



Food and Agriculture
Organization of the
United Nations

Global Forest Resources Assessment 2020

Report

Eswatini

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

Report preparation and contact persons

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Introductory text

Place an introductory text on the content of this report

1 Forest extent, characteristics and changes

1a Extent of forest and other wooded land

National data

Data sources

1999	References	Thurland, M. 1999. Forest Resource Assessment
	Methods used	National Forest Inventory, Full-cover forest/vegetation maps
	Additional comments	
2017	References	Companies Farmers Snpas data 2017 biodiversity
	Methods used	Other (specify in comments)
	Additional comments	The indigenous forest data was collected by SNPAS project in 2017

Classifications and definitions

1999	National class	Definition
	Montane and Highland	900m, Afromontane and mixed woodland, >10% canopy cover, Highveld/upper Middleveld" /> Indigenous forest. >900m, Afromontane and mixed woodland, >10% canopy cover, Highveld/upper Middleveld
	Riparian	Indigenous forest. Mixed woodland occurring along rivers, all physiographic zones.
	Moister Savannah	10% canopy cover, Middleveld/Lubombo range." /> Indigenous forest. 400-800m, mainly broadleaved mixed woodland, >10% canopy cover, Middleveld/Lubombo range.
	Acacia Savannah	

		10% canopy cover, Lowveld." /> Indigenous forest. 200-400m, Acacia dominated woodland, >10% canopy cover, Lowveld.
	Dryer Acacia Savannah	10% canopy cover, >5m canopy height, (East) Lowveld, precipitation <600mm." /> >10% canopy cover, >5m canopy height, (East) Lowveld, precipitation <600mm.
	Bushveld	10% canopy cover, <5m canopy height, Lowveld to Highveld." /> Indigenous forest. 200-400m, bush/thicket communities, >10% canopy cover, <5m canopy height, Lowveld to Highveld.
	Wattle Forest	Man-made Forest. Highveld, A. maernsii dominated forests.
	Plantation	Man-made Forest. Man-made plantations of pines and eucalypts (mainly highveld).

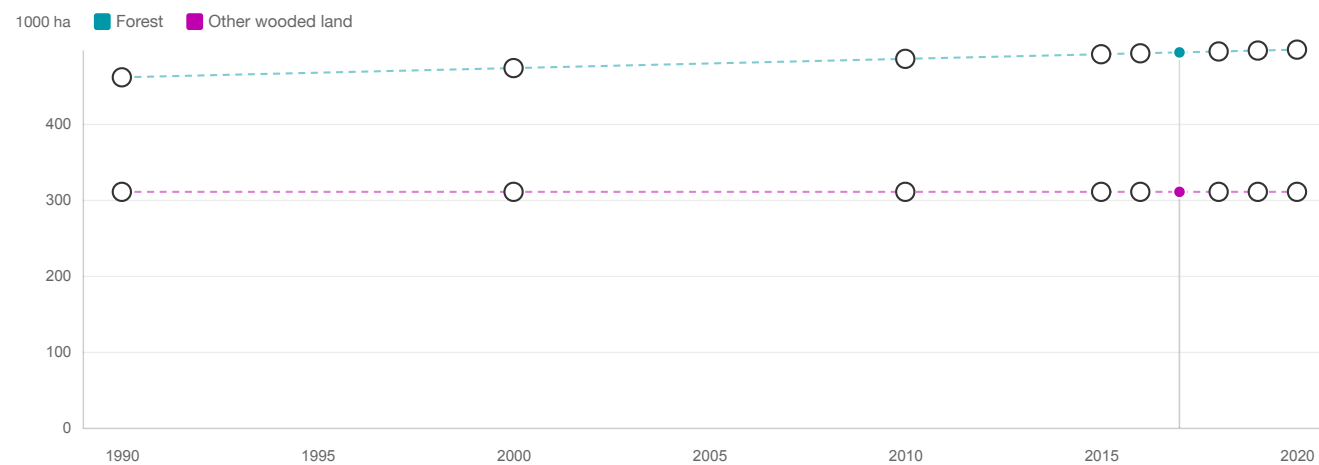
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Original data and reclassification

