# 13.26 TRIPURA



**Geographical Area** 

10,486 sq km

#### **Geographical Coordinates**

Latitude- 22° 57' N to 24° 32' N Longitude- 91° 10' E to 92° 20' E

#### **Population (as per Census 2011)**

3.67 million

Urban 0.96 million (26.17 %) Rural 2.71 million (73.83 %) Tribal 1.17 million (31.76 %)

## **Average Population Density**

350 per sq km

#### Livestock population

(as per 19<sup>th</sup> Live Stock Census)
1.94 million

#### **No. of Districts**

4

No. of Hill Districts

4

No. of Tribal Districts

4

#### Table 13.26.1 Land Use Pattern

Land Use Types	Area (in '000 ha)	Percentage
Geographical Area	1,049	
Reporting area for land utilization	1,049	100.00
Forests	629	59.96
Not available for land cultivation	148	14.11
Permanent pastures and other grazing lands	1	0.10
Land under misc. tree crops and groves	10	0.95
Culturable wasteland	3	0.28
Fallow land other than current fallows	2	0.19
Current fallows	1	0.10
Net area sown	255	24.31

Source: Land Use Statistics, Ministry of Agriculture, GOI, (2017-18)



#### 13.26.1 Forest Cover

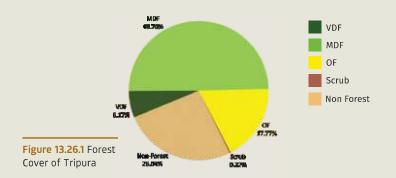


Table 13.26.2 Forest Cover					
of Tripura	1	(in sq km)			
Class	Area	% of GA			
VDF	646.76	6.17			
MDF	5,211.76	49.70			
OF	1,863.00	17.77			
Total	7,721.52	73.64			
Scrub	33.22	0.32			

Table 13.26.3 District- wise Forest Cover in Tripura

(in sq km)

District	Geo-graphical		2021 As	sessment		%of	Scrub	
	Area (GA)	Very Dense Forest	Mod. Dense Forest	Open Forest	Total	GA	Change wrt 2019 assess- ment	
Dhalai™	2,400	117.71	1,453.00	406.44	1,977.15	82.38	-6.55	2.55
North Tripura <sup>™</sup>	2,036	48.52	1,044.60	387.57	1,480.69	72.73	0.50	18.21
South Tripura <sup>TH</sup>	3,057	235.28	1,571.31	455.23	2,261.82	73.99	-10.38	0.10
West Tripura <sup>™</sup>	2,993	245.25	1,142.85	613.76	2,001.86	66.88	12.36	12.36
Grand Total	10,486	646.76	5,211.76	1,863.00	7,721.52	73.64	-4.07	33.22

# 13.26.1.1 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 13.25.4 Forest Cover Inside and Outside Recorded Forest Area (or Green Wash) in Tripura

(in sq km)

	orest 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
407	3,886	1,140	5,433	240	1,326	723	2,289
7.49%	71.53%	20.98%		10.48%	57.93%	31.59%	

<sup>\*</sup>in case of Tripura, RFA boundaries have been used.

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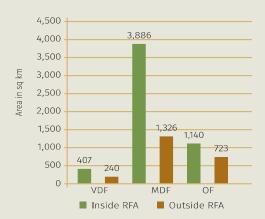


Figure 13.26.2
Forest Cover Inside and Outside of RFA in Tripura

Table 13.26.5 Forest Cover Change Matrix for Tripura

(in sq km)

	2021 Assessment				Total	
Class	VDF	MDF	OF	Scrub	NF	ISFR 2019
Very Dense Forest	643	1	1	0	9	654
Moderately Dense Forest	4	5,195	14	0	23	5,236
Open Forest	0	8	1,811	3	14	1,836
Scrub	0	0	0	29	0	29
Non Forest	0	8	37	1	2,685	2,731
Total ISFR 2021	647	5,212	1,863	33	2,731	10,486
Net Change	-7	-24	27	4	0	7

#### Table 13.26.6 Altitude-wise Forest Cover in Tripura

(in sq km)

Altitude Zone (m)	Geographical Area	VDF	MDF	OF	Total	Scrub
0-500	10,420	647	5,165	1,846	7,658	30
500-1000	66	0	47	17	64	3
Total	10,486	647	5,212	1,863	7,722	33

