

7.17
MANIPUR

Geographical Area	22,327 sq km
Population (as per Census 2011)	2.57 million
Urban	0.83 million (32.45%)
Rural	1.74 million (67.65%)
Tribal	0.90 million (35.12 %)
Average Population Density	115 per sq km
Livestock population (as per 18th Live Stock Census)	0.79 million
No. of Districts (as per Census 2001)	9
No. of Hill Districts	9
No. of Tribal Districts	9

Land Use Pattern

Land Use	Area in '000 ha	Percentage
Total Geographical Area	2,233	
Reporting area for land utilization	2,086	100
Forests	1,742	83.51
Not available for cultivation	27	1.29
Permanent pastures and other grazing lands	1	0.07
Land under Misc. Tree crops and groves	6	0.27
Culturable wasteland	1	0.04
Fallow lands other than current fallows	0	0
Current fallows	0	0
Net area sown	309	14.82

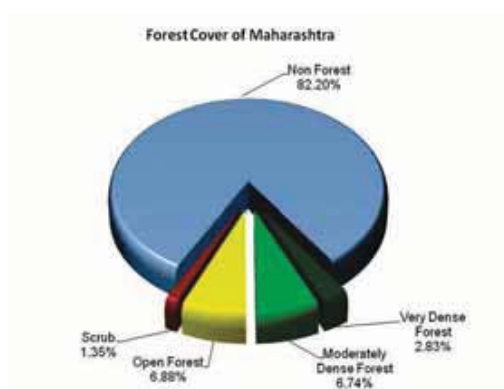
Source: Landuse Statistics, Ministry of Agriculture, GOI, 2012-13.

Forest Cover Within Green Wash

Very Dense Forest	721 sq km
Moderately Dense Forest	5,426 sq km
Open Forest	8,795 sq km
Sub Total	14,942 sq km

Forest Cover Outside Green Wash

Very Dense Forest	6 sq km
Moderately Dense Forest	505 sq km
Open Forest	1,541 sq km
Sub Total	2,052 sq km
Total Forest Cover	16,994 sq km
Tree Cover	243 sq km
Total Forest & Tree Cover	17,237 sq km
Per capita Forest & Tree Cover	0.671 ha
Of State's Geographical Area	77.20 %
Of India's Forest & Tree Cover	2.17 %



Forest Cover Informatics in Different Patch Size Class

S.No.	Patch Size Range in (sq km)	No. of Patches	Area (sq km)	%age
1.	>=0.01 <= 1.0	414	305	1.80
2.	> 1.0 <= 10	113	280	1.65
3.	> 10 <= 100	4	176	1.04
4.	> 100 <= 500	1	196	1.14
5.	> 500 <= 1000	1	703	4.14
6.	> 1000 <= 5000	0	0	0
7.	> 5000 <= 10000	0	0	0
8.	> 10000	1	15,334	90.23
	Total	534	16,994	100

Forest Types

(Area in km²)

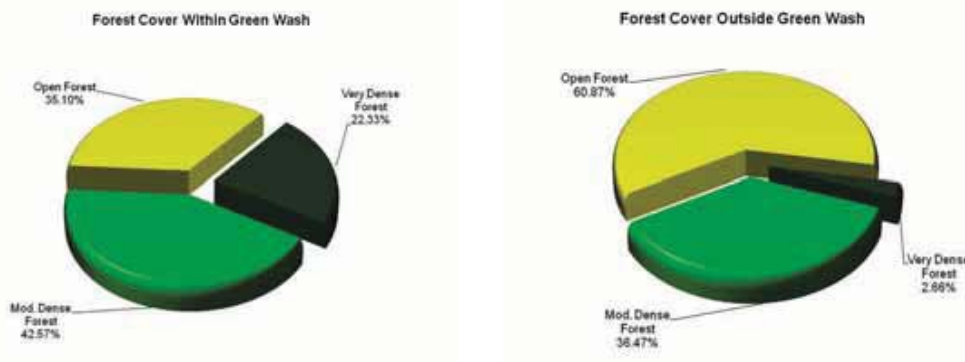
Forest Type	Area	Percent
2B/C2 Cachar Tropical Semi-Evergreen Forest	2,783.43	16.25
2/2S1 Secondary Moist Bamboo Brakes	1,414.02	8.26
2B/2S1 Pioneer <i>Euphorbiaceous</i> Scrub	52.75	0.31
3/3C3b East Himalayan Moist Mixed Deciduous Forest	522.89	3.05
8B/C1 East Himalyan Subtropical Wet Hill Forest	8,640.52	50.46

Forest Types

(Area in km²)