1999	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Montane and Highland	11.93	100.00 %	%	%
	Riparian	2.34	100.00 %	%	%
	Moister Savannah	112.72	100.00 %	%	%
	Acacia Savannah	150.59	100.00 %	%	%
	Dryer Acacia Savannah	34.02	100.00 %	%	%
	Bushveld	151.89	0.00 %	%	%
	Wattle Forest	25.43	100.00 %	%	%
	Plantation	135.04	100.00 %	%	%
	Total	623.96	472.07	—	—
2017	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	Montane and Highland	12.68	100.00 %	%	%

	Riparian	34.59	100.00 %	%	%
	Moister Savannah	121.34	100.00 %	%	%
	Acacia Savannah	169.23	100.00 %	%	%
	Dryer Acacia Savannah	23.38	100.00 %	%	%
	Bushveld	310.42	0.00 %	100.00 %	0.00 %
	Wattle Forest	35.15	100.00 %	%	%
	Plantation	97.56	100.00 %	%	%
	Total	804.35	493.93	310.42	0.00



FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	461.14	473.28	485.43	491.50	492.72	493.93	495.14	496.35	497.56
Other wooded land (a)	310.42	310.42	310.42	310.42	310.42	310.42	310.42	310.42	310.42
Other land (c-a-b)	948.44	936.30	924.15	918.08	916.86	915.65	914.44	913.23	912.02
Total land area (c)	1 720.00	1 720.00	1 720.00	1 720.00	1 720.00	1 720.00	1 720.00	1 720.00	1 720.00

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	17.00	
Tropical	83.00	

Comments

1b Forest characteristics

National data

Data sources

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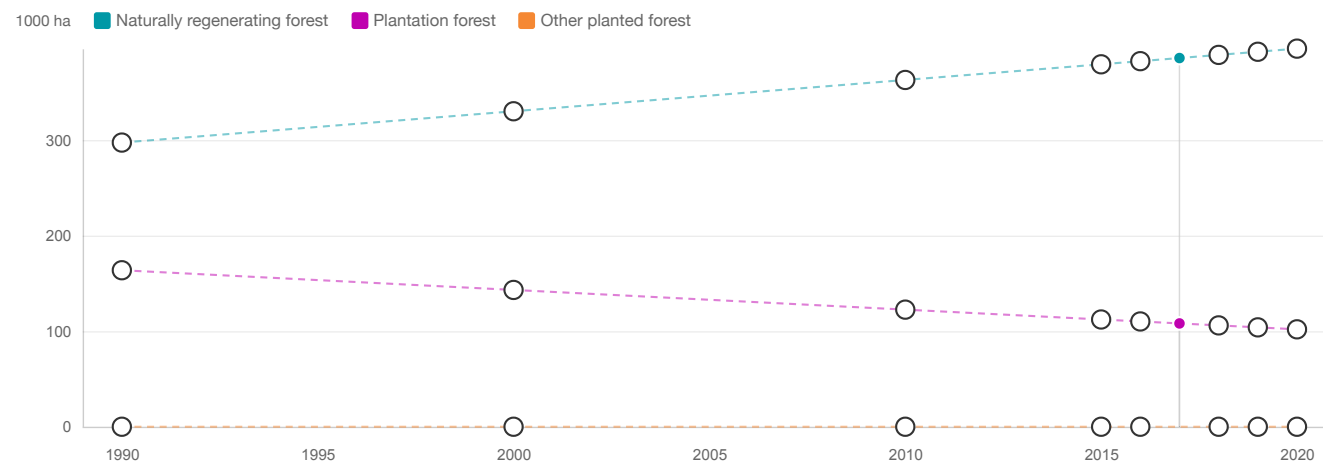
1999	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Montane and Highland	11.93	100.00 %	%	%
	Riparian	2.34	100.00 %	%	%
	Moister Savannah	112.72	100.00 %	%	%
	Acacia Savannah	150.59	100.00 %	%	%
	Dryer Acacia Savannah	34.02	100.00 %	%	%
	Wattle Forest	25.43	60.00 %	40.00 %	%
	Plantation	135.04	%	100.00 %	%
	Total	472.07	326.86	145.21	—

