



Food and Agriculture
Organization of the
United Nations

Global Forest Resources Assessment 2020

Report

Lesotho

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

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Introductory text

The Kingdom of Lesotho, a landlocked country in southern Africa, is bordered by South Africa on all sides. In the west are lowlands with elevations of 1500–1800 m; to the east are the Maloti and Drakensberg mountains rise to heights of more than 3 400 m.

Since most of the country is above 1 500 m in elevation, the climate is mild, with hot summer days in the lowlands relieved by cool nights. Winter can be cold, particularly in the mountains, with occasional heavy snowfall. In the capital city, Maseru, in the lowlands, the average temperature ranges from 14 °C to 28 °C in January and from -1 °C to 16 °C in July. The city averages 690 mm of precipitation annually. In the FAO global map of ecological zones Lesotho belongs to the subtropical mountain zone.

Forests cover 1.6 % of the country. Although Lesotho has an extraordinarily small proportion of trees, forests and trees are crucial in poverty alleviation and environment protection. Main planted tree species are Eucalyptus spp. and Pinus spp.

The greatest threat to forest resources in Lesotho is from the browsing of the regrowth of harvested woody plants by the large population of freely-grazed domestic livestock. Where adopted, agroforestry has a certain potential to improve cropland and livestock productivity, besides the long-term benefits to the environment. Only from 2006 onwards forest management plans had been drawn up, and from 2008 sustainable forest management. Efforts are high to afforest /re-afforest on private ownership lands, however survival rates are often fairly low, due to deforestation.^{[1][2][3]}

[1] Country Profiles – Department of Forest <http://www.fao.org/forestry/country/en/> . FAO, May 12, 2010. Retrieved March 27, 2017.

[2] Lesotho - Global Forest Resources Assessment 2015 – Country Report, FAO, 2015. Retrieved March 27, 2017.

[3] UNFCCC Nationally Determined Contribution (NDC) Lesotho. January 20, 2017. Retrieved March 27, 2017.

1 Forest extent, characteristics and changes

1a Extent of forest and other wooded land

National data

Data sources

2014	References	FAO, 2017, Land Cover Atlas for Lesotho
	Methods used	Full-cover forest/vegetation maps
	Additional comments	The data for 2014 was used

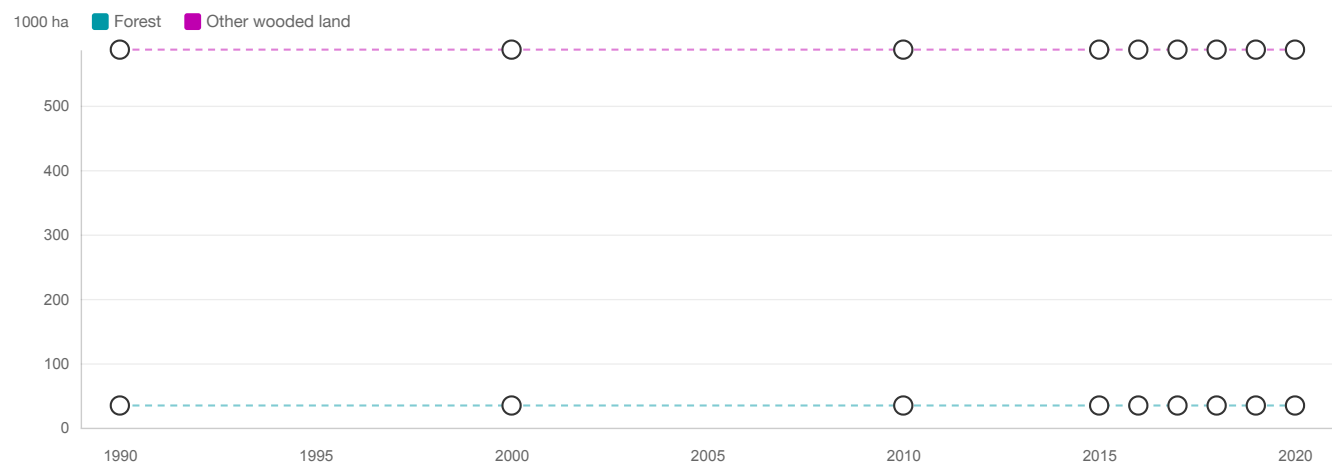
Classifications and definitions

2014	National class	Definition
	Trees, needle-leaved closed	Closed evergreen needle-leaved trees, occurring as plantations
	Trees, needle-leaved open	Closed evergreen needle-leaved trees and herbaceous natural vegetation
	Trees, broad-leaved closed	Closed deciduous broad-leaved trees, commonly along river banks and sometimes observed as plantations
	Trees, broad-leaved open	Open deciduous broad-leaved trees and herbaceous natural vegetation
	Trees, undifferentiated closed	These are closed mixed broad-leaved and needle-leaved trees, occasionally with shrubs
	Trees, undifferentiated open (Riparian)	Open undifferentiated trees and herbaceous natural vegetation
	Trees, sparse	Sparse scattered trees and herbaceous natural vegetation (closed-open)
	Shrubland	natural shrubs (0.5 -1.5m) commonly observed on river valley slopes, occasionally with scattered rocks and boulders.

