



<COUNTRY NAME>

FAO, at the request of its member countries, regularly monitors the world's forests and their management and uses through the Global Forest Resources Assessment (FRA). This country report is prepared as a contribution to the FAO publication, the Global Forest Resources Assessment 2015 (FRA 2015). The content and the structure are in accordance with the recommendations and guidelines given by FAO in the document Guide for country reporting for FRA 2015 (<http://www.fao.org/3/a-au190e.pdf>). These reports were submitted to FAO as official government documents.

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Introduction

(Optional)

Topic I: FOREST AREA AND FOREST CHARACTERISTICS

Question 1 What is the area of forest and other wooded land and how has it changed over time?

1.1 FRA 2015 Categories and definitions

Category	Definition
Forest	Land spanning more than 0.5 hectares with trees higher than 5 meters and a canopy cover of more than 10 percent, or trees able to reach these thresholds <i>in situ</i> . It does not include land that is predominantly under agricultural or urban land use.
Other wooded land (OWL)	Land not defined as “Forest”, spanning more than 0.5 hectares; with trees higher than 5 meters and a canopy cover of 5-10 percent, or trees able to reach these thresholds; or with a combined cover of shrubs, bushes and trees above 10 percent. It does not include land that is predominantly under agricultural or urban land use.
Other land	All land that is not defined as “Forest” or “Other wooded land”.
... of which with tree cover (<i>sub-category</i>)	Land considered as “Other land”, that is predominantly agricultural or urban lands use and has patches of tree cover that span more than 0.5 hectares with a canopy cover of more than 10 percent of trees able to reach a height of 5 meters at maturity. It includes both forest and non-forest tree species.
Inland water bodies	Inland water bodies generally include major rivers, lakes and water reservoirs.
Forest expansion	Expansion of forest on land that, until then, was not defined as forest
...of which afforestation	Establishment of forest through planting and/or deliberate seeding on land that, until then, was not defined as forest.
...of which natural expansion of forest	Expansion of forests through natural succession on land that, until then, was under another land use (e.g. forest succession on land previously used for agriculture).
Deforestation	The conversion of forest to other land use or the permanent reduction of the tree canopy cover below the minimum 10 percent threshold.
...of which human induced (<i>sub-category</i>)	Human induced conversion of forest to other land use or the permanent reduction of the tree canopy cover below the minimum 10 percent threshold.
Reforestation	Natural regeneration or re-establishment of forest through planting and/or deliberate seeding on land already in forest land use.
...of which artificial reforestation (<i>sub-category</i>)	Re-establishment of forest through planting and/or deliberate seeding on land already in forest land use.

1.2 National data

1.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

1.2.2 Classification and definitions

National class	Definition

1.2.3 Original data

1.3 Analysis and processing of national data

1.3.1 Adjustment

1.3.2 Estimation and forecasting

1.3.3 Reclassification into FRA 2015 categories

1.4 Data

Table 1a

FRA 2015 categories	Area (000 hectares)				
	1990	2000	2005	2010	2015
Forest					
Other wooded land					
Other land					
...of which with tree cover					
Inland water bodies					
TOTAL					

Table 1b

FRA 2015 Categories	Annual forest establishment/loss (000 hectares per year) ¹⁾				...of which of introduced species ^{1 & 2)} (000 hectares per year)			
	1990	2000	2005	2010	1990	2000	2005	2010
Forest expansion								
...of which afforestation								
...of which natural expansion of forest								
Deforestation								
...of which human induced								
Reforestation								
...of which artificial								

¹⁾The figures for the reporting years refer to the average for the 5-year periods 1988-1992, 1998-2002, 2003-2007 and 2008-2012 respectively.

²⁾A species, subspecies or lower taxon, occurring outside its natural range (past or present) and dispersal potential i.e. outside the range it occupies naturally or could occupy without direct or indirect introduction or care by humans).

Tiers

Category	Tier for status	Tier for reported trend
Forest		
Other wooded land		
Forest expansion		
Deforestation		
Reforestation		

Tier criteria

Category	Tier for status	Tier for reported trend
Forest Other wooded land Forest expansion Deforestation Reforestation	<p>Tier 3: Data sources: Either recent (≤ 10 years ago) National Forest Inventory or remote sensing, with ground truthing, or programme for repeated compatible NFI's</p> <p>Tier 2: Data sources: Full cover mapping/remote sensing or old NFI (>10 years ago)</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>

1.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Forest		
Other wooded land		
Other land		
Other land with tree cover		
Inland water bodies		
Forest expansion		
Deforestation		
Reforestation		

Other general comments to the table

Expected year for completion of ongoing/planned <u>national forest inventory and/or RS survey / mapping or other effort to assess forest area</u>	
National forest inventory	
Remote sensing survey / mapping	
Other efforts	

2 What is the area of natural and planted forest and how has it changed over time?

2.1 FRA 2015 Categories and definitions

Term	Definition
Naturally regenerated forest	Forest predominantly composed of trees established through natural regeneration.
Naturalized introduced species	Other naturally regenerated forest where the tree species are predominantly non-native and do not need human help to reproduce/maintain populations over time.
Introduced species	A species, subspecies or lower taxon, occurring <u>outside</u> its natural range (past or present) and dispersal potential (i.e. outside the range it occupies naturally or could occupy without direct or indirect introduction or care by humans).
Category	Definition
Primary forest	Naturally regenerated forest of native species, where there are no clearly visible indications of human activities and the ecological processes are not significantly disturbed.
Other naturally regenerated forest	Naturally regenerated forest where there are clearly visible indications of human activities.
...of which of introduced species (sub-category)	Other naturally regenerated forest where the trees are predominantly of introduced species.
...of which naturalized (sub-sub category)	Other naturally regenerated forest where the trees are predominantly of naturalized introduced species.
Planted forest	Forest predominantly composed of trees established through planting and/or deliberate seeding.
...of which of introduced species (sub-category)	Planted forest, where the planted/seeded trees are predominantly of introduced species.
Mangroves	Area of forest and other wooded land with mangrove vegetation.
...of which planted (sub-category)	Mangroves predominantly composed of trees established through planting.

