

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

ORIGINAL APPLICATION NO. 555/2024

IN THE MATTER OF:

NEWS ITEM TITLED "INDIA LOST 2.33 MILLION HECTARES OF TREE COVER SINCE 2000 GLOBAL FOREST WATCH" APPEARING IN THE INDIAN EXPRESS DATE 13.04.2024

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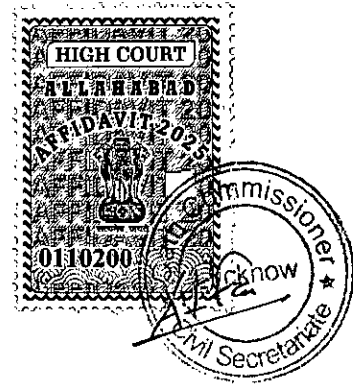
THROUGH COUNSEL

B. Singh
BHANWAR PAL SINGH JADON
STANDING COUNSEL FOR THE STATE OF U.P.

bhanwar09jadon@gmail.com | 6375115224

DATE: 06.08.2025

PLACE: NOIDA



**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

ORIGINAL APPLICATION NO. 555/2024

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NEWS ITEM TITLED "INDIA LOST 2.33 MILLION HECTARES OF TREE COVER SINCE 2000 GLOBAL FOREST WATCH" APPEARING IN THE INDIAN EXPRESS DATE 13.04.2024

AFFIDAVIT ON BEHALF OF RESPONDENT NO. 30 IN COMPLIANCE OF ORDER DATED 09.05.2025 PASSED BY THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH, NEW DELHI

I, Sushant Sharma, aged about 54 years, S/o Late Hari Chand, posted as Secretary, Environment, Forest and Climate Change, Department, State of U.P., do hereby most solemnly state and affirm as under:

1. That I am fully conversant with the facts of the case and am competent and authorized to swear the present Affidavit.

2. That the present matter is registered *suo-motu* on the basis of the news item titled "India lost 2.33 million hectares of tree cover since 2000 Global Forest Watch" appearing in The Indian Express date 13.04.2024. The above-



captioned matter pertains to the loss of 2.33 million hectares of tree cover since 2000 in India, equivalent to a six per cent decrease in tree cover during this period.

3. That the Hon'ble Tribunal vide order dated 09.05.2025 issued the directions as stated below:

"...24. Replies by newly substituted Respondent No. 13 and newly added Respondents no. 41 and 42 and the Respondents, who have not filed replies so far, be also filed at least one week before the next date of hearing hereby fixed..."

4. That as per the directions issued by the Hon'ble Tribunal vide order dated 18.11.2024, the submissions are as stated below:

A copy of the report by the State of UP is annexed herewith and marked as **ANNEXURE-1.**

- i. **4. The news item further elaborates that forests are both a sink and a source for carbon, removing carbon dioxide from the air when standing or regrowing and emitting it when cleared or degraded. Loss of forests, thus, accelerates climate change. Tree cover loss is**



not always deforestation, which typically refers to human-caused, permanent removal of natural forest cover. It includes both human-caused loss and natural disturbances. Examples of tree cover loss that may not meet the definition of deforestation include loss from logging, fire, disease or storm damage. The data showed that 95 per cent of the tree cover loss in India from 2013 to 2023 occurred within natural forests.

As per State of Forest Reports of the Forest Survey of India (FSI), Tree Cover in Uttar Pradesh has increased from 6,895 sq. km in 2013 (2.86% of Total Geographical area) to 8950.92 sq. km in 2023 (3.71% of Total Geographical area). Furthermore, it is humbly submitted that the Forest Cover in Uttar Pradesh has increased from 14,349 sq km (5.96% of Total Geographical area) in 2013 to 15,045.80 sq km (6.24% of Total Geographical area) in 2023.

A copy of the reports by FSI is annexed herewith and marked as

ANNEXURE-2.



- ii. **14. Having also considered the issue that loss of trees is Pan India and therefore individual States and Union Territories should also**

submit their reports with regard to such loss of trees and the reason therefore addressing relevant issues i.e. status of forest as on date, factor responsible for loss and action taken report for conservation and management of forest, we accordingly implead all States and Union Territories as respondent 5 to 40 through Secretary, Environment, Forest and Climate Change:-

The status of forests as on date in the State of Uttar Pradesh, total Forest and Tree Cover which was 21,291 sq km (8.84% of Total Geographical area) in 2001 has increased to 23,996.72 sq km (9.96% of Total Geographical area) in 2023.

5. That the State of Uttar Pradesh undertakes continuous monitoring of illegal tree felling activities and ensures that stringent action is initiated against the offenders in accordance with law. Furthermore, the State diligently maintains comprehensive records pertaining to all 14 designated zones within its jurisdiction.

A copy of the data maintained of the felling of trees in each zone is annexed herewith and marked as **ANNEXURE-3**.



6. Hence, the present affidavit is being filed for the kind consideration and perusal of this Hon'ble Tribunal.
7. I state that everything stated above has been stated by me in my official capacity on and derived from the approved instructions dated 05.02.2025 and I state that nothing material has been concealed therefrom.


DEPONENT

VERIFICATION

Verified at LUCKNOW on this 06 day of August, 2025, that the contents of the above affidavit from paragraphs 1 to 7 are believed to be true and correct to the best of my knowledge and belief. No part of it is false and nothing material has been concealed therefrom.

