



Food and Agriculture
Organization of the
United Nations

Global Forest Resources Assessment 2020

Desk Study

Sint Maarten (Dutch part)

Rome, 2020



FAO has been monitoring the world's forests at 5 to 10 year intervals since 1946. The Global Forest Resources Assessments (FRA) are now produced every five years in an attempt to provide a consistent approach to describing the world's forests and how they are changing. The FRA is a country-driven process and the assessments are based on reports prepared by officially nominated National Correspondents. If a report is not available, the FRA Secretariat prepares a desk study using earlier reports, existing information and/or remote sensing based analysis.

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Introduction

Introductory text

No official report has been received from Sint Maarten. This report is the result of a desk study prepared by the FRA secretariat in Rome, which summarizes existing available information using the established format for FRA 2020 country reports.

Sint Maarten Island is located in the Caribbean Sea. The terrain is hilly except for the western portion, which forms a large lagoon.

Saint Martin average about 27° C and have about 1 100 mm per year. Precipitation is higher at higher elevations. In the FAO global map of ecological zones the islands belongs to the tropical shrubland zone.^[1]

^[1] Country Profiles Netherlands Antilles – Department of Forest <http://www.fao.org/forestry/country/en/> . FAO. Retrieved April 10, 2017.

1 Forest extent, characteristics and changes

1a Extent of forest and other wooded land

National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Methods used	Years	Additional comments
Source unknown. Vegetation map of St.Maarten. 2010. Published on Dutch Caribbean biodiversity Database	Full cover vegetation mapping	Not available	Shape file available at https://www.dcbd.nl/document/vegetation-map-stmaarten No definition and documentation could be found on the map
Rojer, A.,1997. Biological inventory of St. Maarten. KNAP project 96-10	Biodiversity inventory	1996	The document was used to confirm classes definition in the vegetation map
MacRae D.R., Nisbeth B.M. St. Maarten Proposed Land Parks Management Plan 2009. 2008 Coastal Zone Management (UK), Nature Foundation St. Maarten (St. Maarten).	Vegetation description		The document was used to support the reclassification of the the vegetation map classes

National classification and definitions

Class	Definition
Beach	
Botriochloa-Ruellia Hills	not provided in the document
Erythroxylum-Pisonia Hills	not provided in the document
Erythroxylum-Randia Hills	not provided in the document
Krugiodendron-Pisonia Lowlands	not provided in the document
Laguncularia-Conocarpus Lowlands	not provided in the document
Lantana Talinum Hills	not provided in the document
Leucaena-Antigonon Hills	not provided in the document
Panicum-Capparis Hills	not provided in the document
Ruellia-Botriochloa Hills	not provided in the document
Urbanized area	

Original data

Class	Area in ha	Area in 1,000 ha	Calibrated area in ha	Calibrated area in 1,000 ha	Percentage (%)
Beach	8.5	0.008	8.4	0.008	0.2
Botriochloa-Ruellia Hills	371.4	0.371	370.7	0.371	10.9
Erythroxylum-Pisonia Hills	717.7	0.718	716.4	0.716	21.1
Erythroxylum-Randia Hills	301.3	0.301	300.7	0.301	8.8
Krugiodendron-Pisonia Lowlands	3.0	0.003	3.0	0.003	0.1
Laguncularia-Conocarpus Lowlands	38.0	0.038	38.0	0.038	1.1
Lantana Talinum Hills	53.3	0.053	53.3	0.053	1.6

Leucaena-Antigonon Hills	3.5	0.003	3.5	0.003	0.1
Panicum-Capparis Hills	13.3	0.013	13.3	0.013	0.4
Ruellia-Botriochloa Hills	41.9	0.042	41.8	0.042	1.2
Urbanized	1627.2	1.627	1624.2	1.624	47.8
Inland lake	227.0	0.227	226.6	0.227	6.7
TOTAL	3406	3.406	3400	3.400	100

