

TOF (Rural) and TOF (Urban) inventory separately.

The data processing was carried out separately for rural and urban areas. In rural areas, the estimation of growing stock was carried out for block, linear and scattered strata. The area figures for block and linear strata were obtained by digital interpretation of remote sensing data, whereas the area of scattered stratum was obtained by subtracting the area of block and linear patches from rural CNF area. In case of urban stratum, the area was taken from office of Registrar General of India. Species and diameter class-wise number of stems enumerated in sample plots were used for calculating stems per hectare under each stratum. The corresponding volume per hectare was also calculated using volume equations available with FSI. To obtain the growing stock in TOF of the district, the information on number of stems and volume per hectare and area of each stratum was

used. Using information of the selected districts, growing stock of the physiographic zone was estimated. The country wide growing stock estimate of TOF was generated by adding the estimates of physiographic zones.

5.4 Results

5.4.1 Physiographic Zone-wise Growing Stock of TOF

The physiographic zone-wise growing stock is estimated using the information on inventoried districts falling in that physiographic zone. For the current cycle, this information is available for TOF only as the forest inventory was not carried out during the years 2008-10. The estimates given in this ISFR are based on 30709 sample plots laid out in 178 districts during 2004 to 2010. The physiographic zone-wise growing stock (volume) in TOF is presented in Table 5.4.1.

Table 5.4.1: Physiographic Zone-wise Growing Stock (Volume)

Physiographic Zone	Area of Phy. Zone (km ²)	Growing Stock (m cum)
Western Himalayas	329,255	191.23
Eastern Himalayas	74,618	67.11
North East	133,990	93.67
Northern Plains	295,780	101.96
Eastern Plains	223,339	102.36
Western Plains	319,098	66.10
Central Highlands	373,675	108.52
North Deccan	355,988	83.00
East Deccan	336,289	191.49
South Deccan	292,416	127.59
Western Ghats	72,381	117.47
Eastern Ghats	191,698	67.73
West Coast	121,242	141.98
East Coast	167,494	88.21
TOTAL	3,287,263	1548.42

The total growing stock of wood in TOF area of the country is estimated to be 1,548.42 m cum with a S.E.% of 2.64. The maximum growing stock in TOF is estimated in East Deccan (191.49 m cum) followed by Western Himalayas (191.23 m cum) and West Coast (141.98 m cum).

5.4.2 Growing Stock in TOF for top ten Species:

The percentage distribution of growing stock of top 10 species in TOF has been presented in Table 5.4.2. The top ten species have been determined on the basis of volume. The corresponding percentage of stems has also been given in the table. National level growing stock of major species by diameter class for TOF has been presented in Annexure III.

Mangifera indica contributes the maximum volume of 10.05 % followed by *Cocos nucifera* (8.14%) and *Borassus flabelliformis* (7.00 %)

5.4.3 State/UT-wise Growing Stock in Forests and TOF

To estimate growing stock of each state/UT, the physiographic zone level estimates of growing stock were processed further using small area estimation technique. One state may fall in one or more physiographic zones. To estimate the growing stock of the state, the un-inventoried districts of state falling in a particular zone were estimated using average value of that physiographic zone. The same exercise was repeated for different physiographic zones falling in that state. Adding growing stock estimates of different physiographic zones, growing stock for the respective state was estimated. It may be noted that in some of the states/UTs, estimates for growing stock are only indicative in nature and may have lower levels of precision since the sample size in such states/UTs is small. The estimates of growing stock in the states and UTs are given in Table 5.4.3.

Table 5.4.2 Growing Stock in TOF for top ten Species

S.No.	Species	Total volume %	Total stems %
1.	<i>Mangifera indica</i>	10.05	6.32
2.	<i>Cocos nucifera</i>	8.14	6.38
3.	<i>Borassus flabelliformis</i>	7.00	3.24
4.	<i>Azadirachta indica</i>	4.53	4.85
5.	<i>Madhuca latifolia</i>	3.91	0.48
6.	<i>Pinus roxburghii</i>	3.21	3.82
7.	<i>Prosopis cineraria</i>	2.39	2.87
8.	<i>Eucalyptus species</i>	2.32	2.89
9.	<i>Acacia arabica</i>	2.34	3.62
10.	<i>Albizzia species</i>	1.66	0.79

Table 5.4.3: State/UT-wise Growing Stock in Forests and TOF

State/UT	Geographical Area (km ²)	Recorded Forest Area (km ²)	Volume of Growing Stock (m. cum)		
			In Forest	In TOF	Total
Andhra Pradesh	275069	63814	255.082	115.683	370.765
Arunachal Pradesh	83743	51540	492.689	74.516	567.205
Assam	78438	26832	173.494	41.336	214.830
Bihar	94163	6473	35.186	47.195	82.381
Chhattisgarh	135191	59772	334.381	70.069	404.450
Delhi	1483	85	1.705	1.040	2.745
Goa	3702	1224	7.716	3.895	11.611
Gujarat	196022	18927	48.261	117.993	166.254
Haryana	44212	1559	4.893	15.268	20.161
Himachal Pradesh	55673	37033	321.314	21.146	342.460
Jammu & Kashmir	222236	20230	227.388	147.745	375.133
Jharkhand	79714	23605	116.308	51.308	167.616
Karnataka	191791	38284	315.156	101.733	416.889
Kerala	38863	11265	142.582	49.059	191.641
Madhya Pradesh	308245	94689	249.661	85.106	334.767
Maharashtra	307713	61939	293.669	147.029	440.698
Manipur	22327	17418	70.878	10.691	81.569
Meghalaya	22429	9496	45.411	20.964	66.375
Mizoram	21081	16717	68.042	9.392	77.434
Nagaland	16579	9222	40.955	12.681	53.636
Orissa	155707	58136	285.191	73.624	358.815
Punjab	50362	3084	15.710	19.305	35.015
Rajasthan	342239	32639	34.385	81.560	115.945
Sikkim	7096	5841	18.832	2.017	20.849
Tamil Nadu	130058	22877	144.404	70.328	214.732
Tripura	10486	6294	21.864	7.391	29.255
Uttar Pradesh	240928	16583	123.400	81.683	205.083
Uttarakhand	53483	34651	460.089	20.917	481.006
West Bengal	88752	11879	92.515	45.693	138.208
A & N Islands	8249	7171	53.185	0.666	53.851
Chandigarh	114	34	0.288	0.084	0.372
Dadra & Nagar Haveli	491	204	3.994	0.833	4.827
Daman & Diu	112	8	0.010	0.108	0.118
Lakshadweep	32	0	0.000	0.049	0.049
Puducherry	480	13	0.093	0.320	0.413
Total	3287263	769538	4498.731	1548.427	6047.158