

Forests & Protected Areas

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Table 10.1: Assessment of Recorded Forest Area

(in sq. km.)

Forest	Year of Assessment		
	2011	2013	2015
Reserved Forests	7,909	7,909	4483
Protected Forest	3,568	3,568	0
Un classed Forest	5,240	5,240	1,158
Total Forest Area	16,717	16,717	5,641
% of Forest Area to State's Geographical Area	79.30	79.30	26.76
% of India's Forest Area	2.17	2.17	0.74

Table 10.2: Assessment of Forest Cover

(in sq. km.)

Forest	Year of Assessment		
	2011	2013	2015
Geographical Area	21,081	21,081	21,081
Very Dense Forest	134	138	138
Moderate Dense Forest	6,086	5,900	5,858
Open Forest	12,897	13,016	12,752
Total Forest Cover	19,117	19,054	18,748
% of Forest Cover to State's Geographical Area	90.68	90.35	88.93
% of India's Forest Area	2.76	2.73	2.67

Table 10.3: Year-wise Forest Cover

(in sq. km.)

Year of Assessment	Total Forest Cover
2001	16,397
2003	18,583
2005	18,684
2007	19,240
2009	19,240
2011	19,117
2013	19,054
2015	18,748

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 16.08.2016)

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			
Aizwal	3575	28	1135	2022	3185	89.09	-64	0
Champhai	3185	60	1042	1570	2673	83.92	-93	0
Kolasib	1382	0	187	1027	1214	87.84	-15	0
Lawngtlai	2557	0	705	1632	2337	91.40	-13	0
Lunglei	4536	1	1186	2954	4141	91.29	-55	0
Mamit	3025	43	654	2044	2741	90.61	-35	0
Sahia	1400	0	551	696	1247	89.07	-18	0
Serchhip	1421	6	398	807	1211	85.22	-13	0
Grand Total	21081	138	5858	12752	18748	88.93	-306	0

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)	138	0	0	0	0	138
Moderately Dense Forest	0	5858	4	0	38	5900
Open Forest	0	0	12744	0	272	13016
Scrub	0	0	0	0	0	0
Non Forest (NF)	0	0	4	0	2023	2027
Total (ISFR 2015)	138	5858	12752	0	2333	21081
Net Change	0	-42	-264	0	306	

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 20.08.2016)

Table 10.6: Altitude-wise Forest Cover

(in sq. km.)

Altitude Zone	2015 Assessment			
	VDF	MDF	OF	Total
0-500m	1	1713	6499	8213
500-1000m	37	2718	4588	7343
1000-2000m	99	1426	1665	3190
2000-3000m	1	1	0	2
Total	138	5858	12752	18748

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	136
Moderately Dense Forest	5700
Open Forest	12517
Sub Total	18353
Forest Cover outside Green Wash	
Very Dense Forest	2
Moderately Dense Forest	158
Open Forest	235
Sub Total	395
Total Forest Cover	18748
Tree Cover	535
Total Forest & Tree Cover	19283
Per capita Forest & Tree Cover(ha)	1769
Of State's Geographical Area (%)	91.47
Of India's Forest & Tree Cover (%)	2.43

Table 10.8: Estimates of Tree Cover

Year	Tree Cover	
	Area (sq. km.)	% of G.A.
2011	190	0.90
2013	223	1.06
2015	535	2.54

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 16.08.2016)

Table 10.9: Growing Stock in different Forest Area

Growing Stock	2015 Assessment
	(volume in million Cu. M)
Growing Stock in Recorded Forest Area	60.59
Growing Stock in TOF	8.91

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 16.08.2016)

Table 10.10: Out-turn of Forest Procedure & Revenue Collected

Items	Unit	2012-2013		2013-2014		2014-2015 up to January	
		Quantity extracted	Revenue (Rs. in Lakh)	Quantity extracted	Revenue (Rs. in Lakh)	Quantity extracted	Revenue (Rs. in Lakh)
Sawn Timber							
DTO	Cu. M	278.48	178.72	922.53	56.27	726.6	5.42
Seized & Compounded	Cu. M	1548.35	30.13	7364	56.85	69.97	31.57
Auction Sale	Cu. M	38231	27.29	L.S.	9.71	L.S.	42.38
Firewood							
Permit System	Cu. M	693	0.40	2245.5	1.31	322	0.24
Illegal/ Seized	Cu. M	583.6	1.54	2244	2.21	581	0.88
Bamboo							
Permit	Lakh	0.59	0.70	9.29	27.95	21.41	8.96
Illegal	Lakh	2.25	28.42	0.99	4	0.54	3.53
Broom stick							
Permit	Qtls.	535	2.50	87	0.11	187.70	1.31

