



Consul, Nainital

This Compendium is dedicated to the people of the entire Indian Himalayan region, Leh (J&K) in particular an area that witnessed large scale devastation in the first week of August, 2010.

Compendium of Statistics for the States of Indian Himalayan Region



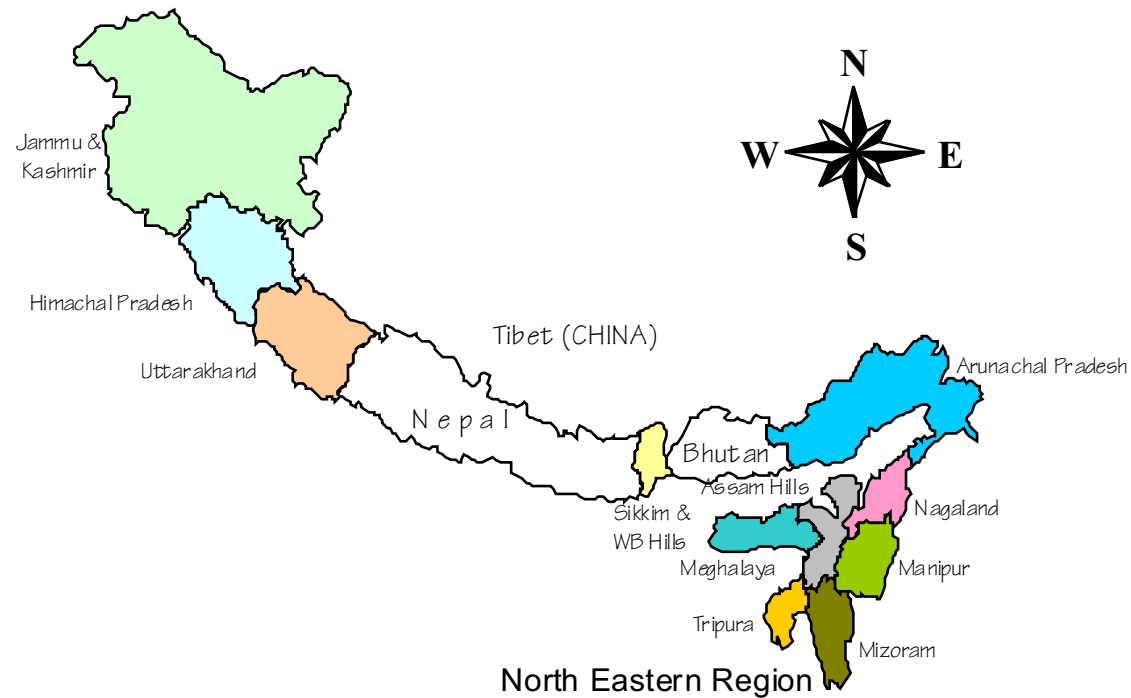
The IHR States must embark on a development path that does not disturb the primary colours of this picture: white, blue, green and brown representing the precious natural resources of the IHR, namely the snow and water, forest, and land

(Task Force Report 2010, Planning Commission of India)



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Indian Himalayan Region (IHR)



The IHR States must embark on a development path that does not disturb the primary colours of this picture: white, blue, green and brown representing the precious natural resources of the IHR, namely the snow and water, forest, and land. In addition to

the above, mountains of the IHR are also for the people who are born in these areas and continue to remain the primary stakeholders. So, providing knowledge, training and skills to these primary stakeholders and creating enabling policy environment and infrastructure for controlled harnessing of the above mentioned natural resources is imperative. In the process it is expected to generate pockets of additional colours that would represent agro-horticulture crops, animal husbandry, strengthened social infrastructure (health, education, and housing) and a reliable network of roads, railways and air connectivity.

Report of the Task Force *“To look into problems of hill states and hill areas and to suggest ways to ensure that these states and areas do not suffer in any way because of their peculiarities”*. 2010. Planning Commission, Government of India.

Requests for copies should be sent to the following, who would be also pleased to receive any information regarding the updation of data sets:

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Preamble

Need for the compendium

Data availability is a prerequisite for research, planning, administration, and overall management. In the age of fast developing digital information technology, particularly with the widespread use of internet, data generated by various organizations are available on the domain of World Wide Web. Various search engines make it an easily available resource which can be identified by providing a few key words in your search. However, frequently the required data is lost in the ocean of information (sometimes irrelevant and redundant) generated through net, and a researcher needs to devote considerable time in screening it from the vast information. Secondly, often the required & specific information has to be sieved from huge volumes of data sets kept under a broad category; researchers, particularly the beginners are, therefore, not able to easily meet the requirements from the documents available in print or electronic form. On the other hand, various government organizations publish reports, working papers, and magazines both in print and/or electronic form, and these have limited circulation.

The present compendium is a by-product of the work carried out for a Task Force of the Planning Commission, Government of India (for details see inside of front cover). The difficulty in obtaining the desired and latest data sets was frequently encountered during this task. This compendium has been designed keeping a number of objectives in view: (i) to make available first hand information (with source), in different sectors on the Indian Himalayan States, and (ii) to provide help to researchers regarding the availability and future updation of data. The latter broadens the scope, well beyond the Himalayan States of India.

The Indian Himalayan Region (IHR) in the north-eastern parts of the country includes one hill district (Darjeeling) of West Bengal and two hill districts of Assam (Karbi Analong & North Cachar hills, as identified by the Planning Commission of India). Due to non-availability of district level data in some cases,

the entire State of Assam has been included, and often the data for West Bengal have not been included in some tables.

Census 2011 currently underway, and the preliminary analysis is expected to be available after a while. For this reason readers may find it useful to consult as and when such information becomes available. Much of the census data from 2001 has not been included in this compendium. Further attempt has been made to include recent data, as far as possible, but some of the data sets may not be considered as “recent” by the readers. The inclusion of such data sets is to highlight that data on these parameters are also available, and the researchers may follow it up, for updated information, with the concerned organizations. Readers are requested and urged to give feedback, and may also indicate availability of updated information which may be available with them or provide the source so that the same can be included in electronic data base and future editions of the compendium, if any, in due course

August 2010

L.M.S. Palni and Subrat Sharma

National Data Sources

Many national organizations keep volumes of data also on the net (some freely available and downloadable); for others it may be available on request. The short description and web address(es) under various themes are –

1. Demography - Human population, household amenities related, and census based thematic maps, and BPL –

Office of the Registrar General of India
Ministry of Home Affairs (Government of India)
New Delhi
<http://censusindia.gov.in/>

For Below Poverty Line (BPL) information

Ministry of Rural Development (Government of India)
New Delhi
<http://rural.nic.in/>
<http://bpl.nic.in/>

2. Landuse Statistics

Directorate of Economics & Statistics
Ministry of Agriculture (Government of India)
New Delhi

Web based Landuse Statistics information System

<http://dacnet.nic.in/lus/>

For Wasteland Atlas

Department of Land Resources
Ministry of Rural Development (Government of India)
New Delhi
http://www.dolr.nic.in/wasteland_atlas.htm

3. Forests and Protected Areas

Forest Cover Statistics and related maps

Forest Survey of India (FSI)

Ministry of Environment & Forests (Government of India)

Dehradun

<http://www.fsi.org.in/>

Wildlife & Protected Area Network

Wildlife Institute of India

Ministry of Environment and Forests (Government of India)

Dehradun

<http://www.wii.gov.in/>

Environment & Forests

Ministry of Environment & Forests (Government of India)

New Delhi

<http://envfor.nic.in/>

4. National Survey and Mapping - Government Maps & Toposheets

Survey of India (SOI)

Department of Science & Technology (Government of India)

Dehradun

<http://www.surveyofindia.gov.in/>

5. Various Statistics – This site also provides useful information on various International Statistical Links

Ministry of Statistics and Programme Implementation (Government of India)

New Delhi

<http://mospi.nic.in/>

International Statistical Links -

http://mospi.nic.in/Mospi_New/site/inner.aspx?status=2&menu_id=18

6. Sample Surveys in the Country

National Sample Survey Organization (NSSO)

Ministry of Statistics and Programme Implementation (Government of India)

New Delhi

http://mospi.gov.in/nssso_4aug2008/web/nssso.htm

7. Statistics of the country

Central Statistics Office

Ministry of Statistics and Programme Implementation (Government of India)

New Delhi

http://www.mospi.gov.in/cso_test1.htm

8. Agriculture –

Department of Agriculture and Cooperation

Ministry of Agriculture (Government of India)

New Delhi

<http://agricoop.nic.in/>

9. Livestock

Department of Animal Husbandry, Dairying & Fisheries (DADF)

Ministry of Agriculture (Government of India)

New Delhi

<http://dahd.nic.in/>

National Fisheries Development Board

Ministry of Agriculture (Government of India)

Hyderabad

<http://nfdb.ap.nic.in/>

National Dairy Development Board

Ministry of Agriculture (Government of India)

Anand

<http://www.nddb.org/>

10. Water

Central Water Commission
Ministry of Water Resources (Government of India)
New Delhi
<http://www.cwc.nic.in>

11. Minerals & Geological Maps

Ministry of Mines (Government of India)
New Delhi
<http://mines.nic.in/>

Indian Bureau of Mines
Department of Mines
Ministry of Mines (Government of India)
Nagpur
<http://ibm.nic.in/>

Geological Survey of India
Ministry of Mines (Government of India)
Kolkata
<http://www.portal.gsi.gov.in>

12. Tourism

Ministry of Tourism (Government of India)
New Delhi
<http://www.tourism.gov.in/>

13. North Eastern States of India

Ministry of Development of North Eastern Region
(Government of India)
New Delhi
<http://mdoner.gov.in/>

14. Government of India and links to various Government Websites – NIC

<http://india.gov.in>

Geographical area of different States in the IHR and Human Population are given in the following Table:

Table 1: Human population and growth in various states of the IHR

India / State	Geographical Area (Km ²)	Human Population 2001			Per cent Decadal Growth	
		Male	Female	Total	1981-1991	1991-2001
INDIA	3,287,263	532,223,090	496,514,346	1,028,737,436	23.87	21.54
Jammu & Kashmir	222,236	5,360,926	4,782,774	10,143,700	30.89	29.43
Himachal Pradesh	55,673	3,087,940	2,989,960	6,077,900	20.79	17.54
Uttarakhand	53,483	4,325,924	4,163,425	8,489,349	23.13	20.41
Sikkim	7,096	288,484	252,367	540,851	28.47	33.06
Arunachal Pradesh	83,743	579,941	518,027	1,097,968	36.83	27.00
Nagaland	16,579	1,047,141	942,895	1,990,036	56.08	64.53
Manipur	22,327	1,161,952	1,131,944	2,293,896	29.29	24.86
Mizoram	21,081	459,109	429,464	888,573	39.70	28.82
Meghalaya	22,429	1,176,087	1,142,735	2,318,822	32.86	30.65
Tripura	10,486	1,642,225	1,556,978	3,199,203	34.30	16.03
Assam	78,438	13,777,037	12,878,491	26,655,528	24.24	18.92
Assam Hills	15,322	NA		3,313,896	NA	NA
WB Hills	3,149	NA		1,605,900	NA	NA

NA: Not Available

Notes:

1. India and Manipur figures include estimated figures for those of the three sub-divisions viz. Mao Maram, Paomata and Purul of Senapati district of Manipur as census results of 2001 in these three sub-divisions were cancelled due to technical and administrative reasons.
2. The 1991 Census could not be held owing to disturbed conditions prevailing in Jammu & Kashmir. Hence the decadal growth rates for 1991-2001 are based on the interpolated population figures of 1991 for Jammu & Kashmir.
3. The 1981 census could not be held in Assam. Hence the decadal growth rate for 1981. Hence the decadal growth rates for 1981-1991 are based on the interpolated population figures of 1981 for Assam.

Source

Human Population – *Census of India 2001, Registrar General of India, New Delhi*

Geographical Area – *State of Forest Report 2005, Forest Survey of India, Dehradun*

Table 2: Gross State Domestic Product at Current Prices

₹ in Crores)

State	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007
Jammu & Kashmir	15660	16700	18039	20326	22194	24265	NA	NA
Himachal Pradesh	14112	15661	17148	18905	20721	23024	25435	28298
Uttarakhand	12786	14703	16011	18675	20668	22765	25776	29881
Sikkim	896	1014	1136	1276	1430	1602	1003	2040
Arunachal Pradesh	1615	1806	2127	2103	2408	2788	2987	NA
Manipur	3260	3112	3369	3506	3979	5050	5714	6438
Meghalaya	3638	4049	4615	4900	5504	5980	6470	7052
Mizoram	1550	1737	1947	2166	2325	2455	2697	2985
Nagaland	2800	3552	4166	4684	5040	5346	NA	NA
Tripura	4867	5499	6370	6733	7551	8297	9124	NA
Assam	34833	36841	38313	43407	47305	52920	57543	65033

Source

Directorate of Economics & Statistics of respective State Governments

Quoted by: – Ministry of Statistics and Programme Implementation, Government of India

http://mospi.nic.in/6_gsdp_cur_9394ser.htm (visited August 13, 2010)

Table 3: Per Capita Net State Domestic Product at Current Prices
(as on 15.09.2008)

(In ₹)

State	1999-2000	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007
Jammu & Kashmir	13745	16452	17528	18630	20799	
Himachal Pradesh	20806	26627	28333	31198	33817	36656
Uttarakhand	13516	18636	20220	23069	24870	27800
Sikkim	14890	19428	21476	23791	26412	29521
Arunachal Pradesh	13990	17124	19322	22185	22335	25836
Manipur	13260	13250	14728	18386	20326	22495
Meghalaya	14359	18157	19830	21232	22847	24672
Mizoram	16443	20896	21963	22417	23900	25679
Nagaland	13819	20407	20821	20998	21083	
Tripura	14119	19059	21138	22836	25700	27777
Assam	12282	14421	15487	17013	18211	20166

Source

Statistical Pocket Book India, 2008, 46th Edition, Central Statistical Organization

1. Social Profile

List of Tables

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Table 1.1: Selected Demographic Parameters for IHR

State	Per cent contribution to the total IHR population*	Decadal Growth rate	Annual average exponential growth rate	Population density	Sex ratio	Literacy rate (+7yr)
		1991-2001	1961-2001	per km ⁻¹	females/1000 males	(%)
Jammu & Kashmir	25.41 (0.98)	30.46	2.6	99	900	54.46
Himachal Pradesh	15.34 (0.59)	17.53	1.93	109	970	75.91
Uttarakhand	21.40 (0.83)	20.27	2.16	159	964	72.28
Sikkim	1.36 (0.05)	32.98	3.01	76	875	69.68
Arunachal Pradesh	2.75 (0.11)	26.21	2.94	13	901	54.74
Meghalaya	5.82 (0.22)	29.94	2.74	103	975	63.31
Mizoram	2.25 (0.09)	29.19	3.02	42	938	88.49
Manipur	6.03 (0.23)	30.02	2.8	107	978	68.87
Nagaland	5.02 (0.19)	64.41	4.21	120	909	67.11
Tripura	8.05 (0.31)	15.74	2.57	304	950	73.66
Assam hills	2.52 (0.10)	22.74	2.56	65	915	60.68
West Bengal hills	4.05 (0.16)	23.54	2.38	510	943	72.87

* Values in parenthesis are % contribution of the respective state to the total population of the country.

