



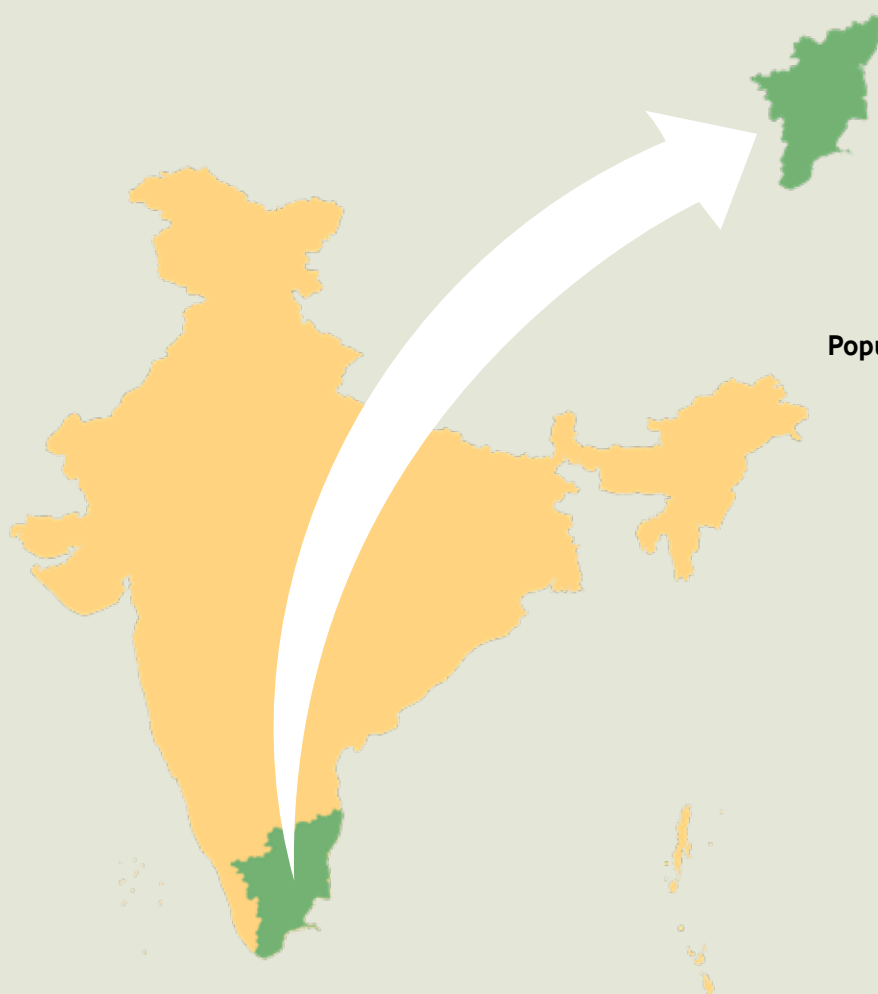
INDIA STATE OF FOREST REPORT 2023

VOLUME II



FOREST SURVEY OF INDIA
Ministry of Environment, Forest & Climate Change

TAMIL NADU



Geographical Area
1,30,060 km²

Geographical Coordinates
Latitude 08°05' N to 13°35' N
Longitude 76°15' E to 80°20' E

Population (as per Census 2011)
72.15 million
Urban 34.92 million (48.40 %)
Rural 37.23 million (51.60 %)
Tribal 0.79 million (1.10 %)

Average Population Density
555 per km²

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

No. of Districts
38

No. of Hill Districts
6

No. of Tribal Districts
6

Table 10.24.1 Land Use Pattern

Land Use Types	Area (in '000 ha)	Percentage
Geographical Area	13,006	
Reporting area for land utilization	13,033.12	100.00
Forests	2,156.57	16.54
Not available for land cultivation	2,663.42	20.44
Permanent pastures and other grazing lands	107.64	0.83
Land under misc. tree crops and groves	186.07	1.43
Culturable wasteland	346.37	2.65
Fallow land other than current fallows	1,863.66	14.30
Current fallows	800.45	6.14
Net area sown	4,908.94	37.67

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

10.24.1 Forest Cover

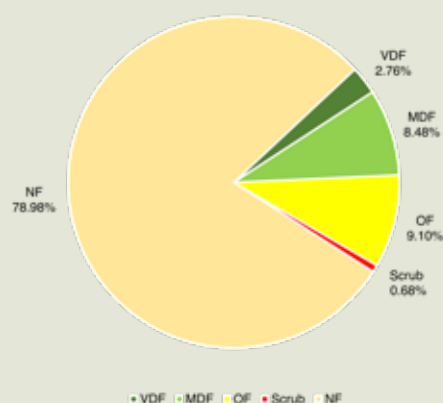


Table 10.24.2 Forest Cover of Tamil Nadu

(km ²)		
Class	Area	% of Calculated Area by Sol
VDF	3,586.19	2.76
MDF	11,027.03	8.48
OF	11,837.00	9.10
Total	26,450.22	20.34
Scrub	878.29	0.68