2.2 National data

2.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

2.2.2 Classification and definitions

National class	Definition

2.2.3 Original data

2.3 Analysis and processing of national data

2.3.1 Adjustment

2.3.2 Estimation and forecasting

2.3.3 Reclassification into FRA 2015 categories

2.4 Data

Table 2a

FRA 2015 Categories	Forest area (000 hectares)				
	1990	2000	2005	2010	2015
Primary forest					
Other naturally regenerated forest					
...of which of introduced species					
...of which naturalized					
Planted forest					
...of which of introduced species					
TOTAL					

Table 2b

Primary forest converted to (000 ha)								
1990-2000			2000-2010			2010-2015		
Other natural regeneration	Planted	Other land	Other natural regeneration	Planted	Other land	Other natural regeneration	Planted	Other land

Table 2c

FRA 2015 Categories	Area (000 hectares)				
	1990	2000	2005	2010	2015
Mangroves (Forest and OWL)					
...of which planted					

Tiers

Category	Tier for status	Tier for reported trend
Primary forest		
Other naturally regenerated forest		
Planted forest		
Mangroves		

Tier criteria

Category	Tier for status	Tier for reported trend
Primary forest/Other naturally regenerated forest/ Planted forest	<p>Tier 3: Data sources: Recent (<10 years) National Forest Inventory or remote sensing with ground truthing or data provided by official agencies or programme for repeated compatible NFIs</p> <p>Tier 2: Data sources: Full cover mapping/remote sensing or old NFI (>10 years)</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>

2.5 Comments

Category	Comments related to data, definitions, etc.	Comments on reported trend
Primary forest		
Other naturally regenerating forest		
Planted forest		
Mangroves		

Other general comments to the table

Topic II: PRODUCTION

3 What are the stocks and growth rates of the forests and how have they changed?

3.1 FRA 2015 Categories and definitions

Category	Definition
Growing stock	Volume over bark of all living trees with a minimum diameter of 10 cm at breast height (or above buttress if these are higher). Includes the stem from ground level up to a top diameter of 0 cm, excluding branches.
Net annual increment (NAI)	Average annual volume of gross increment over the given reference period less that of natural losses on all trees, measured to minimum diameters as defined for “ <i>Growing stock</i> ”.
Above-ground biomass	All living biomass above the soil including stem, stump, branches, bark, seeds, and foliage.
Below-ground biomass	All biomass of live roots. Fine roots of less than 2mm diameter are excluded because these often cannot be distinguished empirically from soil organic matter or litter.
Dead wood	All non-living woody biomass not contained in the litter, either standing, lying on the ground, or in the soil. Dead wood includes wood lying on the surface, dead roots, and stumps larger than or equal to 10 cm in diameter or any other diameter used by the country.
Carbon in above-ground biomass	Carbon in all living biomass above the soil, including stem, stump, branches, bark, seeds, and foliage.
Carbon in below-ground biomass	Carbon in all biomass of live roots. Fine roots of less than 2 mm diameter are excluded, because these often cannot be distinguished empirically from soil organic matter or litter.
Carbon in dead wood	Carbon in all non-living woody biomass not contained in the litter, either standing, lying on the ground, or in the soil. Dead wood includes wood lying on the surface, dead roots, and stumps larger than or equal to 10 cm in diameter or any other diameter used by the country.
Carbon in litter	Carbon in all non-living biomass with a diameter less than the minimum diameter for dead wood (e.g. 10 cm), lying dead in various states of decomposition above the mineral or organic soil.
Soil carbon	Organic carbon in mineral and organic soils (including peat) to a soil depth of 30 cm.

3.2 National data

3.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

3.2.2 Classification and definitions

National class	Definition

3.2.3 Original data

3.3 Analysis and processing of national data

3.3.1 Adjustment

3.3.2 Estimation and forecasting

3.3.3 Reclassification into FRA 2015 categories

3.4 Data

Table 3a

FRA 2015 category	Growing stock volume (million m ³ over bark)									
	Forest					Other wooded land				
	1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
Total growing stock										
... of which coniferous										
... of which broadleaved										

Table 3b

FRA 2015 category / Species name			Growing stock in forest (million cubic meters)			
Rank	Scientific name	Common name	1990	2000	2005	2010
1 st						
2 nd						
3 rd						
4 th						
5 th						
6 th						
7 th						
8 th						
9 th						
10 th						
Remaining						
TOTAL						

Note: Rank refers to the order of importance in terms of growing stock, i.e. 1st is the species with the highest growing stock. Year 2000 is the reference year for defining the species list and the order of the species.

THE PRE-FILLED VALUES FOR GROWING STOCK REFER TO THE FOLLOWING THRESHOLD VALUES (SEE TABLE BELOW)

Item	Value	Complementary information
Minimum diameter (cm) at breast height ¹ of trees included in growing stock (X)		
Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)		

¹ Diameter at breast height (DBH) refers to diameter over bark measured at a height of 1.30 m above ground level or 30 cm above buttresses if these are higher than 1 m.

