



Daman & Diu

9.34.1 Introduction

Daman and Diu is a Union Territory on the west coast. Daman is located in the Gulf of Cambay and Diu is an Island located in the same Gulf. The geographical area of Daman and Diu is 111 sq km which constitutes 0.003% of the total area of the country. The average annual rainfall ranges between 2,300 to 4,800mm and the mean annual temperature ranges between 25°C to 28°C. The UT has two districts of which one is tribal. As per Census 2011, the population of the UT is 0.24 million which constitutes 0.02% of the country's population. Of this, rural population is 24.83% and urban population accounts for 75.17%. The population density is 2,191 persons per sq km. The livestock population of the UT is 0.004 million as per 19th Livestock Census, 2012.

Table 9.34.1 Land Use Pattern

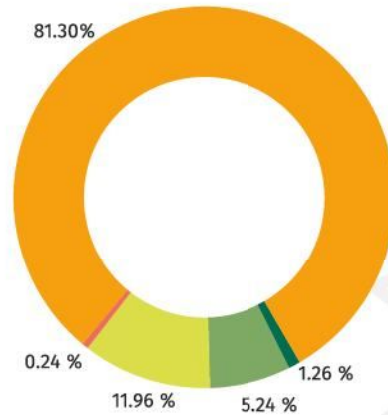
Land Use Types	Area (in 000' ha)	Percentage
Total Geographic Area	11	
Reporting area for land utilization	3.15	100
Forests	0	0
Not available for land cultivation	0.18	5.72
Permanent pastures and other grazing lands	0	0
Land under misc. tree crops and groves	0.06	1.90
Culturable wasteland	0.06	1.90
Fallow land other than current fallows	0.01	0.32
Current fallows	0.11	3.49
Net area sown	2.73	86.67

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

9.34.2

Forest Cover

Based on interpretation of satellite data pertaining to Oct-Dec 2015, the forest cover in the UT is 20.49 sq km which is 18.46% of the UT's geographical area. In terms of forest canopy density classes, the UT has 1.40 sq km under very dense forest, 5.82 sq km under moderately dense forest and 13.27 sq km under open forest.



Forest cover of Daman & Diu

Pie chart showing forest cover of Daman & Diu



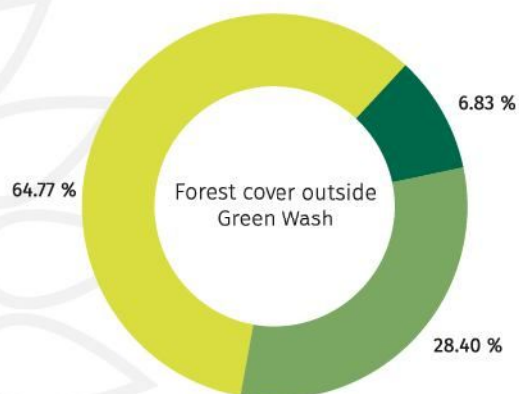
9.34.3

Forest Cover within and outside Green Wash Area

The Recorded Forest Area of UT is 8 sq km all of which is unclassified and constitutes 7.21% of its geographical area. There are no Green wash areas in the UT as per Survey of India toposheets. Therefore all forests fall outside green wash area.

Table 9.34.2 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)	0
Open Forest (OF)	0
Total	0
Forest Cover outside Green Wash	
Very Dense Forest	1.4
Moderately Dense Forest	5.82
Open Forest	13.27
Total	20.49
Total Forest Cover	20.49
Tree Cover	10
Total Forest & Tree Cover	30.49
Of UT's Geographical Area	27.47%
Of India's Forest & Tree Cover	0.004%
Per capita Forest & Tree Cover	0.01 ha



Pie chart showing forest cover outside Green wash area

■ Open Forest
 ■ Mod. Dense Forest
 ■ Very Dense Forest

Table 9.34.3 Altitude-wise Forest Cover (area in sq km)

Altitude Zone (m)	Geographical Area	VDF	MDF	OF	Total Forest
0-500	111	1.40	5.82	13.27	20.49
Total	111	1.40	5.82	13.27	20.49

(Based on SRTM, Digital Elevation Model)

Table 9.34.4 Forest Cover in different Patch Size Classes

S.No.	Patch Size Range (sq km)	No. of Patches	Area(sq km)	%age
1.	$\geq 0.01 \leq 1.0$	151	12.03	58.71
2.	$> 1.0 \leq 10$	3	8.46	41.29
	Total	154	20.49	100

Table 9.34.5 Growing Stock

	Growing Stock	% Contribution to country
Growing Stock in Recorded Forest Area	0.001 m cum	0.00002
Growing Stock in TOF	0.115 m cum	0.01
Potential Production of industrial wood from TOF	0.01 m cum	0.01
Bamboo bearing area within forest area of the UT	-	-
Total number of culms	-	-
Total green weight equivalent of culms		

9.34.4

Carbon Stock

The total Carbon stock of forests in the UT is 0.091 million tonnes (0.333 million tonnes of CO₂ equivalent) which is 0.001% of total forest carbon of the country.

