7	123	84
BILASPUR	43.0	45.6	51.43	61.0	133	87
MANDLA	42.8	45.3	51.72	60.9	131	88
RAIGHAR	43.2	46.0	51.86	60.7	130	88
DEWAS	42.5	45.0	53.60	60.2	121	90
RAIPUR	44.4	47.2	51.57	60.1	132	91
RAJNANDGAON*						
SEONI	43.1	45.7	51.29	58.5	133	98
UJJAIN	46.4	49.6	53.46	58.3	121	99
EAST NIMAR	43.2	45.9	47.67	58.1	154	100
MORENA	45.5	45.0	49.60	58.0	143	100
RATLAM	44.2	47.0	49.388	57.9	141	100
JABALPUR	43.3	45.9	48.08	57.8	151	101
BHIND	40.5	42.7	50.30	57.7	139	102
CHHINDWARA	41.5	43.8	51.72	57.4	131	103
MANDSAUR	42.2	44.7	50.16	57.1	140	104
WEST NIMAR	43.4	46.0	52.15	57.1	129	104
SHAJAPUR	38.6	40.4	46.59	56.9	160	105
SIDHI	41.2	43.5	48.77	56.8	147	105
HOSHANGABAD	41.6	44.0	45.93	56.0	164	109
SHAHDOL	39.8	41.9	47.40	55.9	155	110
NARSIMHAPUR	41.0	43.0	48.08	55.9	151	110
BALAGHT	42.7	45.3	51.29	55.9	133	110
DATIA	37.7	39.3	43.83	54.7	176	115
SAGAR	42.3	44.8	46.59	54.4	160	116
RAJGARH	39.2	46.0	45.93	53.3	164	122
SEHORE	37.4	39.0	44.84	53.2	170	122
DAMOH	37.6	39.2	44.35	53.1	173	123
RAISEN	39.2	41.1	47.95	52.8	152	124
VIDISHA	38.1	39.9	6.86	52.7	158	124
REWA	40.5	42.6	47.54	51.9	155	128
BETUL	40.8	43.0	48.63	51.9	148	128
GUNA	39.5	41.4	47.13	51.5	157	130
JHABUA	4.5	45.8	51.29	51.5	133	130
TIKAMGARH	34.7	35.8	42.93	51.0	182	132
PANNA	35.1	36.7	44.09	50.8	175	133
SATNA	37.8	39.5	43.96	48.7	175	143
CHHATARPUR	34.4	36.6	43.96	47.3	175	150
SHIVPURI	37.4	38.7	43.57	44.5	178	164
MADHYA PRADESH			49.74	57.3	142	104