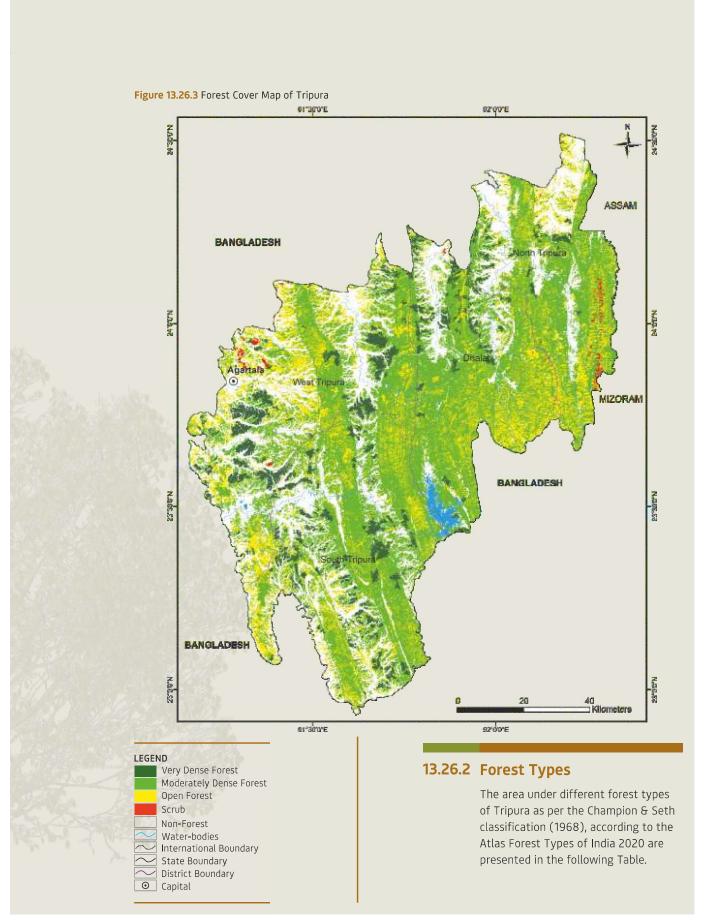
(based on SRTM, Digital Elevation Model, 30 m, 2016)

Table 13.26.7 Forest Cover in different slope classes in Tripura

(in sq km)

Slope (in degrees)	Geographical Area	VDF	MDF	OF	Total	Scrub
0-5	6,067	428	2,422	950	3,800	13
5-10	2,630	172	1,593	466	2,231	4
10-15	1,059	35	720	235	990	3
15-20	446	8	300	123	431	4
20-25	179	2	114	56	172	4
25-30	68	1	41	22	64	3
>30	37	1	22	11	34	2
Total	10,486	647	5,212	1,863	7,722	33

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





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Table 13.26.8 Area statistics of the Forest Types found in Tripura

(in sq km)

Sl. No.	Forest Type	Area	% of the total mapped area*
1.	2B/C2 Cachar semi-evergreen forest	2,126.56	27.42
2.	2B/C1/2S1 Pioneer Euphorbiaceous scrub	1.15	0.02
3.	2/2S1 Secondary moist bamboo brakes	590.44	7.61
4.	3C/C1b(ii) East Himalayan lower bhabar sal	196.75	2.54
5.	3C/C3b East Himalayan moist mixed deciduous forest	3,052.68	39.37
	Sub Total	5,967.58	76.96
6.	TOF/Plantation	1,786.80	23.04
	Total (Forest Cover & Scrub)	7,754.38	100.00

<sup>\*</sup>Forest Types have been assigned to the natural forest formations under forest cover and scrub categories shown in forest cover mapping (ISFR, 2019). The total mapped area, therefore, is sum of forest cover, scrub and grassland forest types (found in nonforest).

#### 13.26.3 Fire Prone Forest Areas

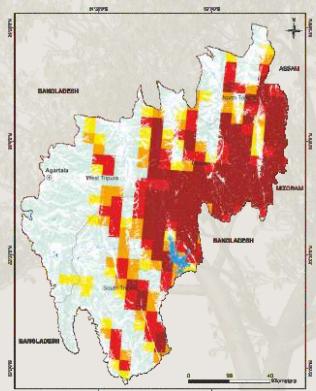
Forest Cover under different classes of forest fire proneness is given in following table.

Table 13.26.9 Forest Fire Prone Class	es
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(in sq km)

Sl. No.	Forest Fire Prone Classes	Forest Cover	% of Total Forest Cover
1.	Extremely fire prone	2,491.90	32.27
2.	Very highly fire prone	1,249.76	16.18
3.	Highly fire prone	812.80	10.53
4.	Moderately fire prone	641.61	8.31
5.	Less fire prone	2,525.93	32.71
	Total	7,722.00	100.00

**Figure. 13.26.4** Fire prone forest areas under different fire prone





International Boundary
State Boundary
District Boundary

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#### 13.26.4 Tree Cover

Tree cover is defined as all tree patches of size less than 1 ha occurring outside the recorded forest area. Tree cover includes trees in all formations including scattered trees. Tree cover in Tripura has been estimated as given in following table.