Source

Census of India 2001

Table 1.2: Tribes and their Population in the IHR (2001)

States	Percentage to India's total Scheduled Tribe Population	Percentage to Total Population of State
Jammu & Kashmir	1.31	10.9.
Himachal Pradesh	0.29	4.0
Uttarakhand	0.3	3.0
Sikkim	0.13	20.6
Arunachal Pradesh	0.84	64.2
Manipur	0.88	32.3
Meghalaya	2.36	85.9
Mizoram	1.0	94.5
Nagaland	2.1	89.1
Tripura	1.18	31.1
Assam	3.9	12.4

Source

Census of India 2001

Table 1.3: State wise number (Lakh) and % of population below poverty line in some IHR States

State	1973-74		1977-78		1982-83		1987-88		1993-94		1999-2000		2004-05	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Jammu & Kashmir	20.48	40.83	21.72	38.97	15.60	24.24	16.95	23.82	20.92	25.17	3.46	3.48	5.85	5.4
Himachal Pradesh	9.73	26.39	13.04	32.45	7.41	16.40	7.52	15.45	15.88	28.44	5.12	7.63	6.36	10.0
Sikkim	1.19	50.86	1.54	55.89	1.35	39.71	1.36	36.06	1.84	41.43	2.05	36.55	1.14	20.1
Arunachal Pradesh	2.66	51.93	3.36	58.32	2.82	40.88	2.83	36.22	3.73	39.35	3.98	33.47	2.03	17.6
Meghalaya	5.52	50.20	6.79	55.19	5.62	38.81	5.48	33.92	7.38	37.92	8.23	33.87	4.52	18.5
Mizoram	1.82	50.32	2.31	54.38	1.96	36.00	1.70	27.52	1.94	25.66	1.85	19.47	1.18	12.6
Manipur	5.86	49.96	7.06	53.72	5.65	37.02	5.29	31.35	6.80	33.78	7.19	28.54	3.95	17.3
Nagaland	2.90	50.81	3.74	56.04	3.50	39.25	3.66	34.43	5.05	37.92	5.49	32.67	3.99	19.0
Tripura	8.54	51.00	10.61	56.88	8.95	40.03	8.84	35.23	11.79	39.01	9.89	34.44	6.38	18.9

Note – Poverty Ratio of Assam is used for Sikkim, Arunachal Pradesh, Meghalaya, Mizoram, Manipur, Nagaland, and Tripura. Data for Uttarakhand and hill regions of Assam and West Bengal are not available.

Source

Perspective Planning Division, Planning Commission, Government of India

Table 1.4: Human Development Index for IHR States

State/District	2001	1981		1991	
		Value	Rank	Value	Rank
Jammu & Kashmir	NA	0.337	19	0.402	21
Himachal Pradesh	0.43	0.398	10	0.469	13
Uttarakhand	NA	*	*	*	*
Sikkim	0.53	0.342	18	0.425	18
Arunachal Pradesh	0.51	0.242	31	0.328	29
Meghalaya	0.52	0.317	21	0.365	24
Mizoram	0.67	0.411	08	0.548	07
Manipur	0.59	0.461	04	0.536	09
Nagaland	0.62	0.328	20	0.486	11
Tripura	0.59	0.287	24	0.389	22
Darjeeling (WB)	0.65	-	-	-	-
Karbi Anglong (Assam)	0.49	-	-	-	-
North Cachar hills (Assam)	0.36	-	-	-	-

* Part of Uttar Pradesh

Source

National Human Development Report 2001 and State Human Development Reports, Planning Commission, Government of India

Table 1.5: Human Poverty Index for some of the IHR States

State	1981		1991	
	Value	Rank	Value	Rank
Jammu & Kashmir	46.94	16	34.19	16
Himachal Pradesh	34.05	08	26.21	08
Mizoram	47.97	18	32.20	14
Sikkim	52.76	25	34.84	17
Arunachal Pradesh	59.86	32	49.62	30
Manipur	50.82	21	41.63	21
Nagaland	49.37	19	42.07	22
Meghalaya	54.02	26	49.19	28
Tripura	51.86	22	44.89	24

Source

National Human Development Report 2001, Planning Commission, Government of India

Table 1.6: Number of Functioning Primary Health Centres, Sub-centres and Community Health Centres in the IHR (as on 31st March 2008)

State	Primary Health Centres (PHC)	Sub- Centres	Community Health Centres (CHC)	Shortfall in Health Worker at Sub-Centre
Jammu & Kashmir	375	1907	85	380
Himachal Pradesh	449	2071	73	166
Uttarakhand	239	1765	55	-
Sikkim	24	147	4	-
Arunachal Pradesh	116	592	44	375
Meghalaya	103	401	26	-
Mizoram	57	366	9	-
Manipur	72	420	16	-
Nagaland	86	397	21	-
Tripura	76	579	11	24

Source

Rural Health Bulletin, March 2008, Ministry of Health & Family Welfare, Government of India

Table 1.7: Number of Districts, DRDAs, Zila Parishad, Blocks and Villages, Inhabited & Uninhabited in the IHR States (as on 1st April, 2008)

State	Number of District covered under NREGA [#]	Number of		Total Villages*	Inhabited	Uninhabited Villages*
		DRDAs	Blocks			
Jammu & Kashmir	22	22	142	6652	6417	235
Himachal Pradesh	12	12	75	20118	17495	2623
Uttarakhand	13	13	95	16826	15761	1065
Sikkim	4	1	8	452	450	2
Arunachal Pradesh	19	16	89	4065	3863	202
Manipur	9	9	37	2275	2199	76
Meghalaya	7	7	39	6026	5782	244
Mizoram	8	8	26	817	707	110
Nagaland	11	11	52	1317	1278	39
Tripura	4	4	40	870	858	12
Assam	27	27	222	26312	25124	1188

DRDAs = District Rural Development Agencies

NREGA = National Rural Employment Guarantee Act

(*) As per Census 2001, (#) As per information from State Governments

Source

Ministry of Rural Development

Quoted by - Statistical Pocket Book India, 2008, 46th Edition, Central Statistical Organization

Table 1.8: Number of *Panchayats* and Elected representatives in the three levels of Panchayats in IHR States (as on 31st March, 2008)

States	Village Panchayats		Intermediate Panchayats		District Panchayats	
	Number	Elected Representatives	Number	Elected Representatives	Number	Elected Representatives
Jammu & Kashmir	-	-	-	-	-	-
Himachal Pradesh	3243	22654	75	1676	12	251
Uttarakhand	7227	53988	95	3152	13	360
Sikkim	163	891	*	*	95	95
Arunachal Pradesh	1639	6485	136	1639	14	136
Manipur	165	1675	*	*	4	61
Meghalaya	These states have Traditional Councils of Villages' Elders					
Mizoram						
Nagaland						
Tripura	513	5352	23	299	4	82
Assam	2223	22898	188	2148	20	390

- Not Available

* Two Tier Panchayat.

Source

Ministry of Panchayati Raj

Quoted by - Statistical Pocket Book India 2008 46th Edition, Central Statistical Organization

1. Education

List of Tables

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- 2.3 Student-Teacher Ratio in Different Categories of Educational Institutions/ Schools in the IHR
- 2.4 State-wise Primary Schools According to Number of Full Time Teachers in Position
- 2.5 State-wise Number of Full Time Teachers In Schools

Table 2.1: Literacy in the IHR

State	Percentage of Literates					
	2001 Census			2004-05		
	Total	Male	Female	Total	Male	Female
Jammu & Kashmir	56	67	43	61	70	51
Himachal Pradesh	77	85	67	72	79	65
Uttarakhand	72	83	60	64	74	55
Sikkim	69	76	60	75	80	70
Arunachal Pradesh	54	64	44	60	65	54
Manipur	71	80	61	76	82	69
Meghalaya	63	65	60	78	79	76
Mizoram	89	91	87	90	90	90
Nagaland	67	71	62	78	82	75
Tripura	73	81	65	74	79	69
Assam	63	71	55	71	76	65

Source

Census of India 2001, Registrar General, of India, New Delhi, and NSS Report no.517(61st Round), National Sample Survey Organisation

Quoted by - Statistical Pocket Book India, 2008, 46th Edition, Central Statistical Organization

Table 2.2: Educational Institutions in the IHR (2007-2008)

States	Primary/ Jr. Basic School	Upper/ Middle/ Sr. Basic School	Secondary/ High/ Higher Secondary/ Intermediate /Jr. College	Arts, Science & Commerce Colleges	Professional educational institute	University/ Deemed university/ Institute of National Importance
Jammu & Kashmir	13369	5202	1498	65	35	7
Himachal Pradesh	11517	5009	2964	110	62	5
Uttarakhand	15356	4263	2362	107	94	11
Sikkim	772	221	164	5	4	1
Arunachal Pradesh	1561	664	260	10	2	2
Meghalaya	6618	2259	774	58	4	1
Mizoram	1700	1081	581	22	1	1
Manipur	2563	769	804	58	8	2
Nagaland	1662	465	406	42	24	1
Tripura	2151	1021	713	14	8	2
Assam hills	3079	568	240	NA	NA	NA
West Bengal hills	775	53	84	NA	NA	NA

Notes - Professional Educational Institutes include Engineering, Technology & Architecture Colleges, Medical Colleges, & others (includes Law, management, MCA/IT, Agriculture, etc).

Source

1. Abstracts of Statistics of School Education, 2007-08, Department of School Education and Literacy, Ministry of Human Resource Development, Government of India. 2. Abstract of Selected Educational Statistics 2006-07, Department of Higher Education, Ministry of Human Resource Development, Government of India. 3. District Elementary Education Report Card 2007-08, National University Educational Planning and Administration, New Delhi.

Table 2.3: Student-Teacher Ratio in Different Categories of Educational Institutions/Schools in the IHR

States	Primary	Upper Primary	Secondary	Higher Secondary
Jammu & Kashmir	39	10	11	14
Himachal Pradesh	18	13	34	25
Uttarakhand	25	16	23	25
Sikkim	16	15	8	8
Arunachal Pradesh	33	24	24	25
Meghalaya	47	15	34	34
Mizoram	19	7	12	13
Manipur	33	22	27	23
Nagaland	20	15	24	31
Tripura	27	19	26	26
Assam	37	21	18	8

Source

Statistics of School Education, 2007-08, Ministry of Human Resource Development, Government of India

Table 2.4: State-wise Primary Schools According to Number of Full Time Teachers in Position

State	Area	Schools with Number of Full-time Teachers in Position							
		Zero	1	2	3	4	5	5 >	Total
Jammu & Kashmir	Rural	16	2,148	5,383	1,176	270	162	577	9,732
	Urban	0	33	243	130	58	45	225	734
	Total	16	2,181	5,626	1,306	328	207	802	10,466
Himachal Pradesh	Rural	152	1,454	5,084	1,926	964	578	558	10,616
	Urban	1	3	48	44	36	42	79	253
	Total	53	1,457	5,132	1,970	1,000	620	637	10,869
Uttarakhand	Rural	148	2,456	6,524	1,483	671	610	574	12,466
	Urban	0	49	193	163	158	436	437	1,436
	Total	148	2,505	6,717	1,646	829	1,046	1,011	13,902
Sikkim	Rural	0	14	31	58	79	83	233	498
	Urban	0	0	0	0	0	0	0	
	Total	0	14	31	58	79	83	233	498
Arunachal Pradesh	Rural	60	599	333	106	47	40	79	1,264
	Urban	0	1	1	0	6	8	58	74
	Total	60	600	334	106	53	48	137	1,338
Manipur	Rural	6	443	637	452	254	152	231	2,175
	Urban	0	35	83	79	46	33	101	377
	Total	6	478	720	531	300	185	332	2,552
Meghalaya	Rural	0	774	3,156	898	397	117	106	5,448
	Urban	1	15	100	66	45	41	101	369
	Total	1	789	3,256	964	442	158	207	5,817
Mizoram	Rural	0	100	249	285	174	74	56	938
	Urban	0	1	20	38	57	60	139	315
	Total	0	101	269	323	231	134	195	1,253
Nagaland	Rural	0	50	112	187	217	215	489	1,270
	Urban	0	0	0	1	10	19	67	97
	Total	0	50	112	188	227	234	556	1,367
Tripura	Rural	11	169	571	283	244	194	521	1,993
	Urban	0	2	2	5	4	4	41	58
	Total	11	171	573	288	248	198	562	2,051
Assam	Rural	16	5,492	11,981	5,345	2,788	1,272	1,737	28,631
	Urban	0	33	164	178	201	186	648	1,410
	Total	16	5,525	12,145	5,523	2,989	1,458	2,385	30,041

Source

<http://gov.ua.nic.in/Nscheduledata/main3.aspx?flag12> (visited August 13, 2010)

Table 2.5: State-wise Number of Full Time Teachers In Schools
(School Category: All)

State	Number of Full time Teachers in Position								
	Area	All Communities		Scheduled Castes		Scheduled Tribes		Other Backward Classes	
		Total	Female	Total	Female	Total	Female	Total	Female
Jammu & Kashmir	R	70,472	22,536	3,198	1,111	5,861	1,432	8,166	1,768
	U	28,606	18,166	651	348	499	289	2,487	1,353
	T	99,078	40,702	3,849	1,459	6,360	1,721	10,653	3,121
Himachal Pradesh	R	61,165	22,521	7,911	2,019	2,824	892	5,383	1,647
	U	9,043	6,005	411	209	123	66	321	164
	T	70,208	28,526	8,322	2,228	2,947	958	5,704	1,811
Uttraakhand	R	59,032	19,983	6,205	1,662	958	401	6,696	1,664
	U	20,690	13,184	795	408	124	98	1,580	697
	T	79,722	33,167	7,000	2,070	1,082	499	8,276	2,361
Sikkim	R	7,678	3,116	213	99	2,076	930	1,936	756
	U	426	281	16	9	93	68	125	92
	T	8,104	3,397	229	108	2,169	998	2,061	848
Arunachal Pradesh	R	7,175	1,272	163	20	2,836	520	460	51
	U	2,712	1,256	237	75	776	475	160	74
	T	9,887	2,528	400	95	3,612	995	620	125
Manipur	R	20,610	7,202	510	146	9,353	3,289	2,441	496
	U	8,952	4,664	441	198	603	353	1,478	549
	T	29,562	11,866	951	344	9,956	3,642	3,919	1,045
Meghalaya	R	21,212	8,838	686	176	18,402	8,250	605	91
	U	6,020	3,898	268	123	4,132	2,847	225	99
	T	27,232	12,736	954	299	22,534	11,097	830	190
Mizoram	R	7,537	2,040	66	17	7,418	2,010	43	9
	U	6,921	3,280	140	58	6,613	3,152	159	65
	T	14,458	5,320	206	75	14,031	5,162	202	74
Nagaland	R	13,245	4,381	753	235	10,735	3,936	600	146
	U	4,315	2,269	865	433	2,730	1,598	490	196
	T	17,560	6,650	1,618	668	13,465	5,534	1,090	342
Tripura	R	27,593	5,826	3,876	651	8,415	1,670	5,071	870
	U	5,979	2,874	526	196	338	225	764	267
	T	33,572	8,700	4,402	847	8,753	1,895	5,835	1,137
Assam	R	181,365	44,534	9,211	2,092	26,692	6,316	55,951	16,122
	U	28,400	15,767	1,500	802	2,106	1,325	5,867	3,174
	T	209,765	60,301	10,711	2,894	28,798	7,641	61,818	19,296