Figure 10.24.1 Forest Cover of Tamil Nadu

Table 10.24.3 District- wise Forest Cover in Tamil Nadu

(km ²)								
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			
Ariyalur	1,940	0.01	41.53	350.78	392.32	20.22	-16.83	7.21
Chengalpattu	2,831	0.00	61.64	189.10	250.74	8.86	-5.87	25.63
Chennai	175	0.00	7.82	13.30	21.12	12.07	-2.04	1.98
Coimbatore ^H	4,732	354.75	669.13	929.30	1,953.18	41.28	-7.37	7.91
Cuddalore	3,703	0.00	45.54	339.94	385.48	10.41	-6.86	16.26
Dharmapuri	4,497	267.82	840.94	607.53	1,716.29	38.17	-2.39	15.81
Dindigul	6,036	251.84	786.81	849.53	1,888.18	31.28	4.74	33.81
Erode	5,760	399.31	1,137.15	792.00	2,328.46	40.42	17.68	36.59
Kallakurichi	3,256	78.36	236.98	261.40	576.74	17.71	-11.64	40.49
Kancheepuram	1,652	0.00	10.47	61.40	71.87	4.35	-1.82	13.19
Kanniyakumari ^H	1,684	130.50	571.97	310.07	1,012.54	60.13	10.70	0.58
Karur	2,904	1.35	27.89	76.30	105.54	3.63	6.24	9.96
Krishnagiri	5,129	91.67	824.11	699.99	1,615.77	31.50	9.80	35.48
Madurai ^H	3,710	39.57	235.35	285.95	560.87	15.12	7.33	39.29
Mayiladuthurai	1,178	0.00	5.40	27.23	32.63	2.77	-0.45	0.00
Nagapattinam	1,391	0.03	17.28	81.26	98.57	7.09	-27.35	0.02
Namakkal	3,420	84.20	285.29	220.75	590.24	17.26	3.98	26.49
Perambalur	1,756	9.33	66.38	67.30	143.01	8.14	-1.73	17.41
Pudukkottai	4,644	0.62	87.37	267.17	355.16	7.65	-10.35	17.68
Ramanathapuram	4,104	0.43	23.58	218.33	242.34	5.90	-10.28	9.71
Ranipet	1,849	0.00	14.31	82.34	96.65	5.23	-7.15	16.54
Salem	5,237	201.37	764.10	525.05	1,490.52	28.46	3.82	36.59
Sivaganga	4,233	0.00	36.95	276.17	313.12	7.40	-9.79	20.81
Tenkasi ^H	2,833	115.00	215.92	153.15	484.07	17.09	3.99	9.16
Thanjavur	3,411	0.07	243.02	85.70	328.79	9.64	-20.14	2.84
The Nilgiris ^H	2,565	447.59	622.92	636.38	1,706.89	66.55	-1.61	9.11
Theni	2,868	176.82	478.16	562.13	1,217.11	42.44	33.09	32.33
Thiruvavur	2,274	0.00	38.83	32.89	71.72	3.15	0.55	0.00
Thoothukudi	4,745	0.02	23.49	237.74	261.25	5.51	12.26	82.31



Table 10.24.3 District- wise Forest Cover in Tamil Nadu

District	Calculated Area by Sol	2023 Assessment				% of Cal- culated Area by Sol	Change w.r.t. 2021 Raster based*	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Tiruchchirapalli	4,509	54.40	242.75	196.88	494.03	10.96	2.58	50.87
Tirunelveli ^h	3,860	342.51	352.95	153.88	849.34	22.00	1.52	20.63
Tirupathur	1,964	137.54	504.64	256.98	899.16	45.78	5.33	26.19
Tiruppur	5,187	48.29	234.52	566.32	849.13	16.37	-0.56	8.12
Tiruvallur	3,394	11.85	45.28	222.90	280.03	8.25	-17.50	50.11
Tiruvannamalai	6,188	235.96	601.24	481.25	1,318.45	21.31	-4.99	73.45
Vellore	2,262	63.52	434.51	347.06	845.09	37.36	-8.54	39.33
Viluppuram	3,938	0.00	59.05	191.83	250.88	6.37	-12.57	8.07
Virudhunagar	4,241	41.46	131.76	179.72	352.94	8.32	3.26	36.33
Grand Total	1,30,060	3,586.19	11,027.03	11,837.00	26,450.22	20.34	-60.96	878.29

*Area figure calculated without normalization factor.