#### Table 13.26.10 Tree Cover in Tripura

(in sq km)

2019 Assessment	2021 Assessment	Change wrt 2019 Assessment
231	228	-3

### 13.26.5 Extent of Trees Outside Forest (TOF)

Trees outside Forests (TOF) refer to tree resources found outside the forests as defined in the Government records. Forest Cover outside the recorded forest area is derived using boundaries of RFA or Green Wash. Extent of TOF therefore may be estimated as the sum of extent of forest cover outside the recorded forest areas (RFA) and tree cover as given in following table.

#### Table 13.26.11 Extent of TOF in Tripura

(in sq km)

Forest Cover outside the RFA/GW	Tree Cover	Extent of TOF
2,289	228	2,517

## 13.26.6 Growing Stock in Tripura

Growing stock in the recorded forest areas (RFA) in Tripura is given in the Table 13.26.12. Diameter classwise distribution of top 5 species in numbers derived from the forest inventory data is presented in the table 13.26.13.

#### Table 13.26.12 Growing Stock in Tripura

(in m cum)

Sl. No.	Growing Stock (GS)	2019 Assessment	2021 Assessment	Change wrt 2019 Assessment	% of Country's GS
1.	Growing Stock in Recorded Forest Area	19.74	23.13	3.39	0.53
2.	Growing Stock in TOF	6.76	7.46	0.70	0.42

#### Table 13.26.13 Diameter class distribution of top five tree species inside RFA in Tripura

(in '000)

			Dia class (cm)	
Sl. No.	Species	10-30	30-60	>60
1.	Hevea brasiliensis	39,996	2,963	0
2.	Tectona grandis	7,710	1,039	0
3.	Albizia spp.	6,012	1,357	93
4.	Shorea robusta	1,645	348	41
5.	Pterospermum acerifolium	1,500	444	65

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### 13.26.7 Dominant tree species in Trees Outside Forests (TOF)

Top five species in numbers in Trees Outside Forests in Tripura in Rural and Urban areas are given in the Table 13.26.14 and Table 13.26.15 respectively.

Table 13.26.14: Top five tree species in TOF (Rural) in Tripura

Sl. No.	Species	Relative Abundance (%)
1.	Hevea brasiliensis	58.70
2.	Tectona grandis	7.76
3.	Areca catechu	3.95
4.	Schima wallichii	2.62
5.	Syzygium cumini	2.37

Table 13.26.15: Top five tree species in TOF (Urban) in Tripura

Sl. No.	Species	Relative Abundance (%)	
1.	Areca catechu	21.73	
2.	Hevea brasiliensis	15.96	
3.	Mangifera indica	9.30	
4.	Areca triandra	8.93	
5.	Cocos nucifera	6.79	

#### 13.26.8 Carbon Stock in Forest

The total Carbon stock of forest in the State including the TOF patches which are more than 1ha in size is 74.97 million tonnes (274.89 million tonnes of CO<sub>2</sub> equivalent) which is 1.04% of total forest carbon of the country. Pool wise forest carbon in Tripura is given in the following table

Table 13.26.16 Forest Carbon in Tripura in different pools

(	in	0000	tonnes)
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Sl. No.	Carbon Pools	Forest Carbon
1.	AGB	24,349
2.	BGB	5,358
3.	Dead wood	477
4.	Litter	1,486
5.	SOC	43,304
	Total	74,974

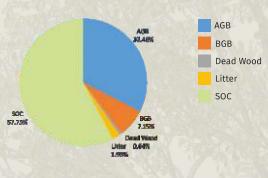


Figure 13.26.5 Forest Carbon in Tripura

# 13.26.9 Growing Stock of Bamboo

Bamboo bearing area and growing stock inside the recorded forest area (RFA)/ Green Wash which include culms of 1 year age and above are given in the following table.

#### Table 13.26.17 Growing Stock of Bamboo in Tripura

Growing Stock (GS)		% of Country's GS of Bamboo
Bamboo bearing area inside RFA/Green Wash (in sq km)	4,201	2.81
Total number of culms (in millions)	1,562	2.93
Total equivalent green weight (in '000 tonnes)	12,413	3.09

## 13.26.10 Major NTFP and Invasive Species

Major NTFP and invasive species as assessed from forest inventory data are presented in the Table 13.26.18 and Table 13.26.19 respectively.

#### Table 13.26.18 Major NTFP species in Tripura

Sl. No.	Species	Plant Type	Relative Abundance (%)
1.	Thysanolaena maxima	Herbs	89.66
2.	Mucuna pruriens	Climber	10.34

Table 13.26.19 Major invasive species in the State inside the RFA/Green wash in Tripura

(in sq km)

Sl. No.	Species	Estimated Extent
1.	Chromolaena odorata	134
2.	Mikania micrantha	56
3.	Imperata cylindrica	11
4.	Saccharum spontanem	5
5.	Lantana camara	2
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Major NTFP species are given in terms of relative abundance whereas invasive species are given in terms of their estimated extent.

