

8.27 UTTAR PRADESH

8.27.1 Introduction

The most populated State of the country, Uttar Pradesh has an area of 24.09 million ha, which constitutes 7.3% of the country's geographic area. It lies between lat 23°52' and 30°24' N and long 77°05' and 84°38'E sharing international border with Nepal. The major rivers of the State are Ganga, Yamuna, Ramganga, Gomti and Ghaghara. The State can be divided into two physiographic zones namely, the Southern hill plateau and the vast alluvial Gangetic plains.

Climate of the State is hot and humid with temperatures ranging from 5°C during winter to 45°C in summer. Annual rainfall ranges from 1,000 mm to 1,200 mm.

The population of the State is 166.20 million (*Census 2001*) constituting 16.16 % of country's population of which 79.22% is rural and 20.78% urban. Population density is 690 persons per km². Population of the Scheduled Tribes in the State is negligible. The livestock population of the State is 58.53 million (*Livestock Census 2003*), which is largest in the country and constitutes nearly 12% of the country's total.

Land use pattern of the State is given in Table 8.27a.

8.27.2 Forest Resources

Uttar Pradesh is deficient in natural forest resource. The recorded forest area of the State is 16,796 km², which

constitutes 6.97% of its geographic area. By legal status, Reserved Forest constitutes 65.83%, Protected Forest constitute, 14.14%, and Unclassed Forest constitute, 19.74%. The vast Indo-Gangetic plains of the State are devoid of forests.

Major forest types occurring in the State are Tropical Moist Deciduous, Tropical Dry Deciduous, and Thorn Forests. Forests are largely found in the northern, northeastern and the southern regions of the State. Sal is the major species found in the forests.

8.27.3 Protected Areas

The State has one National Park and 23 Wildlife Sanctuaries covering an area of 0.57 million ha, which constitutes 2.36% of its geographic area. The oldest Wild Life Sanctuary of the country, the Chandraprabha Wild Life Sanctuary is located in Uttar Pradesh. Uttar Pradesh has one Tiger Reserve namely, Dudhwa-Katerniaghat (extension).

8.27.4 Joint Forest Management

Joint forest management was initiated in the State in 1992. There are 1,892 JFM Committees managing about 80,000 ha of forest area as on March 2005. More than 0.8 million families are involved in this Programme, of which around 83,000 families belong to the Scheduled Tribes.

Source: Proceedings of the National Workshop on JFM, MoEF, 2005.

Table 8.27a: Land use pattern

Land Use	Area in '000 ha	Percentage
Total Geographic Area	24,093	
Reporting area for land utilization	24,417	100.00
Forests	1,689	6.92
Not available for land cultivation	3,129	12.81
Permanent pastures and other grazing lands	69	0.28
Land under misc. tree crops and groves	342	1.40
Culturable Wastelands	500	2.05
Fallow land other than current fallows	630	2.58
Current fallows	1,247	5.11
Net area sown	1,6812	68.85

Source: Land Use Statistics, Ministry of Agriculture, GOI, 2005

8.27.5 Forest Cover

The forest cover of the State, based on satellite data of October-December 2004, is 14,127 km², which is 5.86% of the geographic area. Very dense forest is 1,297 km², moderately dense forest, 4,682 km², and open forest, 8,148 km². The forest cover of the State is shown in Fig.8.27.

There is no change in forest cover and its density in the State as compared to the previous assessment (based on satellite data of November-December 2002), hence no change matrix is given.

The district wise details of very dense forest, moderately dense forest, open forest and scrub, along with the changes compared to 2003 assessment, have been provided in Table 8.27b.

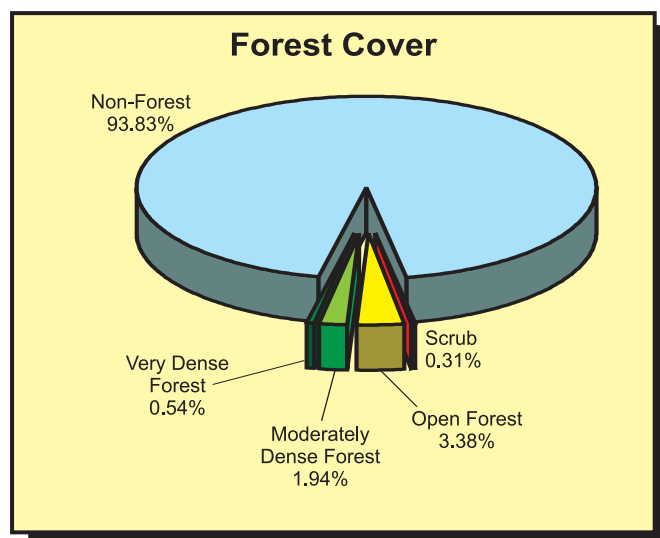


Fig. 8.27 : Forest Cover Map of Uttar Pradesh

Table 8.27b: District-wise forest cover

Number of Districts:70

(area in km²)