Source: Census of India 1981, 1991, F Series, Madhya Pradesh, Sanket – MPHRO

* Bhopal and Rajnandgaon were created in 1981

** These estimates are provisionally calculated by the M PHDRO Office based on Fertility tables of 1991 Census.

HE 3 – Mortality Rates 1991

DISTRICT	All Male : Years : 1981-91(**)			All Female : 1981-91(**)			Rural: 1981-91(**)		
	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)
BHOPAL	72	32	64.6	69	30	65.3	129	88	51.8
GWALIOR	68	30	35.5	75	35	63.9	96	54	58.9
INDORE	66	28	66	83	42	61.9	93	50	59.8
DURG	81	39	62.5	70	31	35	91	49	60.1
SARGUJA	77	36	63.4	75	35	63.8	80	39	62.6
BASTAR	86	44	61.2	80	39	62.7	84	43	61.6
DHAR	82	40	63.2	88	466	60.8	89	47	60.5
BILASPUR	91	49	60.1	83	41	62	94	52	59.4
MANDLA	89	47	60.5	85	43	61.5	88	46	60.3
RAIGARH	92	50	59.9	85	43	61.5	91	48	60.2
DEWAS	85	43	61.6	94	54	85.8	103	61	57.3
RAIPUR	90	47	60.4	92	50	59.8	96	54	58.9
RAJNANDGAON	105	62	57	90	47	60.4	101	58	57.8
SEONI	98	55	58.5	99	56	58.3	100	58	58
UJJAIN	92	49	60	107	64	56.6	111	69	55.6
EAST NIMA	102	59	57.6	98	56	58.6	112	70	55.3
MORENA	89	47	60.5	112	69	55.54	107	64	56.5
RATLAM	105	53	56.8	95	52	59.2	120	79	53.5
JABALPUR	106	63	56.8	95	53	59.2	129	89	51.7
BHIND	83	41	62	122	80	53.3	107	65	56.4
CHHINDWARA	97	54	58.8	109	67	56	108	66	56.2
MANDSAUR	103	61	27.3	106	63	56.8	111	68	55.7
WEST NIMAR	100	57	58.1	108	66	56.2	108	66	56.2
SHAJAPUR	108	66	56.2	102	59	57.7	112	70	55.3
SIDHI	104	61	57.1	107	64	56.5	109	66	56
HOSHANGABAD	103	61	57.3	116	74	54.5	119	78	53.8
SHAHDOL	114	71	55	106	63	56.8	118	76	54.1
NARSIMHAPUR	101	58	57.9	119	77	53.9	114	71	55
BALAGHAT	108	66	56.2	111	69	55.6	114	71	55
DATIA	106	63	56.8	125	84	52.5	125	83	52.6
SAGAR	118	76	54.1	115	73	54.7	129	88	51.7
RAJGAR	84	42	61.8	130	90	51.4	128	88	51.8
SEHORE	129	88	51.8	114	72	54.9	128	87	52
DAMOH	124	83	52.8	120	79	53.6	130	90	51.4
RAISEN	127	87	52	120	78	53.7	130	90	51.4
VIDHISHA	119	77	53.9	131	91	51.3	136	97	50.2
REWA	119	77	53.8	137	98	49.9	166	94	50.7
BETUL	126	86	52.2	129	88	51.7	137	98	50
GUNA	117	75	54.2	143	1106	75.7	133	93	50.8
JHABUA	115	73	54.7	145	107	48.4	131	91	51.2
TIKAMGARH	112	70	55.4	154	119	46.5	137	98	50
PANNA	123	82	53	143	105	48.8	139	100	49.6
SATNA	136	97	50.1	150	114	47.4	154	120	46.4
CHHATARPUR	135	86	50.3	165	133	44.4	156	122	46.1
SHIVPURI	149	113	47.5	180	154	41.4	173	145	42.8
MADHYRA PRADESH	101	58	57.9	106	64	56.6	112	70	55.3

Source: Census of India 1981, 1991, F Series, Madhya Pradesh, Sanket – MPHRO.