Table 10.24.4 Division-wise Forest Cover in Tamil Nadu

Division	Digitized Division Boundary Area*	2023 Assessment				% of Digitized Division Boundary Area	Change w.r.t. 2021 Raster based*	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Ariyalur	1,947.91	0.01	41.31	346.61	387.93	19.92	-16.76	7.15
Attur	2,103.73	109.69	382.89	204.31	696.89	33.13	-0.79	7.70
Chengalpattu	4,483.21	0.00	72.44	244.67	317.11	7.07	-8.69	39.67
Coimbatore	2,919.91	124.47	378.36	378.41	881.24	30.18	0.50	6.80
Cuddalore	3,712.62	0.00	44.84	333.88	378.72	10.20	-6.87	13.36
Dharmapuri	2,639.57	60.62	455.18	435.49	951.29	36.04	-3.29	5.66
Dindigul	5,206.65	67.88	508.66	700.67	1,277.21	24.53	2.98	27.31
Erode	2,852.50	238.19	443.08	203.88	885.15	31.03	12.88	3.42
Gudalur	483.05	75.67	113.66	183.95	373.28	77.28	-0.26	2.27
Harur	1,835.02	210.16	383.55	168.97	762.68	41.56	0.84	9.23
Hassanur	529.60	62.96	228.26	207.74	498.96	94.21	-0.36	9.05
Hosur	5,173.89	93.40	825.27	699.21	1,617.88	31.27	10.06	35.50
Kallakurichi	1,838.44	75.02	228.09	129.28	432.39	23.52	-6.85	25.18
Kanyakumari	1,604.15	79.29	541.83	310.41	931.53	58.07	10.40	0.59
Karaikkal	159.85	0.00	0.00	0.01	0.01	0.01	0.00	0.00
Karur	2,909.07	1.83	30.78	79.93	112.54	3.87	6.24	11.03
Kodaikanal	941.45	186.61	300.38	180.31	667.30	70.88	2.32	10.36
Madurai	2,660.56	14.33	126.23	192.80	333.36	12.53	4.75	21.66
Megamalai	546.28	16.88	96.63	106.75	220.26	40.32	2.75	5.22
Namakkal	3,430.53	83.61	287.28	225.62	596.51	17.39	4.05	26.33
Nilgiris North	1,073.51	102.19	266.72	339.92	708.83	66.03	-1.75	6.24
Nilgiris South	578.17	139.54	101.41	45.77	286.72	49.59	0.64	0.48
Perambalur	1,751.10	11.02	60.82	58.88	130.72	7.47	-1.77	18.27

Table 10.24.4 Division-wise Forest Cover in Tamil Nadu(km²)

Division	Digitized Division Boundary Area*	2023 Assessment				% of Digitized Division Boundary Area	Change w.r.t. 2021 Raster based*	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Puducherry	294.07	0.00	0.02	0.41	0.43	0.15	-0.05	0.00
Pudukkottai	4,688.87	0.43	94.67	268.79	363.89	7.76	-12.21	17.67
Ramanathapuram	4,110.64	0.47	22.73	213.63	236.83	5.76	-9.15	9.30
Salem	3,138.34	89.75	379.25	319.85	788.85	25.14	4.61	28.23
Sathyamangalam	929.47	95.70	423.33	327.19	846.22	91.04	-0.09	16.67
Sivagangai	4,236.89	0.00	36.63	284.35	320.98	7.58	-9.56	20.94
Thanjavur	3,685.04	0.07	245.90	72.62	318.59	8.65	-19.64	3.10
Theni	2,312.87	161.92	384.09	465.52	1,011.53	43.73	30.08	24.05
Thiruvallur	3,419.47	10.88	42.83	221.49	275.20	8.05	-19.05	46.99
Thiruvarur	2,009.97	0.00	36.45	33.00	69.45	3.46	0.54	0.00
Thoothukudi	4,627.27	0.02	22.80	237.14	259.96	5.62	11.99	85.80
Tiruchirappalli	4,518.65	51.50	240.94	203.16	495.60	10.97	2.58	50.46
Tirunelveli	5,435.84	112.09	223.46	222.33	557.88	10.26	9.05	21.32
Tirupattur	2,028.74	128.12	471.51	231.19	830.82	40.95	-1.87	21.87
Tiruvannamalai (N)	3,687.62	164.36	275.28	194.87	634.51	17.21	-2.24	28.48
Tiruvannamalai (S)	2,526.22	69.65	317.97	284.62	672.24	26.61	-2.81	42.85
Vellore	4,073.12	73.98	478.33	449.11	1,001.42	24.59	-7.88	56.81
Viluppuram	5,408.48	0.00	68.86	327.69	396.55	7.33	-16.95	24.09
WL ATR Pollachi	1,862.69	232.36	324.40	561.98	1,118.74	60.06	-7.95	0.84
WL ATR Tiruppur	5,206.96	48.34	234.34	568.97	851.65	16.36	-0.78	8.07
WL, Chennai	179.16	0.00	6.24	6.28	12.52	6.99	-0.90	0.00
WL, KMTR	1,458.66	391.85	350.98	92.15	834.98	57.24	-1.36	10.71
WL Marine NP	1,564.93	0.00	0.72	4.66	5.38	0.34	-1.43	0.77
WL MTR	410.62	131.43	143.75	66.35	341.53	83.17	-0.06	0.10
WL Nagapattinam	2,591.83	0.03	23.14	101.64	124.81	4.82	-27.86	0.03
WL Srivilliputhur	5,218.73	61.56	222.24	252.86	536.66	10.28	5.91	56.61
WL STR	1,399.73	1.68	12.86	44.75	59.29	4.24	5.10	9.24
Area which does not fall in any Division	319.02	6.63	25.64	2.93	35.20	11.03	0.00	0.81
Grand Total	1,32,724.67	3,586.19	11,027.03	11,837.00	26,450.22	19.93	-60.96	878.29

