



Food and Agriculture  
Organization of the  
United Nations

# Global Forest Resources Assessment 2020

Report

**Sri Lanka**

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

The present report was prepared by the following person(s)

Name	Role	Email	Tables
K.T. Premakantha	Alternate national correspondent	premakanthakt@gmail.com	All
Nishantha Edirisinghe	National correspondent	eapnishantha@yahoo.com	All
Nishantha Edirisinghe	National correspondent	nishanthaedirisinghe4@gmail.com	All

### 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 + type of data source eg NFI, etc

1992

<b>References</b>	Christopher Legg and Nicholas Jewell., 1995., A 1:50.000 scale Forest Map of Sri Lanka: The basis for National Geographic System. The Sri Lanka Forester,Special Issue _ Remote Sensing,1995,3-24
<b>Methods used</b>	Full-cover forest/vegetation maps
<b>Additional comments</b>	Landsat TM Satellite imagery and IRS 1 imagery were used for Visual interpretation. Reference year for the data1992

1996

<b>References</b>	GOSL. 2000. Forest Cover Mapping 2000. Forest Inventory Division. Forest Department. Sri Lanka
<b>Methods used</b>	Full-cover forest/vegetation maps
<b>Additional comments</b>	Landsat 7 Satellite imagery and aerial photos were used to prepare this map. Reference year for the data 1996

2010

<b>References</b>	Edirisinghe. E. A. P. N, Ariyadasa., K. P., Chandani.,R. P. D.S.2012, Forest Cover Assessment of Sri Lanka,The Sri Lanka Forester,Vol 34
<b>Methods used</b>	Full-cover forest/vegetation maps
<b>Additional comments</b>	IRS LISS III P6 images acquired during 2008-2009 Satellite imagery were screen digitized to prepare forest cover map and then field verified with the help of Forest department Field Staff. Reference year for the data19922010

Extent of rubber was taken from the central bank report .Central Bank of Sri Lanka 2018, Annual Report 2017, Volume 1, Colombo, Sri Lanka

#### National classification and definitions

National class	Definition
Lowland rain forests	Dense forests located in area below 1000 m elevation with rainfall greater than 2500 mm.
Moist monsoon forests	Dense forests located in areas below 1000 m elevation with rainfall between 1900 mm and 2500 mm.
Dry monsoon forests	Dense forests located in areas below 1000 m elevation with rainfall below 1900 mm.
Montane forests	Dense forests located in areas above 1500 m elevation
Sub montane forests	Dense forests located in areas where the elevation between 1000 m and 1500 m.
Forest plantation	Man made forests such as Pines,Teak,Eucalyptus,Exclude naturalized forests plantation with native plant species.
Mangroves	Mangrove forests located in coastal area.
Riverine forests	Rich vegetation associated with river banks in dry and inter mediate zone.
Open forests	Land spanning more than 5 hectares the tree canopy cover is between to 40 percent.It excludes all land use classes which are mentioned under dense forest category.
Other wooded land	

#### Original data

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Classifications and definitions	1992
Class	Area (1000 ha)
Lowland rain forests	141.55
Moist monsoon forests	243.87
Dry monsoon forests	1094.29
Montane forests	3.11
Sub montane forests	68.84
Forest plantation	72.34
Mangroves	8.69
Riverine forests	22.41
Open forests	463.84
Other wooded land	52
Total	2170.94
Classifications and definitions	1996
Class	Area (1000 ha)
Lowland rain forests	124.34
Moist monsoon forests	221.98
Dry monsoon forests	1027.54
Montane forests	3.09
Sub montane forests	65.79
Forest Plantation	79.94
Mangroves	9.53
Riverine forests	18.35
Open forests	471.58
other wooded land	52
Total	2074.14
Classifications and definitions	2010
Class	Area (1000 ha)
Lowland rain forests	123.3
Moist monsoon forests	117.89
Dry monsoon forests	1123.3
Montane forests	44.76

Sub montane forests	28.51
Forest Plantation	78.49
Mangroves	15.67
Riverine forests	0.24
Open forests	445.46
Other wooded land	52
Total	2029.62

Rubber wood plantations were added to the total forest area to comply with the FRA definition of forest, but rubber wood plantation are not categorized as forest in Sri Lanka.