R=Rural, U=Urban, T=Total

Source

<http://gov.ua.nic.in/Nscheduledata/main3.aspx?flag12> (visited August 13, 2010)

3. Land

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- 3.6 Status of Wastelands in the IHR (km²)

Table 3.1: State-wise Land use classification (2005-06) – Part A

(Thousand Hectares)

State	Geographical Area	Reporting area for land utilisation statistics	Forest	No available for cultivation			Other uncultivated land excluding fallow land			
				Area put to non agricultural uses	Barren & unculturable land	Total	Permanent pastures & other grazing lands	Land under Misc. Tree crops & groves not incl. in net area sown	Culturable waste land	Total
Jammu & Kashmir	22224	3781	2023	293	289	582	125	71	141	338
Himachal Pradesh	5567	4544	1099	453	673	1126	1515	62	128	1706
Uttarakhand	5348	5670	3465	152	312	464	229	249	386	864
Sikkim	710	728	319	143	107	250	4	5	2	12
Arunachal Pradesh	8374	5547	5154		32	32		46	28	74
Manipur	2233	1950	1693	26	1	27	1	6	1	8
Meghalaya	2243	2227	942	90	137	227		158	453	611
Mizoram	2108	1951	1594	125	9	134	5	10	5	21
Nagaland	1658	1582	863	75		75		120	56	177
Tripura	1049	1049	606	131	3	134		27	1	28
Assam	7844	7850	1933	1081	1453	2533	160	209	77	445

Source

2006-2007. Ministry of Agriculture, Government of India

Table 3.2: State-wise Land use classification (2005-06) – Part B

(Thousand Hectares)

State	Fallow Land			Net area sown	Total cropped area	Area sown more than once	Cropping Intensity	Agri. Land cultivable land culturable land	Cultivated land	Un-cultivable /Un-culturable land	Un-cultivated land
	Fallow lands other than current fallows (old fallow lands)	Current fallows	Total								
Jammu & Kashmir	12	73	85	752	1090	338	144.9	1050	826	2731	2955
Himachal Pradesh	17	56	73	541	940	399	173.9	804	597	3740	3948
Sikkim	30	5	35	112	123	11	109.8	155	117	573	611
Uttarakhand	68	42	110	767	1266	499	165.1	1512	808	4158	4862
Arunachal Pradesh	64	23	87	200	267	67	133.4	361	223	5186	5324
Manipur	0	0	0	238	238		100.0	245	239	1721	1728
Meghalaya	169	66	235	212	258	46	121.9	1058	278	1169	1949
Mizoram	82	24	106	97	97		100.0	218	121	1733	1831
Nagaland	76	82	158	309	387	78	125.2	644	391	938	1191
Tripura	1	1	2	280	299	19	106.6	310	281	740	768
Assam	66	99	164	2774	3731	957	134.5	3224	2873	4626	4977

Source

2006-2007. Ministry of Agriculture, Government of India

Table 3.3: State-wise Irrigated area in the IHR (2005-06)

(Thousand Hectares)

State	Net irrigated area	Gross irrigated area	Area irrigated more than once	Net unirrigated area	Total Gross un-irrigated area
Jammu & Kashmir	311	454	143	442	636
Himachal Pradesh	105	177	72	435	763
Uttarakhand	345	559	214	422	707
Sikkim	-	-	-	-	-
Arunachal Pradesh	44	45	0	156	222
Manipur	51	51		172	172
Meghalaya	55	64	9	156	194
Mizoram	16	19	2	81	78
Nagaland	67	106	39	242	281
Tripura	61	104	43	219	194
Assam	140	161	21	2634	3570

- : Not available

Source

2006-2007. Ministry of Agriculture, Government of India

Table 3.4: Variations in the Estimates of Area under *Jhum* Cultivation in Different States of the North-Eastern parts of IHR

State	Sources and Area under Shifting Cultivation (km ²)				
	Task Force MoA, 1983		Wastelands Atlas 2000	Satapathy, 2003	NRSA, 2005
	No of Families	Area			
Arunachal Pradesh	54000	700	3088.08	2610	1613.1
Assam	58000	696	8046.75	3100	3930.9
Manipur	70000	900	12014.10	3600	4816.6
Meghalaya	52290	530	2086.77	2650	743.8
Mizoram	50000	630	3761.23	450	4017.9
Nagaland	116046	192	5224.65	6330	1917.9
Tripura	43000	223	400.88	1080	395.2
Total area under <i>Jhum</i> cultivation		3869	34622.40	19820	17435.4
% of total Geographical area		2.0	17.7	10.1	8.9

Source

Report of the Task Force on Mountain Ecosystems [Environment and Forest Sector] for Eleventh Five year Plan. Planning Commission, Govt. of India. 2006

Table 3.5: The Administrative Classes and Ownership Regimes of Forests areas under *Jhum* Agriculture in Various States of the North Eastern parts of IHR

State	Administrative classes of forests where <i>Jhum</i> is practiced	Ownership and Control	Area	
			(km ²)	% of total
Arunachal Pradesh	Unclassed State Forests (USF)*	State Forest Department	32039	23
Assam	USF	District Council	5713	7.3
Mizoram	USF (with permission of Village Council)	State Forest Department/ Village Councils	5240	25
Manipur	USF	State Forest Department	11288	50.5
Meghalaya	USF	Traditional Durbars, District councils	7146	32
Nagaland	USF	Village Councils	7813	47
Tripura	USF	State Forest Department	2195	21

Source

Report of the Task Force on Mountain Ecosystems [Environment and Forest Sector] for Eleventh Five year Plan. Planning Commission, Govt. of India. 2006

* Unclassed State Forests (USF): The USFs are loosely under the dual control of the Revenue and Forest Departments, the former being responsible only for issuing Land Possession Certificates (LPC). These are claimed variously as private, clan and communal property and have been traditionally under the control of the community. Though termed as forest and even included in the statistics, the USF areas are not under the control of the Forest Department as the land does not vest with the state. No survey and demarcation has been conducted in these areas as no well defined land statute exists there.

Details of Categories –

1. Gullied and /or ravinous land(Shallow), 2. Gullied and /or ravinous land(Medium), 3. Gullied and /or ravinous land(Deep), 4. Land with scrub, 5. Land without scrub, 6. Waterlogged and Marshy land (Permanent), 7. Waterlogged and Marshy land (Seasonal), 8. Land affected by salinity /alkalinity (Strong), 9. Land affected by salinity /alkalinity (Moderate), 10. Land affected by salinity /alkalinity (Slight),11. Shifting cultivation area (Abandoned *Jhum*), 12. Shifting cultivation area (Current *Jhum*), 13. Under utilised /degraded notified forest land, 14. Under utilised /degraded notified forest land (Agri.), 15. Degraded pastures/grazing land, 16. Degraded land under plantation crop, 17. Sands-(Flood Plain), 18. Sands-(Levees), 19. Sands-(Coastal sand), 20. Sands-(Semi Stab-Stab>40m), 21. Sands-(Semi Stab-Stab Moder, High 15-40m), 22. Sands-(Semi Stab to Stablow <15m), 23. Sands-(Closely Spaced Inter –Dune Area), 24. Mining Wastelands, 25.Industrial wastelands, 26. Barren Rocky/Stone Waste/Sheet Rock Area, 27. Steep Sloping Area, 28. Snow covered and/or Glacial Area

Note – Values for State of Uttarakhand could not be incorporated due to omission of Total Figures in the Report but wasteland estimation for the state has been done.

Source

Wastelands Atlas of India 2005, Department of Land Resources, Ministry of Rural Development, Government of India.

Compendium of Statistics for the States of Indian Himalayan Region

Indian Himalayan Region (IHR) -

The administrative region of Indian Himalaya is spread over the mountainous states of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh, Manipur, Mizoram, Meghalaya, Nagaland, and Tripura. One hill district of West Bengal and two hill districts of Assam also form part of the Indian Himalayan region (IHR,; see inside Front Cover for details).

North-eastern region of the country includes (for administrative purposes) entire states of Arunachal Pradesh, Assam, Manipur, Mizoram, Meghalaya, Nagaland, Tripura, and Sikkim.

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Acknowledgements -

Quote on the Front Cover:

Report of the Task Force *“To look into problems of hill states and hill areas and to suggest ways to ensure that these states and areas do not suffer in any way because of their peculiarities”*. 2010. Planning Commission, Government of India

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4. Water

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- 4.10 Sources of Drinking Water in the Rural Areas in various States of the IHR (per cent of total rural households)

Table 4.1: Important Glaciers in the IHR

Location	Glacier	Length (km)
Karakoram Range	Siachin	72
	Hispar	62
	Baifo	69
	Batura	59
Jammu & Kashmir	Kolahai	6
	Machai	8
	Shishram	6
	Liddar	5
Himachal Pradesh	Bara Shigri	30
	Chhota Shigri	9
	Sara Umga	17
	Parvati	8
	Samudra Tapu	9
Uttarakhand	North Nanda Devi	19
	South Nanda Devi	19
	Trishul	15
	Gangotri	30
	Dokriani	5
	Chorabari	7
	Gantotri	19
	Chowkhamba	12
	Satopanth	13
	Pindari	8
	Milam	19
Sikkim	Zemu	26
	Kchangchendzonga	16

Source

Report of the Task Force on Mountain Ecosystems Environment and Forest Sector for Eleventh Five year Plan. Planning Commission, Govt. of India, 2006

Table 4.2: Rate of Recession of selected Glaciers in the IHR

Name of Glacier	Period of Measuring	Period (in years)	Recession (in m)	Average rate (m/yr)
Milam glacier	1849-1957	108	1350	12.50
Pindari glacier	1845-1966	121	2840	23.40
Gangotri glacier	1962-1991	29	580	20.00
Tipra glacier	1960-1986	26	325	12.50
Dokriani glacier	1962-1991	29	480	16.5
Dokriani glacier	1991-2000	09	161.15	18.0
Chorabari	1962-2005	41	238	5.8
Shankulpa	1881-1957	76	518	6.8
Poting	1906-1957	51	262	5.13
Glacier no-3 Arwa	1932-1956	24	198	8.25
Bara Shigri	1956-1963	07	219	31.28
Chhota Shigri	1987-1989	03	54	18.5
Sonapani	1909-1961	52	899	17.2
Kolai	1912-1961	49	800	16.3
Zemu	1977-1984	07	193	27.5

Source

Report of the Task Force on Mountain Ecosystems Environment and Forest Sector for Eleventh Five year Plan. Planning Commission, Govt. of India, 2006

Table 4.3: Principal Glacier-fed River Systems of the Himalaya

River	Mountain Area (km ²)	Glacier Area (km ²)
Indus	268842	7890
Jhelum	33670	170
Chenab	27195	2944
Ravi	8092	206
Sutlej	47915	1295
Beas	12504	638
Jamuna	11655	125
Ganga	23051	2312
Kali	16317	997
Karnali	53354	1543
Gandak	37814	1845
Kosi	61901	1281
Tista	12432	495
Raikad	26418	195
Manas	31080	528
Subansiri	81130	725
Brahmaputra	256928	108
Dibang	12950	90
Lohit	20720	425

Source

Glacier Atlas of India, 2008

Table 4.4: Water Resources in different States of the IHR

State	Water bodies (lakh hectare)	Total Replenishable ground water (Mcm/yr)
Jammu & Kashmir	0.30	4425.84
Himachal Pradesh	0.43	365.81
Uttarakhand	0.20	-
Sikkim	0.03	-
Arunachal Pradesh	0.04	1438.50
Meghalaya	0.10	539.66
Mizoram	0.02	-
Manipur	0.46	3154.00
Nagaland	0.67	724.00
Tripura	0.17	663.41

Mcm = Million Cubic Meters. 1 million is 10 lakhs

Source

Ground Water Statistics 1996, Central Ground Water Board

Table 4.5: Ground Water Potential in different States of the IHR (2003)
(BCM per year)

State	Total Replenish-able Ground Water Resource	Provision For Domestic Industrial and other Uses	Available Ground Water Resources for Irrigation	Net Draft	Balance Ground Water Potential Available for Exploitation	Level of Ground Water Development (%)
Jammu & Kashmir	4.43	0.66	3.76	0.03	3.73	0.81
Himachal Pradesh	0.37	0.07	0.29	0.03	0.26	10.72
Uttarakhand	2.7	0.41	2.29	0.82	1.47	35.78
Sikkim	0.07	0.01	0.06	0	0.06	0
Arunachal Pradesh	1.44	0.22	1.22	0	1.22	0
Manipur	3.15	0.47	2.68	0	2.68	0
Meghalaya	0.54	0.08	0.46	0.02	0.44	3.97
Mizoram	1.4	0.21	1.19	0	1.19	0
Nagaland	0.72	0.11	0.62	0	0.62	0
Tripura	0.66	0.1	0.56	0.19	0.38	33.43

Bcm = Billion Cubic Meters

Source

Ground Water Statistics, 2003. Central Ground Water Board. (as on 31.03.2003).

Table 4.6: Ground Water Potential in the IHR States (1996)
(Unit : Bcm Per Year)

Name of the State	Total Replenishable Ground Water Resources	Available Ground Water Resource for Irrigation	Net Draft
Jammu & Kashmir	4.43	3.76	0.05
Himachal Pradesh	0.37	0.29	0.05
Uttarakhnad	0.00	0.00	0.00
Sikkim	Neg	Neg	Neg
Arunachal Pradesh	1.44	1.22	0.00
Manipur	3.15	2.68	neg
Meghalaya	0.54	0.46	0.02
Mizoram	Neg	Neg	Neg
Nagaland	0.72	0.62	Neg
Tripura	0.66	0.56	0.19
Assam	24.72	21.01	0.94

Neg. = Negligible; Bcm = Billion Cubic Meters

Note : Totals may not tally due to rounding off

Source

Ground Water Statistics, 1996. Central Ground Water Board.