Minimum diameter (cm) of branches included in growing stock (W)		
Volume refers to “above ground” (AG) or “above stump” (AS)		

PLEASE NOTE THAT THE DEFINITION OF GROWING STOCK HAS CHANGED AND SHOULD BE REPORTED AS GROWING STOCK DBH 10 CM INCLUDING THE STEM FROM GROUND LEVEL UP TO A DIAMETER OF 0 CM, EXCLUDING BRANCHES.

Table 3c

FRA 2015 category	Net annual increment (m ³ per hectare and year)				
	Forest				
	1990	2000	2005	2010	2015
Net annual increment					
... of which coniferous					
... of which broadleaved					

Table 3d

FRA 2015 category	Biomass (million metric tonnes oven-dry weight)									
	Forest					Other wooded land				
	1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
Above-ground biomass										
Below-ground biomass										
Dead wood										
TOTAL										

Table 3e

FRA 2015 Category	Carbon (Million metric tonnes)									
	Forest					Other wooded land				
	1990	2000	2005	2010	2015	1990	2000	2005	2010	2015
Carbon in above-ground biomass										
Carbon in below-ground biomass										
Sub-total: Living biomass										
Carbon in dead wood										
Carbon in litter										
Sub-total: Dead wood and litter										
Soil carbon										
TOTAL										

Tiers

Variable/category	Tier for status	Tier for reported trend
Total growing stock		
Net annual increment		
Above ground biomass		
Below ground biomass		
Dead wood		
Carbon in above-ground biomass		
Carbon in below-ground biomass		
Carbon in dead wood and litter		
Soil carbon		

Tier criteria

Category	Tier for status	Tier for reported trend
Total growing stock	<p>Tier 3: Data sources: Recent (< 10 years) National Forest Inventory or remote sensing with ground truthing or programme for repeated compatible NFI (< 10 years). Domestic volume functions</p> <p>Tier 2: Data sources: registers and statistics, modelling or old NFI (>10 years) or partial field inventory</p> <p>Tier 1: Other data sources</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status) Domestic growth functions</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>
Net annual increment	<p>Tier 3: Scientifically tested national volume and growth functions</p> <p>Tier 2: Selection of volume and growth functions as relevant as possible</p> <p>Tier 1: Other</p>	<p>Tier 3: Confirmation/adjustment of functions used through scientific work</p> <p>Tier 2: Review work done to seek alternative functions</p> <p>Tier 1: Other</p>
Biomass	<p>Tier 3: Country-specific (national or sub-national) biomass conversion expansion factors applied or other domestic, or otherwise nationally relevant, biomass studies</p> <p>Tier 2: Application of country specific national or sub-national biomass conversion factors from other country with similar climatic conditions and forest types</p> <p>Tier 1: International/regional default biomass expansion factors applied</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>
Carbon in above ground biomass	<p>Tier 3: Country-specific (national or sub-national) biomass conversion expansion factors applied</p> <p>Tier 2: Application of country specific national or sub-national biomass conversion factors from other country with similar climatic conditions and forest types.</p> <p>Tier 1: International/regional default biomass expansion factors applied</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>
Carbon in below ground biomass		
Carbon in dead wood and litter		
Soil carbon		

3.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Total growing stock		
Growing stock of broadleaved / coniferous		
Growing stock composition		
Net annual increment		
Above-ground biomass		
Below-ground biomass		
Dead wood		
Carbon in above-ground biomass		
Carbon in below-ground biomass		
Carbon in dead wood		
Carbon in litter		
Soil carbon		

Other general comments to the table

4 What is the status of forest production and how has it changed over time?

4.1 FRA 2015 Categories and definitions

Term	Definition
Primary designated function	The primary function or management objective assigned to a management unit either by legal prescription, documented decision of the landowner/manager, or evidence provided by documented studies of forest management practices and customary use.
Non wood forest product (NWFP)	Goods derived from forests that are tangible and physical objects of biological origin other than wood.
Commercial value of NWFP	For the purpose of this table, value is defined as the commercial market value at the forest gate.
Category	Definition
Production forest	Forest area designated primarily for production of wood, fibre, bio-energy and/or non-wood forest products.
Multiple use forest	Forest area designated for more than one purpose and where none of these alone is considered as the predominant designated function.
Total wood removals	The total of industrial round wood removals and woodfuel removals.
...of which woodfuel	The wood removed for energy production purposes, regardless whether for industrial, commercial or domestic use.

4.2 National data

4.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

4.2.2 Classification and definitions

National class	Definition

4.2.3 Original data

4.3 Analysis and processing of national data

4.3.1 Adjustment

4.3.2 Estimation and forecasting

4.3.3 Reclassification into FRA 2015 categories

4.4 Data

Table 4a

FRA 2015 Categories	Forest area (000 hectares)				
	1990	2000	2005	2010	2015
Production forest					
Multiple use forest					

Table 4b

Rank	Name of product	Key species	Commercial value of NWFP removals in 2010 (value 1000 local currency)	NWFP category
1 st				
2 nd				
3 rd				
4 th				
5 th				
6 th				
7 th				
8 th				
9 th				
10 th				
TOTAL				

	2010
Name of local currency	

Category
<u>Plant products / raw material</u>
1. Food
2. Fodder
3. Raw material for medicine and aromatic products
4. Raw material for colorants and dyes
5. Raw material for utensils, handicrafts & construction
6. Ornamental plants
7. Exudates
8. Other plant products
<u>Animal products / raw material</u>
9. Living animals
10. Hides, skins and trophies
11. Wild honey and bee-wax
12. Wild meat
13. Raw material for medicine
14. Raw material for colorants
15. Other edible animal products
16. Other non-edible animal products

