

Annexure -IV**ESTIMATED NUMBER OF TREES CONSTITUTING
ONE HECTARE OF TREE COVER****(Based on DBH and Crown Area Relationship)**

The following Tables give average number of trees constituting one hectare of tree cover (70 percent canopy density) for different diameter classes and for the prominent species within each Physiographic Zone. The species have been listed according to prominence. It may be noted that these statistics are for trees generally growing outside forest area.

1. Western Himalayas

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Mangifera indica</i> (Aam)	440	226	143	101	76
<i>Acacia catechu</i> (Khair)	430	306	237	194	164
<i>Pinus roxburghii</i> (Chir)	422	206	136	102	81
<i>Quercus incana</i> (Ban oak)	530	314	230	186	160
<i>Dalbergia sissoo</i> (Shisham)	394	316	198	141	37
<i>Mallotus philippinensis</i> (Rohini)	470	243	164	123	99
<i>Grewia species</i>	476	261	180	137	111
<i>Ficus species</i>	471	260	180	137	111
<i>Lannea coromandelica</i> (Jhingan)	358	209	148	114	93
<i>Celtis australis</i> (Kharik)	543	308	214	165	134
<i>Pyrus pashia</i>	794	357	244	195	169
<i>Syzygium cumini</i> (Jamun)	563	302	177	114	79
<i>Bauhinia species</i> (Kachanar)	657	374	262	201	163
<i>Morus species</i> (Tut)	610	444	349	287	244
<i>Prunus species</i>	365	189	128	96	77
<i>Eucalyptus species</i> (Nilgiri)	518	304	188	125	88
<i>Cedrela toona</i> (Toon)	539	361	224	144	98
Other species	726	300	199	155	124

2. Eastern Himalayas

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Terminalia myriocarpa</i> (Hollock)	669	456	134	83	56
<i>Erythrina variegata</i> (Coral tree)	658	563	450	333	267
<i>Gmelina arborea</i> (Gamar)	688	391	274	210	171
<i>Bombax ceiba</i> (Semal)	578	200	121	87	68
<i>Artocarpus heterophyllus</i>	480	190	118	86	68

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Albizzia species</i> (Siris)	439	144	97	78	71
<i>Delonix regia</i> (Gulmohar)	467	280	200	156	127
<i>Mangifera indica</i> (Aam)	415	190	116	80	59
<i>Eucalyptus hybrid</i> (Nilgiri)	388	240	148	97	67
<i>Melia azadirachta</i> (Bakkain)	826	412	275	206	165
<i>Juglans regia</i> (Akhrot)	438	245	170	131	106
<i>Pyrus species</i>	417	271	210	179	163
<i>Cocos nucifera</i> (Coconut)	713	672	592	-	-
<i>Macaranga species</i>	555	180	156	116	92
<i>Prunus species</i>	340	204	146	113	93
Other species	820	269	171	126	101

3. North East

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Areca catechu</i> (Supari)	2273	1262	873	-	-
<i>Mangifera indica</i> (Aam)	332	132	82	60	47
<i>Cocos nucifera</i> (Coconut)	1009	511	344	-	-
<i>Artocarpus heterophyllus</i>	469	180	112	81	63
<i>Gmelina arborea</i> (Gamar)	583	350	250	194	159
<i>Tectona grandis</i> (Teak)	559	299	204	155	125
Other species	481	168	108	83	69

4. Northern Plains

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Mangifera indica</i> (Aam)	370	190	146	135	109
<i>Eucalyptus species</i> (Nilgiri)	595	344	242	187	152
<i>Dalbergia sisoo</i> (Shisham)	635	285	183	135	107
<i>Azadirachta indica</i> (Neem)	288	152	113	98	93
<i>Acacia nilotica</i> (Babul)	470	282	201	157	128
<i>Syzygium cumini</i> (Jamun)	541	307	213	162	130
<i>Morus species</i> (Tut)	778	550	426	347	293
<i>Ficus species</i>	491	295	210	163	134
<i>Prosopis juliflora</i>	804	400	266	199	159
<i>Psidium guava</i> (Amrud)	323	126	78	-	-
<i>Melia azadirachta</i> (Bakkain)	700	420	300	233	191
Other species	829	451	310	236	190