Area (000 ha)	1990	2000	2010	2015
Rubber wood plantations	183	157	126	167

## Analysis and processing of national data

### Estimation and forecasting

Forest cover maps of 1992, 1996 and 2010 which were produced interpreting medium resolution satellite imageries were used for area estimation to report for FRA report. Although the latest forest cover has been produced in 2015 using high resolution images (Google imageries), it has not yet been field verified. Hence, the annual change of -24,195 ha which is the annual change of forest cover during the 1992 to 1996 period was used to estimate forest cover of 1990. Similarly, annual change of -3,160.3 ha which is the annual change of forest cover during the 1996 to 2010 period was used to estimate the forest cover of 2015 and onwards.

Rubber plantations were then added to the estimated forest area as explained above.

	1990	1992	1996	2000	2010	2015	2016	2017	2018	2019	2020
Forest	2167.33	2118.94	2022.14	2009.42	1977.62	1961.82	1958.66	1955.5	1952.34	1949.18	1946.02
Rubber	183			157	126	167	167	167	167	167	167
<b>Tot forest</b>	<b>2350.33</b>	<b>2118.94</b>	<b>2022.14</b>	<b>2166.42</b>	<b>2103.62</b>	<b>2128.82</b>	<b>2125.66</b>	<b>2122.5</b>	<b>2119.34</b>	<b>2116.18</b>	<b>2113.02</b>

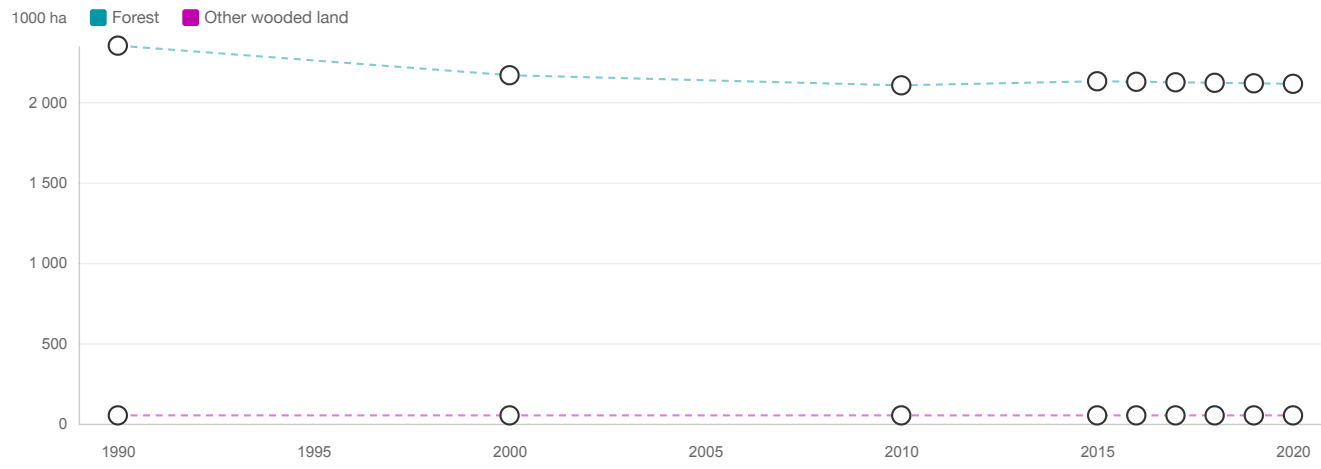
### Reclassification into FRA 2020 categories

Class	%		
	Forest	Other wooded land	Other land
Lowland rain forests	100	0	0
Moist monsoon forests	100	0	0
Dry monsoon forests	100	0	0
Montane forests	100	0	0
Sub montane forests	100	0	0
Forest Plantation	100	0	0
Mangroves	100	0	0
Riverine forests	100	0	0
Open forests	100	0	0

Other wooded land	0	100	0
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Rubber wood plantations were added to the total forest area to comply with the FRA definition of forest, but rubber wood plantation are not part of the official forest area in Sri Lanka.





FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	2 350.33	2 166.42	2 103.62	2 128.82	2 125.66	2 122.50	2 119.34	2 116.18	2 113.02
Other wooded land (a)	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00	52.00
<b>Other land (c-a-b)</b>	<b>3 868.67</b>	<b>4 052.58</b>	<b>4 115.38</b>	<b>4 090.18</b>	<b>4 093.34</b>	<b>4 096.50</b>	<b>4 099.66</b>	<b>4 102.82</b>	<b>4 105.98</b>
<b>Total land area (c)</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>	<b>6 271.00</b>

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

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

## Comments

Forest cover maps of 1992, 1996 and 2010 which were produced interpreting medium resolution satellite imageries were used for area estimation to report for FRA report. Although the latest forest cover has been produced in 2015 using high resolution images (Google imageries), it has not yet been field verified. Hence, the annual change of -24,195 ha which is the annual change of forest cover (excluding rubber) during the 1992 to 1996 period was used to estimate forest cover of 1990. Similarly, annual change of -3,160.3 ha which is the annual change of forest cover (excluding rubber) during the 1996 to 2010 period was used to estimate the forest cover of 2015 and onwards.

Areas of rubber wood plantations were added to the above estimated forest areas. The increase in rubber plantations is causing a slight increase of the forest area between 2010 and 2015. Forest area excluding rubber wood plantations shows a decreasing trend throughout the reporting period.

Forest area for 1990, 2000 and 2015 slightly differs from what previously reported to FRA 2015 because of different estimation methodology.

## 1b Forest characteristics

### National Data

#### Data sources + type of data source eg NFI, etc

National forest cover estimate reports as mentioned in the table 1a, Plantation database of the Forest Department

#### National classification and definitions

National classification and the definitions are provided in the table 1 a

#### Original data

Data from the Forest cover maps

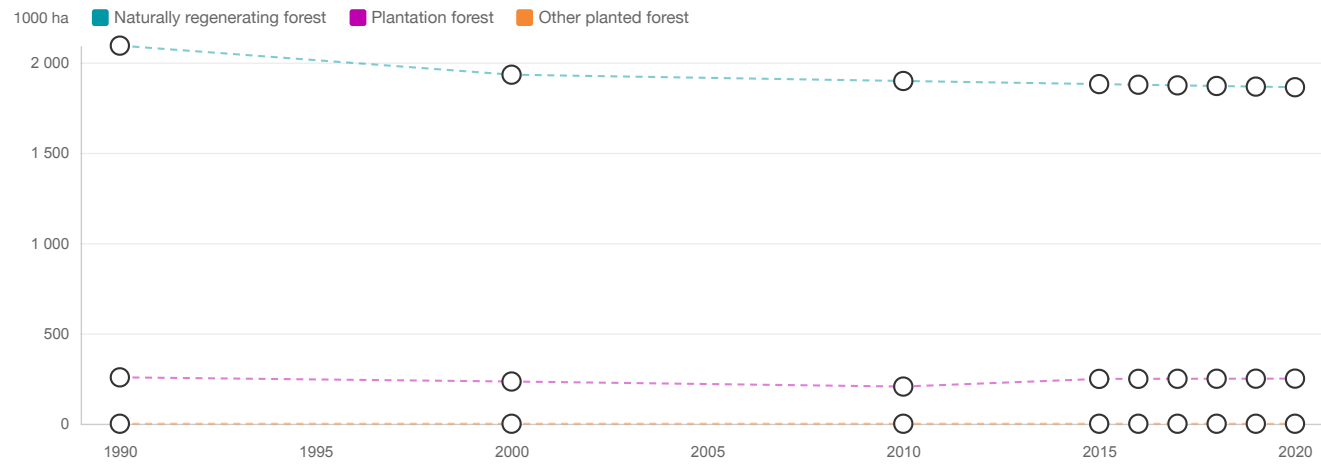
### Analysis and processing of national data

#### Estimation and forecasting

Linear interpolation and extrapolation was used to estimate past and future forest cover estimates

#### Reclassification into FRA 2020 categories

Forest categories other than forest plantations are considered as naturally regenerating forests. Shrubs category was reclassified as other wooded lands.