Table 4c
Pre-filled data from FAOSTAT

Year	FRA 2015 category (1000 m ³ u.b.)	
	Total wood removals	...of which woodfuel
1990		
1991		
1992		
1993		
1994		
1995		
1996		
1997		
1998		
1999		
2000		
2001		
2002		
2003		
2004		
2005		
2006		
2007		
2008		
2009		
2010		
2011		

Tiers

Category	Tier for status	Tier for reported trend
Production forest		
Multiple use forest		

Tier category

Category	Tier for status	Tier for reported trend
Production forest	Tier 3: Updated, including field verifications, national forest maps including functions	Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)
Multiple use forest	Tier 2: Forest maps older than 6 years including forest functions Tier 1: Other	Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1: Other
Commercial value of NWFP removals	Tier 3: National or sum of sub-national reporting on the value of commercial NWFP at the forest gate Tier 2: Local or regional studies with market values calculated for removals transported to the forest gate Tier 1: Other	

4.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Production forest		
Multiple use forestry		
Commercial value of NWFP		
Total wood removals		

Other general comments to the table

Topic III: PROTECTIVE FUNCTIONS AND SELECTIVE ECOSYSTEM SERVICES

5 How much forest area is managed for protection of soil and water and ecosystem services?

5.1 FRA 2015 Categories and definitions

Category	Definition
Protection of soil and water	Forest area designated or managed for protection of soil and water.
...of which production of clean water (sub-category)	Forest area primarily designated or managed for water production, where most human uses are excluded or heavily modified to protect water quality.
...of which coastal stabilization (sub-category)	Forest area primarily designated or managed for coastal stabilization.
...of which desertification control (sub-category)	Forest area primarily designated or managed for desertification control
...of which avalanche control (sub-category)	Forest area primarily designated or managed to prevent the development or impact of avalanches on human life, assets or infrastructure.
...of which erosion, flood protection or reducing flood risk (sub-category)	Forest area primarily designated or managed for protecting communities or assets from the impacts of erosion, riparian floods and landslides, or for providing flood plain services.
...of which other (sub-category)	Forest area primarily designated or managed for other protective functions.
Ecosystem services, cultural or spiritual values	Forest area designated or managed for selected ecosystem services or cultural or spiritual values.
...of which public recreation (sub-category)	Forest area primarily designated or managed for public recreation.
...of which carbon storage or sequestration (sub-category)	Forest area primarily designated or managed for carbon storage or sequestration.
...of which spiritual or cultural services (sub-category)	Forest area primarily designated or managed for spiritual or cultural services.
...of which other (sub-category)	Forest area primarily designated or managed for other ecosystem services.

5.2 National data

5.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

5.2.2 Classification and definitions

National class	Definition

5.2.3 Original data

5.3 Analysis and processing of national data

5.3.1 Adjustment

5.3.2 Estimation and forecasting

5.3.3 Reclassification into FRA 2015 categories

5.4 Data

Table 5a

FRA 2015 Categories	Forest area (000 hectares)				
	1990	2000	2005	2010	2015
Protection of soil and water ¹⁾					
...of which production of clean water					
...of which coastal stabilization					
... of which desertification control					
... of which avalanche control					
...of which erosion, flood protection or reducing flood risk					
...of which other (please specify in comments below the table)					

¹⁾Under this reporting category all areas designated for protection of soil and water should be reported, regardless whether they are primarily designated or not.

Other

Table 5b

FRA 2015 Categories	Forest area (000 hectares)				
	1990	2000	2005	2010	2015
Ecosystem services, cultural or spiritual values					
... of which public recreation					
... of which carbon storage or sequestration					
... of which spiritual or cultural services					
... of which other (please specify in comments below the table)					

Tiers

Category	Tier for status	Tier for reported trend
Protection of soil and water		
Ecosystem services, cultural or spiritual values		

Tier criteria

Category	Tier for status	Tier for reported trend
Protection of soil and water	<p>Tier 3: High reliability data derived either from high intensity sample survey or data obtained from national or state agencies responsible for regulations or legislation relating to soil and water protection.</p> <p>Tier 2: Approaches based on low intensity or incomplete sample-based surveys or studies that provide data for specific areas that is extrapolated through statistical analysis to national level estimates.</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>
Cultural or spiritual values Public recreation Spiritual or cultural services Other	<p>Tier 3: High reliability data derived either from high intensity sample survey or data obtained from national or state agencies responsible for regulations.</p> <p>Tier 2: Approaches based on low intensity or incomplete sample-based surveys or studies that provide data for specific areas that is extrapolated through statistical analysis to national level estimates.</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>

5.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Protection of soil and water		
Production of clean water		
Coastal stabilization		
Desertification control		
Avalanche control		
Erosion, flood protection or reducing flood risk		
Other protective functions		
Ecosystem services, cultural or spiritual values		
Public recreation		
Carbon storage or sequestration		
Spiritual or cultural services		
Other ecosystem services		

Other general comments to the table

Topic IV: BIODIVERSITY / CONSERVATION

6 How much forest area is protected and designated for the conservation of biodiversity and how has it changed over time?

6.1 FRA 2015 Categories and definitions

Category	Definition
Conservation of biodiversity	Forest area designated primarily for conservation of biological diversity. Includes but is not limited to areas designated for biodiversity conservation within the protected areas.
Forest area within protected areas	Forest area within formally established protected areas independently of the purpose for which the protected areas were established.