* Bhopal and Rajnandgaon were created in 1981

** These estimates are provisionally calculated by the MPHRO Office based on Fertility tables of 1991Census

HE 3 Mortality Rates 1991

DISTRICT	Rural Male : Years : 1981-91(**)			Rural All Female :1981-91(**)			Urban: 1981-91(**)		
	Infant Mortality Rate (per 1000 live births)	Child Mortality –ages 1-5(per 1000 live births)	Life Expectancy (in years at birth)	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)
BHOPAL	138	99	49.9	118	76	54.1	54	20	68.9
GWALIOR	88	46	60.8	106	63	56.8	48	17	70.4
INDORE	86	44	61.3	99	57	58.2	64	27	66.5
DURG	99	57	58.2	82	41	62.2	40	12	72.7
SARGUJA	80	39	62.7	81	39	62.5	35	10	74.1
BASTAR	87	45	61	81	40	62.3	59	23	67.6
DHAR	85	43	61.5	94	51	59.5	51	18	69.8
BILASPUR	87	55	58.5	89	47	60.4	47	16	70.9
MANDLA	91	49	60.1	85	43	61.5	79	38	62.9
RAIGARH	94	51	59.5	89	46	60.6	50	18	69.9
DEWAS	99	56	58.3	108	65	56.3	54	20	69
RAIPUR	97	54	58.8	96	53	59	67	29	65.8
RAJNANDGAON	109	66	56	93	51	59.5	70	31	65.1
SEONI	100	57	58.2	101	59	57.7	67	29	65.8
UJJAIN	102	59	57.7	121	380	50	79	38	63
EAST NIMA	113	71	55.1	12	70	55.4	56	21	68.5
MORENA	94	51	59.4	121	79	53.5	71	32	64.8
RATLAM	123	81	5.1	119	77	53.8	48	16	70.5
JABALPUR	137	98	50.1	120	79	53.6	51	18	69.8
BHIND	88	46	60.7	130	89	51.5	74	34	64.1
CHHINDWARA	102	59	57.6	116	74	45.6	74	34	64
MANDSAUR	110	67	55.8	111	69	55.5	81	40	62.5
WEST NIMAR	105	62	57	112	69	55.5	77	36	63.4
SHAJAPUR	117	75	54.2	107	65	56.4	66	28	66
SIDHI	107	64	56.5	111	69	55.5	49	17	70.4
HOSHANGABAD	111	69	55.6	127	86	52.1	64	27	66.4
SHAHDOL	122	80	53.2	114	71	55	73	33	64.2
NARSIMHAPUR	105	63	56.8	122	81	53.2	79	39	62.8
BALAGHAT	113	71	55.1	114	72	54.9	66	28	65.9
DATIA	114	71	55	136	97	50.1	79	39	62.8
SAGAR	129	89	51.6	128	88	51.8	75	35	63.8
RAJGAR	122	80	53.2	137	98	50.1	91	49	60.1
SEHORE	133	94	50.8	122	80	5.3	90	48	60.3
DAMOH	133	93	50.9	126	87	52	72	33	64.5
RAISEN	134	95	50.6	126	85	52.4	87	45	61.1
VIDHISHA	131	81	51.3	141	104	49.1	69	30	65.2
REWA	126	85	52.4	142	104	48.9	91	49	60
BETUL	136	96	50.3	138	100	49.7	84	43	61.6
GUNA	120	78	53.7	146	109	48.2	115	73	54.7
JHABUA	115	73	54.6	147	111	47.9	114	72	54.9
TIKAMGARH	115	73	54.7	160	128	45.2	106	63	56.7
PANNA	130	89	51.5	148	111	47.8	80	39	62.8
SATNA	147	110	47.9	162	130	44.9	90	48	60.2
CHHATARPUR	141	103	49.2	171	142	43.2	119	78	53.7
SHIVPURI	154	119	46.5	190	170	39.4	106	64	56.6
MADHYA PRADESH	111	68	55.7	115	73	54.6	66	28	66

Source: Census of India 1981, 1991, F Series, Madhya Pradesh, Sanket – MPHRO.

- Bhopal and Rajnandgaon were created in 1981
- ** These estimates are provisionally calculated by the MPHRO Office based on Fertility tables of 1991

Census

HE 3 – Mortality Rates 1991

DISTRICT	Urban Male : Years : 1981-91(**)			Urban Female : 1981-91(**)		
	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)	Infant Mortality Rate (per 1000 live births)	Child Mortality – ages 1-5 (per 1000 live births)	Life Expectancy (in years at birth)
BHOPAL	53	20	69.1	54	20	69
GWALIOR	50	17	70	47	16	70.9
INDORE	55	20	68.8	73	33	64.4
DURG	37	11	73.4	43	14	71.9
SARGUJA	50	18	70	n/a	n/a	n/a
BASTAR	64	26	66.6	55	20	68.8
DHAR	60	24	57.5	42	13	72.1
BILASPUR	49	17	70.4	44	14	71.5
MANDLA	62	25	66.9	94	52	56.3
RAIGARH	50	18	69.9	50	18	69.9
DEWAS	43	14	71.9	65	27	66.3
RAIPUR	51	18	69.7	82	41	62.2
RAJNANDGAON	79	38	62.9	58	23	57.9
SEONI	84	43	61.7	52	18	69.6
UJJAIN	74	34	64.2	84	42	61.8
EAST NIMA	60	24	67.6	52	19	69.5
MORENA	66	28	65.9	76	35	63.7
RATLAM	60	24	67.5	36	10	73.8
JABALPUR	52	19	69.4	49	17	70.3
BHIND	59	23	67.6	91	48	60.2
CHHINDWARA	n/a	n/a	n/a	79	38	62.8
MANDSAUR	78	37	63.2	84	42	61.8
WEST NIMAR	60	24	67.4	92	50	59.8
SHAJAPUR	57	21	68.3	75	35	63.8
SIDHI	50	17	70.1	47	16	70.7
HOSHANGABAD	63	26	66.7	66	28	66
SHAHNOL	74	34	64	72	32	64.5
NARSIMHAPUR	63	26	66.8	96	53	59
BALAGHAT	64	27	66.5	70	31	65.1
DATIA	74	34	64	88	46	60.8
SAGAR	80	39	62.7	70	31	65
RAJGAR	82	40	62.3	102	59	57.7
SEHORE	99	56	55.4	81	40	62.5
DAMOH	71	32	64.7	73	33	64.3
RAISEN	86	44	61.2	84	45	61.1
VIDHISHA	65	27	66.2	75	35	63.8
REWA	80	39	62.7	104	62	57.1
BETUL	87	45	61.1	83	41	62
GUNA	1.3	60	75.5	128	87	52
JHABUA	109	67	56	119	77	53.9
TIKAMGARH	94	51	59.5	120	75	53.7
PANNA	77	37	63.3	83	42	61.9
SATNA	83	41	62	98	55	58.6
CHHATARPUR	108	66	56.2	129	88	51.8
SHIVPURI	108	65	56.3	105	62	57
MADHYRA PRADESH	63	26	66.8	69	30	65.2