Analysis and processing of national data

Estimation and forecasting

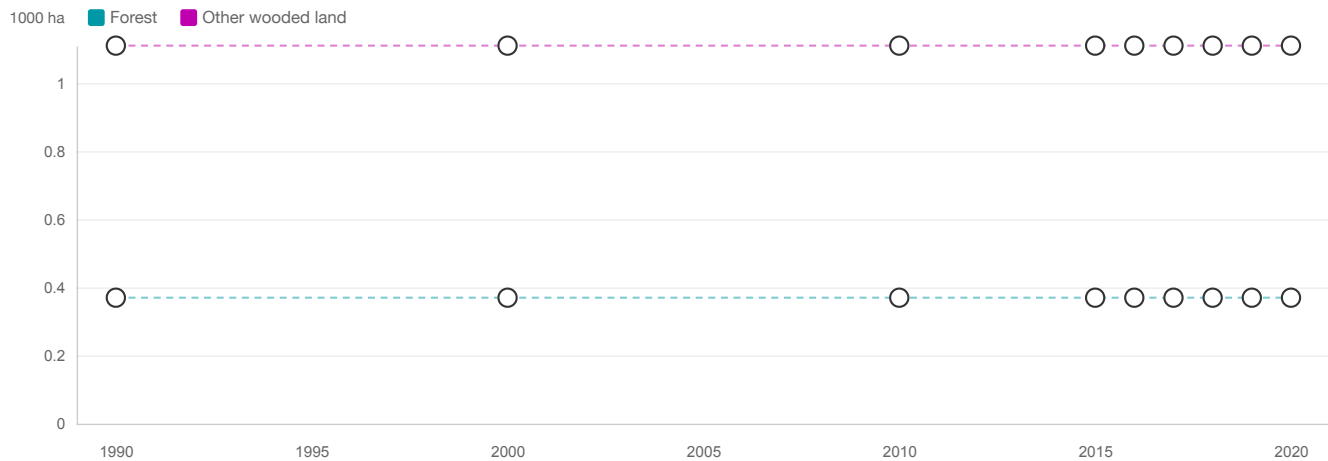
Area estimates were derived from the vegetation map shape file. Inland lake area was added, and the numbers were calibrated so the total area including Inland lake (3,406 ha) matches the official total area of Sin Maarten (Dutch part, 3,400 ha). The calibration factor is 3,400/3,600.

As no definition and class description was available for the map, other documentation, in particular Rojer (1997) and MacRae et al. (2006) was used to reclassify the vegetation classes into FRA 2020 categories.

While several authors (Rojer, 1997, Mac Rae 2009) report negative change and degradation in forest and other wooded land areas in the past decades in particular due to hurricane, free-roaming, urbanisation and tourism development, no estimates is available on area change so the forest and OWL area were considered constant.

Reclassification into FRA 2020 categories

Class	Forest	Other wooded land	Other land
Beach			100
Botriochloa-Ruellia Hills	100		0
Erythroxylum-Pisonia Hills	0	100	0
Erythroxylum-Randia Hills		100	0
Krugiodendron-Pisonia Lowlands			100
Laguncularia-Conocarpus Lowlands		100	0
Lantana Talinum Hills		100	0
Leucaena-Antigonon Hills		100	0
Panicum-Capparis Hills			100
Ruellia-Botriochloa Hills			100
Urbanized			100
Inland lake			100



FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Other wooded land (a)	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
Other land (c-a-b)	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92
Total land area (c)	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40

The FAOSTAT land area figure for the year 2015 is used for all reference years

Climatic domain	% of forest area 2015	Override value
Boreal	0.00	
Temperate	0.00	
Sub-tropical	0.00	
Tropical	100.00	

Comments

1b Forest characteristics

National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Methods used	Years	Additional comments
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National classification and definitions

From the vegetation map of St. Maarteen 2010 (source unknown):

Class	Definition
Beach	
Botriochloa-Ruellia Hills	not provided in the document
Erythroxylum-Pisonia Hills	not provided in the document
Erythroxylum-Randia Hills	not provided in the document
Krugiodendron-Pisonia Lowlands	not provided in the document
Laguncularia-Conocarpus Lowlands	not provided in the document
Lantana Talinum Hills	not provided in the document
Leucaena-Antigonon Hills	not provided in the document
Panicum-Capparis Hills	not provided in the document
Ruellia-Botriochloa Hills	not provided in the document
Urbanized area	

Original data

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Panicum-Capparis Hills	13.3	0.013	13.3	0.013	0.4
Ruellia-Botriochloa Hills	41.9	0.042	41.8	0.042	1.2
Urbanized	1627.2	1.627	1624.2	1.624	47.8
Inland lake	227.0	0.227	226.6	0.227	6.7
TOTAL	3406	3.406	3400	3.400	100