District	Geographic area	2005 Assessment				Percent of G.A.	Change	Scrub
		Very dense forest	Mod. dense forest	Open forest	Total			
Agra	4,027	0	74	199	273	6.78	0	71
Aligarh	3,650	0	6	49	55	1.51	0	1
Allahabad	5,137	0	28	69	97	1.89	0	25
Ambedkar Nagar	2,337	0	2	32	34	1.45	0	0
Azamgarh	4,234	0	1	30	31	0.73	0	0
Bagpat	1,321	0	4	12	16	1.21	0	0
Bahraich & Shravasti	6,878	210	294	347	851	12.37	0	5
Balia	3,349	0	0	23	23	0.69	0	0
Balrampur	2,981	144	253	135	532	17.85	0	4
Banda	4,532	0	27	76	103	2.27	0	29
Barabanki	4,402	0	4	82	86	1.95	0	2
Bareilly	4,120	0	7	36	43	1.04	0	0
Basti	2,688	0	6	12	18	0.67	0	0
Bijnore	4,561	42	252	129	423	9.27	0	3
Badaun	5,168	0	13	29	42	0.81	0	7
Bulandshahar	2,910	0	31	85	116	3.99	0	0
Chandauli	2,549	2	190	327	519	20.36	0	2
Chitrakoot	3,092	0	346	208	554	17.92	0	14
Deoria	2,538	0	1	16	17	0.67	0	0
Etah	4,446	0	8	81	89	2.00	0	0
Etawa	2,311	0	46	139	185	8.01	0	37
Faizabad	2,174	0	5	51	56	2.58	0	0
Farrukhabad	2,181	0	13	32	45	2.06	0	0
Fatehpur	4,152	0	6	36	42	1.01	0	13
Firozabad	2,361	0	5	39	44	1.86	0	28
Gautam Buddha Nagar	1,442	0	12	23	35	2.43	0	0
Ghaziabad	2,590	0	17	31	48	1.85	0	0
Ghazipur	3,377	0	4	43	47	1.39	0	0
Gonda	4,003	1	59	47	107	2.67	0	0
Gorakhpur	3,321	0	40	25	65	1.96	0	0
Hamirpur	4,282	0	67	111	178	4.16	0	38
Hardoi	5,986	0	7	118	125	2.09	0	0
Hathras	1,840	0	1	24	25	1.36	0	0
Jyotiba Phule Nagar	2,249	0	20	62	82	3.65	0	0
Jalaun	4,565	0	68	179	247	5.41	0	49
Jaunpur	4,038	0	13	42	55	1.36	0	0
Jhansi	5,024	0	34	168	202	4.02	0	119
Kannauj	2,093	0	0	29	29	1.39	0	0
Kanpur Nagar & Dehat	6,176	0	16	97	113	1.83	0	38
Kaushambi	2,124	0	9	22	31	1.46	0	0

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District	Geographic area	2005 Assessment				Percent of G.A.	Change	Scrub
		Very dense forest	Mod. dense forest	Open forest	Total			
Kheri ^T	7,680	366	502	446	1,314	17.11	0	5
Kushinagar	2,906	0	4	30	34	1.17	0	0
Lalitpur	5,039	0	146	426	572	11.35	0	42
Lucknow	2,528	0	115	183	298	11.79	0	0
Maharajganj	2,952	202	141	118	461	15.62	0	0
Mahoba	2,884	0	20	74	94	3.26	0	95
Mainpuri	2,760	0	1	15	16	0.58	0	0
Mathura	3,340	0	7	54	61	1.83	0	8
Mau	1,713	0	1	17	18	1.05	0	0
Meerut	2,590	0	30	32	62	2.39	0	0
Mirzapur	4,521	0	316	466	782	17.30	0	48
Moradabad	3,718	0	4	21	25	0.67	0	0
Muzaffarnagar	4,008	0	13	27	40	1.00	0	0
Oraiya	2,015	0	10	59	69	3.42	0	9
Pilibhit	3,499	290	204	203	697	19.92	0	0
Pratapgarh	3,717	0	28	67	95	2.56	0	1
Rai Bareli	4,609	0	6	91	97	2.10	0	1
Rampur	2,367	3	20	52	75	3.17	0	0
Saharanpur	3,689	0	147	224	371	10.06	0	0
Sant Kabir Nagar	1,646	0	0	2	2	0.12	0	0
Sant Ravidas Nagar	1,015	0	0	1	1	0.10	0	0
Shahjahanpur	4,575	20	54	44	118	2.58	0	1
Siddharth Nagar	2,895	0	10	29	39	1.35	0	0
Sitapur	5,743	0	15	201	216	3.76	0	2
Sonbhadra	6,788	17	846	1,606	2,469	36.37	0	41
Sultanpur	4,436	0	18	157	175	3.94	0	0
Unnao	4,558	0	34	197	231	5.07	0	0
Varanasi	1,528	0	1	11	12	0.79	0	0
Total	240,928	1,297	4,682	8,148	14,127	5.86	0	738

8.27.6 Tree Cover

Tree cover of Uttar Pradesh has been estimated following a sampling based approach. A separate exercise was carried out where high resolution satellite data (5.8m) has been used for identification of tree patches for field inventory.

Field inventory has been carried out on 1,747 sample plots spread over 10 districts of the State between 2002-06 and the estimated tree cover in the State is 8,203 km².

The forest and tree cover of the State is presented in the Table 8.27c.

Table 8.27c: Forest & tree cover

(area in km²)

Category	Area	% of Geographical Area
Tree Cover	8203	3.40
Forest Cover	14,127	5.86
Forest & Tree Cover	22,330	9.26