

Forests & Protected Areas

List of Tables

- 10.1:** Assessment of Recorded Forest Area in Nagaland
- 10.2:** Assessment of Forest Cover
- 10.3:** Year-wise Forest Cover
- 10.4:** District-wise Forest Cover
- 10.5:** Forest Cover Change Matrix
- 10.6:** Altitude-wise Forest Cover
- 10.7:** Forest Cover within/outside Green Wash
- 10.8:** Estimates of Tree Cover
- 10.9:** Growing Stock in different Forest Area
- 10.10:** Grants-in-Aids for Forests
- 10.11:** Detail of National Parks, Wildlife Sanctuaries
- 10.12:** Revenue and Expenditure of the Forest Department
- 10.13:** Classification of Forest Area

Table 10.1: Assessment of Recorded Forest Area in Nagaland

(in sq. km.)

Forest	Year of Assessment		
	2011	2013	2015
Reserved Forests	86	86	86
Protected Forest	508	508	508
Un classed Forest	8628	8628	8628
Total Forest Area	9222	9222	9222
% of Forest Area to State's Geographical Area	64.79	64.79	55.62
% of India's Forest Area	1.20	1.20	1.20

Table 10.2: Assessment of Forest Cover

(in sq. km.)

Forest	Year of Assessment		
	2011	2013	2015
Very Dense Forest	1293	1298	1296
Moderate Dense Forest	4931	4736	4695
Open Forest	7094	7010	6975
Total Forest Cover	13318	13044	12966
% of Forest Cover to State's Geographical Area	80.33	78.68	78.21
% of India's Forest Area	1.92	1.87	1.85

Table 10.3: Year-wise Forest Cover

(in sq. km.)

Year of Assessment	Total Forest Cover
2001	13980
2003	14015
2005	13719
2007	13464
2009	13464
2011	13318
2013	13044
2015	12966

Source (Tables 10.1-10.3): Forest Survey of India, Dehradun, Uttarakhand, Ministry of Environment, Forest and Climate Change, Govt. of India (India State of Forest Report, 2011, 2013, 2015).
<http://fsi.nic.in/> (accessed on 16.05.2016)

Table 10.4: District-wise Forest Cover

(in sq. km.)

District	Geographical Area (G.A.)	2015 Assessment				Percent of G.A. (%)	Change	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Dimapur	758	0	73	338	411	54.22	-16	2
Koima	3283	290	1,130	1,443	2,863	87.21	-34	115
Mokokchung	1615	3	514	827	1,344	83.22	-16	39
Mon	1786	32	446	792	1,270	71.11	67	136
Phek	2026	275	652	757	1,684	83.12	-8	77
Tuensang	4228	610	1014	1458	3082	72.89	-44	171
Wokha	1628	1	483	856	1,340	82.31	-14	13
Zunheboto	1255	85	383	504	972	77.45	-13	69
Grand Total	16579	1296	4695	6975	12966	78.21	-78	622

Table 10.5: Forest Cover Change Matrix

(in sq. km)

2013 Assessment	2015 Assessment					Total (ISFR 2013)
	VDF	MDF	OF	Scrub	NF	
Very Dense Forest (VDF)	1296	0	0	0	2	1298
Moderately Dense Forest	0	4695	6	1	34	4736
Open Forest	0	0	6771	40	199	7010
Scrub	0	0		2	0	2
Non Forest (NF)	0	0	198	579	2756	3533
Total (ISFR 2015)	1296	4695	6975	622	2991	16579
Net Change	-2	-41	-35	620	-542	

Source (Tables 10.4-10.5): Forest Survey of India, Dehradun, Uttarakhand, Ministry of Environment, Forest and Climate Change, Govt. of India (India State of Forest Report, 2011, 2013, 2015).
<http://fsi.nic.in/> (accessed on 20.06.2016)

Table 10.6: Altitude-wise Forest Cover

(in sq. km.)

Altitude Zone	2015 Assessment			
	VDF	MDF	OF	Total
0-500	0	1212	1933	3145
500-1000	26	1375	2431	3832
1000-2000	661	1863	2462	4986
2000-3000	599	239	145	983
3000-4000	10	6	4	20
Total	1296	4695	6975	12966

VDF=Very Dense Forest; MDF= Moderate Dense Forest; OF= Open Forest

Table 10.7: Forest Cover within/outside Green Wash

(in sq. km.)