Plantation forest	Area (1000 ha)	...of which introduced
Wattle Forest	10.17	%
Plantation	135.04	%
Total	145.21	—

2017	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Naturally regenerating forest	Plantation forest	Other planted forest
	Montane and Highland	12.68	100.00 %	%	%

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	Moister Savannah	121.34	100.00 %	%	%
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	Dryer Acacia Savannah	23.38	100.00 %	%	%
	Wattle Forest	35.15	70.00 %	30.00 %	%
	Plantation	97.56	%	100.00 %	%
	Total	493.93	385.83	108.11	—

Plantation forest	Area (1000 ha)	...of which introduced
Wattle Forest	10.55	%
Plantation	97.56	%
Total	108.11	—



FRA categories	Forest area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest (a)	297.37	330.13	362.89	379.27	382.55	385.83	389.11	392.39	395.67
Planted forest (b)	163.77	143.15	122.54	112.23	110.17	108.11	106.05	103.99	101.93
Plantation forest	163.77	143.15	122.54	112.23	110.17	108.11	106.05	103.99	101.93
...of which introduced species									
Other planted forest	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Total (a+b)	461.14	473.28	485.43	491.50	492.72	493.93	495.16	496.38	497.60
Total forest area	461.14	473.28	485.43	491.50	492.72	493.93	495.14	496.35	497.56

Comments

1c Primary forest and special forest categories

National Data

Data sources + type of data source eg NFI, etc

Swaziland does not have the below mentioned Species except for the small woodlots that are planted by individual farmers with Acacia Meansii.

National classification and definitions

These are small plantations that are considered as Wood lots

Original data

Forestry Department

Ministry of Agriculture

Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

Woodlots that are planted by individual farmers with species like Acacia meansii (Wattle).

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Primary forest	0.11	0.12	0.30	0.45	1.20
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

Thurland, M. 1999. Forest

Resource Assessment

Companies
Farmers
Snpas data 2017 biodiversity
FRA stat
National Data 1999
Ministry of Agriculture FAO data soils
DR wisdom Dlamini

National classification and definitions

Montane and Highland	900m, Afromontane and mixed woodland, >10% canopy cover, Highveld/upper Middleveld" /> Indigenous forest. >900m, Afromontane and mixed woodland, >10% canopy cover, Highveld/upper Middleveld
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Plantation	Man-made Forest. Man-made plantations of pines and eucalypts (mainly highveld).

Original data

	1990		1999		2017	
Montane andHighland	11930		15765		12688	
Riparian	2344		25997		34590	
Moister Savannah	112720		104273		121344	
Acacia Savannah	150590		180546		169230	
Dryer AcaciaSavannah	34025		35125		23389	
Bushveld		151890		275705		310420
WattleForest	25439		28839		35153	

Plantation	135034		122596		97565		
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Analysis and processing of national data

Estimation and forecasting

Growing Stock									
National	1990(ha)	1999 (ha)	2000 (ha)	2005 (ha)	2010 (ha)	2015(ha)	2016(ha)	2017(ha)	2018(ha)
Classes									
WattleForest	25 439	28 839	29 217	31 106	32 995	34 884	34954	35153	35670
Plantation	135 034	122 596	121 214	114 304	107 394	97 484	97510	97565	110584.59
Total Planted forest	160 473	151 435	150 431	145 410	140 389	132 368	132464	132718	146254

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)	1.21	1.22	1.21	1.21

Comments

1e Annual reforestation

National Data

Data sources + type of data source eg NFI, etc

The reforestation is mainly in private companies after havesting for Sale.

Data is from the Following Private forest Companies. Currently we dont have data for indigenous species.