9.34.5

Decadal Change in water bodies within Forest

An increase of 0.63 sq km has been observed in the water body coverage within forest compared to 2005. The graphical and tabular comparison is depicted below.

Extent of
water bodies
within forest

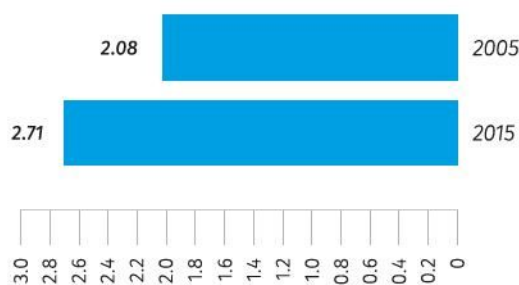


Table 9.34.6 Water bodies within Forest for the years 2005 and 2015

Area/ Coverage	2005	2015
Extent of water bodies (sq km) within Forest	2.08	2.71
% of water bodies to Forest Cover	34.67	13.23

Table 9.34.7 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				
Daman ^T	72	0	2.04	8.92	10.96	15.22	0.85	0.27
Diu	39	1.40	3.78	4.35	9.53	24.44	0.03	0
Grand Total	111	1.40	5.82	13.27	20.49	18.46	0.88	0.27

*Change compared to updated 2015 assessment.

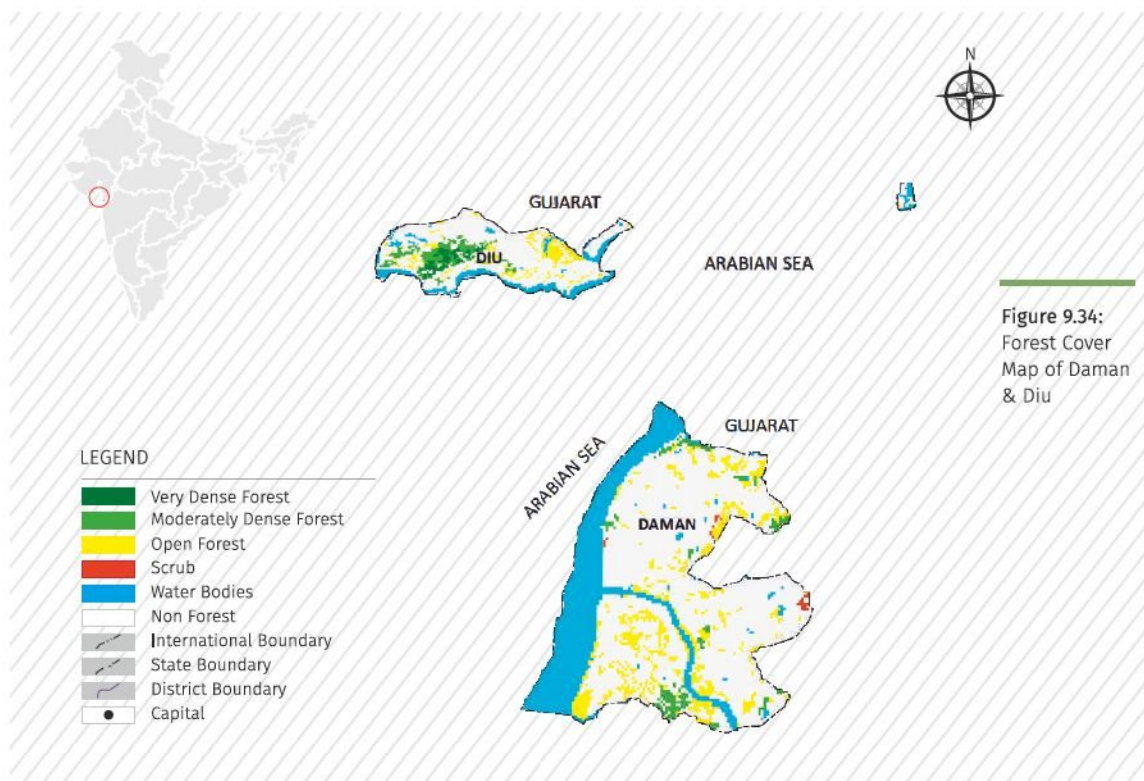


Figure 9.34:
Forest Cover
Map of Daman
& Diu

Table 9.34.8 Forest Cover Change Matrix

(area in sq km)

Class	2017 Assessment				Total ISFR 2015 updated
	VDF	MDF	OF	Scrub	
Very Dense Forest	1.4	0	0	0	1.4
Moderately Dense Forest	0	5.82	0	0	5.82
Open Forest	0	0	12.39	0	12.39
Scrub	0	0	0.28	0.27	0.55
Non Forest	0	0	0.6	0	90.24
Total ISFR 2017	1.4	5.82	13.27	0.27	90.24
Net Change	0	0	0.88	-0.28	-0.6

9.34.6

Reasons for change detected in 2017 assessment

A small increase of 0.88 sq km in forest cover observed in the UT can be attributed to expansion of tree cover outside the recorded forest area.