Quoted by - Water Data 2005, Central Water Commission, Government of India

Table 4.7: Status of Hydropower Potential Development in the IHR
(Installed capacity)

State	Identified Capacity	Capacity Developed		Capacity Under construction		Capacity Developed & Under Construction		Capacity yet to be developed	
	(MW)	(MW)	(%)	(MW)	(%)	(MW)	(%)	(MW)	(%)
Jammu & Kashmir	14146	1864.2	13.18	899.0	6.36	2763.2	19.53	11382.9	80.47
Himachal Pradesh	18820	6085.5	32.34	4435.0	23.57	10520.5	55.90	8299.6	44.10
Uttarakhand	18175	2980.1	16.40	1926.0	10.60	4906.1	26.99	13269.0	73.01
Sikkim	4286	254	1.96	2139.0	53.87	2393.0	55.83	893.0	44.17
Arunachal Pradesh	50328	423.5	0.84	2600.0	5.17	3023.5	6.01	47304.5	93.99
Meghalaya	2394	185.2	7.74	84.0	3.51	269.2	11.24	2124.8	88.76
Mizoram	2196	0.0	0.00	0.0	0.00	0.0	0.00	2196.0	100.00
Manipur	1784	105.0	5.89	0.0	0.00	105.0	5.89	1679.0	94.11
Nagaland	1574	99.0	6.29	0.0	0.00	99.0	6.29	1475.0	93.71
Tripura	15	15.0	100.00	0.00	0.00	105.0	5.89	1679.0	94.11
Assam	680	375.0	55.15	0.0	0.00	375.0	55.15	305.0	44.85

Source

Central Electricity Authority, 2008

Table 4.8: State-wise Categorisation of Blocks/ Talukas/ Watersheds/Mandals as over exploited and dark in the IHR

State	Number of Districts	No. of Blocks/ Talukas/ Watersheds/ Mandals	Number of Blocks		
			Over exploited Nos.	Dark Nos.	Others Nos.
Arunachal Pradesh	3	59	0	0	59
Assam	23	219	0	0	219
Himachal Pradesh	12	69	0	0	69
Jammu & Kashmir	14	69	0	0	69
Manipur	6	29	0	0	29
Meghalaya	5	39	0	0	39
Mizoram	3	12	0	0	12
Nagaland	7	52	0	0	52
Sikkim	4	4	0	0	4
Uttar Pradesh/Uttarakhand	58	819	2	20	797
West Bengal	16	275	0	61	214

Source

Ground Water Statistics, 2003 (Central Ground Water Board)

Table 4.9: State-wise details of Inland Fishery Water Resources of various types in the IHR

Unit : Lakh Hectares

State	Rivers & Canals (Length in km)	Reservoirs	Tanks & Ponds	Floodplain Lakes & Derelict Water
Jammu & Kashmir	27781	0.07	0.17	0.06
Himachal Pradesh	3000	0.42	0.01	-
Uttarakhand	2686	0.20	0.01	0.00
Sikkim	900	1.20	-	0.03
Arunachal Pradesh	2000	-	2.76	2.00
Assam	4820	0.02	0.23	1.10
Manipur	3360	0.01	0.05	0.04
Meghalaya	5600	0.08	0.02	Neg
Mizoram	1395	-	0.02	-
Nagaland	1600	-	-	0.03
Tripura	1200	0.05	0.13	-

Neg = Negligible

Source

Annual Report 2005-06, Department of Animal Husbandry and Dairying. Ministry of Agriculture, Government of India

Table 4.10: Sources of Drinking Water in the Rural areas in various States of the IHR
(per cent of total rural households)

Region/State	Tap	Hand Pump	Tube well	Well	Tank, Pond, Lake	River, Canal	Spring	Other
Jammu & Kashmir	40.7	12.8	1.4	7.1	1.5	17.3	7.4	11.8
Himachal Pradesh	82.9	4.2	0.5	5.3	0.9	0.7	1.8	3.8
Uttarakhand	60.5	21.4	1.1	1.6	1.6	2.4	2.8	8.7
Sikkim	66.5	0.3	0.2	0.2	1.1	1.3	28.6	1.9
Arunachal Pradesh	63.3	7.8	2.6	4.9	1.3	9.6	7.6	2.9
Nagaland	44.3	1.6	1.7	32.6	10.6	2.4	5.6	1.4
Mizoram	19.3	1.5	3	1.8	4.6	18.1	47.4	4.3
Manipur	20.6	7.1	1.7	7.4	28.4	20.1	13.4	1.4
Tripura	18.1	13.9	13	44.8	1.8	3.6	3.1	1.8
Meghalaya	24.4	2.2	2.8	31.7	6.5	5.2	25.1	2.1

Source

Census of India, 2001

5. Agriculture

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Table 5.1: State-wise yield of Foodgrains, Crops and Pulses (2007-08)

Yield Kg/Hectare

State	Foodgrains			Crops		Total Pulses
	Kharif	Rabi	Total	Rice	Wheat	
Jammu & Kashmir	1710	1713	1711	2133	1782	508
Himachal Pradesh	2448	1377	1918	1546	1376	1062
Uttarakhand	1633	1969	1785	2052	2050	794
Sikkim	1451	940	1378	1636	1000	928
Arunachal Pradesh	1234	1348	1241	1275	1472	1078
Manipur	2348	-	2297	2446	-	497
Meghalaya	1556	3463	1774	1880	1833	825
Mizoram	263	1286	285	288	-	529
Nagaland	1589	1188	1567	1685	1067	1189
Tripura	2549	2599	2563	2633	1900	691
Assam	1283	1774	1378	1428	1268	558

- Not Available

Source
Agricultural Statistics at a Glance 2009. Ministry of Agriculture, Government of India

Table 5.2: Contribution of Some of the IHR States to National Agricultural Production (2005-2006)

Crop	State	All India Ranking	% of Total		Average Yield (kg/ha)	
			Area	Production	State	National
Food Grains	Uttarakhand	17	0.85	0.76	1548	1715
Coarse Cereals	Himachal Pradesh	11	1.14	1.67	1715	1172
	Jammu & Kashmir	12	1.20	1.38	1344	
	Uttarakhand	14	0.93	0.94	1188	
Wheat	Himachal Pradesh	10	1.36	0.98	1894	2619
	Uttarakhand	11	1.51	0.94	1633	
	Jammu & Kashmir	12	0.94	0.63	1790	
Potato	Himachal Pradesh	11	1.00	0.40	6850	17058
	Tripura	12	0.38	0.39	17642	
Maize	Himachal Pradesh	9	3.95	3.67	1839	1938
	Jammu & Kashmir	10	4.22	3.06	1413	
Sugarcane	Uttarakhand	8	2.38	2.18	60733	66928

Source

Statistical Abstracts, India 2007, Central Statistical Organization, New Delhi

Table 5.3: Foodgrain – Production and Yield in some states of IHR
(2002-03 and 2003-2004)

State	2002-03			2003-2004 (Prerevised)		
	Area 000 Ha	Production 000 Tonnes	Yield Kg/Ha	Area 000 Ha	Production 000 Tonnes	Yield Kg/ Ha
Jammu & Kashmir	877	1322	1508	902	1375	1524
Himachal Pradesh	813	1123	1381	807	1399	1733
Uttarakhand	1034	1559	1508	1031	1724	1672
Sikkim	72	97	1334	72	100	1395
Arunachal Pradesh	198	242	1226	192	245	1276
Manipur	155	344	2217	168	383	2282
Meghalaya	135	227	1686	135	234	1733
Mizoram	69	129	1866	75	138	1849
Assam	2749	3894	1417	2742	4036	1472
Nagaland	248	388	1565	233	312	1341
West Bengal	6839	15522	2374	6597	15980	2422

Source

Directorate of Economics & Statistics, Ministry of Agriculture. Government of India

Table 5.4: Region-specific Factors responsible for Low Productivity of Agriculture in the IHR (11th Five Year Plan, 2007-12)

Agro-climatic Region	States	Region-specific Constraints
Western Himalayan Region-I	Jammu & Kashmir, Himachal Pradesh, Uttarakhand	Severe soil erosion, degradation due to heavy rainfall/floods and deforestation, poor road, poor input delivery, inadequate communication infrastructure and marketing
Eastern Himalayan Region-II	NE States, Sikkim, Assam	Aluminium toxicity and soil acidity, soil erosion and floods, shifting cultivation, non-availability of electricity, poor road, poor input delivery system and communication infrastructure

Source

Working Group on Agro-Climatic Zonal Planning. Planning Commission of India

Table 5.5: Response of Technology Mission Programme for Himalayan States

Category	Additional area brought under horticulture (ha)	
	North-Eastern Region	Western Himalayan Region
Fruits	54973	18925
Vegetables	20979	4658
Spices	26950	898
Plantation crops	5252	-
Medicinal plants	1652	170
Aromatic plants	4027	135
Flowers	4039	537

Source

Ministry of Agriculture, 2006-07

Table 5.6: Gross Irrigated Area (2006-07) in Various IHR States

State	Gross Irrigated Area (%)
Jammu & Kashmir	41.4
Himachal Pradesh	18.8
Sikkim	8.2
Meghalaya	24.9
Tripura	35.0
Mizoram	19.0
Manipur	23.0
Nagaland	27.4
Arunachal Pradesh	16.7

Source

Calculated from Agriculture Census Division, Ministry of Agriculture, Government of India

Table 5.7: State-wise Per cent Coverage of Irrigated Area under Principal Crops (2005-06, Provisional)

State/Union Territory	Rice	Bajra	Maize	Wheat	Barley	Total Cereals	Total Pulses	Total Food grains	Total Oil Seeds	Sugar cane	Total area under all crops
Arunachal Pradesh*	36.5	-	-	-	-	23.3	-	22.4	-	-	16.7
Assam**	4.6	-	-	4.7	-	4.5	-	4.3	2.5	16.7	4.3
Himachal Pradesh**	61.0	9.6	8.0	19.5	14.5	19.0	13.8	18.8	18.4	49.3	18.8
Jammu & Kashmir**	90.9	0.5	8.0	28.2	3.7	39.7	14.8	38.9	68.4	71.4	41.6
Manipur	30.7	-	-	-	-	30.2	-	28.8	-	-	23.0
Meghalaya	39.0	-	-	39.7	-	32.9	-	32.0	29.3	-	24.9
Mizoram	29.0	-	-	-	-	24.0	-	21.8	42.0	-	19.4
Nagaland	36.2	-	-	100.0	-	29.3	-	25.7	51.4	-	27.4
Sikkim**	62.5	-	-	-	-	13.9	-	12.7	-	-	8.2
Tripura**	41.5	-	-	-	-	41.0	-	39.5	-	-	35.0
Uttarakhand**	64.9	-	1.6	52.3	2.2	41.7	6.2	39.6	27.6	97.2	44.2

** The figures related to irrigated area (Part-II) are either estimated based on the data for the the latest available year received from the State/UT or are estimated/taken from Agriculture Census.

Source

Ministry of Agriculture, Government of India

Table 5.8: State-wise Achievements Under Accelerated Irrigation Benefit Programme (AIBP) in some states of IHR (As on 15.04.07)

Name of the State	CLA Released (₹)		Ultimate Irrigation Potential (000 Ha)	Potential Created	
	Normal (Crore)	Fast Track (Crore)		Normal (000 Ha)	Fast Track (000 Ha)
Jammu & Kashmir	155.298		69.211	14.971	
Himachal Pradesh	101.183		33.149	2.664	
U.P. / Uttranchal	2176.208	84.050	4472.919	877.598	21.560
Manipur	321.626		55.945	0.00	
Meghalaya	4.00		4.775	0.00	
Tripura	50.760		26.720	7.049	
Assam	110.79		234.376	75.661	

Source

Central Water Commission (PMO)

Quoted by – Water Sector at a Glance, 2007, Central Water Commission, Government of India

Table 5.9: States and Blocks in the Western Himalayan region covered Under Drought Prone Area Programme (DPAP) and Desert Development Programme (DDP, As on April 2003)

State	No of Districts		No of Blocks		Area in sq. kms	
	DPAP	DDP	DPAP	DDP	DPAP	DDP
Himachal Pradesh	3	2	10	3	3319	35107
Jammu & Kashmir	2	2	22	12	14705	96701
Uttarakhand	7	-	30	-	15796	-

Source

Ministry of Rural Development, Government of India

Table 5.10: Operational Holdings (2001): Less than 2 ha in Various IHR States

Region / State	Per cent of Total
<i>Jhum States</i>	
Meghalaya	80.3
Tripura	89.0
Manipur	83.2
Nagaland	09.8
Mizoram	81.5
<i>Non-Jhum States</i>	
Jammu & Kashmir	93.8
Himachal Pradesh	86.3
Sikkim	78.4
Uttarakhand	88.2

Source

Agriculture Census Division, Ministry of Agriculture, Government of India
 Quoted by - Report of the Task Force "To look into problems of hill states and hill areas and to suggest ways to ensure that these states and areas do not suffer in any way because of their peculiarities". 2010. Planning Commission, Government of India

Table 5.11: State-wise Area Operated by Major Size-Groups, 2000-01
(’000 Hectares)

State	Marginal	Small	Semi-Medium	Medium	Large	All Holdings
Jammu & Kashmir	429	250	202	69	12	962
Himachal Pradesh	252	245	243	176	63	979
Uttarakhand	243	221	212	132	36	843
Sikkim	12	17	21	20	12	80
Arunachal Pradesh	7	27	97	171	92	394
Manipur	40	63	55	14	Neg	172
Meghalaya	63	83	91	36	5	278
Mizoram	22	36	29	6	1	93
Nagaland	2	11	72	420	543	1047
Assam	607	718	1001	525	264	3115
West Bengal	2759	1607	784	178	219	5547

Neg : Negligible

Source

Agricultural Census Division, Ministry of Agriculture, Government of India

Table 5.12: State-wise Number of Operational Holdings by Major Size- Groups, 2000-01*
('000 Number)

State/UT	Marginal	Small	Semi-Medium	Medium	Large	All Holding
Jammu & Kashmir	1175	179	76	13	1	1443
Himachal Pradesh	615	174	90	31	4	914
Uttaranchal	628	158	78	24	1	891
Sikkim	28	12	8	3	1	51
Arunachal Pradesh	15	20	36	30	6	107
Manipur	75	49	22	3	Neg	149
Meghalaya	115	57	35	7	Neg	214
Mizoram	34	28	13	1	Neg	76
Nagaland	5	9	28	68	34	144
Assam	1537	572	386	103	5	2603
West Bengal	5462	1009	283	35	1	6790

Neg : Negligible; * includes institutional holdings also.