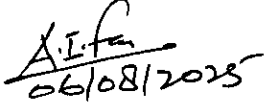



DEPONENT

कृपण सं० 0110200
द्वारा शपथ की गई श्री सुभाष शर्मा सचिव पर्यावरण वन एवं जलवायु परिवर्तन विभाग
जिनका परिचय श्री कृष्ण प्रकाश प्रभारी अनुभाग अधिकारी
दिनांक 06/08/25 समय 3.10 P.M.
वाद संख्या 555/2024
पक्षकार News Item titled Vs Union of India and ors.
न्यायालय मा० राष्ट्रीय हरित अधिकरण नई दिल्ली
की फीस वसूल गई युं


I IDENTIFY THE DEPONENT
WHO HAS SIGNED BEFORE

कृष्ण प्रकाश प्रभारी अनुभाग अधिकारी


06/08/2025
अफजल इमाम फारूक
शपथ-आयुक्त एवं अनुभाग अधिकारी
न्याय अनुभाग-4
संयुक्त शासन।

ANNEXURE-1


मा० राष्ट्रीय हरित अधिकरण, नई दिल्ली में दायर Original Application No. 555/2024 News item titled "Indian lost 2.33 million hectares of trees cover since 2000 Global Forest Watch" appearing in the Indian Express date 13.04.2024 vs. Union of India and Ors. में मा० एन०जी०टी० के आदेश दिनांक 18.11.2024 के पैरा 4 व 14 पर आख्या:-

1. पैरा 4 : The news item further elaborates that forests are both a sink and source for carbon, removing carbon dioxide from the air when standing or regrowing and emitting it when cleared or degraded. Loss of forests, thus, accelerates climate change. Tree cover loss is not always deforestation, which typically refers to human-caused, permanent removal of natural forest cover. It includes both human-caused loss and natural disturbances. Examples of tree cover loss that may not meet the definition of deforestation include loss from logging, fire, disease or storm damage. The data showed that 95 per cent of the tree cover loss in India from 2013 to 2023 occurred within natural forests.

आख्या : As per State of Forest Reports of Forest Survey Of India (FSI), Tree Cover in Uttar Pradesh has increased from 6,895 sq km (2.86 % of Total Geographical area) in 2013 to 8950.92 sq km (3.71 % of Total Geographical area) in 2023. Moreover Forest Cover in Uttar Pradesh has increased from 14,349 sq km (5.96 % of Total Geographical area) in 2013 to 15,045.80 sq km (6.24 % of Total Geographical area) in 2023

2. पैरा 14 : Having also considered the issue that loss of trees is Pan India and therefore individual States and Union Territories should also submit their reports with regard to such loss of trees and the reason therefore addressing relevant issues i.e. status of forests as on date, factor responsible for loss and action taken report for conservation and management of forest, we accordingly implead all States and Union Territories as respondent 5 to 40 through Secretary, Environment, Forest and Climate Change


आख्या : Status of forests as on date— In the State of Uttar Pradesh, total Forest and Tree Cover which was 21,291 sq km (8.84 % of Total Geographical area) in 2001 has increased to 23,996.72 sq-km (9.96 % of Total Geographical area) in 2023.


(श्रीपंक कुमार)
अपर प्रधान मुख्य वन संरक्षक
योजना एवं कृषि वानिकी,
उ० प्र०, लखनऊ।

मा० राष्ट्रीय हरित अधिकरण, नई दिल्ली में दायर Original Application No. 555/2024 News item titled "Indian lost 2.33 million hectares of trees cover since 2000 Global Forest Watch" appearing in the Indian Express date 13.04.2024 vs. Union of India and Ors. में मा० एन०जी०टी० के आदेश दिनांक 29.01.2025 के पैरा 8 पर आख्या:-

पैरा 8 : Responses/reports by the remaining respondents with complete information regarding Forest Cover, Tree etc for the period from Year 2001 to 2021

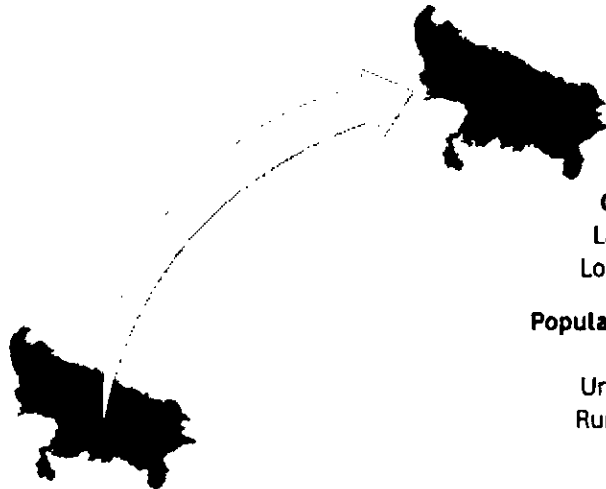
आख्या : Forest Cover and Tree Cover data is provided by Forest Survey Of India (FSI) through State of Forest Reports published every two years. In the State of Uttar Pradesh, total Forest and Tree Cover which was 21,291 sq km (8.84 % of Total Geographical area) in 2001 has increased to 22,238.89 sq km (9.23 % of Total Geographical area) in 2021.



(दीपक कुमार)
अपर प्रधान मुख्य वन संरक्षक
योजना एवं कृषि यानिकी,
उ० प्र०, लखनऊ।

10.27

UTTAR PRADESH



Geographical Area
2,40,928 km²

Geographical Coordinates
Latitude 23°52' N to 31°28' N
Longitude 77°30' E to 84°39' E

Population (as per Census 2011)
199.81 million
Urban 44.50 million (22.27 %)
Rural 155.31 million (77.73 %)
Tribal 1.13 million (0.57 %)

Average Population Density
829 per km²

Livestock Population
(as per 19th Livestock Census)
68.71 million

No. of Districts
75

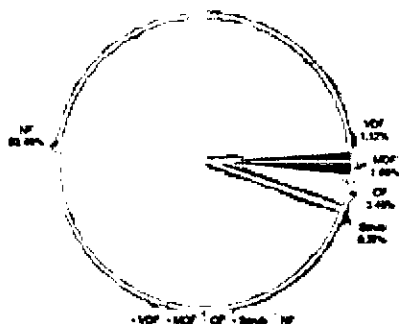
No. of Hill Districts
0

No. of Tribal Districts
1

Table 10.27.1 Land Use Pattern

Land Use Types	Area (in '000 ha)	Percentage
Geographical Area	24,093	
Reporting area for land utilization	23,513.81	100.00
Forests	1,772.24	7.54
Not available for land cultivation	3,407.16	14.49
Permanent pastures and other grazing lands	70.15	0.30
Land under misc. tree crops and groves	237.25	1.01
Culturable wasteland	369.07	1.57
Fallow land other than current fallows	595.54	2.53
Current fallows	966.49	4.11
Net area sown	16,095.91	68.45

Source: Land Use Statistics, Ministry of Agriculture and Farmer's Welfare, GOI, (2021-22).