Original data and reclassification

2014	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Trees, needle-leaved closed	1.50	100.00 %	0.00 %	0.00 %
	Trees, needle-leaved open	0.61	100.00 %	%	%
	Trees, broad-leaved closed	2.98	100.00 %	0.00 %	0.00 %
	Trees, broad-leaved open	0.23	100.00 %	%	%

	Trees, undifferentiated closed	25.85	100.00 %	%	%
	Trees, undifferentiated open (Riparian)	3.35	100.00 %	0.00 %	0.00 %
	Trees, sparse	3.01	0.00 %	100.00 %	0.00 %
	Shrubland	584.00	0.00 %	100.00 %	0.00 %
	Total	621.53	34.52	587.01	0.00



FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	34.52	34.52	34.52	34.52	34.52	34.52	34.52	34.52	34.52
Other wooded land (a)	587.01	587.01	587.01	587.01	587.01	587.01	587.01	587.01	587.01
Other land (c-a-b)	2 414.47	2 414.47	2 414.47	2 414.47	2 414.47	2 414.47	2 414.47	2 414.47	2 414.47
Total land area (c)	3 036.00	3 036.00	3 036.00	3 036.00	3 036.00	3 036.00	3 036.00	3 036.00	3 036.00

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	100.00	
Tropical	0.00	

Comments

Changes in forest area and other wooded land are small, and in lack of data to assess the magnitude of the changes, it has been assumed that there is no change.

1b Forest characteristics

National data

Data sources

2014	References	FAO, 2017, Land Cover Atlas for Lesotho
	Methods used	Full-cover forest/vegetation maps
	Additional comments	The data for 2014 was used

Classifications and definitions

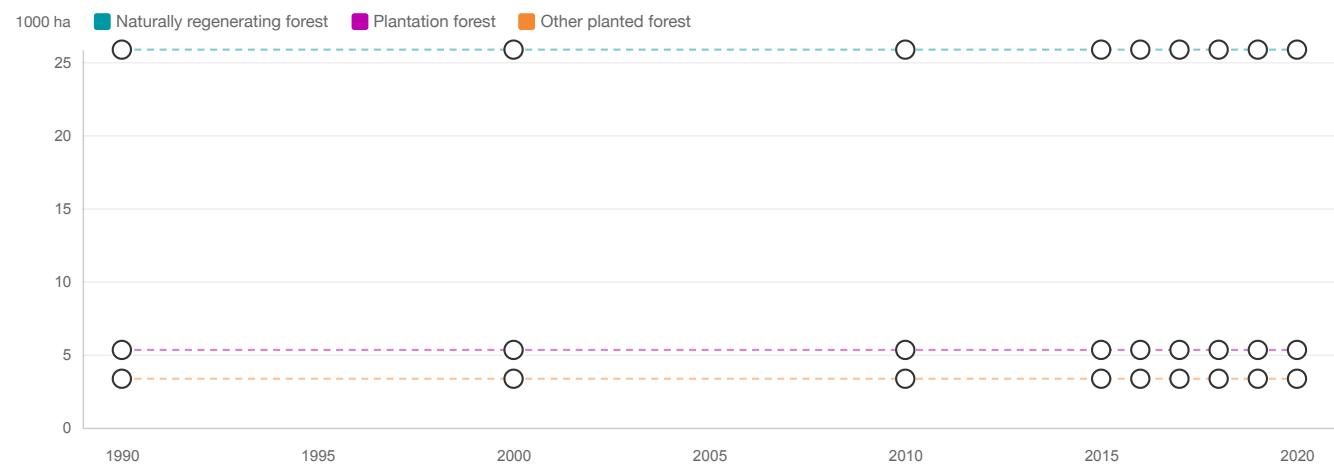
2014	National class	Definition
	Trees, needle-leaved closed	Closed evergreen needle-leaved trees, occurring as plantations
	Trees, needle-leaved open	Closed evergreen needle-leaved trees and herbaceous natural vegetation
	Trees, broad-leaved closed	Closed deciduous broad-leaved trees, commonly along river banks and sometimes observed as plantations
	Trees, broad-leaved open	Open deciduous broad-leaved trees and herbaceous natural vegetation
	Trees, undifferentiated closed	These are closed mixed broad-leaved and needle-leaved trees, occasionally with shrubs
	Trees, undifferentiated open (Riparian)	Open undifferentiated trees and herbaceous natural vegetation
	Trees, sparse	Sparse scattered trees and herbaceous natural vegetation (closed-open)
	Shrubland	natural shrubs (0.5 -1.5m) commonly observed on river valley slopes, occasionally with scattered rocks and boulders.

