9.33

Dadra & Nagar Haveli

9.33.1 Introduction

The Union Territory of Dadra & Nagar Haveli is situated on the western side of the foothills of Western Ghats and has an area of 491 sq km. It comprises of two distinct geographical units, namely; Dadra and Nagar Haveli which have a hilly terrain generally inclining towards the north-east and east, surrounded by the Sahyadri range of Western Ghats. The average annual rainfall ranges between 2,000 to 2,500mm. The average annual temperature ranges between 25 °C to 27.5 °C. The terrain is intersected by the river Damanganga and its three tributaries. The population of the UT as per Census, 2011 is 0.34 million which is 0.03% of the country's population. Of this, rural population is 53.28% and urban population is 46.72%. The population density is 700 per sq km. The 19th Livestock census 2012 reported the livestock population as 0.05 million.

Table 9.33.1 Land Use Pattern

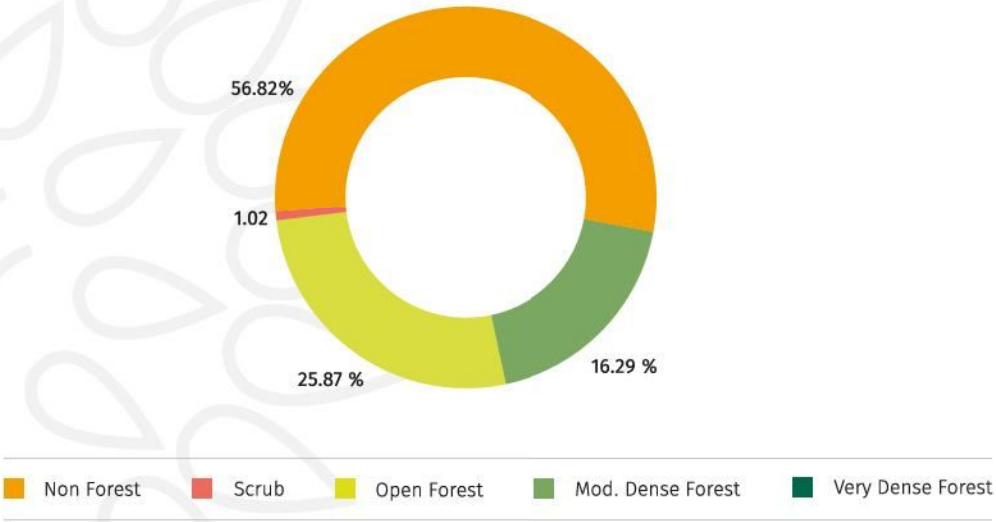
Land Use Types	Area (in 000' ha)	Percentage
Total Geographic Area	49	
Reporting area for land utilization	48.88	100
Forests	20.35	41.63
Not available for land cultivation	3.76	7.69
Permanent pastures and other grazing lands	0.92	1.88
Land under misc. tree crops and groves	0	0
Culturable wasteland	0.47	0.96
Fallow land other than current fallows	2.14	4.38
Current fallows	2.31	4.73
Net area sown	18.93	38.73

Source: Land Use Statistics, Ministry of Agriculture, GOI, 2013-14.

9.33.2

Forest Cover

Based on interpretation of satellite data pertaining to Oct-Dec 2015, the forest cover in the UT is 207 sq km which is 42.16% of the UT's geographical area. In terms of forest canopy density classes, the UT has 80 sq km under moderately dense forest and 127 sq km under open forest.