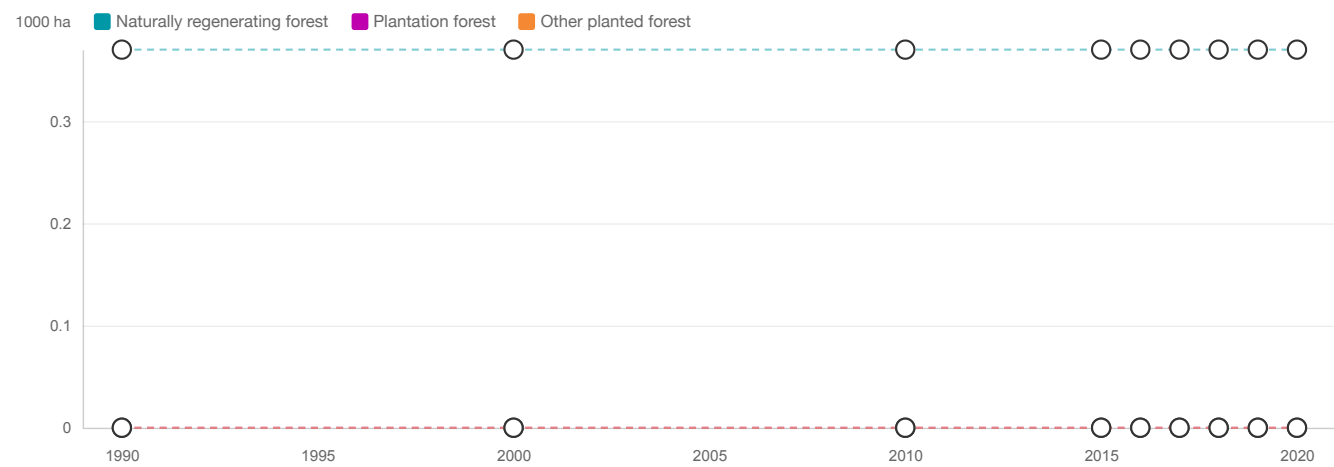
Analysis and processing of national data

Estimation and forecasting

No planted forest are reported in maps and vegetation deport. All forests are naturally regenerating.

Reclassification into FRA 2020 categories

Class	Forest	Other wooded land	Other land
Beach			100
Botriochloa-Ruellia Hills	100		0
Erythroxylum-Pisonia Hills	0	100	0
Erythroxylum-Randia Hills		100	0
Krugiodendron-Pisonia Lowlands			100
Laguncularia-Conocarpus Lowlands		100	0
Lantana Talinum Hills		100	0
Leucaena-Antigonon Hills		100	0
Panicum-Capparis Hills			100
Ruellia-Botriochloa Hills			100
Urbanized			100
Inland lake			100



FRA categories	Forest area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest (a)	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Planted forest (b)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plantation forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
...of which introduced species	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total (a+b)	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Total forest area	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37

Comments

1c Primary forest and special forest categories

National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Methods used	Years	Additional comments
Source unknown. Vegetation map of St.Maarten. 2010. Published on Dutch Caribbean biodiversity Database	Full cover vegetation mapping	Not available	Shape file available at https://www.dcbd.nl/document/vegetation-map-stmaarten No definition and documentation could be found on the map
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MacRae D.R., Nisbeth B.M. St. Maarten Proposed Land Parks Management Plan 2009. 2008 Coastal Zone Management (UK), Nature Foundation St. Maarten (St. Maarten).	Vegetation description		The document was used to support the reclassification of the the vegetation map classes

National classification and definitions

Class	Definition
Laguncularia-Conocarpus Lowlands	not provided in the document

Original data

Class	Area in ha	Area in 1,000 ha	Calibrated area in ha	Calibrated area in 1,000 ha	Percentage (%)
Laguncularia-Conocarpus Lowlands	38.0	0.038	38.0	0.038	1.1

Analysis and processing of national data

Estimation and forecasting

The area of mangrove was calibrated so the total area of the map and inland lake (3,406 ha) match the official total area of Sint Maarten (Dutch part) (3,400 ha). So a calibration factor of 3,400/3,406 was applied to the area calculated from the map shapefile.