10.27.1 Forest Cover**Table 10.27.2 Forest Cover of Uttar Pradesh**

(km ²)		
Class	Area	% of Calculated Area by Sol
VDF	2,688.73	1.12
MDF	4,001.41	1.66
OF	8,355.66	3.46
Total	15,045.80	6.24
Scrub	639.51	0.27

Figure 10.27.1 Forest Cover of Uttar Pradesh**Table 10.27.3 District-wise Forest Cover in Uttar Pradesh**

District	Calculated Area by Sol	2023 Assessment (km ²)				% of Calculated Area by Sol	Change w.r.t. 2021 Raster based*	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Agra	4,027.03	0.00	67.62	207.11	274.73	6.82	12.90	63.42
Aligarh	3,650.25	0.00	6.77	52.86	59.63	1.63	-5.19	1.08
Ambedkar Nagar	2,350.00	0.00	1.29	43.19	44.48	1.89	3.39	0.51
Amethi	3,060.00	4.57	3.12	64.80	72.49	2.37	2.21	0.01
Amroha/ Jyotiba Phule Nagar	2,408.56	0.00	34.64	92.14	126.78	5.26	31.44	1.94
Auraiya	2,016.00	0.00	5.08	40.74	45.82	2.27	1.69	13.09
Ayodhya/ Faizabad	2,341.00	6.86	12.49	87.07	106.42	4.55	4.33	0.80
Azamgarh	4,054.00	0.00	1.09	46.10	47.19	1.16	-1.56	0.00
Baghpat	1,321.38	0.00	3.52	11.96	15.48	1.17	-0.32	0.00
Bahraich	5,237.00	223.69	149.17	158.55	531.41	10.15	1.65	4.27
Ballia	2,981.00	0.00	0.14	20.90	21.04	0.71	-3.45	0.00
Balrampur	3,349.00	293.49	155.24	106.92	555.65	16.59	11.04	7.58
Banda	4,408.00	0.00	50.92	50.41	101.33	2.30	-2.69	2.05
Bara Banki	4,402.00	3.58	5.71	94.70	103.99	2.36	1.99	3.98
Bareilly	4,120.43	0.00	6.83	32.24	39.07	0.95	-5.44	0.00
Basti	2,688.00	0.15	5.14	33.62	38.91	1.45	8.02	0.04
Bhadohi/ Sant Ravidas Nagar	1,015.00	0.00	0.28	4.94	5.22	0.51	0.00	0.00
Bijnor	4,561.15	38.65	212.03	167.31	417.99	9.16	13.53	5.49
Budaun	4,378.05	0.00	4.75	23.15	27.90	0.64	-2.81	6.36
Bulandshahr	3,431.04	0.00	42.61	98.92	141.53	4.12	5.71	0.13
Chandauli	2,541.00	7.69	183.17	358.64	549.50	21.63	-0.81	1.85
Chitrakoot	3,216.00	80.53	314.81	241.22	636.56	19.79	5.86	33.12
Deoria	2,540.00	0.00	1.13	19.19	20.32	0.80	4.78	0.00
Etah	2,490.43	0.00	0.35	20.47	20.82	0.84	-3.15	0.08
Etawah	2,310.58	0.00	63.20	223.59	286.79	12.41	28.84	43.97
Farrukhabad	2,181.07	0.00	14.05	36.44	50.49	2.31	0.71	1.63
Fatehpur	4,169.00	0.00	19.24	37.77	57.01	1.37	-0.05	2.38
Firozabad	2,360.82	0.00	4.44	56.53	60.97	2.58	2.12	24.10