#As per the division boundary shapefile provided by State Forest Department.

*Area figure calculated without normalization factor.



10.24.2 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 10.24.5 Forest Cover Inside and Outside Recorded Forest Area (or Green Wash) in Tamil Nadu

(km ²)							
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
3,344.13	8,681.60	5,708.57	17,734.30	242.06	2,345.43	6,128.43	8,715.92
18.86%	48.95%	32.19%		2.78%	26.91%	70.31%	

**In case of Tamil Nadu, RFA boundaries have been used.*

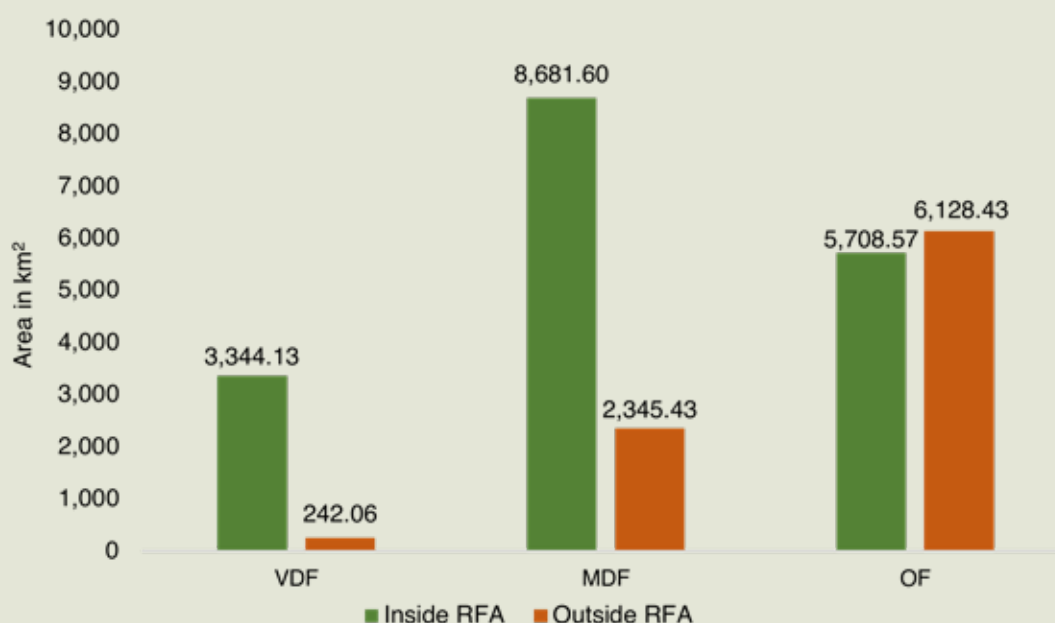


Figure 10.24.2 Forest Cover Inside and Outside of RFA in Tamil Nadu

Table 10.24.6 Forest Cover Change Matrix Inside RFA/GW for Tamil Nadu between 2021 Raster based and 2023 Assessments

(km ²)						
Class	2023 Assessment inside RFA/GW					Total ISFR 2021 inside RFA / GW Raster based*
	VDF	MDF	OF	Scrub	NF	
VDF	3,343.53	1.63	0.35	0.00	0.98	3,346.49
MDF	0.04	8,675.59	1.31	1.62	11.41	8,689.97
OF	0.00	2.51	5,661.03	11.21	46.09	5,720.84
Scrub	0.00	0.00	4.64	425.32	4.95	434.91
NF	0.56	1.87	41.24	10.83	3,338.31	3,392.81
Total ISFR 2023 inside RFA / GW	3,344.13	8,681.60	5,708.57	448.98	3,401.74	21,585.02
Net Change	-2.36	-8.37	-12.27	14.07	8.93	