Source

Agricultural Census Division, Ministry of Agriculture, Government of India

Table 5.13: State-wise Number of Operational Holdings by Major Size- Groups, 2000-01 (Hectares)

State	Marginal	Small	Semi-Medium	Medium	Large	All Holdings
Jammu & Kashmir	0.37	1.40	2.66	5.39	21.13	0.67
Himachal Pradesh	0.41	1.40	2.71	5.69	15.91	1.07
Uttarakhand	0.39	1.39	2.71	5.47	25.07	0.95
Sikkim	0.43	1.40	2.74	5.79	20.81	1.57
Arunachal Pradesh	0.50	1.32	2.66	5.77	16.13	3.69
Manipur	0.53	1.29	2.47	4.86	11.38	1.15
Meghalaya	0.55	1.45	2.58	5.41	13.12	1.30
Mizoram	0.64	1.28	2.33	4.77	13.14	1.24
Nagaland	0.52	1.19	2.55	6.20	15.83	7.28
Assam	0.39	1.26	2.59	5.09	52.97	1.20
West Bengal	0.51	1.59	2.77	5.12	278.95	0.82

Source

Agricultural Census Division, Ministry of Agriculture, Government of India

Table 5.14: State-wise Area under Fruits and Vegetables as per land use ('000/Hectares)

State	1990-91	2005-06(P)	2006-07(P)
Jammu & Kashmir	60	76	84
Himachal Pradesh	73	102	101
Uttarakhand	-	51	54
Sikkim	7	8	8
Arunachal Pradesh	33	25	28
Manipur	24	34	34
Meghalaya	57	72	79
Mizoram	9	4	5
Nagaland	9	29	24
Tripura	84	11	12
Assam	209	279	288

P = Provisional; - Not Available

Source

Agricultural Statistics at a Glance 2009, Ministry of Agriculture, Government of India

Table 5.15: State-wise Estimated Consumption of Fertilizer

000 tonnes

State	2006-07				2007-08				2008-09			
	N	P	K	Total	N	P	K	Total	N	P	K	Total
Jammu & Kashmir	55.49	23.73	6.81	86.03	56.33	17.16	4.75	78.24	68.78	27.87	8.45	105.10
Himachal Pradesh	30.79	10.22	7.97	48.98	32.34	8.91	8.71	49.96	35.46	10.71	11.20	57.37
Uttarakhand	108.51	25.61	9.02	143.14	115.44	24.75	10.29	150.48	110.52	29.78	12.53	152.83
Sikkim	0.21	0.11	0.03	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arunachal Pradesh	0.45	0.19	0.09	0.73	0.45	0.19	0.09	0.73	0.51	0.21	0.09	0.81
Mizoram	1.60	1.38	0.72	3.70	1.91	1.06	0.90	3.87	2.11	1.19	1.05	4.35
Meghalaya	2.95	1.94	0.24	5.13	2.54	1.21	0.33	4.08	2.60	0.69	0.4	3.69
Tripura	10.19	3.85	2.50	16.54	7.54	2.60	2.19	12.33	7.54	3.55	2.78	13.87
Manipur	14.18	3.59	1.30	19.07	14.35	3.36	1.30	19.01	9.44	1.95	1.48	12.87
Nagaland	0.32	0.24	0.08	0.64	0.47	0.25	0.12	0.84	0.47	0.32	0.12	0.91
Assam	102.61	51.08	49.99	203.68	103.35	54.61	55.98	213.94	115.21	48.24	57.16	220.61

Source

INM Division, Ministry of Agriculture, Government of India

Table 5.16: State-wise Estimated Consumption of Fertilizer (per Hectare)

Kg per ha

State	2006-07				2007-08				2008-09			
	N	P	K	Total	N	P	K	Total	N	P	K	Total
Jammu & Kashmir	49.28	21.07	6.05	76.40	50.03	15.24	4.22	69.49	61.08	24.75	7.50	93.34
Himachal Pradesh	32.51	10.79	8.42	51.72	34.15	9.41	9.20	52.76	37.44	11.31	11.83	60.58
Uttarakhand	87.44	20.64	7.27	115.35	93.02	19.94	8.29	121.25	89.06	24.00	10.10	123.31
Sikkim	1.71	0.89	0.24	2.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arunachal Pradesh	1.64	0.69	0.33	2.66	1.64	0.69	0.33	2.66	1.85	0.76	0.33	2.95
Mozoram	17.39	15.00	7.83	40.22	20.76	11.52	9.78	42.06	22.93	12.93	11.41	47.28
Manipur	63.30	16.03	5.80	85.13	64.06	15.00	5.80	84.86	42.14	8.71	6.61	57.46
Meghalaya	11.13	7.32	0.91	19.36	9.58	4.57	1.25	15.40	9.81	2.60	1.51	13.92
Nagaland	0.80	0.59	0.19	1.58	1.16	0.62	0.30	2.08	1.16	0.79	0.30	2.24
Tripura	34.66	13.10	8.50	56.26	25.65	8.84	7.45	41.94	25.65	12.07	9.46	47.18
Assam	28.88	14.38	14.07	57.33	29.09	15.37	15.76	60.22	32.43	13.58	16.09	62.09

Source

INM Division, Ministry of Agriculture, Government of India

Table 5.17: State-wise Consumption of Electricity for Agriculture Purpose (2007-08)

State	Consumption (GWh)		Per cent Share of Agriculture
	Agriculture Purpose	Total	
Jammu & Kashmir	271.42	4030.85	6.73
Himachal Pradesh	26.52	5019.45	0.53
Uttarakhand	300.20	4736.11	6.34
Sikkim	0.0	260.25	0.0
Arunachal Pradesh	0.0	169.51	0.0
Manipur	0.09	197.4	0.05
Meghalaya	0.61	893.26	0.07
Mizoram	0.0	179.44	0.0
Nagaland	0.0	182.73	0.0
Tripura	23.99	397.81	6.03
Assam	19.54	2544.48	0.77

GWh = Giga Watthour

Source

*Central Electricity Authority, New Delhi
Quoted by - Ministry of Agriculture, Government of India*

Table 5.18: Gross State Domestic Product at Factor Cost for Agriculture at Current Prices (₹ Lakh)

Year	States										
	J&K	HP	UK	SK	AP	MN	MG	MZ	NG	TR	AS
1999-00	437613	268091	330026	18308	44045	75288	75511	31792	66612	132680	1122886
2000-01	452336	330005	375080	20577	53405	77728	83545	31589	94723	122993	11297996
2001-02	489025	369160	365802	22990	54702	82063	92943	37113	116678	158248	1139379
2002-03	565867	380542	403018	25491	56941	86128	98710	37954	136079	153464	1144574
2003-04	641865	429526	437736	28532	63110	101374	101972	39264	144227	169464	1190046
2004-05	666813	486318	478885	31061	62509	114141	103787	39603	159302	179015	1289925
2005-06	698734	527269	483444	34121	65446	117126	112308	41196	165676	195949	1450347
2006-07	732729	516319	556990	35960	74469	121152	142715	42337	166859	205740	1553842
2007-08	765797	624286	571409	39067	91425	125316	152530	43414		213270	1762393
2008-09		665869	565600	42476	107162	128276	171456	44893			1974794

Source

Statistical Pocket Book India, 2008, 46th Edition, Central Statistical Organization, New Delhi

Table 5.19: Share of Agriculture & Allied Sector in Gross Domestic Product during 2006-07 and 2007-08 (at Current Prices)* ₹ in Lakh

State	2006-07 (Agriculture & Allied SDP)	2006-07 % Share of Agriculture & Allied SDP	2007-08 Agriculture & Allied SDP	2007-08 % Share of Agriculture & Allied SDP	2006-07	2007-08
					% Growth over previous year	
Jammu & Kashmir	809329	27.88	847338	26.65	4.69	4.70
Himachal Pradesh	603213	21.27	679688	21.26	-3.30	12.68
Uttarakhand	561429	18.90	NA	NA	5.48	NA
Sikkim	39158	18.92	43158	18.35	9.24	10.22
Arunachal Pradesh	84822	24.94	91225	22.78	14.73	7.55
Manipur	140499	26.30	149825	26.27	3.33	6.64
Meghalaya	129813	18.65	136425	17.94	5.09	5.09
Mizoram	47971	16.07	49426	15.03	3.02	3.03
Nagaland	NA	NA	NA	NA	NA	NA
Tripura	232699.0	22.63	NA	NA	6.33	NA
Assam	1751058	27.48	1898587	26.95	8.32	8.34

* As on 09-02-2009

Source

Central Statistical Organization, New Delhi

Quoted by – Agricultural Statistics at a Glance 2009, Ministry of Agriculture, Government of India

Table 5.20: Gross State Domestic Product (Agriculture) at Constant (1999-2000) Prices for the year 2007-08

State	Agriculture including Livestock (₹ in lakh)			Agriculture and Allied Sector (₹ Million)
	Agriculture	Total SDP	% of Total	
Jammu & Kashmir	2306047	560838	24.3	61541
Himachal Pradesh	2481692	450416	18.1	50709
Uttarakhand	2343382	403414	17.2	NA
Arunachal Pradesh	274577	59046	21.5	6685
Manipur	446417	104456	23.4	12006
Meghalaya	562825	109151	19.4	11892
Mizoram	234370	32931	14.1	3758
Nagaland	487997	145632	29.8	NA
Sikkim	165105	29235	17.7	3053
Tripura	847150	174093	20.6	NA
Assam	5137205	1174092	22.9	128553

Source –

Central Statistical Organization, New Delhi

Quoted by – Agricultural Statistics at a Glance 2009, Ministry of Agriculture, Government of India

Table 5.21: State-wise Number of Kisan Credit Cards issued upto 30th November 2009

State	Cards issued by			Total Cards issued
	Coop. Banks	RRBs	Commercial Bank	
Jammu & Kashmir	52722	16845	12744	82311
Himachal Pradesh	145598	48854	226019	420471
Uttarakhand	299697	47439	270378	617514
Sikkim	2880	–	6945	9825
Arunachal Pradesh	980	3121	16131	20232
Manipur	13495	1957	25323	40775
Meghalaya	10844	22036	38229	71109
Mizoram	2116	9460	12029	23605
Nagaland	2311	1433	18404	22148
Tripura	3713	49811	52864	106388
Assam	14387	135802	335181	485370

Source

Credit Division, Ministry of Agriculture, New Delhi

Quoted by – Agricultural Statistics at a Glance 2009, Ministry of Agriculture, Government of India

6. Livestock

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Table 6.1: State-wise Details of Livestock (Numbers, 2007) – Bovines, Sheep & Goat

State	Cattle			Buffalo	Yak	Mithun	Sheep	Goat
	Toal Exotic/ crossbred	Total Indigenous cattle	Total cattle					
Jammu & Kashmir	16,77,437	17,65,678	34,43,115	10,50,340	61,910	16	41,27,149	20,68,273
Himachal Pradesh	8,02,677	14,75,868	22,78,545	7,61,584	1,705	14	9,01,229	12,40,808
Uttarakhand	3,39,427	18,95,689	22,35,116	12,19,518	50	0	2,90,411	13,35,306
Sikkim	72,974	61,899	1,34,873	243	5,225	0	2,536	91,995
Arunachal Pradesh	29,180	4,73,940	5,03,120	3,208	14,251	2,18,931	19,880	2,92,121
Manipur	65,694	2,76,262	3,41,956	62,167	0	10,024	8,696	50,577
Meghalaya	26,848	8,60,395	8,87,243	22,627	0	0	21,041	3,65,483
Mizoram	10,725	24,204	34,929	5,832	0	1,939	974	15,710
Nagaland	2,53,994	2,15,824	4,69,818	35,022	2	33,385	3,649	1,78,072
Tripura	79,317	8,75,069	9,54,386	14,257	0	0	3,685	6,33,052
Assam	4,10,472	96,30,797	1,00,41,269	4,99,912	0	0	3,53,799	43,19,773

Source

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India

Table 6.2: State-wise Details of Livestock (Numbers, 2007) – Horse, Pony, Pig, etc.

States	Horse	Pony	Mules	Donkey	Pig
Jammu & Kashmir	1,04,982	61,935	42,387	24,105	904
Himachal Pradesh	10,019	3,132	18,985	7,376	2,493
Uttrakhand	13,089	2,352	24,084	1,262	19,822
Sikkim	3	0	0	0	35,250
Arunachal Pradesh	5,529	8	12	0	3,55,583
Manipur	181	1,037	0	0	3,13,882
Meghalaya	879	979	0	0	5,24,357
Mizoram	2	1,388	0	0	2,67,361
Nagaland	372	467	0	0	6,97,791
Tripura	3	0	0	0	2,63,694
Assam	10,601	759	11	60	20,00,429

Source

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India

Table 6.3: State-wise Details of Backyard Poultry (Numbers, 2007)

State	Fowls	Duck
Jammu & Kashmir	40,91,382	1,83,303
Himachal Pradesh	1,92,772	314
Uttrakhand	6,43,430	24,701
Sikkim	1,16,743	741
Arunachal Pradesh	12,58,749	89,676
Manipur	17,33,950	5,55,117
Meghalaya	30,26,497	66,378
Mizoram	12,31,504	6,544
Nagaland	27,46,576	1,19,730
Tripura	24,89,593	7,47,395
Assam	2,06,09,304	84,39,083

Source

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India

Table 6.4: State-wise Estimates of Milk Production

(000 tonnes)

State	Year											
	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09
Jammu & Kashmir	1167	1232	1286	1321	1360	1389	1414	1422	1400	1400	1498	1498
Himachal Pradesh	714	724	742	761	756	773	786	870	869	872	874	884
Uttarakhand	-	-	-	1025	1066	1079	1188	1195	1206	1213	1221	1230
Arunachal Pradesh	43	45	46	42	42	46	46	48	48	49	50	24
Assam	719	725	667	683	682	705	727	739	747	751	752	753
Manipur	62	65	68	66	68	69	71	75	77	77	78	78
Meghalaya	59	61	62	64	66	68	69	71	73	75	77	77
Mizoram	17	20	18	14	14	15	15	16	15	16	17	17
Nagaland	46	48	48	51	57	58	63	69	74	67	45	53
Sikkim	35	35	35	35	37	45	48	46	48	49	49	49
Tripura	57	76	77	77	90	79	84	86	87	89	91	96

Source

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India
http://www.nddb.org/statistics/milkproduction_states.html (Last updated: May 17, 2010)

Table 6.5: Share of Milk Production (2005-06) by Cows, Buffaloes & Goats in IHR States

(‘000 tonnes)

State	Cow			Buffalo	Goat	Total
	CB	ND	Total			
Jammu & Kashmir*	-	-	-	-	-	1400
Himachal Pradesh	296	210	506	335	28	869
Uttarakhand	189	272	461	744	0	1206
Sikkim	38	10	48	0.12	-	48
Arunachal Pradesh	3	4	7	-	-	48
Manipur	38	24	63	14	-	77
Meghalaya	45	27	72	2	-	73
Mizoram	12	2	14	1	-	15
Nagaland	59	10	70	3	2	74
Tripura	27	55	83	2	2	87
Assam	159	468	627	93	27	747

* Breakup not available

- No production data reported

CB- Crossbred, ND Nondescript

Source

State Animal Husbandry Departments of Various States

Quoted by - Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India

Table 6.6: Estimates of Egg Production in IHR States (1997-98 to 2005-06)

(Lakh nos.)