Forest Type	Area	Percent
8B/C2 Khasi Subtropical Wet Hill Forest	387.11	2.26
8B/2S1 Assam Subtropical Pine Forest	38.22	0.22
9/C2 Assam Subtropical Pine Forest	1,374.24	8.03
9/C2/DS1 Assam Subtropical Pine Savannah	76.02	0.44
11B/C1b Buk Oak Forest	1,791.23	10.46
Plantation/TOF	44.57	0.26
Total	17,125.00	100.00

Source: Atlas Forest Types of India, 2011



Growing Stock

Growing Stock in Recorded Forest Area	51.38 million cum
Growing Stock in TOF	9.02 million cum

Recorded Forest Area

Reserved Forest	1,467 sq km
Protected Forest	4,171 sq km
Unclassed Forest	11,780 sq km
Total	17,418 sq km
Of State's Geographical Area	78.01%
Of India's Forest Area	2.28%

Table 717a: District-wise Forest Cover of Manipur

District-wise Forest Cover

(Area in km²)

District	Geo-graphical Area	Very Dense Forest	Mod. Dense Forest	Open Forest	Total	Percent of GA	Change	Scrub
Bishnupur TH	496	0	1	20	21	4.23	0	1
Chandel TH	3,313	0	710	2,097	2,807	84.73	18	156
Churachandpur TH	4,570	36	1,633	2,626	4,295	93.98	9	70
Imphal East TH	669	0	52	190	242	36.17	22	11
Imphal West TH	559	0	17	39	56	10.02	1	1
Senapati TH	3,271	229	822	1,126	2,177	66.55	4	308
Tamenglong TH	4,391	281	1,707	1,766	3,754	85.49	-111	84
Thoubal TH	514	0	3	97	100	19.46	45	10
Ukhru TH	4,544	181	980	2,381	3,542	77.95	16	541
Grand Total	22,327	727	5,925	10,342	16,994	76.11	4	1,182

Figure 7.17: Forest Cover Map of Manipur

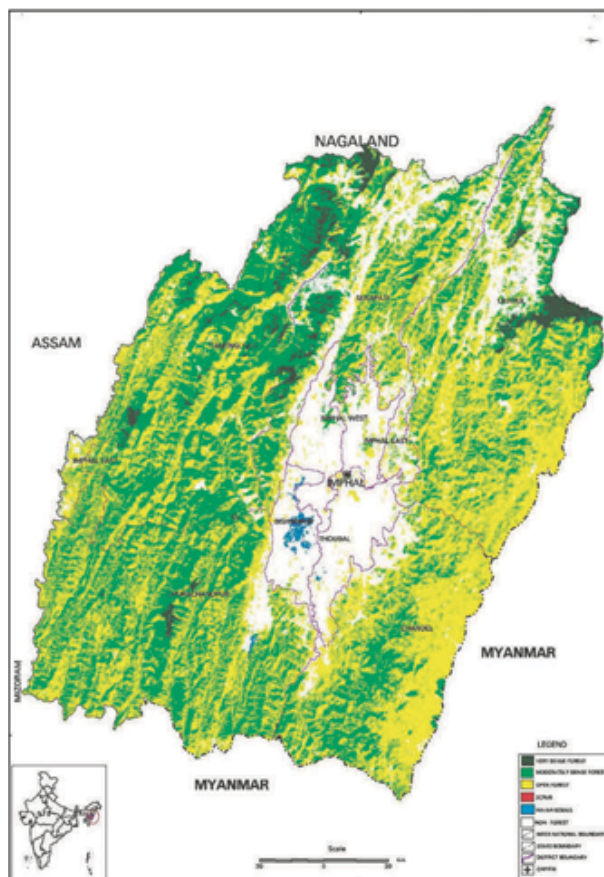


Table 7.17b Change Matrix of Manipur

Forest Cover Change Matrix (Area in km²)

Class	2015 Assessment					Total ISFR 2013
	VDF	MDF	OF	Scrub	NF	
Very Dense Forest	725	0	1	1	1	728
Moderately Dense Forest	1	5,869	69	34	121	6,094
Open Forest	0	13	9,489	259	407	10,168
Scrub	0	0	0	1	0	1
Non Forest	1	43	783	887	3,622	5,336
Total ISFR 2015	727	5,925	10,342	1,182	4,151	22,327
Net Change	-1	-169	174	1181	-1185	

Table 7.17c : Altitude-wise Forest Cover of Manipur

Altitude-wise Forest Cover (Area in km²)

Altitude Zone	VDF	MDF	OF	Total
0-500m	7	781	2,260	3,048
500-1000m	18	1,844	4,140	6,002
1000-2000m	389	3,128	3,854	7,371
2000-3000m	313	172	88	573
Total	727	5,925	10,342	16,994

(Based on SRTM, Digital Elevation Model)

Reasons for change detected in 2015 assessment:

The increase in forest cover is due to plantation and conservation activities.