Forest cover of Dadra & Nagar Haveli

Pie chart showing forest cover of Dadra & Nagar Haveli

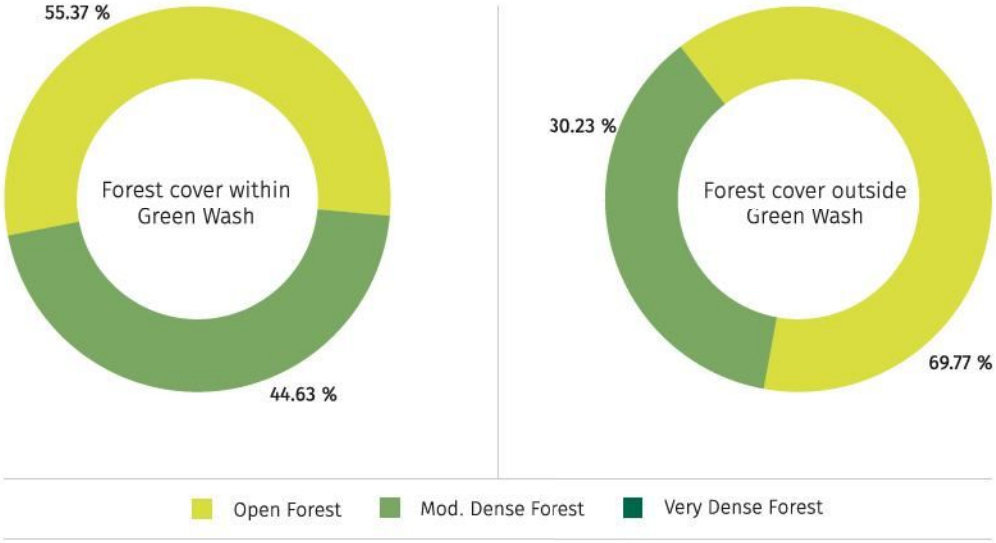
9.33.3

Forest Cover within and outside Green Wash Area

The recorded forest area of the UT is 204 sq km which is 41.55% of its geographical area. The Reserved and Protected Forests are 97.55% and 2.45% respectively of the recorded forest area. Due to non-availability of digitized boundary of recorded forest area from the UT, the updated green wash which is 180 sq km has been used and the analysis of forest cover within and outside this area is depicted below.

Table 9.33.2 Forest Cover within and outside Green Wash Area

Forest Cover within Green Wash (Area in sq km)	
Very Dense Forest (VDF)	0
Moderately Dense Forest (MDF)	54
Open Forest (OF)	67
Total	**121**
Forest Cover outside Green Wash	
Very Dense Forest	0
Moderately Dense Forest	26
Open Forest	60
Total	**86**
Total Forest Cover	**207**
Tree Cover	**30**
Total Forest & Tree Cover	**237**
Of UT's Geographical Area	48.27%
Of India's Forest & Tree Cover	0.03%
Per capita Forest & Tree Cover	0.07 ha



Pie charts showing forest cover within and outside Green Wash area

Table 9.33.3 Altitude-wise Forest Cover (Area in sq km)

Altitude Zone (m)	Geographical Area	VDF	MDF	OF	Total
0-500	491	0	80	127	207
Total	**491**	**0**	**80**	**127**	**207**

(Based on SRTM, Digital Elevation Model)

Table 9.33.4 Forest Cover in different Patch Size Classes

S.No.	Patch Size Range in (sq km)	No. of Patches	Area (sq km)	%age
1.	≥ 0.01 ≤ 1.0	168	20	9.67
2.	> 1.0 ≤ 10	10	21	10.14
3.	> 10 ≤ 100	5	166	80.19
	Total	**183**	**207**	**100**

Table 9.33.5 Growing Stock

	Growing Stock	% Contribution to country
Growing Stock in Recorded Forest Area	1.850 m cum	0.04
Growing Stock in TOF	0.785 m cum	0.05
Potential Production of industrial wood from TOF	0.03 m cum	0.04
Bamboo bearing area within forest area of the UT	58 sq km	0.04
Total number of culms	11 millions	0.04
Total green weight equivalent of culms	**79 (000' tonnes)**	**0.04**

9.33.4

Carbon Stock

The total Carbon stock of forests in the UT is 1.425 million tonnes (5.225 million tonnes of CO_2 equivalent) which is 0.02% of total forest carbon of the country.

9.33.5

Decadal Change in water bodies within Forest

An increase of 0.10 sq km has been observed in the water body coverage within Forest compared to 2005. The graphical and tabular comparison is depicted below.

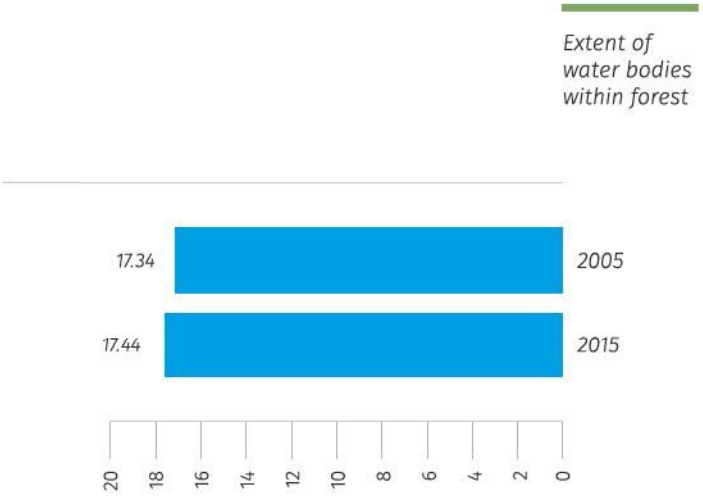


Table 9.33.6 Water bodies within Forest for the years 2005 and 2015

Area/Coverage	2005	2015
Extent of water bodies (sq km) within Forest	17.34	17.44
% of water bodies to Forest Cover	8.03	8.42

Table 9.33.7 District- wise Forest Cover (area in sq km)

District	Geographical Area	2017 Assessment				% of GA	Change *	Scrub
		Very Dense Forest	Mod. Dense Forest	Open Forest	Total			
Dadra & Nagar Haveli[T]	491	0	80	127	207	42.16	1	5
Total	**491**	**0**	**80**	**127**	**207**	**42.16**	**1**	**5**

*Change compared to updated 2015 assessment.