Montigyn, Shiselweni forest Company,Peak Timber, Tonkwane Forest and Swaziland plantation

National classification and definitions

We have at least two classification which are Exotics and Indigenous species classifications.

At least the classification are based on plantations and Dryer Acacia savannah

Original data

Thurland M. 1999, Forest Resource Assessment.

Forest , policy and legislation Project.

Central statitics

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	26.70	20.30	25.80	27.00

Comments

The figures flatuates due to the availability of rains at that particular time and the type of species that are planted in that year.

1f Other land with tree cover

National Data

Data sources + type of data source eg NFI, etc

Data from the SADP project

Forestry department

Fruit tree Companies (Ngonini,Tambuti and Khubuta)

National classification and definitions

-

Original data

Forestry department	Primary source
Ministry of agriculture (plant protection Unit	Primary source
Fruit tree Companies (Ngonini,Tambuti and Khubuta)	Primary source

Analysis and processing of national data

Estimation and forecasting

The information was from the Companies and the unit of Horticulture.

Reclassification into FRA 2020 categories

-

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Palms (a)					
Tree orchards (b)	0.93	1.05	1.10	1.10	1.40
Agroforestry (c)	0.02	0.02	0.12	0.13	0.14
Trees in urban settings (d)	0.15	0.23	0.27	0.34	0.36
Other (specify in comments) (e)					
Total (a+b+c+d+e)	1.10	1.30	1.49	1.57	1.90
Other land area	948.44	936.30	924.15	918.08	912.02

Comments

2 Forest growing stock, biomass and carbon

2a Growing stock

National Data

Data sources + type of data source eg NFI, etc

Data is From

FRA 2015

Snipas project on otherwooded land

Private forest companies

Full cover mapping

National classification and definitions

-

Original data

FRA Categories	Vol (m3)/ha
Forest excl. Plantations	18.3
Plantations	100.0 (expert estimate)
Other Wooded Land	11.7

Data from the FRA 2015 report

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	18.30	18.30	18.30	18.30	18.30	18.30	18.30	18.30	18.30
Planted forest	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
...of which plantation forest	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
...of which other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forest	47.32	43.01	38.92	36.96	36.57	36.18	35.80	35.42	35.04
Other wooded land	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70

FRA categories	Total growing stock (million m³ over bark)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	5.44	6.04	6.64	6.94	7.00	7.06	7.12	7.18	7.24
Planted forest	16.38	14.32	12.25	11.22	11.02	10.81	10.61	10.40	10.19
...of which plantation forest	16.38	14.32	12.25	11.22	11.02	10.81	10.61	10.40	10.19
...of which other planted forest	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Forest	21.82	20.36	18.89	18.17	18.02	17.87	17.73	17.58	17.43
Other wooded land	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63	3.63

Comments

2b Growing stock composition

National Data

Data sources + type of data source eg NFI, etc

Data comes from the private forest companies

Peak Timbers
Montigyn
Shiselweni Forest
Swaziland plantations
Tonkwane
Salmaikki

National classification and definitions

-

Original data

FRA 2015

Private forest companies

Forestry Department

Forest policy

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	Pinus patula	Pine					
#2 Ranked in terms of volume	Pinus elliotii	Pine					
#3 Ranked in terms of volume	Pinus kesisy	Pine					
#4 Ranked in terms of volume	Pinus Taed	Pine					
#5 Ranked in terms of volume	E. camandulensis	Gum					
#6 Ranked in terms of volume	Acacia meansii	Wattle					
#7 Ranked in terms of volume	E. smitti	Gum					
#8 Ranked in terms of volume	Pinus gregii	Pine					
#9 Ranked in terms of volume	E. mic	Gum					
#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	E.Dunnii						
#2 Ranked in terms of volume	E. gxu						
#3 Ranked in terms of volume							
#4 Ranked in terms of volume							
#5 Ranked in terms of volume							
Remaining introduced tree species							

FRA categories	Scientific name	Common name	Growing stock in forest (million m³ over bark)				
			1990	2000	2010	2015	2020
Native tree species							
Total volume of introduced tree species			–	–	–	–	–
Total growing stock			–	–	–	–	–

Comments

It was not easy to calculate the hectorage in terms of the ranking within each year.This data was compiled based on the Markets demand in each year.