5. Eastern Plains

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Areca catechu</i> (Supari)	2626	1581	1131	-	-
<i>Mangifera indica</i> (Aam)	308	155	104	78	62
<i>Cocos nucifera</i> (Coconut)	837	502	359	-	-
<i>Borassus flabellifer</i> (Tad-Palmyra palm)	1486	471	419	-	-
<i>Dalbergia sissoo</i> (Shisham)	556	374	258	185	137
<i>Azadirachta indica</i> (Neem)	255	142	99	75	61
<i>Artocarpus heterophyllus</i>	327	241	191	158	134
<i>Acacia nilotica</i> (Babul)	295	129	90	74	68
<i>Samanea saman</i> (Rain tree)	681	101	54	37	28
<i>Lannea coromandelica</i>	221	154	130	124	122
<i>Eucalyptus species</i> (Nilgiri)	467	280	200	156	127
<i>Acacia auriculiformis</i> (Australian Babul)	391	161	103	77	62
<i>Bombax ceiba</i> (Semal)	560	330	191	119	80
<i>Albizia species</i> (Siris)	407	180	116	85	67
<i>Syzygium cumini</i> (Jamun)	558	263	172	128	102
<i>Anthocephalus cadamba</i> (Kadamb)	280	165	117	91	74
<i>Leucaena leucocephala</i> (Su-babul)	304	146	96	72	57
Other species	710	225	134	95	74

6. Western Plains

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Prosopis cineraria</i> (Khejri)	432	203	133	99	78
<i>Prosopis juliflora</i> (Mesquite)	747	318	213	160	128
<i>Zizyphus species</i> (Ber)	309	171	118	90	73
<i>Acacia nilotica</i> (Babul)	370	157	99	73	57
<i>Eucalyptus species</i> (Nilgiri)	513	359	259	190	145
<i>Capparis deciduas</i>	221	135	97	76	62
<i>Azadirachta indica</i> (Neem)	246	149	107	84	68
Other species	314	157	105	79	63

7. Central Highlands

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Prosopis cineraria</i> (Khejri)	557	302	172	108	73
<i>Acacia nilotica</i> (Babul)	352	189	129	98	79
<i>Butea monosperma</i> (Palash)	540	319	227	176	143
<i>Azadirachta indica</i> (Neem)	493	260	160	109	79

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Zizyphus species</i> (Ber)	439	263	188	146	119
<i>Mangifera indica</i> (Aam)	528	230	147	108	85
<i>Acacia catechu</i> (Khair)	574	437	353	296	255
<i>Tectona grandis</i> (Teak)	524	234	151	111	88
Other species	681	366	210	145	112

8. North Deccan

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Acacia nilotica</i> (Babul)	481	297	215	169	139
<i>Azadirachta indica</i> (Neem)	564	297	201	152	123
<i>Butea monosperma</i> (Palash)	481	305	223	176	145
<i>Zizyphus mauritiana</i> (Ber)	305	182	130	101	83
<i>Mangifera indica</i> (Aam)	369	168	115	91	78
<i>Tectona grandis</i> (Teak)	516	195	120	87	68
<i>Acacia lenticularis</i> (Safed Babul)	557	413	382	270	208
<i>Terminalia arjuna</i> (Arjun)	254	152	109	85	69
<i>Syzygium cumini</i> (Jamun)	443	306	168	97	61
<i>Albizia procera</i> (Safed Siris)	604	179	108	79	64
<i>Prosopis juliflora</i> (Mesquite)	651	323	215	161	129
<i>Pongamia pinnata</i> (Karanji)	389	244	177	139	115
<i>Eucalyptus species</i> (Nilgiri)	494	272	160	102	70
<i>Madhuca latifolia</i> (Mahua)	394	191	126	94	75
<i>Moringa species</i> (Drum sticks)	482	258	176	134	108
<i>Ficus racemosa</i>	579	152	92	69	57
Other species	524	254	171	128	103

9. East Deccan

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Butea monosperma</i> (Palash)	524	248	163	121	96
<i>Madhuca latifolia</i> (Mahua)	336	173	116	87	70
<i>Mangifera indica</i> (Aam)	285	161	112	86	70
<i>Azadirachta indica</i> (Neem)	350	161	112	89	78
<i>Acacia nilotica</i> (Babul)	357	163	105	78	62
<i>Zizyphus species</i> (Ber)	344	174	116	87	70
<i>Syzygium cumini</i> (Jamun)	466	177	109	79	62
<i>Terminalia crenulata</i> (True laurel)	594	356	230	159	116
<i>Lagerstroemia parviflora</i> (Lendia)	536	322	230	179	146
<i>Acacia auriculiformis</i> (Australian Babul)	557	441	320	229	167