Several authors (Rojer, MacRae) report decline and degradation of woodland mangrove extent in particular due to urbanization and hurricanes but no quantitative area change estimate is available so the area is given constant.

Reclassification into FRA 2020 categories

Class	Forest	OWL	Other land
Laguncularia-Conocarpus Lowlands		100	0

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Primary forest					
Temporarily unstocked and/or recently regenerated					
Bamboos	0.00	0.00	0.00	0.00	0.00
Mangroves	0.04	0.04	0.04	0.04	0.04
Rubber wood	0.00	0.00	0.00	0.00	0.00

Comments

1d Annual forest expansion, deforestation and net change

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Forest expansion (a)				
...of which afforestation				
...of which natural expansion				
Deforestation (b)				
Forest area net change (a-b)	0.00	0.00	0.00	0.00

Comments

No data available to assess changes.

1e Annual reforestation

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Reforestation	0.00	0.00	0.00	0.00

Comments

No reforestation reported.

1f Other land with tree cover

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Palms (a)					
Tree orchards (b)					
Agroforestry (c)					
Trees in urban settings (d)					
Other (specify in comments) (e)					
Total (a+b+c+d+e)	–	–	–	–	–
Other land area	1.92	1.92	1.92	1.92	1.92

Comments

No data available.

2 Forest growing stock, biomass and carbon

2a Growing stock

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Growing stock m³/ha (over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest									
Planted forest									
...of which plantation forest									
...of which other planted forest									
Forest									
Other wooded land									

FRA categories	Total growing stock (million m³ over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest									
Planted forest									
...of which plantation forest									
...of which other planted forest									
Forest									
Other wooded land									

Comments

No data available.

2b Growing stock composition

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Scientific name	Common name	Growing stock in forest (million m³ over bark)				
			1990	2000	2010	2015	2020
Native tree species							
#1 Ranked in terms of volume							
#2 Ranked in terms of volume							
#3 Ranked in terms of volume							
#4 Ranked in terms of volume							
#5 Ranked in terms of volume							
#6 Ranked in terms of volume							
#7 Ranked in terms of volume							
#8 Ranked in terms of volume							
#9 Ranked in terms of volume							
#10 Ranked in terms of volume							
Remaining native tree species							
Total volume of native tree species			–	–	–	–	–
Introduced tree species							
#1 Ranked in terms of volume							
#2 Ranked in terms of volume							
#3 Ranked in terms of volume							
#4 Ranked in terms of volume							
#5 Ranked in terms of volume							
Remaining introduced tree species							
Total volume of introduced tree species			–	–	–	–	–
Total growing stock			–	–	–	–	–

Comments

No data available.

2c Biomass stock

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass									
Below-ground biomass									
Dead wood									

Comments

No data available.

2d Carbon stock

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Forest carbon (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Carbon in above-ground biomass									
Carbon in below-ground biomass									
Carbon in dead wood									
Carbon in litter									
Soil carbon									

Soil depth (cm) used for soil carbon estimates	
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Comments

No data available.

3 Forest designation and management

3a Designated management objective

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

Primary designated management objective

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production (a)					
Protection of soil and water (b)					
Conservation of biodiversity (c)					
Social Services (d)					
Multiple use (e)					
Other (specify in comments) (f)					
None/unknown (g)	0.37	0.37	0.37	0.37	0.37
Total forest area	0.37	0.37	0.37	0.37	0.37

Total area with designated management objective

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production					
Protection of soil and water					
Conservation of biodiversity					
Social Services					
Other (specify in comments)					

Comments

No data available

3b Forest area within protected areas and forest area with long-term management plans

National Data

Data sources + type of data source eg NFI, etc

Nature Foudation Sint Maarten Web site (<https://naturefoundationsxm.org/preservation/>) visitied on March 2019

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest area within protected areas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forest area with long-term forest management plan									
...of which in protected areas									

Comments

There is currently no terrestrial protected areas in Sint Maarten.