Forest Cover within Green Wash	
Very Dense Forest	1162
Moderately Dense Forest	3308
Open Forest	4442
Sub Total	8912
Forest Cover outside Green Wash	
Very Dense Forest	134
Moderately Dense Forest	1387
Open Forest	2533
Sub Total	4054
Total Forest Cover	12966
Tree Cover	381
Total Forest & Tree Cover	13347
Per capita Forest & Tree Cover	0.675 ha
Of State's Geographical Area	80.50%
Of India's Forest & Tree Cover	1.68%

Table 10.8: Estimates of Tree Cover

Year	Tree Cover	
	Area (sq. km.)	% of G.A.
2011	322	1.94
2013	372	2.24
2015	381	2.30

Source(Tables 10.6-10.8): Forest Survey of India, Dehradun, Uttarakhand, Ministry of Environment, Forest and Climate Change, Govt. of India (India State of Forest Report, 2011, 2013, 2015).
<http://fsi.nic.in/> (accessed on 16.06.2016)

Table 10.9: Growing Stock in different Forest Area

Growing Stock	2015 Assessment
	(volume in million cum)
Growing Stock in Recorded Forest Area	36.85
Growing Stock in TOF	12.20

TOF= Tree outside Forests

Source: Forest Survey of India, Dehradun, Uttarakhand, Ministry of Environment, Forest and Climate Change, Govt. of India (India State of Forest Report, 2015).
<http://fsi.nic.in/> (accessed on 16.06.2016)

Table 10.10: Grants-in-Aids for Forests by 13th Finance Commission

(in Rs. Crore)

Year	Grant-in-Aids
2010-11	17.32
2011-12	17.32
2012-13	34.64
2013-14	34.64
2014-15	34.64
2010-2015	138.56

Source: Indian Council Forestry Research Education (ICFRE), MoEF&CC, Govt. of India; State Forest Departments (Forestry Statistics India, 2011).
<http://www.icfre.org/UserFiles/File/Institute-ICFRE/2013/Stat/Forestry-stat-07Mar13.htm>
 (accessed on 20.06.2016)

Table 10.11: Detail of National Parks, Wildlife Sanctuaries

Name of District	Name of NPs /Sanctuaries/ Conservation Reserve	Year of Establishment	Area (km ²)
National Parks (1)			
Dimarpur	Intanki	1993	202.02
Total Area			202.02
Wildlife Sanctuaries (3)			
Tuensang	Fakim WLS	1980	6.41
Kohima	Puliebadze WLS	1980	9.23
Dimapur	Rangapahar WLS	1986	4.70
Total Area			20.34

Source: Wildlife Institute of India, MoEF&CC, Govt. of India
http://wii.gov.in/images//images/documents/n_parks_nov_2015.pdf
http://wii.gov.in/images//images/documents/wls_nov_2015.pdf (accessed on 22.06.2016)

Table 10.12: Revenue and Expenditure of the Forest Department

(Rs. in Lakhs)

Year	Revenue	Expenditure		Total
		Plan	Non-Plan	Plan + Non-Plan
2003-04	269.00	218.49	1396.82	1615.31
2004-05	355.81	660.00	1595.60	2255.60
2006-07	555.37	1335.00	1642.22	2977.22
2007-08	425.53	1780.00	1819.13	3599.13
2008-09	467.49	2173.73	2331.00	4504.73
2009-10	526.67	2721.56	2657.98	5379.54
2011-12	386.27	4019.00	4047.16	8066.16
2012-13	370.06	4385.55	4304.8	8690.35
2013-14	381.63	3570.97	4730.13	8301.10

Source: Principal Chief Conservator of Forest, Directorate of Economics & Statistics, Kohima, Nagaland
 (Statistical Handbook of Nagaland, 2014).
<http://statistics.nagaland.gov.in/hierdoc.aspx?sel=294> (accessed on 03.6.2016)

Table 10.13: Classification of Forest Area

(in ha)

Particular	2009-10		2011-12		2012-13		2013-14	
	Forest Area	% To Total Forest Area	Forest Area	% To Total Forest Area	Forest Area	% To Total Forest Area	Forest Area	% To Total Forest Area
Legal Status								
Reserved Forest	8583	0.99	6226	0.72	6226.00	0.72	6226.00	0.72
Purchased Forest	19247	2.23	19247	2.23	19247.00	2.23	19247.00	2.23
Protected Forest	50756	5.88	51679	5.99	51679.00	5.99	51679.00	5.99
Wild Life Sanctuary	22237	2.58	3469	0.40	3469.00	0.40	3469.00	0.40
National Park			20202	2.34	20202.00	2.34	20202.00	2.34
Village Forest	477827	55.37						
(Accessible Forest)			477827	55.37	477827.00	55.37	477827.00	55.37
Degraded Forest	284280	32.94	284280	32.95	284280.00	32.94	284280.00	32.94
Total of Village Forest			762107	100	762107.00	88.32	762107.00	88.32
Ownership								
State	100823	11.68			100823.00	11.76	100823.00	11.76
Private	762107	88.32			762107.00	88.24	762107.00	88.24

Source: Directorate of Economics & Statistics, Kohima, Nagaland (Statistical Handbook of Nagaland, 2014).
<http://statistics.nagaland.gov.in/hierdoc.aspx?sel=294> (accessed on 03.6.2016)