States	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
Jammu & Kashmir*	5182	5200	5593	5689	6065	6220	6370	6105	6320
Himachal Pradesh	750	775	801	816	823	828	840	811	753
Uttarakhand	-	-	-	893	894	909	1842	1866	1873
Sikkim	170	160	90	95	97	103	129	140	146
Arunachal Pradesh	279	326	84	85	86	86	88	90	73
Manipur	616	645	683	695	717	736	794	822	835
Meghalaya	814	825	847	874	902	943	936	946	973
Mizoram	281	334	433	279	289	304	307	317	326
Nagaland	460	480	522	553	540	681	682	755	868
Tripura	980	1080	1050	1053	607	995	1005	1071	1100
Assam	4828	4864	4892	5061	5067	5095	5138	5216	5359

- Not Available

Source

State Animal Husbandry Departments of Various States

Quoted by - Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India

Table 6.7: Estimates of Wool Production in IHR States (1997-98 to 2005-06)

(000 kg)

States	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
Jammu & Kashmir*	4616	5450	5440	5583	5810	6034	6200	7120	7400
Himachal Pradesh	1565	1572	1576	1582	1586	1597	1598	1600*	1603*
Uttarakhand				495	426	519	342	349	353
Arunachal Pradesh	56.6	58.8	59	59	59	59	60	16	14
Sikkim	36	34	8	9	9	10	6	4	2

* Farm production included

Source

*State Animal Husbandry Departments of Various States
Quoted by - Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India*

Table 6.8: Per Capita Availability of Milk in IHR States

(gms/day)

State	Year																	
	1991-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	1999-2000	2000-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09
Jammu & Kashmir	204	321	261	210	276	302	345	353	362	348	367	365	363	364	353	325	337	362
Himachal Pradesh	313	314	330	324	329	316	314	347	349	335	341	339	337	378	373	370	367	365
Uttarakhand	-	-	-	-	-	-	-	-	-	323	344	339	365	364	361	358	355	352
Sikkim	194	191	186	192	204	190	188	186	185	173	187	222	231	221	232	230	225	226
Arunachal Pradesh	22	64	62	64	119	115	109	119	119	102	105	112	109	114	113	114	114	55
Manipur	122	119	118	88	80	75	74	87	88	81	86	85	85	90	92	82	82	90
Meghalaya	76	77	77	77	83	74	73	76	76	74	78	78	78	81	82	82	83	83
Mizoram	31	34	32	32	31	29	53	65	57	42	43	45	44	46	43	45	47	48
Nagaland	96	95	93	91	88	86	82	69	69	69	78	78	83	90	96	86	57	66
Tripura	31	33	33	35	35	36	45	69	69	64	77	66	68	70	70	71	72	75
Assam	77	78	78	79	95	79	78	79	71	69	70	71	71	72	72	70	69	70

- Part of State of Uttar Pradesh, separate statistics Not Available

Source

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India
http://www.nddb.org/statistics/milkprod_states_capita3.html (Last updated: May 17, 2010)

Table 6.9: Estimates of Meat Production* (1998-99 to 2005-06)
(‘000 tonnes)

States	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006
Jammu & Kashmir	25.56	25.81	26.29	26.64	27.05	27	-	27
Himachal Pradesh	3.39	3.53	3.43	3.55	3.42	3.21	2.92	2.93
Uttarakhand	-	-	7.32	7.8	8.35	7.23	5.82	6.19
Sikkim	-	-	-	-	0	0	-	0
Arunachal Pradesh	18	18.2	18.4	18.6	19	9.17	7.69	20
Manipur	19.17	20.71	20.95	21.5	21.82	22	22.74	23
Meghalaya	30.69	29.49	34.32	30.79	32.96	35.64	36.38	36.54
Mizoram	6.47	11.38	7.64	7.71	7.88	8.69	9.02	9.24
Nagaland	6.56	26.36	18.73	19.48	23.52	26.18	60.73	63.25
Tripura	-	-	-	-	0	4	8.9	12.22
Assam	-	-	17.18	-	20.92	22.36	24.77	26.64

* Meat production from recognized sectors

Source

Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India

Table 6.10: Animal-wise Meat Production in IHR States (2005-06)

('000 tonnes)

State	Cattle	Buffalo	Sheep	Goat	Pig	Poultry	Others	Total Meat Production	Total Meat Production (excl. Poultry)
Jammu & Kashmir								27.0	27.000
Himachal Pradesh			0.800	1.870	0.265			2.935	2.935
Uttarakhand		1.470	1.268	2.686	0.769			6.193	6.193
Arunachal Pradesh	-	-	-	-	-	0.000		20.0	20.000
Manipur	6.595	3.376	0.095	0.268	7.249	5.420		23.003	17.583
Meghalaya	20.961	0.455		1.022	10.455	3.651		36.544	32.893
Mizoram	1.426	0.040		0.075	6.320	1.370	0.008	9.239	7.869
Nagaland	25.780	3.150		3.650	30.670			63.25	63.250
Tripura				1.260	5.300	5.630	0.032	12.222	6.592
Assam	4.531	0.403	0.188	5.071	9.988	6.455		26.636	20.181

- Not Available

Source

Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India

Table 6.11: State-wise Inland Fish Production in IHR States
(‘00 Tonnes)

State	2004-2005	2005-2006	2006-2007
Jammu & Kashmir	191	191.5	192
Himachal Pradesh	69	73	68.9
Uttarakhand	25.6	27.9	30.3
Sikkim	1.4	1.5	1.5
Arunachal Pradesh	27	27.5	27.7
Manipur	178	182.2	186.1
Meghalaya	56.3	41.2	54.9
Mizoram	36.8	37.5	37.6
Nagaland	49	55	58
Tripura	198.3	238.7	286.3
Assam	1863.1	1880.1	1814.8

Source

Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Government of India

Table 6.12: Gross State Domestic Product at Factor Cost for Fisheries at Current Prices (in ₹ Lakh)

State	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
Jammu & Kashmir	1162	11477	12324	13206	15611	17071	18653	20697	22738	-
Himachal Pradesh	3113	3124	3268	3296	3048	3616	3572	3561	3872	4271
Uttarakhand	720	769	797	848	898	919	1053	1234	1275	1366
Sikkim	64	69	71	74	76	78	90	103	115	127
Arunachal Pradesh	1470	1536	1730	1730	1766	2071	2457	2837	3403	3585
Manipur	6925	8769	9487	9932	10516	11647	11985	12541	13060	13634
Meghalaya	2227	3129	2775	3319	3285	3876	3677	2975	3077	3115
Mizoram	1627	1782	2585	2665	3027	3020	3036	3171	3221	3291
Nagaland	2278	2318	2468	2590	1890	2327	2627	2990	-	-
Tripura	6788	7427	7815	8545	9502	10926	13895	20307	21050	-
Assam	57135	57555	59401	67877	81855	84494	107834	138434	143687	159337

- Not Available

Source

Statistical Pocket Book India 2008, 46th Edition, Central Statistical Organization, New Delhi

Table 6.13: Area Under Fodder Crops and Permanent Pastures, and other Grazing Land in some of the IHR States (1995-96 to 1999-2000)

(000 ha)

States	Fodder Crops				Permanent Pastures and other Grazing Land			
	1995-1996	1996-1997	1998 - 1999	1999 - 2000	1995 - 1996	1996 - 1997	1998 - 1999	1999 - 2000
Jammu & Kashmir	43	42	46	46	126	126	126	126
Assam	8	8	8	8	158	170	167	167
Himachal Pradesh	10	10	10	10	1204	1204	1493	1472
Manipur	-	-	-	-	-	-	-	-
Mizoram	-	-	-	-	-	-	23	23
Sikkim	(a)	(a)	-	-	69	69	69	69
West Bengal	2	2	5	2	7	8	7	5

(a) Below 500 hectares

- Not Available

Source

Directorate of Economies & Statistics; Ministry of Agriculture, Government of India
 Quoted by - Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India

Table 6.14: Achievement of some of the Key Components of Dairy Development in Different States under Cooperative Sector (as on 31.3.2005)

State	DCS Organised*	Farmer Members*	Rural Milk Production	Liquid Milk Sale	Processing Capacity
	(No.)	('000)	('000 Kg/Day)	(000 L/Day)	(000 L/Day)
Himachal Pradesh	387	20	28	16	40
Sikkim	194	7	7	7	15
Nagaland	76	3	3	4	10
Tripura	84	4	3	9	10
Assam	66	3	4	7	60

DCS- Dairy Cooperative Societies. * Organised (Cumulative)

Source

Dairy Division, DAH&DF, Ministry of Agriculture
 Quoted by - Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India

Table 6.15: Number of Dairy Plants (as on 31st March, 2006) Registered Under MMPO (1992)
(Capacity '000 litre per day)

States	Cooperative		Private		Others*		Total	
	No.	Capacity	No.	Capacity	No.	Capacity	No.	Capacity
By Central Authority								
Jammu & Kashmir	1	30	0	0	0	0	1	30
Himachal Pradesh	3	44	2	345	0	0	5	389
Sikkim	1	15	0	0	0	0	1	15
Tripura	1	10	0	0	0	0	1	10
By State Registering Authorities								
Jammu & Kashmir	0	0	0	0	0	0	0	0
Himachal Pradesh	0	0	2	200	0	0	2	200
Sikkim	0	0	0	0	0	0	0	0
Tripura	0	0	0	0	0	0	0	0
Sector wise Distribution								
Jammu & Kashmir	1	30	0	0	0	0	1	30
Himachal Pradesh	3	44	4	545	0	0	7	589
Sikkim	1	15	0	0	0	0	1	15
Tripura	1	10	0	0	0	0	1	10

*include Government Milk Schemes, Government Dairies and Mother Dairies.

Source

*Dairy Division, Department of Animal Husbandry, Dairying and Fisheries
Quoted by - Basic Animal Husbandry Statistics 2006, Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, Government of India*

7. FORESTS & PROTECTED AREAS

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Table 7.1: Recorded Forest Area in states of the IHR (2007)

State	Recorded Forest Area (sq. Km)				% of Forest Area to G. A.
	Reserved Forest	Protected Forest	Unclassed Forest	Total Forest Area	
Jammu & Kashmir	17643	2551	36	20230	9.10
Himachal Pradesh	1898	33060	2075	37033	66.52
Uttarakhand	24638	9882	131	34651	64.79
Sikkim	5452	389	-	5841	82.31
Arunachal Pradesh	10546	9528	31466	51540	61.55
Manipur	1467	4171	11780	17418	78.01
Meghalaya	1113	12	8371	9496	42.34
Mizoram	7909	3568	5240	16717	79.30
Nagaland	86	508	8628	9222	55.62
Tripura	4175	2	2117	6294	60.02
Assam	17864	-	8968	26832	34.21

Source

State of Forest Report 2009, Forest Survey of India, Dehradun

Table 7.2: Forest Area by Ownership (2005-06; sq.Km)

State	Forest Department					Others		
	Reserved	Protected	Unclassed	Total	Area Under Sanctioned Working Plans	Revenue Department Forest	Corporate Bodies Forest/Community Ownership	Private Forest
Jammu & Kashmir	20194.00	36.00	NA	20230.00	20230.00	NA	NA	NA
Himachal Pradesh	1896.00	33043.00	2094.00	37033.00	24909.00	NA	NA	NA
Uttarakhand	24261.56	98.61	53.01	24413.19	0.00	4768.70	5449.64	158.69
Arunachal Pradesh	10537.94	9535.79	31466.27	51540.00	15699.24	0.00	0.00	0.00
Meghalaya	712.74	12.39	399.48	1124.61	0.00	0.00	0.00	0.00
Mizoram	1657.28	2126.95	5834.44	9618.67	0.00	0.00	0.00	0.00
Nagaland	85.83	513.55	191.62	791.00	0.00	0.00	0.00	7621.07
Tripura	3588.18	589.23	2116.87	6294.29	1427.83	0.00	0.00	0.00
Assam	13870.00	3925.00	5865.00	23660.00	13870.00	0.00	0.00	0.00

Note: Information is not available for Manipur and Sikkim.

Source

Indian council of Forestry Research and Education, Dehradun

Quoted by - Compendium of Environment Statistics India (2008-09), Central Statistical Organization, New Delhi

Table 7.3: Forest Area by Composition (2005-06; sq. km)

State	Coniferous forest			Non-coniferous			Coniferous & Non coniferous mixed	Total
	Chir	Deodar	Other Conifers	Sal	Teak	Other		
Jammu & Kashmir	1825.00	1075.00	5368.00	0.00	0.00	1885.00	10075.00	20230.00
Himachal Pradesh	1364.00	1310.00	6328.00	190.00	0.00	7178.00	20663.00	37033.00
Uttarakhand	3993.30	192.65	1205.87	3151.13	200.93	3420.24	12249.07	24413.19
Arunachal Pradesh	243.00	NA	35.30	0.00	0.00	47767.00	0.00	51540.00
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	150.00	3036.75	21.30	3208.05
Nagaland					0.00	0.00	0.00	0.00
Tripura				271.90	1567.51	4454.80	0.00	6294.29

Note: Blank cell indicates information is not available. Such information is not available for Sikkim and Manipur.