**Area figure calculated without normalization factor.*

Table 10.24.7 Forest Cover Change Matrix Outside RFA/GW for Tamil Nadu between 2021 Raster based and 2023 Assessments

(km²)

Class	2023 Assessment outside RFA/GW					Total ISFR 2021 outside RFA / GW Raster based*
	VDF	MDF	OF	Scrub	NF	
VDF	241.94	0.05	0.02	0.00	0.46	242.47
MDF	0.00	2,341.49	13.23	0.37	28.55	2,383.64
OF	0.00	0.56	5,843.67	11.55	271.99	6,127.77
Scrub	0.00	0.00	1.61	318.60	14.95	335.16
NF	0.12	3.33	269.90	98.79	99,013.80	99,385.94
Total ISFR 2023 outside RFA/GW	242.06	2,345.43	6,128.43	429.31	99,329.75	1,08,474.98
Net Change	-0.41	-38.21	0.66	94.15	-56.19	

*Area figure calculated without normalization factor.

Table 10.24.8 Altitude-wise Forest Cover in Tamil Nadu

(km²)

Altitude Zone (m)	Calculated Area by Sol	VDF	MDF	OF	Total	Scrub
0-500	1,11,060.00	346.59	5,052.06	8,618.63	14,017.28	718.88
500-1000	13,688.00	1,821.42	4,469.61	2,549.09	8,840.12	137.02
1000-2000	4,437.00	1,094.06	1,384.93	623.08	3,102.07	19.91
2000-3000	875.00	324.12	120.43	46.20	490.75	2.48
Total	1,30,060.00	3,586.19	11,027.03	11,837.00	26,450.22	878.29

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

Table 10.24.9 Forest Cover in Different Slope Classes in Tamil Nadu

(km²)

Slope (in degrees)	Calculated Area by Sol	VDF	MDF	OF	Total	Scrub
0-5	1,09,583.00	323.03	3,430.29	7,481.15	11,234.47	555.65
5-10	5,911.00	527.72	1,748.33	1,283.75	3,559.80	82.19
10-15	3,943.00	583.47	1,501.07	881.37	2,965.91	60.81
15-20	3,364.00	583.64	1,374.03	722.79	2,680.46	55.18
20-25	2,856.00	555.03	1,220.16	603.50	2,378.69	49.12
25-30	2,208.00	482.10	929.95	461.24	1,873.29	40.52
> 30	2,195.00	531.20	823.20	403.20	1,757.60	34.82
Total	1,30,060.00	3,586.19	11,027.03	11,837.00	26,450.22	878.29