2c Biomass stock

National Data

Data sources + type of data source eg NFI, etc

FRA 2015

Private forest Companies

Forestry Department

National statistics

National classification and definitions

-

Original data

Forest Resource Assessment (FRA 2015)

Full Mapping the areas.

Forest Policy

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 humid								
Broadleaved dry	100%	15%						
Coniferous		85%						
	100%	100%	0%	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 humid	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Broadleaved dry	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Coniferous	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Plantation forest									
Broadleaved humid	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Broadleaved dry	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Coniferous	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Other planted forest									
Broadleaved humid									
Broadleaved dry									
Coniferous									
Weighted BCEF									
Naturally regenerating forest	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Plantation forest	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Other planted forest									
Root-shoot ratios									
Naturally regenerating forest	1990	2000	2010	2015	2016	2017	2018	2019	2020
Broadleaved humid	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Broadleaved dry	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Plantation forest									
Broadleaved humid	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Broadleaved dry	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Coniferous	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other planted forest									
Broadleaved humid									

Broadleaved dry									
Coniferous									
Weighted RS ratio									
Naturally regenerating forest	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Plantation forest	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Other planted forest									
Above-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	73.20	73.20	73.20	73.20	73.20	73.20	73.20	73.20	73.20
Plantation forest	87.10	87.10	87.10	87.10	87.10	87.10	87.10	87.10	87.10
Other planted forest									
Total	78.14	77.40	76.71	76.37	76.31	76.24	76.18	76.11	76.05
Below-ground biomass (t/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50
Plantation forest	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13
Other planted forest									
Total	22.14	21.90	21.67	21.55	21.53	21.51	21.49	21.47	21.44

Reclassification into FRA 2020 categories

-

FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	78.14	77.40	76.71	76.37	76.31	76.24	76.18	76.11	76.05
Below-ground biomass	22.14	21.90	21.67	21.55	21.53	21.51	21.49	21.47	21.44
Dead wood									

Comments

2d Carbon stock

National Data

Data sources + type of data source eg NFI, etc

Forest Resource assessment Report 2015

National statistics report of Eswatini

National classification and definitions

-

Original data

FRA calculator

Data was taken from tables 1b and 2a.

Analysis and processing of national data

Estimation and forecasting

See table 2c.

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	36.72	36.38	36.05	35.90	35.86	35.83	35.80	35.77	35.74
Carbon in below-ground biomass	10.41	10.29	10.18	10.13	10.12	10.11	10.10	10.09	10.08
Carbon in dead wood									
Carbon in litter									
Soil carbon									

Soil depth (cm) used for soil carbon estimates	
--	--

Comments

3 Forest designation and management

3a Designated management objective

National Data

Data sources + type of data source eg NFI, etc

This data is from the National Statistics Offices

Forestry Department Data

Ministry of natural resources. Enegry department

National classification and definitions

-

Original data

Forestry Department/ Ministry ot tourism and enviromental Affairs.

Ministry of Agriculture

Ministry of Natural Resources. Enegry Department

Water affairs

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)	155.03	150.21	131.50	122.48	137.50
Protection of soil and water (b)	0.10	0.10	0.21	0.21	0.25
Conservation of biodiversity (c)	45.90	67.30	68.20	72.90	80.10
Social Services (d)	5.40	6.20	7.00	8.30	8.50
Multiple use (e)					
Other (specify in comments) (f)					
None/unknown (g)	254.71	249.47	278.52	287.61	271.21
Total forest area	461.14	473.28	485.43	491.50	497.56

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

SNPAS project

Herbarium Unit

Swaziland Environmental Authority

National classification and definitions

-

Original data

University of eswatini

Swaziland National Trust Commission

Forestry Department

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	16.00	16.00	16.00	16.00	23.00	23.00
Forest area with long-term forest management plan			0.21	0.21	0.21	0.21	0.21	0.34	0.34
...of which in protected areas									