UTTAR PRADESH



Table 10.27.3 District-wise Forest Cover in Uttar Pradesh

District	Calculated Area by Sol	2023 Assessment				% of Calculated Area by Sol	Change w.r.t. 2021 Raster based*	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Gautam Buddha Nagar	1,441.86	0.00	4.45	18.32	22.77	1.58	-0.05	0.00
Ghaziabad	891.61	0.00	7.90	13.12	21.02	2.36	0.03	0.00
Ghazipur	3,377.00	0.00	0.58	23.77	24.35	0.72	-3.86	0.00
Gonda	4,003.00	64.93	9.03	52.97	126.93	3.17	1.29	0.46
Gorakhpur	3,321.00	27.98	21.60	24.91	74.49	2.24	-2.41	0.00
Hamirpur	4,021.00	0.00	77.21	145.97	223.18	5.55	1.66	14.15
Hapur	1,106.67	0.00	6.72	21.09	27.81	2.51	5.72	1.17
Hardoi	5,985.66	0.00	15.62	129.58	145.20	2.43	-1.18	9.36
Hathras/ Mahamaya Nagar	1,840.49	0.00	0.58	21.51	22.09	1.20	-4.15	0.20
Jalaun	4,565.00	0.00	60.66	195.83	256.49	5.62	6.41	53.03
Jaunpur	4,038.00	0.00	10.06	53.94	64.00	1.58	-6.75	0.31
Jhansi	5,024.00	0.00	57.11	284.21	341.32	6.79	34.79	66.79
Kannauj	2,092.87	0.00	0.00	25.61	25.61	1.22	-2.73	0.25
Kanpur Dehat	3,021.00	0.00	3.05	44.01	47.06	1.56	-24.70	16.18
Kanpur Nagar	3,155.00	0.00	8.53	61.59	70.12	2.22	25.29	3.39
Kasganj/ Kanshiram Nagar	1,955.28	0.00	5.37	36.60	41.97	2.15	-10.11	0.11
Kaushambi	1,779.00	0.00	4.35	29.15	33.50	1.88	1.15	0.00
Kheri	7,680.44	805.14	157.70	271.29	1,234.13	16.07	-27.66	8.22
Kushinagar	2,905.00	0.07	2.97	32.13	35.17	1.21	-0.93	0.00
Lalitpur	5,039.00	0.00	127.26	449.79	577.05	11.45	0.00	33.24
Lucknow	2,528.00	0.00	161.18	240.08	401.26	15.87	2.62	8.09
Mahoba	3,144.00	0.00	21.22	151.03	172.25	5.48	2.84	60.55
Mahrajganj	2,952.00	262.28	92.72	71.17	426.17	14.44	-0.66	0.32
Mainpuri	2,760.04	0.00	0.19	17.23	17.42	0.63	1.47	0.00
Mathura	3,339.64	0.00	3.90	49.44	53.34	1.60	-2.15	3.11
Mau	1,713.00	0.00	0.23	11.14	11.37	0.66	0.00	0.00
Meerut	2,500.86	0.00	34.59	56.74	91.33	3.65	5.22	0.00
Mirzapur	4,405.00	8.38	278.51	450.02	736.91	16.73	-2.00	46.59
Moradabad	2,009.40	0.00	3.50	14.23	17.73	0.88	0.82	0.12
Muzaffarnagar	2,750.86	0.00	8.43	45.63	54.06	1.97	5.16	2.71
Pilibhit	3,498.90	486.20	81.75	105.89	673.84	19.26	-21.61	9.92
Pratapgarh	3,717.00	0.00	26.94	97.29	124.23	3.34	0.56	1.63
Prayagraj/ Allahabad	5,482.00	6.28	25.01	134.94	166.23	3.03	4.94	26.67
Raebareli	3,289.00	0.00	2.72	87.10	89.82	2.73	3.80	3.65
Rampur	2,366.58	3.89	24.61	40.49	68.99	2.92	-3.83	0.00
Saharanpur	3,688.96	0.00	182.13	342.87	525.00	14.23	9.07	0.81
Sambhal	2,497.95	0.00	0.74	11.73	12.47	0.50	2.79	0.00
Sant Kabir Nagar	1,646.00	0.00	1.16	12.97	14.13	0.86	0.00	1.17
Shahjahanpur	4,575.24	26.15	5.47	28.77	60.39	1.32	2.25	0.79
Shamli	1,257.46	0.00	3.96	20.43	24.39	1.94	1.54	1.21
Shravasti	1,640.00	197.72	99.29	46.56	343.57	20.95	2.29	0.27

**Table 10.27.3 District- wise Forest Cover in Uttar Pradesh**

District	Calculated Area by Sol	2023 Assessment				% of Calculated Area by Sol	Change w.r.t. 2021 Raster based*	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Siddharthnagar	2,895.00	0.00	11.04	38.65	49.69	1.72	2.61	0.13
Sitapur	5,743.00	0.00	18.77	182.40	201.17	3.50	-1.20	4.62
Sonbhadra	6,905.00	140.50	927.26	1,340.11	2,407.87	34.87	0.66	42.12
Sultanpur	2,679.00	0.00	6.65	130.87	137.52	5.13	-7.55	0.03
Unnao	4,558.00	0.00	28.32	246.06	274.38	6.02	2.24	0.26
Varanasi	1,535.00	0.00	1.54	14.95	16.49	1.07	0.00	0.00
Grand Total	2,40,927.56	2,688.73	4,001.41	8,355.66	15,045.80	6.24	118.43	639.51

*Area figure calculated without normalization factor.

10.27.2 Forest Cover Inside and Outside Recorded Forest Area (or Green Wash)

The Forest Cover inside and outside Recorded Forest Area (RFA) has been analysed in different categories and presented in table given below.

Table 10.27.4 Forest Cover Inside and Outside Recorded Forest Area (or Green Wash) in Uttar Pradesh

Forest Cover Inside the Recorded Forest Area (or Green Wash)				Forest Cover Outside the Recorded Forest Area (or Green Wash)			
VDF	MDF	OF	Total	VDF	MDF	OF	Total
2,537.81	3,041.49	3,759.46	9,338.76	150.92	959.92	4,596.20	5,707.04
27.17%	32.57%	40.26%		2.64%	16.82%	80.54%	

*In case of Uttar Pradesh, Green Wash boundaries have been used.

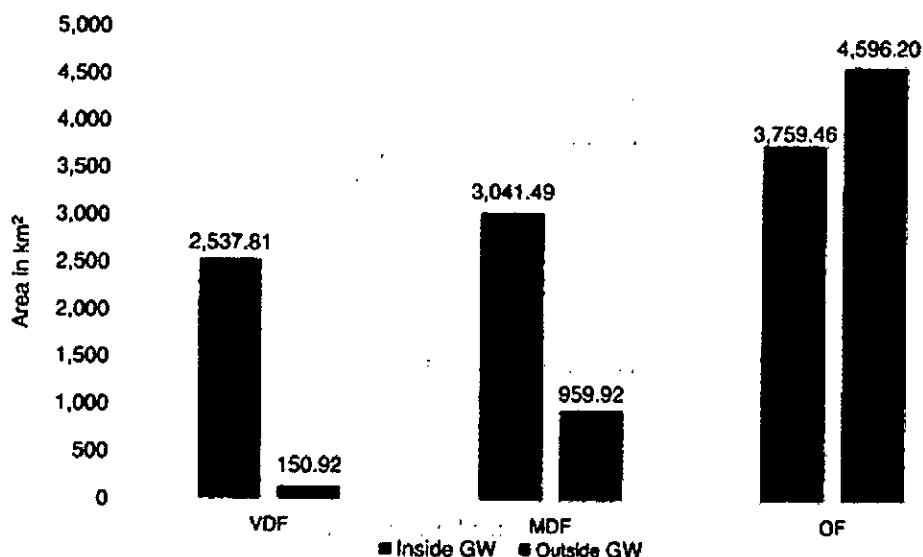
**Figure 10.27.2 Forest Cover Inside and Outside of Green Wash in Uttar Pradesh**



Table 10.27.5 Forest Cover change matrix inside RFA/GW for Uttar Pradesh between 2021 Raster based and 2023 Assessments

Class	2023 Assessment inside RFA/GW					Total ISFR 2021 inside RFA / GW Raster based*
	VDF	MDF	OF	Scrub	NF	
VDF	2,432.96	48.14	6.70	0.06	16.70	2,504.56
MDF	87.34	2,737.58	178.00	1.19	45.85	3,049.96
OF	8.36	213.10	3,322.28	27.28	174.06	3,745.08
Scrub	0.02	1.50	64.34	217.96	25.59	309.41
NF	9.13	41.17	188.14	64.48	3,495.66	3,798.58
Total ISFR 2023 inside RFA /GW	2,537.81	3,041.49	3,759.46	310.97	3,757.86	13,407.59
Net Change	33.25	-8.47	14.38	1.56	-40.72	

*Area figure calculated without normalization factor.