6.2 National data

6.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

6.2.2 Classification and definitions

National class	Definition

6.2.3 Original data

6.3 Analysis and processing of national data

6.3.1 Adjustment

6.3.2 Estimation and forecasting

6.3.3 Reclassification into FRA 2015 categories

6.4 Data

Table 6

FRA 2015 Categories	Forest area (000 hectares)				
	1990	2000	2005	2010	2015
Conservation of biodiversity					
Forest area within protected areas					

Tiers

Category	Tier for status	Tier for reported trend
Conservation of biodiversity		
Forest area within protected areas		

Tier category

Category	Tier for status	Tier for reported trend
Conservation of biodiversity Forests within protected areas	<p>Tier 3: Data obtained from national or state agencies responsible for conservation and protected area or legislation relating to area protection.</p> <p>Tier 2: Studies that provide data for specific areas that is extrapolated through statistical analysis to national level estimates.</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>

6.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Conservation of biodiversity		
Forest area within protected areas		

Other general comments to the table

7 What is the area of forest affected by woody invasive species?

7.1 FRA 2015 Categories and definitions

Category	Definition
Invasive species	Species that are non-native to a particular ecosystem and whose introduction and spread cause, or are likely to cause, socio-cultural, economic or environmental harm or harm to human health.

7.2 National data

7.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

7.2.2 Classification and definitions

National class	Definition

7.2.3 Original data

7.3 Analysis and processing of national data

7.3.1 Adjustment

7.3.2 Estimation and forecasting

7.3.3 Reclassification into FRA 2015 categories

7.4 Data

Table 7

Scientific name of woody invasive species	Forest area affected (000 ha)	
	2005	2010
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
Total		

Note: The total forest area affected by woody invasive species is not necessary the sum of the values above, as these may be overlapping.

Tiers

Category	Tier for status	Tier for reported trend
Invasive species		

Tier category

Category	Tier for status	Tier for reported trend
Invasive species	<p>Tier 3: Systematic assessment in forest inventory or other survey (e g by conservation department) within the last 5 years.</p> <p>Tier 2: Systematic assessment in forest inventory or other survey (e g by conservation department) conducted more than 5 years ago</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>

7.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Invasive species		

Other general comments to the table

Topic V: DISTURBANCE AND FOREST DEGRADATION

8 How much forest area is damaged each year?

8.1 FRA 2015 Categories and definitions

Category	Definition
Number of fires	Number of fires per year.
Burned area	Area burned per year.
Outbreaks of insects	A detectable reduction in forest health caused by a sudden increase in numbers of harmful insects.
Outbreaks of diseases	A detectable reduction in forest health caused by a sudden increase in numbers of harmful pathogens, such as bacteria, fungi, phytoplasma or virus.
Severe weather events	Damage caused severe weather events, such as snow, storm, drought, etc.

8.2 National data

8.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

8.2.2 Classification and definitions

National class	Definition

8.2.3 Original data

8.3 Analysis and processing of national data

8.3.1 Adjustment

8.3.2 Estimation and forecasting

8.3.3 Reclassification into FRA 2015 categories

8.4 Data

Table 8a (Pre-filled data from remote sensing)

FRA 2015 category	000 ha and number of fires									
	2003		2004		2005		2006		2007	
	ha	#	ha	#	ha	#	ha	#	ha	#
Total land area burned										
... of which forest area burned										
FRA 2015 category	2008		2009		2010		2011		2012	
	ha	#	ha	#	ha	#	ha	#	ha	#
Total land area burned by fire										
... of which forest area burned										

Table 8b

Outbreak category	Description/name	Year(s) of latest outbreak	Area damaged (000 hectares)

Note: Area affected refers to the total area affected during the outbreak.

Outbreak category
1. Insects
2. Diseases
3. Severe weather events

Tiers

Category	Tier for status	Tier for reported trend
Area affected by fire		
Insects		
Diseases		
Severe weather events		

Tier category

Category	Tier for status	Tier for reported trend
Area affected by fire	Tier 3: National fire monitoring routines Tier 2: Remote sensing surveys Tier 1: Other	Tier 3: Estimate based on repeated compatible tiers 3 (tier for status) Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1: Other
Insects Diseases Severe weather events	Tier 3: Systematic survey, e.g. via inventory or aerial damage assessment Tier 2: Management records Tier 1: Other	Tier 3: Estimate based on repeated compatible tiers 3 (tier for status) Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status) Tier 1: Other

8.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Area affected by fire		
Insects		
Diseases		
Severe weather events		

Other general comments to the table

9 What is the forest area with reduced canopy cover?

9.1 FRA 2015 Categories and definitions

Category	Definition
Reduction in canopy cover	Forest that has undergone a reduction of canopy cover –of more than 20% between the years 2000 and 2010 within the forest canopy cover range of 30-80% as detected by the MODIS VCF sensor.

Table 9 (Pre-filled data from remote sensing)

FRA 2015 category	Area of forest with reduced canopy cover (000 ha)
Reduction in canopy cover	

Tier category

Category	Tier for trend
Reduction in canopy cover	<p>Tier 3: Remote sensing with ground truthing and/or Landsat imagery</p> <p>Tier 2: Remote sensing using Modis (using pre-filled data provided by FAO)</p> <p>Tier 1: Expert opinion</p>

9.2 Comments

Category	Comments
Reduction in canopy cover	

Topic VI: MEASURING PROGRESS TOWARD SFM

i: National-scale enabling environment for SFM

10 What forest policy and regulatory framework exists to support implementation of sustainable forest management (SFM)?

10.1 FRA 2015 Categories and definitions

Category	Definition
Policies supporting sustainable forest management	Policies or strategies that explicitly encourage sustainable forest management.
Legislation and regulations supporting sustainable forest management	Legislation and regulations that govern and guide sustainable forest management, operations and use.