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

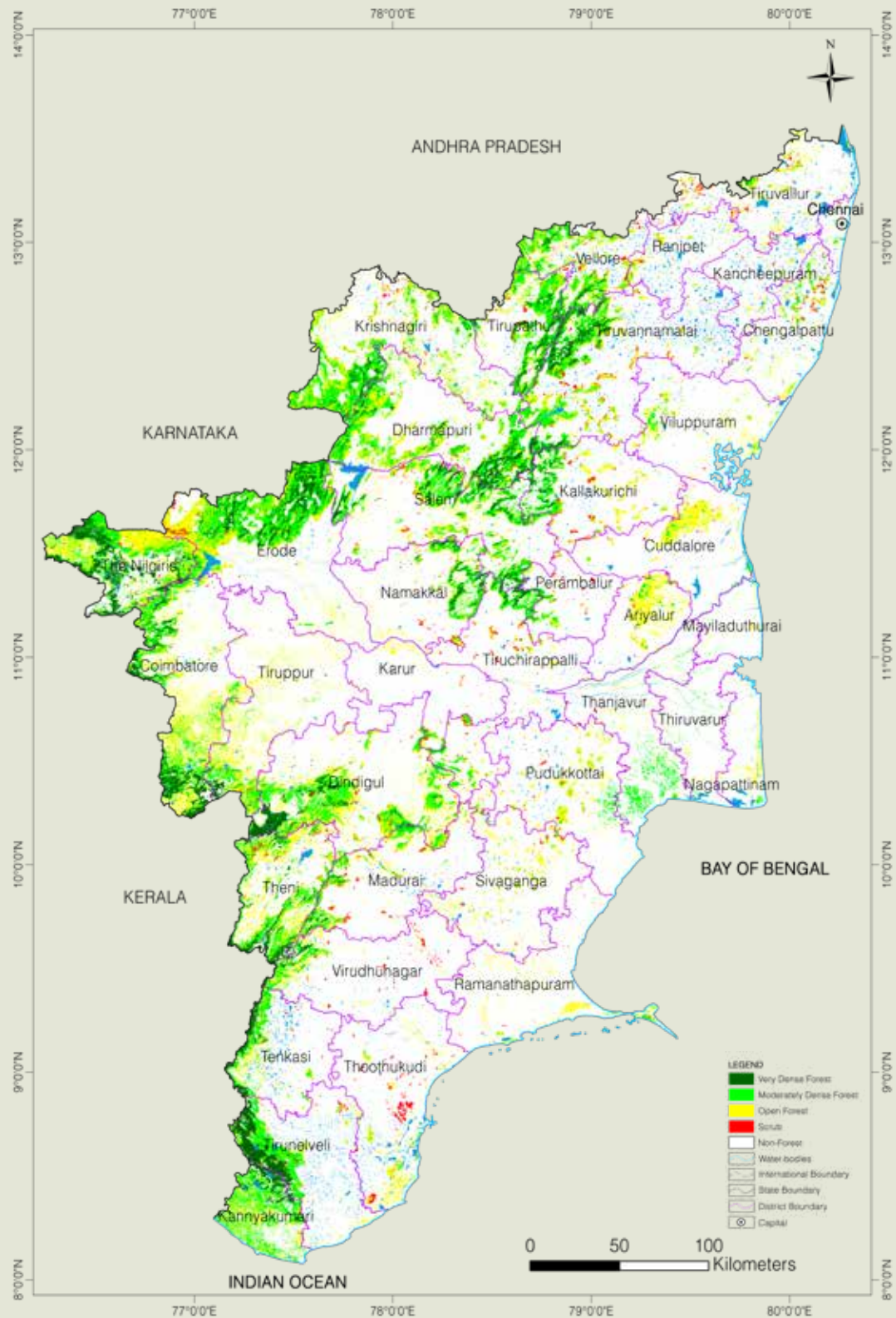


Figure 10.24.3 Forest Cover Map of Tamil Nadu

10.24.3 Forest Types

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

Table 10.24.10 Area Statistics of the Forest Types Found in Tamil Nadu

(km ²)			
Sl. No.	Forest Type	Area	% of the total mapped area*
1	1A/C3 Southern hilltop tropical evergreen forest	107.26	0.38
2	1A/C4 West Coast tropical evergreen forest	681.19	2.44
3	2A/C2 West Coast semi-evergreen forest	403.33	1.45
4	2A/C3 Tirunelveli semi-evergreen forest	116.60	0.42
5	2/E3 Moist bamboo brakes	328.56	1.18
6	3B/C1a Very moist teak forest	59.20	0.21
7	3B/C1b Moist teak forest	166.14	0.60
8	3B/C1c Slightly moist teak forest	51.59	0.19
9	3B/C2 Southern moist mixed deciduous forest	1,241.41	4.46
10	3B/C2/2S1 Southern secondary moist mixed deciduous forest	259.02	0.93
11	4A/L1 Littoral Forest	7.77	0.03
12	4B/TS1 Mangrove scrub	28.00	0.10
13	4B/TS2 Mangrove forest	20.81	0.07
14	4C/FS2 Submontane hill valley swamp forest	1.93	0.01
15	4E/RS1 Riparian fringing forest	36.69	0.13
16	5A/C1a Very dry teak forest	0.91	0.00
17	5A/C1b Dry teak forest	156.43	0.56
18	5A/C2 Dry red sanders-bearing forest	10.73	0.04
19	5A/C3 Southern dry mixed deciduous forest	6,246.63	22.42
20	5/DS1 Dry deciduous scrub	938.98	3.37
21	5/DS2 Dry savannah forest	260.82	0.94
22	5/DS3 <i>Euphorbia</i> scrub	3.30	0.01
23	5/DS4 Dry grass land	51.70	0.19
24	5/E4 <i>Hardwickia</i> forest	440.61	1.58
25	5/E9 Dry bamboo brakes	147.64	0.53
26	5/1S1 Dry tropical riverain forest	110.64	0.40
27	5/2S1 Secondary dry deciduous forest	2,749.37	9.87
28	6A/C1 Southern thorn forest	1,851.58	6.65
29	6A/C2 Carnatic umbrella thorn forest	1,459.40	5.24
30	6A/DS1 Southern thorn scrub	516.91	1.86
31	6A/DS2 Southern <i>Euphorbia</i> scrub	42.96	0.15
32	7/C1 Tropical dry evergreen forest	302.53	1.09
33	7/DS1 Tropical dry evergreen scrub	77.26	0.28
34	8A/C1 Nilgiri sub tropical hill forest	173.39	0.62
35	8A/C1/DS1 South Indian sub-tropical hill savannah (woodland)	18.73	0.07
36	8A/E1 Reed brakes (<i>Ochlandra</i>)	3.08	0.01
37	11A/C1 Southern montane wet temperate forest	185.14	0.66
38	11A/C1/DS1 Southern montane wet scrub	3.81	0.01



Table 10.24.10 Area Statistics of the Forest Types Found in Tamil Nadu

(km ²)			
Sl. No.	Forest Type	Area	% of the total mapped area*
39	11A/C1/DS2 Southern montane wet grassland	19.10	0.07
	Sub Total	19,281.15	69.21
40	TOF/ Plantation	8,047.36	28.87
	Total (Forest Cover & Scrub)	27,328.51	98.08
	Grassland forest type (outside forest cover)		
41	5/DS2 Dry savannah forest	108.48	0.39
42	5/DS4 Dry grassland	232.74	0.84
43	11A/C1/DS2 Southern montane wet grassland	192.90	0.69
	Sub Total	534.12	1.92
	Grand Total	27,862.63	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).