Table 10.27.6 Forest Cover change matrix outside RFA/GW for Uttar Pradesh between 2021 Raster based and 2023 Assessments

Class	2023 Assessment outside RFA/GW					Total ISFR 2021 outside RFA / GW Raster based*
	VDF	MDF	OF	Scrub	NF	
VDF	138.87	4.04	1.50	0.01	6.31	150.73
MDF	5.20	810.80	50.19	0.37	79.01	945.57
OF	1.75	73.92	3,529.21	14.84	911.75	4,531.47
Scrub	0.01	2.23	39.05	191.91	37.68	270.88
NF	5.09	68.93	976.25	121.41	2,20,449.64	2,21,621.32
Total ISFR 2023 outside RFA/GW	150.92	959.92	4,596.20	328.54	2,21,484.39	2,27,519.97
Net Change	0.19	14.35	64.73	57.66	-136.93	

*Area figure calculated without normalization factor.

Table 10.27.7 Altitude-Wise Forest Cover in Uttar Pradesh

Altitude Zone (m)	Calculated Area by Sol						Scrub
		VDF	MDF	OF	Total		
0-500	2,40,457.56	2,688.73	3,823.24	8,049.64	14,561.61	639.03	
500-1000	470.00	0.00	178.17	306.02	484.19	0.48	
Total	2,40,927.56	2,688.73	4,001.41	8,355.66	15,045.80	639.51	

(based on SRTM, Digital Elevation Model, 30 m, 2016).



Table 10.27.8 Forest Cover in different slope classes in Uttar Pradesh

(km ²)						
Slope (in degrees)	Calculated Area by Sol	VDF	MDF	OF	Total	Scrub
0-5	2,35,258.57	2,456.92	3,079.70	7,324.53	12,861.15	558.32
5-10	4,404.99	161.35	488.60	634.40	1,284.35	58.45
10-15	730.00	40.94	215.20	207.26	463.40	14.00
15-20	300.00	15.93	113.79	103.97	233.69	5.68
20-25	143.00	8.13	61.63	51.63	121.39	2.23
25-30	60.00	3.89	27.93	21.75	53.57	0.67
>30	31.00	1.57	14.56	12.12	28.25	0.16
Total	2,40,927.56	2,688.73	4,001.41	8,355.66	15,045.80	639.51

(based on SRTM, Digital Elevation Model, 30 m, 2016).

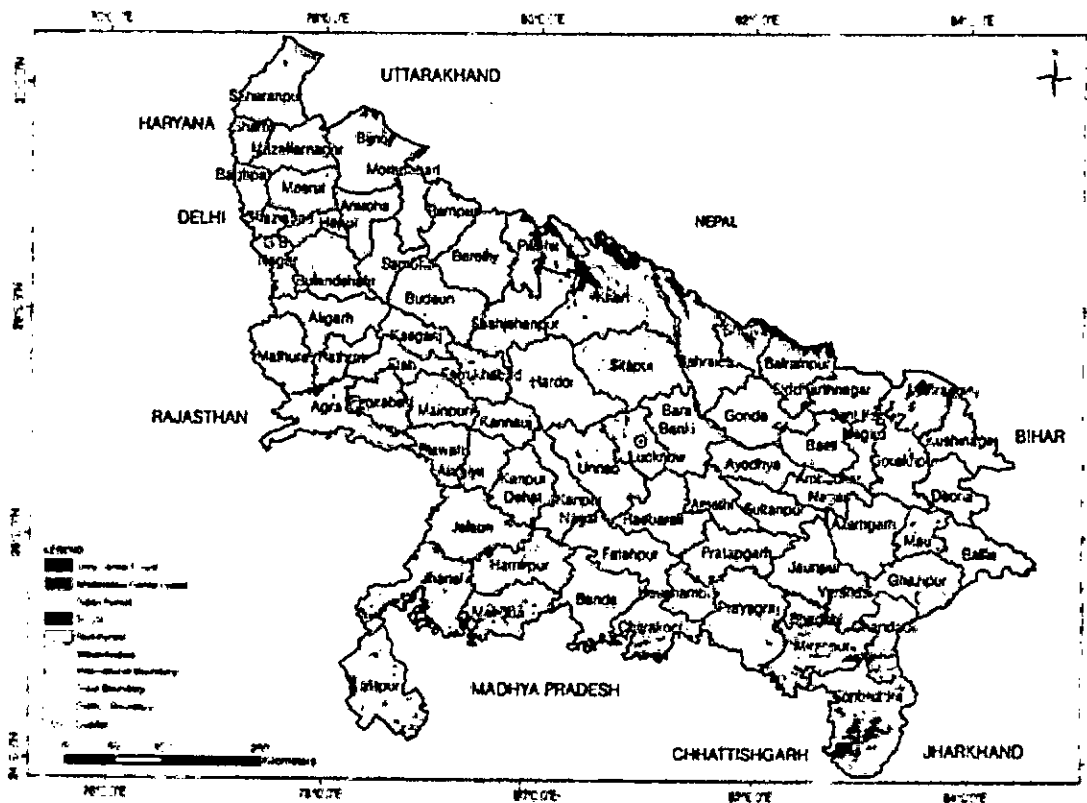


Figure 10.27.3 Forest Cover Map of Uttar Pradesh



10.27.3 Forest Types

The area under different Forest Types in Uttar Pradesh (as per the Champion & Seth Forest Classification, 1968) based on the Forest Cover Map (FCM), ISFR-2023, is presented in the following table.