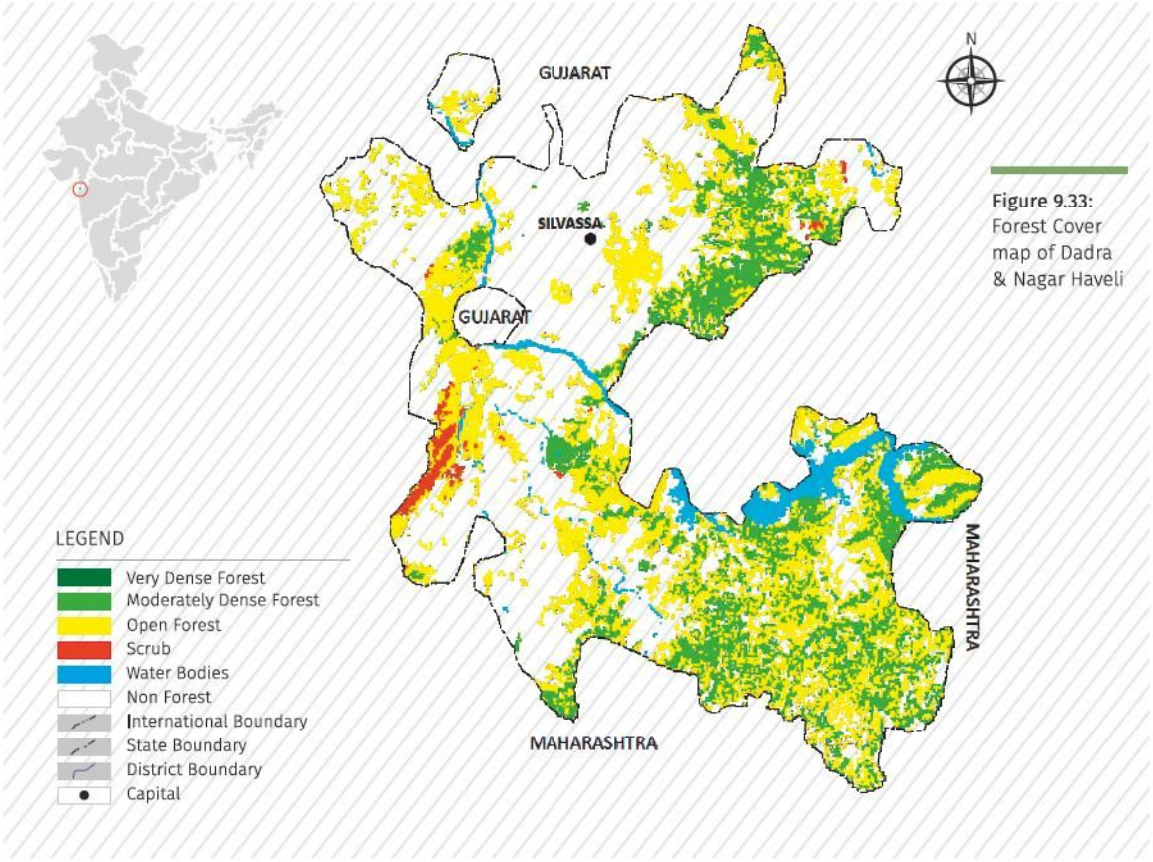


Figure 9.33: Forest Cover map of Dadra & Nagar Haveli

Table 9.33.8 Forest Cover Change Matrix (area in sq km)

Class	2017 Assessment					Total ISFR 2015 updated
	VDF	MDF	OF	Scrub	NF	
Very Dense Forest	0	0	0	0	0	0
Moderately Dense Forest	0	80	0	0	0	80
Open Forest	0	0	126	0	0	126
Scrub	0	0	0	5	0	5
Non Forest	0	0	1	0	279	280
Total ISFR 2017	**0**	**80**	**127**	**5**	**279**	**491**
Net Change	0	0	1	0	-1	

9.33.6

Reasons for change detected in 2017 assessment

An increase of 1 sq km in forest cover observed is due to increase in tree cover outside recorded forest areas.