10.24.4 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 10.24.11 District-wise Number of Forest Fire Detected

Sl. No.	District	SNPP-VIIRS Detection during 2022-23	SNPP-VIIRS Detection during 2023-24
1	Ariyalur	4	2
2	Chengalpattu	8	4
3	Chennai	0	0
4	Coimbatore	162	13
5	Cuddalore	1	8
6	Dharmapuri	39	101
7	Dindigul	205	798
8	Erode	44	100
9	Kallakurichi	52	43
10	Kancheepuram	4	4
11	Kanniyakumari	178	118
12	Karur	0	1
13	Krishnagiri	277	348
14	Madurai	32	22
15	Mayiladuthurai	0	1
16	Nagapattinam	0	0
17	Namakkal	18	51
18	Perambalur	6	9
19	Pudukkottai	4	14
20	Ramanathapuram	1	1
21	Ranipet	50	58
22	Salem	29	90
23	Sivaganga	4	4

**Table 10.24.11 District-wise Number of Forest Fire Detected**

Sl. No.	District	SNPP-VIIRS Detection during 2022-23	SNPP-VIIRS Detection during 2023-24
24	Tenkasi	4	7
25	Thanjavur	3	2
26	The Nilgiris	100	400
27	Theni	215	171
28	Thiruvavur	0	0
29	Thoothukudi	4	2
30	Tiruchchirapalli	6	14
31	Tirunelveli	2	0
32	Tirupathur	104	322
33	Tiruppur	133	54
34	Tiruvallur	89	80
35	Tiruvannamalai	109	260
36	Vellore	102	249
37	Viluppuram	4	0
38	Virudhunagar	5	29
Total		1,998	3,380

10.24.5 Fire Prone Forest Areas

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

Table 10.24.12 Forest Fire Prone Classes

(km ²)			
Sl. No.	Forest Fire Prone Classes	Forest Cover*	% of Total Forest Cover
1	Extremely fire prone	0.00	0.00
2	Very highly fire prone	95.86	0.35
3	Highly fire prone	690.41	2.53
4	Moderately fire prone	1,699.73	6.22
5	Less fire prone	24,842.51	90.90
Total		27,328.51	100.00

*Forest Cover including Scrub.