Source: Census of India 1981, 1991, F Series, Madhya Pradesh, Sanket – MPHRO.

- Bhopal and Rajnandgaon were created in 1981
- ** These estimates are provisionally calculated by the MPHRO Office based on Fertility tables of 1991 Census

HE 4 – Public Distribution System in Madhya Pradesh – 1996

DISTRICT	Fair Price Shops (FPS)			FPS Lakh people	Number of Ration Cards		
	Total	Rural	Urban		Total	Rural	Urban
JABALPUR	1375	889	489	47.26	568227	324590	243637
INDORE	466	150	316	22.19	385528	1128800	272648
BHOPAL	353	107	246	21.19	311848	72750	239098
SATNA	785	109	76	47.37	280000	215167	64833
REWA	640	579	61	36.21	257690	219339	38351
TIKAMGARH	435	398	37	40.61	183.700	160839	22861
UJJAIN	524	373	151	34.02	289677	161243	128434
BHIND	382	338	44	27.92	165494	118920	46574
BILASHPUR	1236	1072	164	28.66	766866	647502	119364
DAMOH	428	384	44	42.54	159896	1278712	31184
SIDHI	703	684	19	42.18	287685	18907	268778
SAGAR	656	555	101	35.66	29590	222172	72418
RAIPUR	1212	1070	142	27.48	620912	501941	118971
GWALIOR	408	224	184	25.52	401360	109680	291680
DURG	608	459	149	22.48	513756	362430	151326
RAIGARH	730	691	39	38.78	292621	268370	24251
DATIA	134	115	19	29.94	79993	18513	61480
CHATARPUR	599	554	45	45.09	156872	113553	43319
BETUL	518	483	35	38.68	189657	107386	82271
EAST NIMAR	455	362	93	28.53	279166	204814	74352
BALAGHAT	444	418	26	29.79	299604	253475	26129
RATLAM	303	242	61	27.97	183797	120229	63568
SHAHDOL	848	781	67	42.59	297762	255935	41827
RAJNANDGAON	507	463	44	34.58	276526	244813	31713
NARSIMHAPUR	273	252	21	31.61	119720	100278	19442
DEWAS	366	313	53	30.68	208518	146870	61648
HOSHANGABAD	441	369	72	30.94	238903	170708	68198
SEONI	363	345	18	32.57	190051	175253	14798
MANDSAUR	515	448	67	29.79	301547	221388	80159
DHAR	459	416	43	29.52	247938	214548	33390
MANDLA	500	486	14	34.70	203249	190580	12669
SARGUJA	1014	966	48	42.90	377632	346930	30702
CHHINDWARA	530	439	91	29.93	293302	248309	44993
PANNA	320	297	23	40.68	97111	82221	14890
RAISEN	393	364	29	39.86	158063	138330	19733
WEST NIMAR	541	485	56	23.92	354000	293946	60054
RAJGARH	309	285	24	27.84	220413	188424	31989
SHAJAPUR	308	270	38	26.82	219561	180844	38717
VIDSHA	353	307	46	32.60	204545	160355	44190
JHABUA	265	240	25	19.66	197360	179042	18318
SEHORE	219	193	26	22.85	167544	130565	36979
BASTAR	869	826	43	34.44	396975	370890	26085
SHIVPURI	266	229	37	20.47	214146	184220	29926
MORENA	290	228	62	14.59	325572	267787	57785
GUNA	251	186	65	16.61	171172	131882	19290
MADHYA PRADESH	23594	20044	3550	31.53	12430549	9087527	3343022

Source: Nagrik Apurti Nigam, 1997, Madhya Pradesh.