4 Forest ownership and management rights

4a Forest ownership

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Forest area (1000 ha)			
	1990	2000	2010	2015
Private ownership (a)				
...of which owned by individuals				
...of which owned by private business entities and institutions				
...of which owned by local, tribal and indigenous communities				
Public ownership (b)				
Unknown/other (specify in comments) (c)	–	–	–	–
Total forest area	0.37	0.37	0.37	0.37

Comments

No data available.

4b Holder of management rights of public forests

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Forest area (1000 ha)			
	1990	2000	2010	2015
Public Administration (a)				
Individuals (b)				
Private business entities and institutions (c)				
Local, tribal and indigenous communities (d)				
Unknown/other (specify in comments) (e)	–	–	–	–
Total public ownership	–	–	–	–

Comments

No data available.

5 Forest disturbances

5a Disturbances

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha)																	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Insects (a)																		
Diseases (b)																		
Severe weather events (c)																		
Other (specify in comments) (d)																		
Total (a+b+c+d)	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Total forest area	0.37	–	–	–	–	–	–	–	–	–	0.37	–	–	–	–	0.37	0.37	0.37

Comments

No data available.

5b Area affected by fire

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha)																	
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total land area affected by fire																		
...of which on forest																		

Comments

No data available.

5c Degraded forest

Does your country monitor area of degraded forest		No
If "yes"	What is the national definition of "Degraded forest"?	
	Describe the monitoring process and results	

Comments

No data available.

6 Forest policy and legislation

6a Policies, Legislation and national platform for stakeholder participation in forest policy

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

Indicate the existence of	Boolean (Yes/No)	
	National	Sub-national
Policies supporting SFM		
Legislations and regulations supporting SFM		
Platform that promotes or allows for stakeholder participation in forest policy development		
Traceability system(s) for wood products		

Comments

No data available.

6b Area of permanent forest estate

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

FRA 2020 categories	Forest area (1000 ha)					
	Applicable?	1990	2000	2010	2015	2020
Area of permanent forest estate						

Comments

No data available.

7 Employment, education and NWFP

7a Employment in forestry and logging

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

FRA 2020 categories	Full-time equivalents (1000 FTE)											
	1990			2000			2010			2015		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Employment in forestry and logging												
...of which silviculture and other forestry activities												
...of which logging												
...of which gathering of non wood forest products												
...of which support services to forestry												

Comments

No data available.

7b Graduation of students in forest-related education

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

FRA 2020 categories	Number of graduated students											
	1990			2000			2010			2015		
	Total	Female	Male	Total	Female	Male	Total	Female	Male	Total	Female	Male
Doctoral degree												
Master's degree												
Bachelor's degree												
Technician certificate / diploma												
Total												

Comments

No data available.

7c Non wood forest products removals and value 2015

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

	Name of NWFP product	Key species	Quantity	Unit	Value (1000 local currency)	NWFP category
#1						
#2						
#3						
#4						
#5						
#6						
#7						
#8						
#9						
#10						
All other plant products						
All other animal products						
Total					-	

Name of currency	
------------------	--

Comments

No data available.

8 Sustainable Development Goal 15

8a Sustainable Development Goal 15

SDG Indicator 15.1.1 Forest area as proportion of total land area 2015

Indicator	Percent							
	2000	2010	2015	2016	2017	2018	2019	2020
Forest area as proportion of total land area 2015	10.88	10.88	10.88	10.88	10.88	10.88	10.88	10.88

Name of agency responsible	
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SDG Indicator 15.2.1 Progress towards sustainable forest management

Sub-Indicator 1	Percent						
	2000-2010	2010-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Forest area annual net change rate	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Name of agency responsible	
----------------------------	--

Sub-Indicator 2	Forest biomass (tonnes/ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass stock in forest	–	–	–	–	–	–	–	–

Name of agency responsible	
----------------------------	--

Sub-Indicator 3	Percent (2015 forest area baseline)							
	2000	2010	2015	2016	2017	2018	2019	2020
Proportion of forest area located within legally established protected areas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Name of agency responsible	
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Sub-Indicator 4	Percent (2015 forest area baseline)							
	2000	2010	2015	2016	2017	2018	2019	2020
Proportion of forest area under long-term forest management plan	–	–	–	–	–	–	–	–

Name of agency responsible	
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Sub-Indicator 5	Forest area (1000 ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Forest area under independently verified forest management certification schemes	0.00	0.00	0.00	0.00	0.00	0.00	–	–