Original data and reclassification

2014	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Trees, needle-leaved closed	1.50	0.00 %	100.00 %	%
	Trees, needle-leaved open	0.61	0.00 %	100.00 %	%
	Trees, broad-leaved closed	2.98	0.00 %	100.00 %	%
	Trees, broad-leaved open	0.23	0.00 %	100.00 %	%
	Trees, undifferentiated closed	25.85	100.00 %	0.00 %	%

	Trees, undifferentiated open (Riparian)	3.35	0.00 %	0.00 %	100.00 %
	Total	34.52	25.85	5.32	3.35

Plantation forest	Area (1000 ha)	...of which introduced
Trees, needle-leaved closed	1.50	100.00 %
Trees, needle-leaved open	0.61	100.00 %
Trees, broad-leaved closed	2.98	100.00 %
Trees, broad-leaved open	0.23	100.00 %
Total	5.32	5.32



FRA categories	Forest area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest (a)	25.85	25.85	25.85	25.85	25.85	25.85	25.85	25.85	25.85
Planted forest (b)	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67	8.67
Plantation forest	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32
...of which introduced species	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32
Other planted forest	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
Total (a+b)	34.52	34.52	34.52	34.52	34.52	34.52	34.52	34.52	34.52
Total forest area	34.52	34.52	34.52	34.52	34.52	34.52	34.52	34.52	34.52

Comments

1c Primary forest and special forest categories

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
Primary forest					
Temporarily unstocked and/or recently regenerated					
Bamboos					
Mangroves	0.00	0.00	0.00	0.00	0.00
Rubber wood					

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

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				

Comments

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)	0.70	0.70	0.70	0.70	0.70
Agroforestry (c)					
Trees in urban settings (d)	0.30	0.30	0.30	0.30	0.30
Other (specify in comments) (e)	3.00	3.00	3.00	3.00	3.00
Total (a+b+c+d+e)	4.00	4.00	4.00	4.00	4.00
Other land area	2 414.47	2 414.47	2 414.47	2 414.47	2 414.47

Comments

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

In the absence of forest inventory data, expert estimates of 40 m³/ha for the naturally regenerating forest and 140 m³/ha for the planted forest has been used.

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	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Planted forest	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00
...of which plantation forest	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00
...of which other planted forest	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00
Forest	65.12	65.12	65.12	65.12	65.12	65.12	65.12	65.12	65.12
Other wooded land									

FRA categories	Total growing stock (million m³ over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
Planted forest	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
...of which plantation forest	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
...of which other planted forest	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Forest	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25
Other wooded land									

Comments

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

2c Biomass stock

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

Data on forest areas and growing stock are taken from tables 1b and 2a and entered into the biomass calculator.

Analysis and processing of national data

Estimation and forecasting

Insert the percentages of Growing stock by IPCC forest type for each of the FRA forest categories									
IPCC forest types	FRA forest categories								
	Naturally regenerating forest	Plantation forest	Other planted forest						
	% of Growing stock								
Broadleaved	100%	32%	100%						
Pine		68%							
Other coniferous									
	100%	100%	100%	Must add up to 100%					
Insert Carbon fraction used by country (IPCC default = 0.47)									
Carbon Fraction	47%								
Biomass conversion and expansion factors (BCEF)									
Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Pine	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Other coniferous	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Plantation forest									
Broadleaved	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Pine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Other coniferous	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Other planted forest									
Broadleaved	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Pine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Other coniferous	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Weighted BCEF									
Naturally regenerating forest	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Plantation forest	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Other planted forest	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Root-shoot ratios									
Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Pine	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Plantation forest									
Broadleaved	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Pine	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other planted forest									
Broadleaved	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Pine	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Weighted RS ratio									
Naturally regenerating forest	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Plantation forest	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Other planted forest	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

Above-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
Plantation forest	113.68	113.68	113.68	113.68	113.68	113.68	113.68	113.68	113.68
Other planted forest	147.00	147.00	147.00	147.00	147.00	147.00	147.00	147.00	147.00
Total	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72
Below-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	25.76	25.76	25.76	25.76	25.76	25.76	25.76	25.76	25.76
Plantation forest	30.78	30.78	30.78	30.78	30.78	30.78	30.78	30.78	30.78
Other planted forest	33.81	33.81	33.81	33.81	33.81	33.81	33.81	33.81	33.81
Total	27.32	27.32	27.32	27.32	27.32	27.32	27.32	27.32	27.32

Reclassification into FRA 2020 categories

-

FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72
Below-ground biomass	27.32	27.32	27.32	27.32	27.32	27.32	27.32	27.32	27.32
Dead wood									

Comments

For the biomass and carbon estimation, the IPCC default factors for temperate forests were used, as it better correspond to the vegetation types present in the country,

2d Carbon stock

National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

Data on forest areas and growing stock are taken from tables 1b and 2a and entered into the biomass calculator.