10.2 National data

10.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

10.2.2 Classification and definitions

National class	Definition

10.2.3 Original data

10.3 Data

Table 10

FRA 2015 category	Check boxes						
	National		Sub-national				
			Regional	Provincial/ State		Local	
Policies supporting sustainable forest management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
... of which, in <u>publicly owned</u> forests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
... of which, in <u>privately owned</u> forests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		No		No		No		No
Legislation and regulations supporting sustainable forest management		Yes		Yes		Yes		Yes
		No		No		No		No
... of which, in <u>publicly owned</u> forests		Yes		Yes		Yes		Yes
		No		No		No		No
... of which, in <u>privately owned</u> forests		Yes		Yes		Yes		Yes
		No		No		No		No

Tiers not applicable

10.4 Comments

Variable / category	Comments
Policies supporting sustainable forest management	
Legislation and regulations supporting sustainable forest management	

11 Is there a national platform that promotes stakeholder participation in forest policy development?

11.1 FRA 2015 Categories and definitions

Category	Definition
National stakeholder platform	A recognized procedure that a broad range of stakeholders can use to provide opinions, suggestions, analysis, recommendations and other input into the development of national forest policy.

11.2 National data

11.2.1 Data sources

#	References to sources of information	Year(s)	Additional comments
1			
2			
3			

Table 11

Is there a national platform that promotes or allows for stakeholder participation in forest policy development?	Yes
	No

11.3 Comments

Category	Comments (please describe)
National stakeholder platform	

12 What is the forest area intended to be in permanent forest land use and how has it changed over time?

12.1 FRA 2015 Categories and definitions

Category	Definition
Forest area intended to be in permanent forest land use	Forest area that is designated or expected to be retained as forest and is highly unlikely to be converted to other land use.
...of which permanent forest estate (<i>sub-category</i>)	Forest area that is designated by law or regulation to be retained as forest and <u>may not</u> be converted to other land use.

12.2 National data

12.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

12.2.2 Classification and definitions

National class	Definition

12.2.3 Original data

12.3 Analysis and processing of national data

12.3.1 Adjustment

12.3.2 Estimation and forecasting

12.3.3 Reclassification into FRA 2015 categories

12.4 Data

Table 12

FRA 2015 Categories	Forest area 2010 (000 ha)
Forest area intended to be in permanent forest land use	
...of which permanent forest estate	

Tiers

Category	Tier for status
Forest area intended to be in permanent forest land use	
Permanent forest estate	

Tier category

Category	Tier for status
Forest area intended to be in permanent forest land use	<p>Tier 3: National or sub-national land use plans, strategy documents or other reports within the past 10 years.</p> <p>Tier 2: National or sub-national land use plans, strategy documents or other reports within the past 20 years.</p> <p>Tier 1: Other</p>
Permanent forest estate	<p>Tier 3: National or sub-national land use plans, strategy documents or other reports within the past 10 years.</p> <p>Tier 2: National or sub-national land use plans, strategy documents or other reports within the past 20 years.</p> <p>Tier 1: Other</p>

12.5 Comments

Category	Comments
Forest area intended to be in permanent forest land use	
Permanent forest estate	

13 How does your country measure and report progress towards SFM at the national level?

13.1 FRA 2015 Categories and definitions

Category	Definition
Forest area monitored under a national forest monitoring framework	Forest area monitored by a national monitoring framework or system(s) that provide measurement based periodic monitoring of forest extent and quality.
Forest reporting at national scale	National reporting of forest extent and characteristics that includes some measure of progress toward sustainable forest management.

13.2 National data

13.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

13.2.2 Classification and definitions

National class	Definition

13.3 Data

Table 13a

Category	% of total forest area	Most recent year	Check all boxes that apply					
			Continuous	Periodic	Permanent ground plots	Temporary ground plots	Aerial/remote sensing sample based	Aerial/remote sensing full coverage
Forest inventory								
Other field assessments								
Updates to other sources								
Expert estimate								

Table 13b

Type of forest reporting used at national scale	Check boxes that apply	
1. Criteria and Indicators reporting	<input type="checkbox"/>	Yes
	<input type="checkbox"/>	No
2. Periodic national state of the forest report	<input type="checkbox"/>	Yes
	<input type="checkbox"/>	No
3. Other (please document)	<input type="checkbox"/>	Yes
	<input type="checkbox"/>	No
4. None	<input type="checkbox"/>	Yes
	<input type="checkbox"/>	No

Other type of forest reporting

13.4 Comments

Category	Comments

ii. Operational scale progress toward SFM

14 What is the area of forest under a forest management plan and how is this monitored?

14.1 FRA 2015 Categories and definitions

Category	Definition
Forest area with management plan	Forest area that has a long-term documented management plan, aiming at defined management goals, which is periodically revised.
... of which for production (<i>sub-category</i>)	Forest management plan mainly focused on production.
... of which for conservation (<i>sub-category</i>)	Forest management plan mainly focused on conservation.
Monitoring of forest management plans	Government monitoring of forest management plan implementation conducted through field visits or audits of forest management plan performance.