Comments

4 Forest ownership and management rights

4a Forest ownership

National Data

Data sources + type of data source eg NFI, etc

Private companies
Usutu Pulp Company
Mondi Forest Company
Shiselweni Forestry Company
Swaziland Plantations Company
Individual Farmers
Ntondozi Salmaikki
Zwane Farm
Mr Roberts
OTHER Small Growers
Community
Mahlangatsa Community
Public forest
Ngwane teachers training
Trainng center Nhlangano
Buseleni Farm riceland
High veld ranch
Malkerns Research station
Hhukwini Etiyeni
Mahhosha Government farm

National classification and definitions

-

Original data

Forestry Department

National Surveyor general

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)	155.03	150.21	131.50	122.48
...of which owned by individuals	2.80	2.95	3.20	3.40
...of which owned by private business entities and institutions	152.09	147.12	128.06	118.83
...of which owned by local, tribal and indigenous communities	0.14	0.14	0.24	0.25
Public ownership (b)	0.39	0.39	0.39	0.39
Unknown/other (specify in comments) (c)	305.72	322.68	353.54	368.63
Total forest area	461.14	473.28	485.43	491.50

Comments

4b Holder of management rights of public forests

National Data

Data sources + type of data source eg NFI, etc

Private Forest Companies hold management rights of the Forests,Aslo the individual and Community are doing the same.

National classification and definitions

-

Original data

Forestry Department

Natoinal Surveyor General

Government of Eswatini

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)	0.39	0.39	0.39	0.39
Individuals (b)	0.00	0.00	0.00	0.00
Private business entities and institutions (c)	0.00	0.00	0.00	0.00
Local, tribal and indigenous communities (d)	0.00	0.00	0.00	0.00
Unknown/other (specify in comments) (e)	0.00	0.00	0.00	0.00
Total public ownership	0.39	0.39	0.39	0.39

Comments

5 Forest disturbances

5a Disturbances

National Data

Data sources + type of data source eg NFI, etc

Currently We have data from the Forest companies and The Ministry of agriculuture

Forestry Department

University of Eswatini

National classification and definitions

-

Original data

Currently We have data from the Forest companies and The Ministry of agriculuture

Forestry Department

University of Eswatini

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)	1.28	1.77	1.45	1.89	1.57	1.90	1.04	2.03	1.34	1.76	1.79	2.33	1.96	2.79	2.47	2.45	3.19	4.79
Diseases (b)																		
Severe weather events (c)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other (specify in comments) (d)																		
Total (a+b+c+d)	1.28	1.77	1.45	1.89	1.57	1.90	1.04	2.03	1.34	1.76	1.79	2.33	1.96	2.79	2.47	2.45	3.19	4.79
Total forest area	473.28	–	–	–	–	–	–	–	–	–	485.43	–	–	–	–	491.50	492.72	493.93

Comments

No data available on diseases.

5b Area affected by fire

National Data

Data sources + type of data source eg NFI, etc

The source is from the Private companies which are having the data

Dr W. Dlamini at 2010

Fire watch Dog

National classification and definitions

-

Original data

The primary source is from the Private companies which are having the data

Dr W. Dlamini at 2010 as secondary source

Fire watch Dog

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	1.48	0.81	1.32	1.16	0.92	3.16	1.04	0.95	1.76	1.74	1.17	0.82	1.27	2.79	1.89	2.45	4.24	3.19
...of which on forest																		

Comments

5c Degraded forest

Does your country monitor area of degraded forest		Yes
If "yes"	What is the national definition of "Degraded forest"?	A degraded forest is a forest land system that has been exposed to disturbance of its ecosystems interrelations during growth development causing interference of the functional developmental phases and productivity of the existing flora and fauna in its biome.
	Describe the monitoring process and results	This is usual done with the soil degradation survey which is from the Ministry of Agriculture.