Table 10.27.9 Area statistics of the Forest Types found in Uttar Pradesh

(km ²)			
Sl. No.	Forest Type	Area	% of the total mapped area*
1	2/E1 Cane brakes	20.01	0.13
2	3C/C2d (i) Western light alluvium plains sal	1,540.00	9.76
3	3C/C2d (iii) Eastern heavy alluvium plains sal	650.62	4.12
4	3C/C3a West Gangetic moist mixed deciduous forest	408.46	2.59
5	3C/C3/2S1 Northern Secondary moist mixed deciduous forest	345.16	2.19
6	4D/SS2 <i>Barringtonia</i> swamp forest	0.34	0.00
7	4D/SS3 <i>Syzygium cumini</i> swamp low forest	205.84	1.30
8	5A/C1b Dry teak forest	143.81	0.91
9	5B/C1a Dry Siwalik sal forest	110.53	0.70
10	5B/C1b Dry plains sal forest	60.88	0.39
11	5B/C1c Dry peninsular sal forest	352.88	2.24
12	5B/C2 Northern dry mixed deciduous forest	5,459.24	34.58
13	5/DS1 Dry deciduous scrub	329.83	2.09
14	5/DS2 Dry savannah forest	0.65	0.00
15	5/DS3 <i>Euphorbia</i> scrub	0.87	0.01
16	5/E1 <i>Anogeissus pendula</i> forest	491.69	3.11
17	5/E1/DS1 <i>Anogeissus pendula</i> scrub	205.24	1.30
18	5/E2 <i>Boswellia</i> forest	104.78	0.66
19	5/E3 <i>Babul</i> forest	48.65	0.31
20	5/E5 <i>Butea</i> forest	6.77	0.04
21	5/E8a <i>Phoenix</i> savannah	1.91	0.01
22	5/E8b <i>Babul</i> savannah	17.42	0.11
23	5/E9 Dry bamboo brakes	69.14	0.44
24	5/1S1 Dry tropical riverain forest	0.24	0.00
25	5/1S2 <i>Khair-sissu</i> forest	148.43	0.94
26	6B/C2 Ravine thorn forest	904.89	5.73
Sub Total		11,628.28	73.66
27	TOF/ Plantation	4,057.03	25.70
Total (Forest Cover & Scrub)		15,685.31	99.36
28	3/1S1 Low alluvial savannah woodland (<i>Salmatia-Albizzia</i>)	5.06	0.03
29	4D/2S2 Eastern wet alluvial grassland	96.31	0.61
Sub Total		101.37	0.64
Grand Total		15,786.68	100.00

*Forest Types have been assigned to the natural forest formations under forest cover and scrub categories shown in the forest cover mapping (ISFR, 2023). Grassland forest types outside forest cover have also been mapped. The total mapped area, therefore, is sum of forest cover, scrub and grassland forest types (found in non-forest).



10.27.4 Forest Fire

District-wise number of forest fire detected by FSI using SNPP-VIIRS sensors (This includes large, continuous and repeated forest fires) during the fire season 2022-23 & 2023-24.

Table 10.27.10 District-wise Number of Forest Fire Detected

Sl. No.	District	SNPP-VIIRS Detection during 2022-23	SNPP-VIIRS Detection during 2023-24
1	Agra	15	37
2	Aligarh	0	0
3	Ambedkar Nagar	1	0
4	Amethi	9	9
5	Amroha/ Jyotiba Phule Nagar	9	0
6	Auraiya	8	20
7	Ayodhya/ Faizabad	8	26
8	Azamgarh	1	0
9	Baghpat	0	4
10	Bahraich	195	288
11	Ballia	0	0
12	Balrampur	407	626
13	Banda	0	5
14	Bara Banki	5	5
15	Bareilly	0	0
16	Basti	1	11
17	Bhadohi/ Sant Ravidas Nagar	0	0
18	Bijnor	88	155
19	Budaun	12	22
20	Bulandshahr	9	5
21	Chandauli	94	28
22	Chitrakoot	54	174
23	Deoria	0	1
24	Etah	1	0
25	Etawah	13	63
26	Farrukhabad	4	1
27	Fatehpur	0	2
28	Firozabad	4	19
29	Gautam Buddha Nagar	12	5
30	Ghaziabad	1	2
31	Ghazipur	0	0
32	Gonda	7	22
33	Gorakhpur	9	22
34	Hamirpur	12	17
35	Hapur	2	1
36	Hardoi	12	14
37	Hathras/ Mahamaya Nagar	0	0
38	Jalaun	41	98
39	Jaunpur	8	11
40	Jhansi	61	52
41	Kannauj	0	0
42	Kanpur Dehat	17	22



Table 10.27.10 District-wise Number of Forest Fire Detected

Sl. No.	District	SNPP-VIIRS Detection during 2022-23	SNPP-VIIRS Detection during 2023-24
43	Kanpur Nagar	0	11
44	Kasganj/Kanshiram Nagar	0	0
45	Kaushambi	0	0
46	Kheri	557	689
47	Kushinagar	0	0
48	Lalitpur	113	58
49	Lucknow	4	7
50	Mahoba	7	6
51	Mahrajganj	333	462
52	Mainpuri	0	0
53	Mathura	3	1
54	Mau	1	2
55	Meerut	6	15
56	Mirzapur	48	49
57	Moradabad	3	0
58	Muzaffarnagar	15	14
59	Pilibhit	294	430
60	Pratapgarh	10	16
61	Prayagraj/Allahabad	25	22
62	Raebareli	7	11
63	Rampur	7	10
64	Saharanpur	74	158
65	Sambhal	0	0
66	Sant Kabir Nagar	8	5
67	Shahjahanpur	14	32
68	Shamli	0	0
69	Shravasti	93	328
70	Siddharthnagar	29	48
71	Sitapur	2	7
72	Sonbhadra	457	272
73	Sultanpur	2	4
74	Unnao	1	0
75	Varanasi	2	0
Total		3,235	4,424

10.27.5 Fire Prone Forest Areas

Forest Cover under different classes of forest fire proneness is given in following table.