14.2 National data

14.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

14.3 Data

Table 14a

Forest plan type	Forest area 2010 (000 ha)
Forest area with management plan	
... of which for production	
... of which for conservation	

Table 14b

Indicate which (if any) of the following are required in forest management plans in your country	
1. Soil and water management	Yes
	No
2. High conservation value forest delineation	Yes
	No
3. Social considerations/community involvement	Yes
	No

Table 14c

Percent of area under forest management plan that is monitored annually	
---	--

Tiers

Category	Tier for status
Forest area with management plan	
Percent of area under forest management plan that is monitored annually	

Tier category

Category	Tier for status
Forest area with management plan	Tier 3: Reports that describe national records 5 years old or less that contain long-term forest monitoring plans Tier 2: Industry or other records indicating the presence of a long-term forest management plan Tier 1: Other
Percent of area under forest management plan that is monitored annually	Tier 3: Government documentation of monitoring extent Tier 2: Reports from forest managers or other documental sources Tier 1: Other

14.4 Comments

Category	Comments

15 How are stakeholders involved in the management decision making for publicly owned forests?

15.1 FRA 2015 Categories and definitions

Category	Definition
Stakeholder involvement	Stakeholder involvement is defined as significant inputs into at least one aspect of forest management at the operational scale.

Table 15

Please indicate the type of stakeholder involvement in forest management decision making required in your country.	
1. Planning phase	Yes
	No
2. Operations phase	Yes
	No
3. Review of operations	Yes
	No

Tiers

Category	Tier for status
Type of stakeholder inputs	

Tier category

Category	Tier for status
Type of stakeholder inputs	Tier 3: Government (national or sub-national) documentation of stakeholder inputs Tier 2: Government (national or sub-national) requirement but stakeholder inputs not documented Tier 1: Other

15.2 Comments

Category	Comments

16 What is the area of forest under an independently verified forest certification scheme?

16.1 FRA 2015 categories and definitions

Category	Definition
FSC certification	Forest area certified under the Forest Stewardship Council certification scheme.
PEFC certification	Forest area certified under the Programme for the Endorsement of Forest Certification scheme.
Other international forest management certification	Forest area certified under an international forest management certification scheme with published standards and is independently verified by a third-party, excluding FSC and PEFC certification.
Certified forest area using a domestic forest management certification scheme	Area certified under a forest management certification scheme with published standards that are nationally recognized and independently verified by a third-party.

16.2 Data

Table 16a

International forest management certification	Forest area (000 ha)						
	2000	2001	2002	2003	2004	2005	2006
FSC							
PEFC							
Other							
	2007	2008	2009	2010	2011	2012	
FSC							
PEFC							
Other							

Table 16b

Domestic forest management certification	Forest area (000 ha)						
	2000	2001	2002	2003	2004	2005	2006
1.Name							
2.Name							
3.Name							
	2007	2008	2009	2010	2011	2012	
1.Name							
2.Name							
3.Name							

Tier category

Category	Tier for status
International forest management certification	<p>Tier 3: International forest management scheme records maintained by the certifying organization for the reporting year</p> <p>Tier 2: International forest management scheme records reported by the certifying organization for a period > 2 years prior to the reporting year</p> <p>Tier 1: Other</p>
Domestic forest management certification	<p>Tier 3: National registry reports for domestic forest management certification maintained by the certifying organization for the reporting year</p> <p>Tier 2: Domestic forest management scheme records reported by the certifying organization for a period > 2 years prior to the reporting year</p> <p>Tier 1: Other</p>

Tiers

Category	Tier for status
International forest management certification	
Domestic forest management certification	

16.3 Comments

Category	Comments
Certified forest area using an international forest management certification scheme	
Domestic forest management certification	

Topic VII: ECONOMICS/ LIVELIHOODS

17 How much money do governments collect from and spend on forests?

17.1 FRA 2015 Categories and definitions

Category	Definition
Forest revenue	All government revenue collected from the domestic production and trade of forest products and services. For this purpose revenue include: <u>Goods</u> : roundwood; sawnwood; biomass; wood-based panels; pulp and paper; and non-wood forest products. <u>Services</u> : including concession fees and royalties, stumpage payments, public timber sales revenue, taxes and charges based on forest area or yield, taxes on domestic trade and export of forest products, special levies on forestry activities and payments into forest-related funds, other miscellaneous inspection, licence and administrative fees levied by forest administrations, permit and licence fees for recreation and other forest related activities
Public expenditure on forestry	All government expenditure on forest related activities.

17.2 National data

17.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

17.3 Data

Table 17

FRA 2015 category	Revenues/ expenditures (000 local currency)		
	2000	2005	2010
Forest revenue			
Public expenditure on forestry			