Source: Planning & Programme Implementation Department, Government of Mizoram (Economic Survey Mizoram, 2014-15).
<http://www.mizofin.nic.in/file/b%2015-16/Mizoram%20Economic%20Survey%202014-15.pdf>
 (Accessed on 10.08.2016)

Table 10.11: Revenue and Expenditure From/On Forests

Year	2010-11	2011-12	2012-13	2013-14
Revenue	20655	17800	18700	23800
Expenditure	1036703	632282	821781	928610
Net Revenue/Deficit	-1016048	-614481	-803081	-904810

Source: Indian Council of Forestry Research and Education, Ministry of Statistics & Programme Implementation, (Statistical Year Book, India, 2016).
<http://www.mospi.gov.in/statistical-year-book-india/2016> (Accessed on 10.07.2016)

Table 10.12: Grants-in-Aids for Forests by 13th Finance Commission

Year	Grant-in-Aid(in Rs.Crore)
2010-11	21.4
2011-12	21.4
2012-13	42.8
2013-14	42.8
2014-15	42.8
2010-2015	171.2

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 20.08.2016)

Table 10.13: Detail of National Parks, Wildlife Sanctuaries

Name of District	Name of NPs /Sanctuaries/ Conservation Reserve	Year of Establishment	Area (km ²)
National Parks (2)			
Champhai	Murlen	1991	100.00
Lawngtlai	Phawngpui Blue Mountain	1992	50.00
Total Area			150.00
Wildlife Sanctuaries (8)			
	Dampa WLS	1985	500.00
	Khawnglung WLS	1992	35.00
	Lengteng WLS	1999	60.00
	Ngengpui WLS	1991	110.00
	Pualreng WLS	2004	50.00
	Tawi WLS	1978	35.75
	Thorangtlang WLS	2002	50.00
	Tokalo WLS	2007	250.00
Total Area			1090.75

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 10.14: Forest Occupancy and Population Estimates of Tigers as Per the Refined Methodology

Area km ²		Tiger			Tiger			Tiger		
		No.			Lower Limit			Upper Limit		
2006	2010	2006	2010	2014	2006	2010	2014	2006	2010	2014
785	416	6	5	3 +	4	-	-	8	-	-

Note: * From Camera trap data and scat DNA
+ From scat DNA.

Source: Annual Report, Ministry of Environment & Forests, Ministry of Statistics & Programme Implementation, (Statistical Year Book, India, 2016).

<http://www.mospi.gov.in/statistical-year-book-india/2016> (Accessed on 10.07.2016)

Table 10.15: Quantity of Forest Produce

Year	Teak (Cu. M)	Round Timber (Cu. M)	Sawn Timber (Cu. M)	Fire- Wood (Cu. M)	Bam Boo (*000 Nos.)	Broomstick (Qtls.)	Anchiri (Qtls.)
2003 - 04	-	-	1980.00	-	70800	4070.00	-
2004 - 05	-	-	85.00	-	100,800	275.00	-
2005 - 06	-	-	117.00	-	75200	3375.00	-
2006 - 07	-	-	1924.00	-	72800	4430.00	-
2007 - 08	-	-	21311.00	-	23440	1500.00	-
2008 - 09	3671.73	74.07	1217.29	2114.97	6126	1280.00	3,127
2009 - 10	-	11.40	605.00	5027.42	4257	9000.00	1078
2010 - 11	110.00	39.00	1203.00	7165.00	3586	1727.00	Nil **
2011 - 12	-	5.77	1461.00	7468.00	452	2227.00	-
2012 - 13	1681.42	417.00	2221.53	73318.00	113	5787.25	-

(-) Nil

* Teak quantity extracted as shown in column 3 for the year 2008-2009 was private teak production which was transported outside Mizoram.

** Operation of Anchiri Mahal and permit was stopped during 2010-11.

Source: Directorate of Economics & Statistics, Govt. of Mizoram (Statistical Abstract of Mizoram, 2013).
<http://desmizo.nic.in/file/Abstract2013.pdf> (Accessed on 10.8.2016)