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

Forest policy and legislation

Flora protection Act 2001

National classification and definitions

-

Original data

Forest policy and legislation

Flora protection Act 2001

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	Yes	No
Traceability system(s) for wood products	Yes	No

Comments

6b Area of permanent forest estate

National Data

Data sources + type of data source eg NFI, etc

National forest policy

Collected data from other Stakeholders.

Private Forest Companies

National classification and definitions

-

Original data

Forestry Department

National Statistics

Surveyor General

FRA 2020 categories	Forest area (1000 ha)					
	Applicable?	1990	2000	2010	2015	2020
Area of permanent forest estate	Yes	158.36	153.69	135.33	126.52	130.23

Comments

7 Employment, education and NWFP

7a Employment in forestry and logging

National Data

Data sources + type of data source eg NFI, etc

Data was sourced from the forest Companies and their sub- contractors.

The data for gathering non Forest products is from the permits that were issued for collecting those resourses in the Forest

National classification and definitions

-

Original data

Forest companies

FSC

Permit issuance

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		0.85	0.72	1.16	0.23	0.93	1.18	0.20	0.98	1.43	0.33	1.10
...of which logging	0.95	0.10	0.85	1.21	0.22	0.99	1.50	0.30	1.20	1.70	0.35	1.35
...of which gathering of non wood forest products	0.53	0.45	0.08	0.58	0.48	0.10	0.66	0.55	0.11	0.90	0.78	0.12
...of which support services to forestry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Comments

7b Graduation of students in forest-related education

National Data

Data sources + type of data source eg NFI, etc

Eswatini does not have a training institution for Forestry but we are training out side the country: Eg Tanzania, Zibwabwe , South Africa, Thailand , New zealand.

National classification and definitions

-

Original data

Ministry of education

Ministry of Public Service

Forest Companies

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						1.00						
Master's degree					1.00				2.00			2.00
Bachelor's degree										2.00	1.00	1.00
Technician certificate / diploma	15.00	5.00	10.00	5.00	3.00	2.00	15.00	7.00	8.00			7.00
Total												

Comments

7c Non wood forest products removals and value 2015

National Data

Data sources + type of data source eg NFI, etc

Data that was collected from Women who are selling products from Non forest Products. This data was collected based on monthly movement of these items and issuance of permits.

National classification and definitions

The data originates from the Women who are exporting these products.Especial the indigenous species

Original data

The data originates from the Women who are exporting these products.Also its coming from the

Ministry of Agriculture

Department of forestry

Ministry of Commerce and Trade

	Name of NWFP product	Key species	Quantity	Unit	Value (1000 local currency)	NWFP category
#1	Plant Herbs	helichrysum adoratissium	4 000	bags	40	3 Raw material for medicine and aromatic products
#2	Sweeping brooms		500	sticks	5	5 Raw material for utensils handicrafts construction
#3	Wooden spoons		1 000		10	5 Raw material for utensils handicrafts construction
#4						
#5						
#6						
#7						
#8						
#9						
#10						
All other plant products						
All other animal products						
Total					55	

Name of currency	Emalangení/rands
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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	27.52	28.22	28.58	28.65	28.72	28.79	28.86	28.93

Name of agency responsible	Ministry of Tourism and Environmental Affairs,Forestry Department
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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	0.25	0.25	0.25	0.24	0.24	0.24	0.24

Name of agency responsible	Ministry of Tourism and Environmental Affairs,Forestry Department
----------------------------	---

Sub-Indicator 2	Forest biomass (tonnes/ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass stock in forest	77.40	76.71	76.37	76.31	76.24	76.18	76.11	76.05

Name of agency responsible	Ministry of Tourism and Environmental Affairs,Forestry Department
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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	0.00	0.00	3.26	3.26	3.26	3.26	4.68	4.68

Name of agency responsible	Ministry of Tourism and Environmental Affairs,Forestry Department
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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	–	0.04	0.04	0.04	0.04	0.04	0.07	0.07

Name of agency responsible	Ministry of Tourism and Environmental Affairs,Forestry Department
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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	114.47	114.76	124.53	120.67	123.50	–	–