Table 10.27.11 Forest Fire Prone Classes

Sl. No.	Forest Fire Prone Classes	Forest Cover*	% of Total Forest Cover
1	Extremely fire prone	106.14	0.68
2	Very highly fire prone	1,196.61	7.63
3	Highly fire prone	2,489.20	15.87
4	Moderately fire prone	2,077.08	13.24
5	Less fire prone	9,816.28	62.58
Total		15,685.31	100.00

*Forest Cover including Scrub.

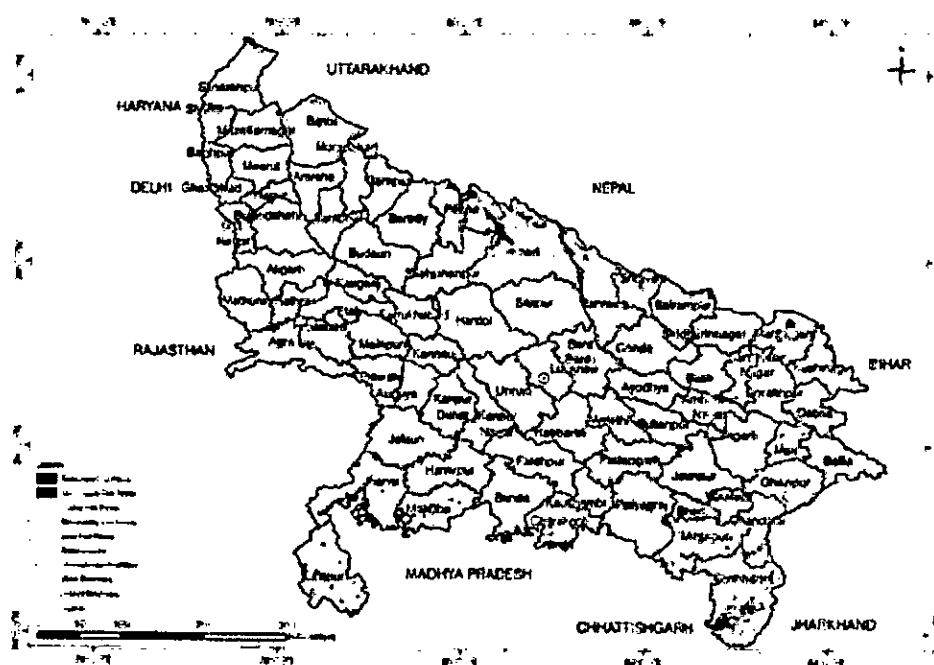


Figure 10.27.4 Fire Prone Forest Areas under Different Fire Prone Classes

10.27.6 Results Derived from NFI for Uttar Pradesh

Table 10.27.12 Number of Trees and their Volume For Top 5 Species In RFA

Sl. No.	Species	No. of Trees (in '000)	Volume (M m ³)
1	<i>Shorea robusta</i>	35,091	49.28
2	<i>Tectona grandis</i>	16,160	11.56
3	<i>Mallotus philippensis</i>	9,584	1.83
4	<i>Prosopis juliflora/ Neltuma juliflora</i>	7,965	1.71
5	<i>Lannea coromandelica</i>	7,800	2.65



Table 10.27.13 Number of Trees and their Volume for Top 5 Species in Rural Area

Sl. No.	Species	No. of Trees (in '000)	Volume (M m ³)
1	<i>Eucalyptus species</i>	1,42,126	6.971
2	<i>Mangifera indica</i>	1,33,474	41.741
3	<i>Populus species</i>	49,051	2.407
4	<i>Dalbergia sissoo</i>	25,258	6.758
5	<i>Prosopis juliflora/ Neltuma juliflora</i>	24,746	0.843

Table 10.27.14 Number of Trees and their Volume for Top 5 Species in Urban Area

Sl. No.	Species	No. of Trees (in '000)	Volume (M m ³)
1	<i>Azadirachta indica/ Melia indica</i>	3,689	1.676
2	<i>Mangifera indica</i>	2,958	1.050
3	<i>Eucalyptus species</i>	2,866	0.331
4	<i>Psidium guajava</i>	2,707	0.083
5	<i>Prosopis juliflora/ Neltuma juliflora</i>	1,907	0.090

Table 10.27.15 Major NTFP Species in Uttar Pradesh

Sl. No.	Species	Habit	No. of Plants (in '000)
1	<i>Shorea robusta</i>	Tree	12,74,568
2	<i>Butea monosperma</i>	Tree	3,05,918
3	<i>Acacia catechu/ Senegalia catechu</i>	Tree	1,44,323
4	<i>Helicteres isora</i>	Shrubs	20,87,767
5	<i>Adhatoda vasica/ Justicia adhatoda</i>	Shrubs	11,62,984
6	<i>Commiphora wightii</i>	Shrubs	7,70,652
7	<i>Withania somnifera</i>	Shrubs	1,82,154
8	<i>Ocimum basilicum</i>	Herbs	12,72,71,894
9	<i>Desmostachya species</i>	Herbs	2,87,48,628
10	<i>Vetiveria zizanioides/ Chrysopogon zizanioides</i>	Herbs	61,27,826

Table 10.27.16 Major Invasive Species in the State Inside the RFA in Uttar Pradesh

Sl. No.	Species	Estimated Extent (km ²)
1	<i>Lantana camara</i>	1,080.84
2	<i>Prosopis juliflora/ Neltuma juliflora</i>	448.92
3	<i>Cassia tora/ Senna tora</i>	376.53
4	<i>Triumfetta rhomboidea</i>	84.96
5	<i>Saccharum spontaneum</i>	63.34