Source

Indian Council of Forestry Research and Education

Quoted by - Compendium of Environment Statistics India (2008-09), Central Statistical Organization, New Delhi

Table 7.4: Forest Cover in different States of the IHR (1987-1995)

State	Assessment Year (Area Km ²)				
	1987	1989	1991	1993	1995
Jammu & Kashmir	20,905	20,449	20,449	20,443	20,433
Himachal Pradesh	12,480	12,480	12,480	12,502	12,501
Uttarakhand	-	-	-	-	-
Sikkim	2,756	3,041	3,041	3,119	3,127
Arunachal Pradesh	64,132	69,002	68,757	68,661	68,621
Manipur	17,475	17,685	17,685	17,621	17,558
Meghalaya	16,466	15,645	15,875	15,769	15,714
Mizoram	19,084	18,170	18,853	18,697	18,576
Nagaland	14,394	14,399	14,321	14,348	14,291
Tripura	5,953	5,535	5,535	5,538	5,538
Assam	25,160	24,832	24,751	24,508	24,061

Source

State of Forest Report, 2001, Forest Survey of India, Dehradun

Table 7.5: Forest Cover in different States of the IHR (1997-2007)

State	Assessment Year (Area Km ²)					
	1997	1999	2001	2003	2005	2007
Jammu & Kashmir	20,440	20,441	19,886	21,273	21,273	22,686
Himachal Pradesh	12,521	13,082	12,907	14,359	14,369	14,668
Uttarakhand	23,243	23,260	23,354	24,460	24,442	24,495
Arunachal Pradesh	68,602	68,847	69,760	67,692	67,777	67,353
Sikkim	3,129	3,118	3164	3,262	3,262	3,357
Manipur	17,418	17,384	17,889	17,259	17,086	17,280
Meghalaya	15,657	15,633	16,535	16,925	16,988	17,321
Mizoram	18,775	18,338	16,397	18,583	18,684	19,240
Nagaland	14,221	14,164	13,980	14,015	13,719	13,464
Tripura	5,745	5,745	8,869	8,123	8,155	8,073
Assam	23,824	23,688	25,290	27,735	27,645	27,692
West Bengal Hills	-	-	2,196	2,221	2,221	2,289
Assam Hills	-	-	13,024	13,158	13,051	13,003

- Not Available

Source*State of Forest Report (2001, 2005, 2009), Forest Survey of India, Dehradun*

Table 7.6: Contribution of the IHR to the Total Forest Cover of India (2007)

Region / Country	Geographical Area (km ²) (values in per cent)	Forest Cover (km ²)			
		Very Dense	Moderate	Open	Total
IHR	537435 (16.3%)	37741 (45.2%)	100596 (31.5%)	84892 (29.4%)	223229 (32.3%)
India	3287263 (100%)	83510 (2.5%)*	319012 (9.7%)	288377 (8.8%)	690899 (21.0%)

* Per cent of total geographical area of the country

Source

Report of the Task Force "To look into problems of hill states and hill areas and to suggest ways to ensure that these states and areas do not suffer in any way because of their peculiarities". 2010. Planning Commission, Government of India

Table 7.7: Proportion of Forest Cover of the Total Geographical Area excluding area above 4000m amsl

State	Total Geographical Area (GA) (km ²)	Snow Cover		Forest Cover (km ²)	GA > 4,000 m (km ²)	Forest cover (%) excluding areas > 4,000m
		(km ²)	(%)			
Jammu & Kashmir	222,236	39113.5	17.6	22,686	141,313	28.0
Himachal Pradesh	55,673	4954.9	8.9	14,668	21,119	42.5
Uttarakhand	53,483	4385.6	8.2	24,495	11,028	57.7
Sikkim	7,096	816.0	11.5	3,357	3,161	85.3
Arunachal Pradesh	83,743	837.4	1	67,353	6,514	87.2
Total	422,231	50107.4	47.2	132,559	183,135	55.5

Source

State of Forest Report, 2009. Forest Survey of India, Dehradun

Table 7.8: Forest Ecosystem Services provided by different States of the IHR

Himalayan State	Value of Ecosystem Services as of 1994 (Billion ₹)
Jammu and Kashmir	118.02
Himachal Pradesh	42.46
Uttarakhand	106.89
Sikkim	14.02
Arunachal Pradesh	232.95
Manipur	59.67
Meghalaya	55.16
Mizoram	56.61
Nagaland	49.39
Tripura	20.40
<i>Total IHR</i>	<i>944.33</i>

Source

Singh, S.P. 2007. Himalayan Forests Ecosystem Services: Incorporating in National Accounting. CHEA, Nainital

Table 7.9: Status of Forest Fragmentation in different states of the IHR

State	Fragmentation (% of Forest)				
	Intact	Low	Moderate	High	Very High
Himachal Pradesh		10.6	17.3	3.8	9.3
Uttarakhand	50.5	23.9	24.3	1.33	
Sikkim	30.3		31	33.6	5.15
Manipur	27.4		31.6	38.2	27.2
Meghalaya		40.1	32.9	10.5	15.9
Mizoram	71.7	24.4	2.74	1.1	
Nagaland	53.3		27.9	16	2.72
Tripura		33.9	28.7	20.8	16.6

Source

Biodiversity Characterization at Landscape Level in Western Himalayas, India using Satellite Remote Sensing and Geographical Information System. 2002. Indian Institute of Remote Sensing, Dehradun

Biodiversity Characterization at Landscape Level in North-East India using Satellite Remote Sensing and Geographical Information System. 2002. Indian Institute of Remote Sensing, Dehradun

Table 7.10: Progress of Joint Forest Management in different states of the IHR
as on 01-01-2004

State	JFM Committees (No.)	Area Under JFM (ha)	Total Families Involved in JFM (No.)
Jammu & Kashmir	935	49544	48460
Himachal Pradesh	835	290922.8	259069
Uttarakhand	10107	859028	499980
Sikkim	158	600	3268
Arunachal Pradesh	308	80217	20474
Manipur	205	93941	19451
Mizoram	249	10980	32241
Nagaland	306	22930	57492
Assam	503	79251	67341

Source

Annual Report (2003-2004), Ministry of Environment & Forests, Government of India

Table 7.11: State-wise Production (2005-06) of Forest Produce in the IHR – Wood

State	Round wood		Wood fuel (Cum)	Saw logs & Veneer logs		Pulp wood	
	C	NC		C	NC	C	NC
	(Cum)	(Cum)		(Cum)	(Cum)	(Cum)	(Cum)
Jammu & Kashmir	51250.0	0.0	22924.0	0.0	0.0	0.0	0.0
Himachal Pradesh	8089.46	66.0	22291.0	13423.06	3705.07	6430.50	0.00
Uttarakhand	77775.0	168265.0	63898.0	-	-	-	85279.0
Arunachal Pradesh	40656.43	0.0	12878.9	0.0	0.0	0.0	0.0
Mizoram	250	0.0	1203.0	0.0	0.0	0.0	0.0
Nagaland	NA	NA	NA	NA	NA	NA	NA
Tripura	0.0	351.02	6462.36	0.0	0.0	0.0	0.0
Assam	0.0	12064.0	510.0	NA	NA	NA	NA

State	Other Industrial Round wood (Poles & Posts)		Sawn wood		Chips & particles MT	Wood residues MT	Wood charcoal MT
	C	NC	C	NC			
	(Cum)	(Cum)	MT	MT			
Jammu & Kashmir	0.00	0.00	35150.00	0.00	0.00	0.00	0.00
Himachal Pradesh	2065.00	0.00	69259.49	0.00	0.00	0.00	7924.93
Uttarakhand	-	-	34262.42	75.52	-	-	353.30
Mizoram	0.00	0.00	0.00	0.00	170.02	0.00	26.37
Tripura	0.00	2472.01	0.00	0.00	0.00	0.00	0.00

Cum = Cubic Meter, MT = Metric Ton, C= Coniferous, NC = Non Coniferous

- Indicates that Information is not available.

Source

Indian Council of Forestry Research and Education, Dehradun

Quoted by - Compendium of Environment Statistics India (2008-09), Central Statistical Organization, New Delhi

Table 7.12: State-wise Resin Production (2005-06) from IHR Forests

State	Resins (Metric tonnes)	
	2004-05	2005-06
Jammu & Kashmir	3941.00	6748.00
Himachal Pradesh	8797.00	8508.00
Uttarakhand	17983.00	18349.00
Arunachal Pradesh	4040.00	1415430.00

Source

Indian Council of Forestry Research and Education, Dehradun

Quoted by - Compendium of Environment Statistics India (2008-09), Central Statistical Organization, New Delhi

Table 7.13: State-wise Production of some of Forest Produce in the IHR (2001 & 2002)

State	Round Wood		Wood Fuel (Cum)	Canes/Rattans		Bamboo		Resin (Metric Tonne)
	C (Cum)	NC (Cum)		2000-01	2001-02	2000-01	2001-02	
	2000-01	2000-01	2000-01	2000-01	2001-02	2000-01	2001-02	2000-01
Jammu & Kashmir	102480		5859.2	393039 Nos.	441592 Nos.	224819 CUM	191152 CUM	10958
Himachal Pradesh	5451.54	28219				4087.27 MT	4829.17 MT	7357
Uttarakhand	104829.1	91015	7509.39					16359.49
Sikkim			297.61			199124.86 MT	138651 MT	
Arunachal Pradesh	2057		23265.1	26112889 RMT	10627920 RMT	136247 Nos.	28398 Nos.	1199.74
Mizoram		4.84	6481.06	439250 RMT	189250 Nos.	223450 Nos.	35430 Nos.	
Tripura		297.66	2474.72	12 MT		54480 Nos.		

C= Coniferous, NC = Non Coniferous, Cum = Cubic Meter

Source

Forestry Statistics India, 2003. Indian Council of Forestry Research and Education, Dehradun
 Quote - <http://mospi.gov.in/comenv2000tab3.2.8.htm> (visited 12 August 2010).

Table 7.14: Gross State Domestic Product at Factor Cost for Forestry & Logging at Current Prices (₹ Lakh)

Year	State										
	J&K	HP	UK	SK	AP	MN	MG	MZ	NG	TR	AS
1999-00	41046	48645	34726	1206	7014	5513	4318	1491	9817	5859	46532
2000-01	39970	57469	29231	1280	8647	5479	4860	1666	10675	6065	45206
2001-02	45874	65895	30930	1405	7052	5356	5625	1771	11223	6934	53558
2002-03	51017	76779	36682	1466	6531	5463	6067	2198	11380	7474	54835
2003-04	48149	80664	37616	1525	5263	5944	7290	2033	12488	7599	55859
2004-05	50334	83783	48882	1573	5406	5894	7668	2272	13218	7803	53015
2005-06	55675	92989	47740	1635	6032	6857	7544	2402	16286	9001	59688
2006-07	55903	97362	49669	1695	8004	7061	8007	2474	19276	10042	62895
2007-08	58803	105900	51815	1760	6506	7271	10662	2641		10410	71045
2008-09		108359	55839	1838	6286	7487	12665	2777			80475

Source

Statistical Pocket Book India, 2008, 46th Edition, Central Statistical Organization, New Delhi

Table 7.15: Physiographic Zone Wise Tree Cover and Growing Stock

Parameters	Physiographic Zone		
	Western Himalaya	Eastern Himalaya	North East
Geographic Area (Km ²)	329255	74618	133990
Tree Cover			
Area (Km ²)	8091	324	2243
% of G.A.	2.46	0.43	1.67
Recorded Forest Area (Km ²)	91073	47965	79431
Growing Stock (volume in Million Cum)			
In Forest	1021.94	473.2	341.14
In Tree Outside Forest	191.09	69.35	102.85
Total	1213.03	542.55	443.99

Cum = Cubic Meter

Source

State of Forest Repot 2009, Forest Survey of India, Dehradun

Table 7.16: Protected Areas in Different Bio-geographic Zones of the IHR

Bio-geographic Zone	Number of National Parks and Sanctuaries	Area (km²)	Area of Bio-geographical Zone (%)
Trans-Himalaya	7	16247.56	8.7
Himalaya	77	23432.77	11.1
North-East	49	6092.62	3.5

Source

National Wildlife Database, Wildlife Institute of India, 2009

Table 7.17: Protected Area Network in the IHR – National Parks & Wildlife Sanctuaries

States/Regions	National Park		Wildlife Sanctuary		Total Area (km ²)	% of Total area
	No.	Area (km ²)	No.	Area (km ²)		
Jammu & Kashmir	4	3925	15	10243.11	14168.11	6.4
Himachal Pradesh	2	1430	33	6171.11	7601.11	13.7
Uttarakhand	6	4915.44	6	2418.61	7334.05	13.7
Sikkim	1	1784	7	399.1	2183.1	30.8
Arunachal Pradesh	2	2290.82	11	7487.75	9778.57	11.7
Meghalaya	2	269.44	3	34.2	303.64	1.4
Mizoram	2	150	8	1090.75	1240.75	5.9
Manipur	1	40	1	184.4	224.4	1.0
Nagaland	1	202.02	3	20.34	222.36	1.3
Tripura	2	36.71	4	566.93	603.64	5.8
Assam hills	-	0	4	360.86	360.86	1.9
West Bengal hills	2	166.6	3	166.14	332.74	10.6

Source

National Wildlife database, Wildlife Institute of India, 2009

<http://oldwww.wii.gov.in/nwdc/nparks.htm>,

<http://oldwww.wii.gov.in/nwdc/sanctuaries.htm>

Table 7.18: Biosphere Reserves in the IHR

Biosphere Reserve	Date of Notification	Area (km²)	State
Nanda Devi*	18.01.1988	6497.03	Uttarakhand
Nokrek	01.09.1988	820	Meghalaya
Manas	14.03.1989	2837	Assam
Dibru-Saikhowa	28.07.1997	765	Assam
Dehang Debang	02.09.1998	5111.5	Arunachal Pradesh
Kanchanjunga	07.02.2000	2619.92	Sikkim
Cold Desert	28.08.2009	7770	Himachal Pradesh

* Recognized by UNESCO on World Network of Biosphere Reserves.

Source

Ministry of Environment & Forests, Government of India, New Delhi

Table 7.19: Forest Cover Changes in some of the Biosphere Reserves of the IHR

Biosphere Reserve (State)	Geographical Area (km ²)	1991 Assessment		1999 Assessment		Changes in Forest cover	
		Dense Forest	Open Forest	Dense Forest	Open Forest	Dense Forest	Open Forest
Manas (Assam)	2837.0	1600	171.8	1435	140.8	(-) 165	(-) 31
Nanda Devi (Uttarakhand)	2236.7	51.5	74.7	57.5	79.2	(+) 6	(+) 4.5
Nokrek (Meghalaya)	820.0	166	589	185	547	(+) 19	(-) 42

Source

http://fsi.org.in/biosphere_reserve_table.htm (visited on 10 August 2010)

Table 7.20: State-wise distribution of wetlands under National Wetland Conservation & Management Programme

State	Number of Wetlands	Area (ha)
Jammu and Kashmir	7	117325
Himachal Pradesh	5	15736
Uttarakhand	1	800
Sikkim	6	164
Manipur	1	26600
Mizoram	2	285
Assam	2	4504

Source

Conservation of Wetlands in India: A Profile, Ministry of Environment & Forests, Government of India, 2007

Table 7.21: Population of Tigers in different states of the IHR

State	1972	1979	1984	1989	1993	1997	2001-02**
Uttarakhand	-	-	-	-	-	-	251
Sikkim	-	-	2	4	2	*	NR
Arunachal Pradesh	69	139	219	135	180	*	61***
Mizoram	-	65	33	18	28	12	28
Meghalaya	32	35	125	34	53	*	47
Manipur	1	10	6	31	-	*	NR
Nagaland	80	102	104	104	83	*	23
Tripura	7	6	5	-	-	*	NR
Assam	147	300	376	376	325	458	354

NR: Not Reported by States, *: Tiger Census was not carried out in North East States in 1997,
 : Under vetting, *: Only for Namdapha Tiger Reserve

Source

Project Tiger, 2005, Ministry of Environment & Forests, Government of India

<http://projecttiger.nic.in/populationinindia.asp> (visited on August 13, 2010)

8. Minerals and Petroleum

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- 8.1 Value of Mineral Production(excluding Atomic Minerals) by different States of the IHR (2005-06 to 2007-08)
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Table 8.1: Value of Mineral Production(excluding Atomic Minerals) by different States of the IHR (2005-06 to 2007-08)