Analysis and processing of national data

Estimation and forecasting

Insert the percentages of Growing stock by IPCC forest type for each of the FRA forest categories									
IPCC forest types	FRA forest categories								
	Naturally regenerating forest	Plantation forest	Other planted forest						
	% of Growing stock								
Broadleaved	100%	32%	100%						
Pine		68%							
Other coniferous									
	100%	100%	100%	Must add up to 100%					
Insert Carbon fraction used by country (IPCC default = 0.47)									
Carbon Fraction	47%								
Biomass conversion and expansion factors (BCEF)									
Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Pine	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Other coniferous	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Plantation forest									
Broadleaved	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Pine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Other coniferous	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Other planted forest									
Broadleaved	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Pine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Other coniferous	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Weighted BCEF									
Naturally regenerating forest	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Plantation forest	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Other planted forest	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Root-shoot ratios									
Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Pine	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Plantation forest									
Broadleaved	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Pine	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other planted forest									
Broadleaved	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Pine	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Weighted RS ratio									
Naturally regenerating forest	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Plantation forest	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Other planted forest	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

Above-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
Plantation forest	113.68	113.68	113.68	113.68	113.68	113.68	113.68	113.68	113.68
Other planted forest	147.00	147.00	147.00	147.00	147.00	147.00	147.00	147.00	147.00
Total	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72
Below-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	25.76	25.76	25.76	25.76	25.76	25.76	25.76	25.76	25.76
Plantation forest	30.78	30.78	30.78	30.78	30.78	30.78	30.78	30.78	30.78
Other planted forest	33.81	33.81	33.81	33.81	33.81	33.81	33.81	33.81	33.81
Total	27.32	27.32	27.32	27.32	27.32	27.32	27.32	27.32	27.32

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	34.65	34.65	34.65	34.65	34.65	34.65	34.65	34.65	34.65
Carbon in below-ground biomass	12.84	12.84	12.84	12.84	12.84	12.84	12.84	12.84	12.84
Carbon in dead wood									
Carbon in litter									
Soil carbon									

Soil depth (cm) used for soil carbon estimates	
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Comments

For the biomass and carbon estimation, the IPCC default factors for temperate forests were used, as it better correspond to the vegetation types present in the country,

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)	34.52	34.52	34.52	34.52	34.52
Total forest area	34.52	34.52	34.52	34.52	34.52

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

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

Tsehlanyane Conservation Development and Management plan, 1998

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		5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Forest area with long-term forest management plan		5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
...of which in protected areas		5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00

Comments

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	34.52	34.52	34.52	34.52

Comments

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

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	34.52	-	-	-	-	-	-	-	-	-	34.52	-	-	-	34.52	34.52	34.52	34.52

Comments

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

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

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	Yes	No
Legislations and regulations supporting SFM	Yes	No
Platform that promotes or allows for stakeholder participation in forest policy development	No	No
Traceability system(s) for wood products	No	No

Comments

6b Area of permanent forest estate

National Data

Data sources + type of data source eg NFI, etc

Tsehlanyane Conservation Development and Management plan, 1998

National classification and definitions

-

Original data

-

FRA 2020 categories	Forest area (1000 ha)					
	Applicable?	1990	2000	2010	2015	2020
Area of permanent forest estate	Yes		5.00	5.00	5.00	5.00

Comments

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											10.00	37.00
...of which silviculture and other forestry activities												20.00
...of which logging											2.00	12.00
...of which gathering of non wood forest products											1.00	2.00
...of which support services to forestry											7.00	3.00

Comments

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											12.00	18.00
Total												

Comments

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	Honey	Honey bees	2 700	kg	324	1 Food
#2	Medicinal plants	Various herbs	10 000	kg	500	3 Raw material for medicine and aromatic products
#3						
#4						
#5						
#6						
#7						
#8						
#9						
#10						
All other plant products						
All other animal products						
Total					824	

Name of currency	Maloti
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Comments

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	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14

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	Beauro
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Sub-Indicator 2	Forest biomass (tonnes/ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass stock in forest	73.72	73.72	73.72	73.72	73.72	73.72	73.72	73.72

Name of agency responsible	
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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	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48

Name of agency responsible	Bureau of statistics
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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	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48

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	—	—