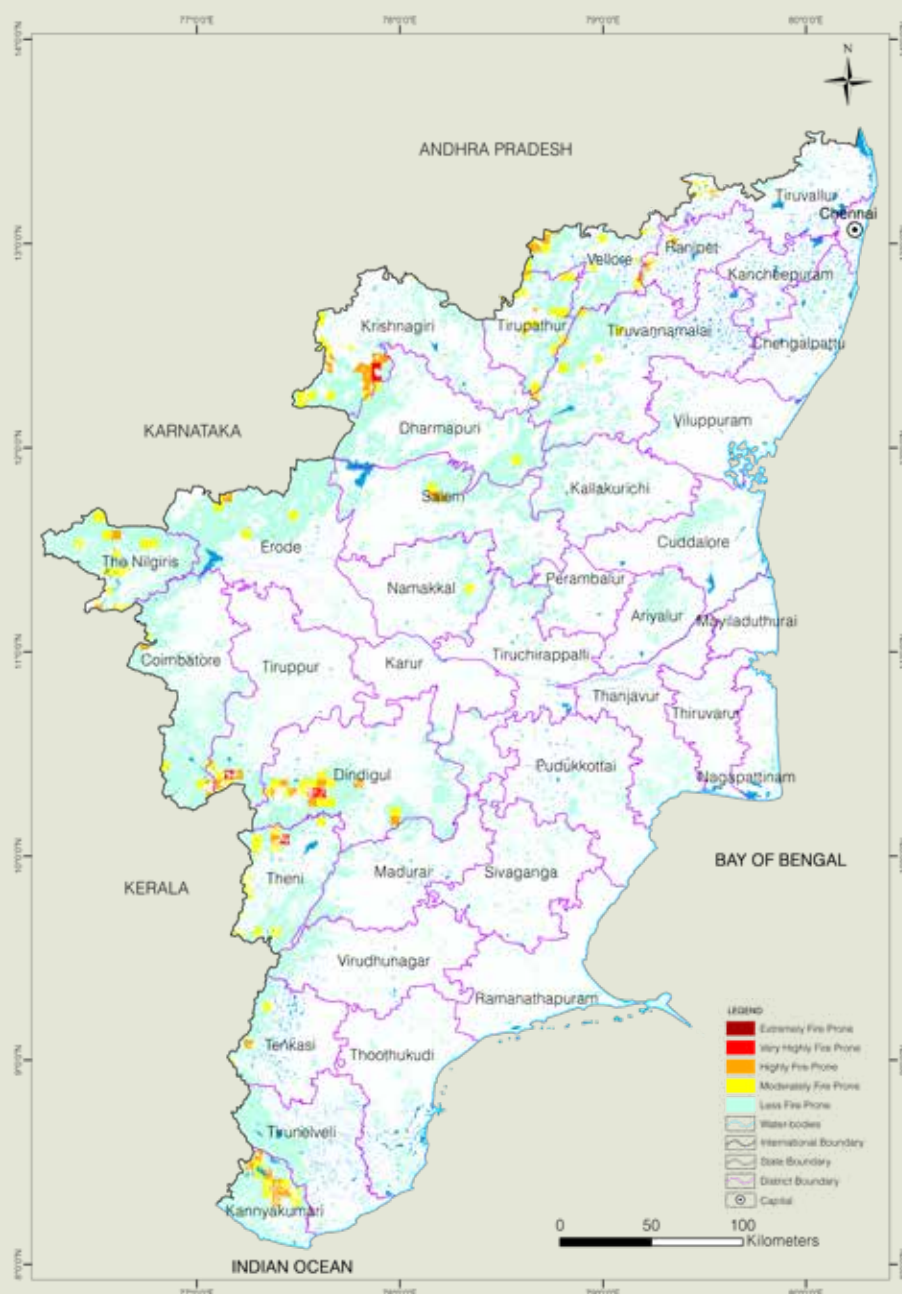


Figure 10.24.4 Fire Prone Forest Areas under Different Fire Prone Classes

10.24.6 Results Derived from NFI for Tamil Nadu

Table 10.24.13 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>Albizia amara</i>	76,363	6.58
2	<i>Anogeissus latifolia</i> / <i>Terminalia anogeissiana</i>	27,562	6.36
3	<i>Commiphora species</i>	18,187	2.90
4	<i>Eucalyptus species</i>	17,701	2.38
5	<i>Chloroxylon swietenia</i>	17,642	1.70



Table 10.24.14 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>Prosopis juliflora</i> / <i>Neltuma juliflora</i>	1,00,552	2.306
2	<i>Cocos nucifera</i>	80,370	22.455
3	<i>Azadirachta indica</i>	68,371	5.847
4	<i>Borassus flabellifer</i> / <i>Borassus flabelliformis</i>	29,497	13.918
5	<i>Mangifera indica</i>	26,516	6.489

Table 10.24.15 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>Cocos nucifera</i>	18,440	4.119
2	<i>Azadirachta indica</i>	10,647	1.838
3	<i>Prosopis juliflora</i> / <i>Neltuma juliflora</i>	5,664	0.175
4	<i>Moringa oleifera</i>	5,483	0.340
5	<i>Mangifera indica</i>	3,608	1.208

Table 10.24.16 Major NTFP Species in Tamil Nadu

Sl. No.	Species	Habit	No. of Plants (in '000)
1	<i>Albizia amara</i>	Tree	9,10,036
2	<i>Azadirachta indica</i>	Tree	4,75,926
3	<i>Murraya koenigii</i> / <i>Bergera koenigii</i>	Tree	4,05,545
4	<i>Carissa carandas</i>	Tree	3,41,514
5	<i>Anogeissus latifolia</i> / <i>Terminalia anogeissiana</i>	Tree	3,37,870
6	<i>Emblia officinalis</i> / <i>Phyllanthus emblica</i>	Tree	2,77,819
7	<i>Ziziphus species</i>	Tree	2,45,589
8	<i>Solanum torvum</i>	Shrubs	36,60,140
9	<i>Cissus quadrangularis</i>	Climbers	8,76,908
10	<i>Cymbopogon citratus</i>	Herbs	3,74,67,101

Table 10.24.17 Major invasive Species in the State inside the RFA in Tamil Nadu

Sl. No.	Species	Estimated Extent (km ²)
1	<i>Lantana camara</i>	2,045.96
2	<i>Chromolaena odorata</i>	962.59
3	<i>Prosopis juliflora</i> / <i>Neltuma juliflora</i>	166.42
4	<i>Ageratum conyzoides</i>	130.00
5	<i>Cuscuta spp.</i>	111.10