(In ₹ '000)

State	2005-06	2006-07	2007-08(P)
Jammu & Kashmir	250029	318135	310941
Himachal Pradesh	791442	934636	998073
Uttarakhand	588996	636712	644852
Sikkim	37258	13436	9050
Arunachal Pradesh	580803	603083	569663
Manipur	2866	2866	2866
Meghalaya	7561660	8109712	5707095
Mizoram	755	755	755
Nagaland	1774	1774	1774
Tripura	869018	1003907	10330787
Assam	31783281	31227608	31734365

P - Provisional

Source*Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India*

Table 8.2: Value of Mineral Production by Mineral Groups in different States of the IHR

(In ₹'000)

State	Fuel Minerals		Metallic minerals		Non-metallic minerals		Minor Minerals	
	2006-07	2007-08 (P)	2006-07	2007-08 (P)	2006-07	2007-08 (P)	2006-07	2007-08 (P)
Jammu & Kashmir	12000	13804	-	-	74272	65274	231863	231863
Himachal Pradesh					677467	740904	257169	257169
Uttarakhand					161558	169698	475154	475154
Sikkim			4386				9050	9050
Arunachal Pradesh	601560	568140	-	-	-		1523	1523
Manipur							2866	2866
Meghalaya	7638840	5292390	-	-	398797	342630	72075	72075
Mizoram	755	755	-	-	-	-	755	755
Nagaland	-	-	-	-	-	-	1744	1744
Tripura	998400	1025280					5507	5507
Assam	30824370	31315648			60685	76164	342553	342553

P - Provisional

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.3: Value of Minor Minerals in different States of the IHR (2004-05 to 2006-07)

(In ₹ '000)

State	2004-05	2005-06	2006-07 (P)
Jammu & Kashmir	284406	174715	231863
Himachal Pradesh	164500	164500	257169
Uttarakhand	317640	475154	475154
Sikkim	4279	33220	9050
Arunachal Pradesh	1523	1523	1523
Manipur	2866	2866	2866
Meghalaya	59129	72075	72075
Mizoram	755	755	755
Nagaland	1774	1774	1774
Tripura	2421	5018	5507
Assam	223678	342553	342553

P = Provisional

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.4: Gross Domestic Product* at Current Prices by different States of the IHR
(2005-06 to 2007-08)

(In ₹ '000)

States	2005-06	2006-07	2007-08 (P)
Jammu & Kashmir	223682	284956	277949
Himachal Pradesh	650630	797580	851423
Uttarakhand	571582	574083	577358
Sikkim	32737	11672	8145
Arunachal Pradesh	480146	498560	470939
Manipur	2579	2579	2579
Meghalaya	5692625	6061182	4257986
Mizoram	680	680	680
Nagaland	1596.6	1597	1597
Tripura	718612	830134	852350
Assam	26147246	25730712	26103803

P = Provisional

* Excluding the minerals declared as prescribed substances under the Atomic Energy Act, 1962.

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.5: Number of Reporting Mines* in some of the States of the IHR (2005-06 to 2007-08)

State	2005-06	2006-07	2007-08
Jammu & Kashmir	1	0	0
Himachal Pradesh	431	457	430
Uttarakhand	36	37	35
Sikkim	2	1	0
Meghalaya	37	33	27
Assam	9	9	11

* Excluding atomic minerals and minor minerals.

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.6: Existing Mining Leases in different States of the IHR (2004-05 to 2006-07)

State	2004-05		2005-06		2006-07	
	No.	Area (ha)	No.	Area (ha)	No.	Area (ha)
Jammu & Kashmir	19	730.35	19	730.35	21	739.92
Himachal Pradesh	60	1998.70	60	1999.55	59	1988.05
Uttarakhand	93	9424.33	67	3063.92	88	9290.11
Sikkim	4	86.00	4	102.06	4	102.6
Manipur	2	610.17	2	610.17	2	610.17
Meghalaya	14	1660.16	14	1660.16	18	1679.41
Assam	11	981.33	11	981.33	8	929.5

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.7: Exploration for Petroleum & Natural Gas (2006-07) by ONGC and OIL
different States of the IHR

Agency/ Location/ States	Seismic Survey		Drilling			
	2D (GL Km)	3D (sq. Km)	Exploratory		Development	
			Wells	Meterage	Wells	Meterage
ONGC						
Assam (Including Nagaland & Meghalaya)	251	232	6	25410	14	58419
Tripura	32	139	1	8502	3	7815
Himachal Pradesh	51	-	1	2819	-	-
OIL						
Assam & Arunachal Pradesh	357	923	6	34326	13	51739
NEF	57	-	-	-	-	-

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.8: Exploration for Petroleum & Natural Gas (2007-08) by ONGC and OIL in different States of the IHR

Agency/ Location/States	Seismic Survey		Drilling			
	2D (GL Km)	3D (sq. Km)	Exploratory		Development	
			Wells	Meterage	Wells	Meterage
ONGC						
Assam (Including Nagaland & Meghalaya)	198	435	11	43830	24	57624
Mizoram	109	-	-	-	-	-
Tripura	36	186	6	11230	1	2552
OIL						
Assam & Arunachal Pradesh	143	918	5	39930	15	69190

Source

Indian Mineral Year Book, 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

Table 8.9: Exploration (2006-07) for Coal by Various State Directorates of Geology & Mining in different States of the IHR

State / Region	Drilling	
	Boreholes	Meterage
Jammu & Kashmir		
Udhampur	0.1	120
Nagaland		
Tuensang	-	177
Mon	-	-
Wokha	-	-
Assam		
Karbi Angling	0.4	120

Source

Indian Mineral Year Book 2008, Indian Bureau of Mines, Ministry of Mines, Government of India.

9. Industry

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Table 9.1: Electricity: Installed Generation capacity (Utilities; in MW) by States of the IHR (as on 31st March)

State	1991	2001	2006	2007
Jammu & Kashmir	262	417	504	626
Himachal Pradesh	272	326	758	921
Uttarakhand	-	-	1020	1430
Sikkim	21	38	46	44
Manipur	12	13	51	51
Meghalaya	134	189	189	189
Nagaland	6	6	31	31
Tripura	53	85	149	148

Note – Separate Figure for Arunachal Pradesh is not available and has been pooled into category of 'Others' in the lists of Indian States.

Source

Central Electricity Authority, New Delhi

Quoted by - Ministry of Statistics and Programme Implementation, Government of India.

Table 9.2: State-wise Hydro Electric Power Potential Development

State	HE Power Potential Assessed At 60% Load Factor (MW)	HE Power Potential Development At 60% Load Factor (MW)	HE Power Potential Under Development At 60% Load Factor (MW)
Jammu & Kashmir	7487	515.00 (6.88)	401.93 (5.37)
Himachal Pradesh	11647	2545 (21.86)	893.62 (7.67)
Utarankhand	9341	831.68 (8.90)	1326.17 (14.20)
Sikkim	1283	52.50 (4.48)	121.07 (9.44)
Meghalaya	1070	121.67 (11.37)	23.58 (2.20)
Arunachal Pradesh	26756	122.67 (0.46)	491.83 (1.84)
Manipur	1176	71.67 (6.22)	0.00 (0.00)
Mizoram	1455	0.00 (0.00)	30.83 (2.12)
Nagaland	1040	81.83 (7.87)	0.00 (0.00)
Tripura	9	7.50 (88.33)	0.00 (0.00)
Assam	351	111.67 (31.81)	74.17 (21.13)

Source

Central Electricity Authority, HP&I Division.

Quoted by – Water Data Book, 2005, Central Water Commission, New Delhi

Table 9.3: State-wise Domestic and Foreign Tourist Visits in the IHR (2006)

State	Tourist Visits (numbers)		Percentage share (All India basis)		All India Rank	
	Domestic	Foreign	Domestic	Foreign	Domestic	Foreign
Jammu & Kashmir	7646274	46087	1.66	0.39	13	19
Himachal Pradesh	7671902	281569	1.66	2.40	12	11
Uttarakhand	16666525	85284	3.61	0.73	7	15
Sikkim	292486	18026	0.06	0.15	28	22
Arunachal Pradesh	80137	607	0.02	0.01	32	32
Manipur	116984	295	0.03	0.00	31	35
Meghalaya	401529	4287	0.09	0.04	25	27
Mizoram	50987	436	0.01	0.00	33	33
Nagaland	15850	426	0.00	0.00	35	34
Tripura	230645	3245	0.05	0.03	29	28

Source

Central Statistical Organization

Table 9.4: Some Information on the state of Industries in the IHR
(Values in ₹ Lakhs, others in Numbers)

Characteristics	Jammu & Kashmir	Himachal Pradesh	Uttarakhand	Nagaland	Manipur	Tripura	Meghalaya
Number of Factories	342	530	679	120	45	269	47
Fixed Capital	38189	571383	218176	2768	579	4966	10691
Working Capital	18704	157138	89458	2835	246	6340	7647
Invested Capital	66566	697916	416974	6449	804	11805	15674
Outstanding Loans	36405	467984	84016	3835	415	4831	6278
Number of Workers	21993	27636	27592	2356	1090	13105	1773
Total Persons Engaged	26952	36753	41561	2802	1231	14508	2228
Wages to Workers	8562	12261	23868	401	182	2008	496
Total Emoluments	12897	28170	46881	584	218	2701	919

Source

Central Statistical Organization

Table 9.5: State-wise Distribution of Working and Closed SSI Units in Various States of the IHR (registered SSI sector)

State	Number of Permanently Registered SSI Units	Working units		Closed Units	
		Number	%	Number	%
Jammu & Kashmir	39680	16699	30.2	22981	49.3
Himachal Pradesh	17432	11092	20.0	6340	13.6
Uttarakhand	27415	15907	28.7	11508	24.7
Sikkim	338	158	0.3	180	0.4
Arunachal Pradesh	579	361	0.7	218	0.5
Nagaland	698	503	0.9	195	0.4
Manipur	5778	4746	8.6	1032	2.2
Mizoram	4217	2890	5.2	1327	2.9
Tripura	2039	995	1.8	1044	2.2
Meghalaya	3768	2023	3.6	1745	3.7

Source

Central Statistical Organization

Table 9.6: Annual Survey of Industries: Employment and Value Added
(State-wise: Factory Sector; 2004-05)

State	Total Persons employed		Net value added by Factory Sector		
	Nos.	% to total country	₹ Mn.	% to total country	Rank
Assam	119548	1.41	37208	1.36	15
Himachal Pradesh	44287	0.52	21852	0.80	22
Jammu & Kashmir	31090	0.37	5760	0.21	25
Manipur	1835	0.02	58	0.00	31
Meghalaya	3037	0.04	921	0.03	28
Nagaland	2821	0.03	200	0.01	29
Tripura	15392	0.18	2312	0.08	27
Uttarakhand	51762	0.61	19480	0.71	23
West Bengal	517939	6.13	105489	3.86	9

Mn = Million

Source

Statistical Pocket Book India, 2008, 46th Edition, Central Statistical Organisation, New Delhi

10. Miscellaneous

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- 10.4 Number of Towns in different States of the IHR (2001)

Table 10.1: Seismic Zonation in different States of the IHR

States	Intensity MSK*	Seismic Zone
Jammu & Kashmir	VIII to IX or more	IV & V
Himachal Pradesh	VIII to IX or more	IV & V
Uttarakhand	IX or more	V
Sikkim	VIII	IV
Arunachal Pradesh	IX or more	V
Meghalaya	IX or more	V
Mizoram	IX or more	V
Manipur	IX or more	V
Nagaland	IX or more	V
Tripura	IX or more	V
Assam	IX or more	V

* Medvedev-Sponheuer-Karnik Scale, also known as the MSK or MSK-64, is a macroseismic intensity scale used to evaluate the severity of ground shaking on the basis of observed effects in an area of the earthquake occurrence.

Source

BIS Seismic Zone 2000. Note: West Bengal hills fall in Zone IV.

Table 10.2: Road and Rail Network (km) in different States of the IHR

States	Road (2004)		National Highway (2008)	Rail Route (2000-2001)
	Surfaced	Total		
Jammu & Kashmir	8962	21095	1245	96
Himachal Pradesh	17956	32582	1208	269
Uttarakhand	16783	58054	1991	356
Sikkim	1652	2063	62	-
Arunachal Pradesh	6062	15712	392	1
Meghalaya	6687	9701	810	-
Mizoram	2764	4898	927	2
Manipur	3839	12599	959	1
Nagaland	6570	20647	494	13
Tripura	9080	23856	400	45

Source

Road Transport Year Book (2009), Ministry of Road Transport & Highways (<http://www.dorth.gov.in>); Central Statistical Organization

Table 10.3: Average Area and Population Served per Post Office in different States of the IHR

Postal Circle	Average Area Served (in km ²)	Average Population Served
Jammu & Kashmir	135.57	4711
Himachal Pradesh	20.15	1849
Sikkim	34.80	2009
Arunachal Pradesh	284.69	2925
Meghalaya	46.37	3643
Mizoram	53.14	1738
Manipur	32.36	2656
Nagaland	51.56	3812
Tripura	14.62	3853

Data for Uttarakhand and hill regions of Assam and West Bengal are not available.

Source

Rajya Sabha Unstarred Question No. 3247 dated 25.04.2000

Table 10.4: Number of Towns in different States of the IHR (2001)

State	C.T.	C.B.	T.C.	M.C.	M.B.	M.Cl.	M	M.Corp.	N.P.	N.A.C.	Other towns	Total
Jammu & Kashmir	2	2	5	3	-	-	-	-	-	63	-	75
Himachal Pradesh	1	7	-	4	-	16	-	1	28	-	-	57
Uttarakhand	12	9	-	-	32	-	-	1	30	-	2	86
Sikkim	1	-	-	-	-	-	-	-	-	-	8	9
Arunachal Pradesh	17	-	-	-	-	-	-	-	-	-	-	17
Meghalaya	6	1	3	-	4	-	2	-	-	-	-	16
Tripura	10	-	-	-	-	1	-	-	12	-	-	23
Mizoram	21	-	-	-	-	-	-	-	-	-	1	22
Manipur	5	-	-	-	-	7	-	-	20	-	1	33
Nagaland	1	-	8	-	-	-	-	-	-	-	-	9
Assam Hills	-	-	9	-	-	-	-	-	-	-	-	9
W. Bengal Hills	-	-	-	-	-	-	3	1	-	1	4	9

C.T.: Census Town; C.B.: Cantonment Board/Cantonment; T.C.: Town Committee/Town Area Committee; M.: Municipality; M.B.: Municipal Board; M.C.: Municipal Committee; M.Cl.: Municipal Council; M. Corp.: Municipal Corporation; N.P.: Nagar Panchayat; N.A.C.: Notified Area Committee/Notified Area Council.

Source

Census of India 2001