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Artocarpus heterophyllus</i>	573	362	190	108	68
<i>Bombax ceiba</i> (Semal)	340	269	170	157	126
<i>Psidium guava</i> (Amrud)	263	95	-	-	-
Other species	452	233	157	118	95

10. South Deccan

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Cocos nucifera</i> (Coconut)	943	413	264	-	-
<i>Azadirachta indica</i> (Neem)	473	179	110	80	62
<i>Pongamia pinnata</i> (Karanji)	340	217	200	162	129
<i>Mangifera indica</i> (Aam)	361	161	97	66	49
<i>Eucalyptus species</i> (Nilgiri)	480	219	124	80	56
<i>Tamarindus indica</i> (Imli)	495	191	112	75	56
<i>Butea monosperma</i> (Palash)	589	313	213	162	130
<i>Albizia lebbek</i> (Kala Siris)	365	153	97	71	56
<i>Albizia amara</i>	2577	1532	1090	846	691
<i>Casuarina equisetifolia</i>	644	278	177	130	103
<i>Acacia suma</i>	374	143	88	64	50
<i>Ficus benghalensis</i> (Banyan)	178	72	45	33	26
<i>Melia azadirachta</i> (Bakkain)	831	512	370	289	238
<i>Artocarpus heterophyllus</i>	302	149	99	74	59
Other species	448	193	123	90	71

11. Western Ghat

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Mangifera indica</i> (Aam)	454	278	200	156	128
<i>Tectona grandis</i> (Teak)	465	235	157	118	95
<i>Zizyphus mauritiana</i> (Ber)	413	294	228	187	158
<i>Grewia tiliaefolia</i>	536	303	212	162	132
<i>Tamarindus indica</i> (Imli)	400	128	76	54	42
<i>Casuarina equisetifolia</i>	485	161	80	47	32
<i>Azadirachta indica</i> (Neem)	265	146	103	81	68
<i>Bombax ceiba</i> (Semal)	332	211	155	122	101
<i>Pithecellobium dulce</i>	423	221	149	113	91
Other species	491	175	106	76	60

12. Eastern Ghat

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Pongamia pinnata</i> (Karanji)	310	255	188	134	97
<i>Mangifera indica</i> (Aam)	421	170	107	78	61
<i>Tamarindus indica</i> (Imli)	505	189	116	84	65
<i>Anacardium occidentale</i> (Cashew nut)	347	253	199	164	140
<i>Eucalyptus species</i> (Nilgiri)	563	186	112	80	62
<i>Cocos nucifera</i> (Coconut)	819	407	226	-	-
<i>Albizia lebbek</i> (Kala Siris)	437	161	99	71	55
Other species	967	393	261	206	115

13. West Coast

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Anacardium occidentale</i> (Cashew nut)	357	136	84	61	48
<i>Mangifera indica</i> (Aam)	457	283	205	161	132
<i>Acacia catechu</i> (Khair)	476	208	133	98	78
<i>Cocos nucifera</i> (Coconut)	844	445	302	-	-
<i>Terminalia paniculata</i>	521	378	216	127	81
<i>Tectona grandis</i> (Teak)	606	266	170	125	99
<i>Syzygium cumini</i> (Jamun)	474	284	203	158	129
<i>Artocarpus heterophyllus</i>	415	195	127	94	75
<i>Bombax ceiba</i> (Semal)	466	252	173	131	106
<i>Gmelina arborea</i> (Gamari)	573	344	246	191	156
Other species	477	237	162	130	105

14. East Coast

Species name	Diameter Class (in cm)				
	10-20	20-30	30-40	40-50	50+
<i>Borassus flabellifer</i> (Tad-Palmyra palm)	1060	555	345	-	-
<i>Azadirachta indica</i> (Neem)	362	121	73	52	40
<i>Mangifera indica</i> (Aam)	418	267	197	156	129
<i>Eucalyptus species</i> (Nilgiri)	448	268	185	138	108
<i>Prosopis juliflora</i>	421	176	111	81	64
<i>Anacardium occidentale</i> (Cashew nut)	312	134	85	62	49
<i>Tamarindus indica</i> (Imli)	359	185	125	94	75
<i>Tectona grandis</i> (Teak)	458	225	149	111	89
Other species	297	155	109	89	71