HE 4 – Public Distribution System in Madhya Pradesh – 1996

DISTRICT	Fps per 100 Sq km		FPS per 100 Sq km			Cereals Distributed per capita (in kgs)
	Rural	Urban	Total	Rural	Urban	
JABALPUR	4.86	5.47	14.80	10.05	109.17	3.88
INDORE	2.38	5.47	13.36	4.64	123.54	1.83
BHOPAL	1.20	2.69	13.06	4.45	82.30	1.36
SATNA	6.03	5.55	10.55	9.93	25.36	1.15
REWA	6.73	7.57	10.26	9.69	22.93	0.82
TIKAMGARH	5.34	9.28	9.51	9.04	21.27	1.26
UJJAIN	5.68	4.86	8.63	6.31	98.62	1.49
BHIND	8.91	6.63	8.59	7.96	22.22	0.19
BILASHPUR	5.41	6.78	8.15	7.25	42.85	5.00
DAMOH	6.23	6.54	8.13	7.49	32.66	1.21
SIDHI	78.15	0.70	7.97	7.82	28.36	7.57
SAGAR	5.80	7.60	7.88	6.81	55.08	0.48
RAIPUR	6.93	7.83	7.82	7.06	50.65	3.33
GWALIOR	5.74	3.32	7.70	4.58	44.98	0.47
DURG	4.70	6.63	7.61	5.98	46.87	7.46
RAIGARH	6.31	7.80	7.03	6.72	38.79	7.86
DATIA	18.37	1.75	6.96	6.05	75.91	0.54
CHATARPUR	9.20	6.57	6.95	6.69	13.25	1.36
BETUL	9.92	3.33	6.85	6.43	68.03	13.66
EAST NIMAR	5.61	5.99	6.66	5.41	66.19	5.81
BALAGHAT	5.30	5.66	6.56	6.25	32.54	6.74
RATLAM	6.09	5.53	6.24	5.09	61.10	3.34
SHAHDOL	6.00	10.91	6.14	5.84	15.88	9.83
RAJNANDGAON	5.40	8.97	6.09	5.65	31.17	5.24
NARSIMHAPUR	7.27	6.92	6.00	5.61	35.44	0.87
DEWAS	5.68	5.82	5.87	5.20	25.45	1.45
HOSHANGABAD	5.97	5.96	5.76	4.94	40.63	4.23
SEONI	4.69	7.88	5.76	5.51	42.83	5.59
MANDSAUR	5.89	5.31	2.74	5.12	30.09	0.75
DHAR	6.27	6.26	5.60	5.13	50.24	5.13
MANDLA	6.96	9.10	5.59	5.49	16.30	8.09
SARGUJA	5.85	10.88	5.57	5.34	44.98	8.26
CHHINDWARA	5.41	9.49	5.37	4.53	55.77	5.40
PANNA	7.98	8.78	5.35	5.08	16.52	0.42
RAISEN	5.74	9.75	5.30	5.01	19.45	0.54
WEST NIMAR	6.53	5.72	5.30	4.79	69.29	7.16
RAJGARH	4.77	6.58	5.08	4.83	13.12	0.44
SHAJAPUR	5.13	5.72	5.01	4.46	39.75	0.28
VIDSHA	5.28	5.35	4.86	4.27	59.65	0.73
JHABUA	6.86	6.51	4.10	3.75	40.26	11.19
SEHORE	5.82	5.38	3.50	3.15	19.61	1.36
BASTAR	6.28	7.47	3.49	3.33	60.87	12.89
SHIVPURI	5.89	7.15	3.00	2.63	24.07	0.75
MORENA	5.58	8.52	2.49	1.98	36.01	0.67
GUNA	8.85	8.74	2.29	1.73	37.09	0.59
MADHYA PRADESH	6.19	5.56	6.36	5.53	44.89	4.25

Source: Nagrik Apurti Nigam, 1997, Madhya Pradesh.