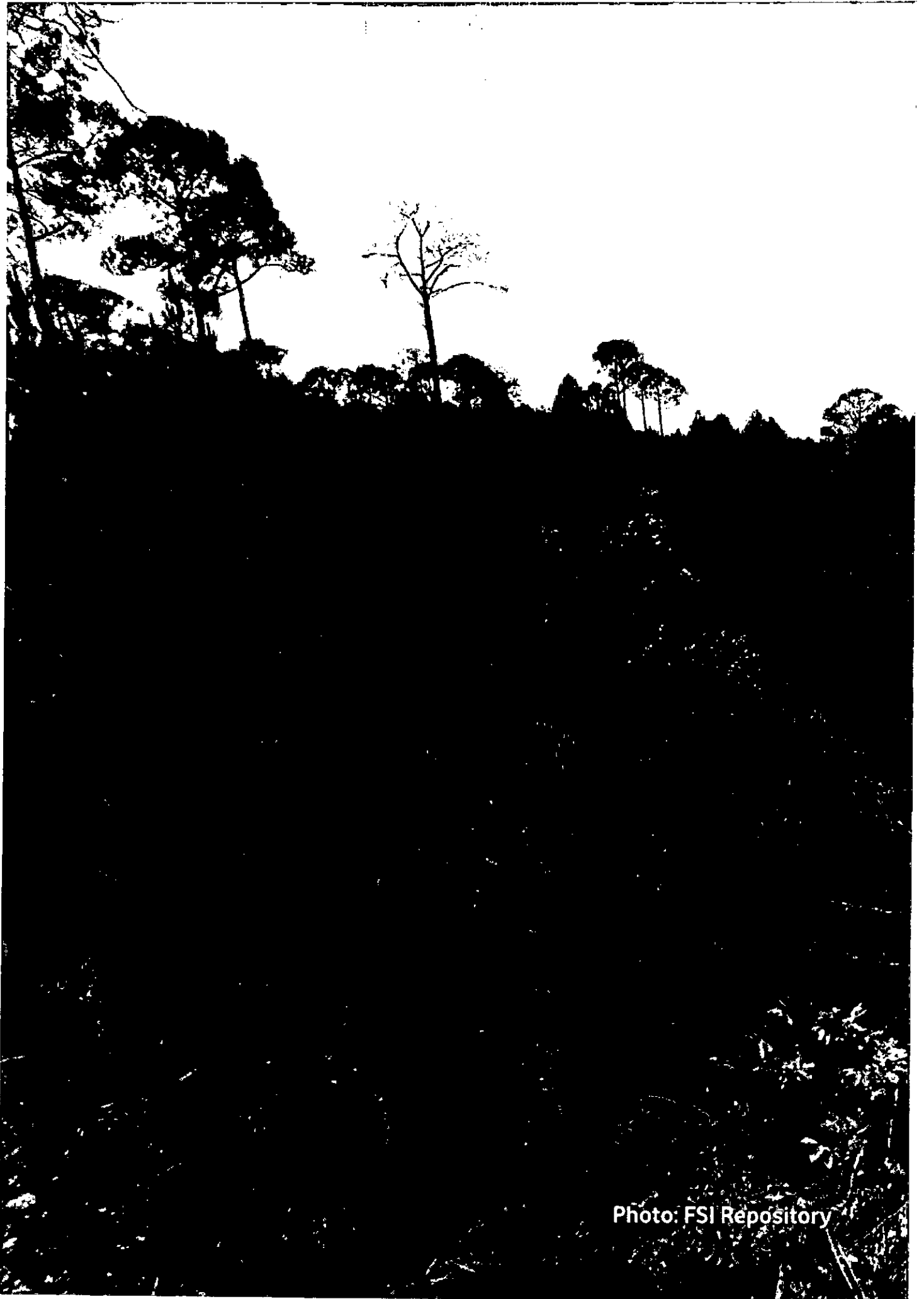


Photo: FSI Repository

क्र.सं.	जोन/मण्डल का नाम	वर्ष 2001 से 2021 तक वृक्षों के पातन का विवरण										वर्ष 2001 से 2021 के बीच रोपित वृक्षों की संख्या		कॉलम 4 व 5 में प्रचलित वन अधिनियम के अन्तर्गत कृत कार्यवाही का विवरण		
		उ0390 वन निगम के स्तर से विद्योहित वृक्षों की संख्या (आवृत्ति लाटों में पातित वृक्ष)		अवैध पातन (वृक्षों की संख्या)		वन अग्नि से क्षति हुए वृक्षों की संख्या	सूखे/भूत/सोमय स्त/आधी तूफान से गिरे वृक्षों की संख्या	अन्य कारणों से पातित वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या	वृक्षों की संख्या
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	लखनऊ मण्डल	693079	7638	66368	96504	399452	117234	101882710	23435	175612121						
2	मध्य क्षेत्र, लखनऊ	1881183	9878	54137	0	127612	160888	138924798	32359	142007951						
3	कानपुर मण्डल	205779	8296	8122	0	19442	36812	60442084	5613	38097991						
4	बुन्देलखण्ड जोन, झांसी	188830	50797	6316	0	8285	14030	219760030	11312	56524201						
5	दक्षिणी क्षेत्र, प्रयागराज	190632	1364	15835	5	2364	17684	64094570	9754	54260236						
6	मिर्जापुर मण्डल	879174	28713	2322	1	8964	60453	110372235	3891	14404717						
7	पूर्वी क्षेत्र, गोरखपुर	303083	1762	25874	0	44887	3102	64578024	22441	124252709						
8	गोरखपुर मण्डल	146219	9117	23953	150	7862	33143	33369249	18906	89117705						
9	रुहेलखण्ड जोन, बरैली	3263028	18712	36351	0	307523	139339	84978713	20617	251361457						
10	आगरा जोन, आगरा	424949	42540	31147	1600	1279	25297	86348221	9773	59682785						
11	पश्चिमी क्षेत्र, मेरठ	693295	7984	30369	15	131521	300220	198957120	7253	68458887						
12	दुधवां टाईगर रिजर्व	351874	12409	7553	0	191857	0	18925597	5658	36959845						
13	वन्य जीव पूर्वी, गोण्डा	81076	11184	6879	0	0	0	8244639	9808	49998965						
14	पश्चिमी क्षेत्र, कानपुर	13014	1449	779	0	937	73	33142952	1923	6425549						
	महायोग	9315215	211843	316005	98275	1251985	908275	1224020942	182743	1167165119						