	2000	2005	2010
Name of local currency			

17.4 Comments

Category	Comments
Forest revenue	
Public expenditure on forestry	

18 Who owns and manages the forests and how has this changed?

18.1 FRA 2015 Categories and definitions

Category	Definition
Public ownership	Forest owned by the State; or administrative units of the public administration; or by institutions or corporations owned by the public administration.
...of which owned by the state at national scale (<i>sub-category</i>)	Forest owned by the State at the <u>national scale</u> ; or administrative units of the public administration; or by institutions or corporations owned by the public administration.
...of which owned by the state at the sub-national government scale (<i>sub-category</i>)	Forest owned by the State at the <u>sub-national government scale</u> ; or administrative units of the public administration; or by institutions or corporations owned by the public administration.
Private ownership	Forest owned by individuals, families, communities, private co-operatives, corporations and other business entities, private religious and educational institutions, pension or investment funds, NGOs, nature conservation associations and other private institutions.
...of which individuals (<i>sub-category</i>)	Forest owned by individuals and families.
...of which private business entities and institutions (<i>sub-category</i>)	Forest owned by private corporations, co-operatives, companies and other business entities, as well as private non-profit organizations such as NGOs, nature conservation associations, and private religious and educational institutions, etc.
...of which local, tribal and indigenous communities (<i>sub-category</i>)	Forest owned by a group of individuals belonging to the same community residing within or in the vicinity of a forest area or forest owned by communities of indigenous or tribal people. The community members are co-owners that share exclusive rights and duties, and benefits contribute to the community development.
Unknown ownership	Forest area where ownership is unknown, includes areas where ownership is unclear or disputed.
Categories related to management rights of public forests	Definition
Public Administration	The Public Administration (or institutions or corporations owned by the Public Administration) retains management rights and responsibilities within the limits specified by the legislation.
Individuals/households	Forest management rights and responsibilities are transferred from the Public Administration to individuals or households through long-term leases or management agreements.
Private companies	Forest management rights and responsibilities are transferred from the Public Administration to corporations, other business entities, private co-operatives, private non-profit institutions and associations, etc., through long-term leases or management agreements.
Communities	Forest management rights and responsibilities are transferred from the Public Administration to local communities (including indigenous and tribal communities) through long-term leases or management agreements.
Other form of management rights	Forests for which the transfer of management rights does not belong to any of the categories mentioned above.

18.2 National data

18.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

18.2.2 Classification and definitions

National class	Definition

18.2.3 Original data

18.3 Analysis and processing of national data

18.3.1 Adjustment

18.3.2 Estimation and forecasting

18.3.3 Reclassification into FRA 2015 categories

18.4 Data

Table 18a

FRA 2015 Categories	Forest area (000 hectares)			
	1990	2000	2005	2010
Public ownership				
...of which owned by the state at national scale				
...of which owned by the state at the sub-national government scale				
Private ownership				
...of which owned by individuals				
...of which owned by private business entities and institutions				
...of which owned by local, tribal and indigenous communities				
Unknown ownership				
TOTAL				

Tiers

Category	Tier for status	Tier for reported trend
Public ownership		
Private ownership		
Unknown ownership		

Tier criteria

Category	Tier for status	Tier for reported trend
Ownership	<p>Tier 3: National forestry statistics/registers of land titles or maps on land ownership or all forest area under one ownership category that is five years old or less.</p> <p>Tier 2: National forestry statistics/registers of land titles or maps on land ownership or questionnaires that are more than five years old.</p> <p>Tier 1: Other</p>	<p>Tier 3: Estimate based on repeated compatible tiers 3 (tier for status)</p> <p>Tier 2: Estimate based on repeated compatible tier 2 or combination tier 3 and 2 or 1 (tier for status)</p> <p>Tier 1: Other</p>

Table 18b - Holder of management rights of public forests

FRA 2015 Categories	Forest area (000 hectares)			
	1990	2000	2005	2010
Public Administration				
Individuals				
Private companies				
Communities				
Other				
TOTAL				

Tiers

Category	Tier for status	Tier for reported trend
Public Administration		
Individuals		
Private companies		
Communities		
Other		

18.5 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Public ownership		
Private ownership		
Unknown ownership		
Management rights		

Other general comments to the table

19 How many people are directly employed in forestry?

19.1 FRA 2015 Categories and definitions

Category	Definition
Full-time equivalents (FTE)	A measurement equal to one person working full-time during a specified reference period.
Employment in forestry	Employment in activities related to production of goods derived from forests. This category corresponds to the ISIC/NACE Rev. 4 activity A02 (Forestry and logging).

19.2 National data

19.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

19.2.2 Classification and definitions

National class	Definition

19.2.3 Original data

19.3 Data

Table 19

FRA 2015 Category	Employment (000 years FTE)			
	1990	2000	2005	2010
Employment in forestry				
... of which female				

19.4 Comments

Category	Comments related to data, definitions, etc.	Comments on the reported trend
Employment in forestry		

Other general comments to the table

20 What is the contribution of forestry to Gross Domestic Product (GDP)?

20.1 FRA 2015 Categories and definitions

Category	Definition
Gross value added from forestry (at basic prices)	This category corresponds to the ISIC/NACE Rev. 4 activity A02 (Forestry and logging).

20.2 Data

Table 20 (Pre-filled data from UNdata/EUROSTAT)

FRA 2015 category	Million	Currency	Year for latest available information
Gross value added from forestry (at basic prices)			

20.3 Comments

Category	Comments
Gross value added from forestry (at basic prices)	

Topic VIII: LOOKING FORWARD

21 What is forest area likely to be in the future?

21.1 FRA 2015 Categories and definitions

Category	Definition
Government target/aspiration for forest area	Government target/aspiration for forest area for a specific year.
Forests earmarked for conversion	Forest area that is allocated/classified or scheduled to be converted into non-forest uses.

21.2 National data

21.2.1 Data sources

#	References to sources of information	Variable(s)	Year(s)	Additional comments
1				
2				
3				

21.3 Data

Table 21a

FRA 2015 Category	Forest area (000 ha)	
	2020	2030
Government target/aspiration for forest area		

Table 21b

FRA 2015 Category	Forest area (000 ha)
	2013
Forests earmarked for conversion	

21.4 Comments

Category	Comments
Government target/aspiration for forest area	
Forests earmarked for conversion	