FRA categories	Forest area (1000 ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020	
Naturally regenerating forest (a)	2 093.50	1 932.59	1 897.80	1 880.50	1 877.04	1 873.58	1 870.13	1 866.67	1 863.21	
<b>Planted forest (b)</b>	<b>256.83</b>	<b>233.83</b>	<b>205.82</b>	<b>248.32</b>	<b>248.62</b>	<b>248.92</b>	<b>249.21</b>	<b>249.51</b>	<b>249.81</b>	
Plantation forest	256.83	233.83	205.82	248.32	248.62	248.92	249.21	249.51	249.81	
...of which introduced species										
Other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Total (a+b)</b>	<b>2 350.33</b>	<b>2 166.42</b>	<b>2 103.62</b>	<b>2 128.82</b>	<b>2 125.66</b>	<b>2 122.50</b>	<b>2 119.34</b>	<b>2 116.18</b>	<b>2 113.02</b>	
<b>Total forest area</b>	<b>2 350.33</b>	<b>2 166.42</b>	<b>2 103.62</b>	<b>2 128.82</b>	<b>2 125.66</b>	<b>2 122.50</b>	<b>2 119.34</b>	<b>2 116.18</b>	<b>2 113.02</b>	

### Comments

All the forests other than Forest plantations are considered as Naturally regenerated forests in Sri Lanka. FAO definition of Plantation forests include both forest plantations established for obtaining forest products and the rubber plantations established for latex productions. However, It should be noted that Rubber plantations are excluded in the definition of forest cover of Sri Lanka.

## 1c Primary forest and special forest categories

### National Data

#### Data sources + type of data source eg NFI, etc

Forest Cover estimates of the Forest Department was used to estimate extent of mangrove vegetation , Extent of rubber was taken from the central bank report .Central Bank of Sri Lanka 2018, Annual Report 2017, Volume 1, Colombo, Sri Lanka

#### National classification and definitions

Mangrove is the vegetation exist in the intertidal zone.

#### Original data

Forest Department Records

### Analysis and processing of national data

#### Estimation and forecasting

Mangroves: 1990-2015 we used linear extrapolation. Although the mangrove area is increasing annually there are no space for further enhancement of the mangrove extent. So repeat last value was for 2020.

Rubber Plantations: Repeat last value was used for 2020.

#### Reclassification into FRA 2020 categories

Mangrove is classified as Forests.

Rubber is not categorized as Forests

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Primary forest	257.00	197.00	167.00	167.00	167.00
Temporarily unstocked and/or recently regenerated	0.00	0.00	0.00	0.00	0.00
Bamboos	0.00	0.00	0.00	0.00	0.00
Mangroves	9.10	11.21	15.69	20.15	20.15
Rubber wood	183.00	157.00	126.00	137.00	137.00

### Comments

As mentioned in the table 1a Field verification of latest forest cover map prepared in 2015 has not been completed. However, field verification for mangrove is completed. therefore, 2015 data has been included into the table 1e.

## 1d Annual forest expansion, deforestation and net change

### National Data

#### Data sources + type of data source eg NFI, etc

Administration Reports of the Forest Department

#### National classification and definitions

Same as FAO

#### Original data

Forest Department Records and Forest cover maps

### Analysis and processing of national data

#### Estimation and forecasting

Based on data comparison

#### Reclassification into FRA 2020 categories

Reclassification was done as mentioned in previous sections



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)	-18.39	-6.28	5.04	-3.16

### Comments

8,700 ha of scrublands have been brought under restoration through assisted natural regeneration during the period of 2010 -2015. Another 600 ha of scrublands have been brought under restoration during 2015 - 2020. However, it cannot be included into the table as forest cover maps have not been prepared for those time periods. Even if forest cover maps were prepared, these lands might not be interpreted as forests since the vegetation has not been grown enough to identify as forests.

## 1e Annual reforestation

### National Data

#### Data sources + type of data source eg NFI, etc

Administration Reports of the Forest Department from 1990 to 2017, Plantation data base of the Forest Inventory & GIS Branch and the records of the Silviculture and Forest Mangement Branch of the Forest Department

#### National classification and definitions

Establishment of forests on a land where forest was present within 50 years. Establishment of rubber is not included

#### Original data

Plantation establishment and maintenance records

### Analysis and processing of national data

#### Estimation and forecasting

Linear estimation was done to predict upto 2020

#### Reclassification into FRA 2020 categories

No

FRA categories	Area (1000 ha/year)			
	1990-2000	2000-2010	2010-2015	2015-2020
Reforestation	0.88	0.79	0.84	0.83

**Comments**

## 1f Other land with tree cover

### National Data

#### Data sources + type of data source eg NFI, etc

Central Bank of Sri Lanka 2018, Annual Report 2017, Volume 1, Colombo, Sri Lanka, CEA 2018, A Study to Identify Environmental and Social Issues of Oil Palm Cultivation in Sri Lanka, Central Environment authority, Colombo, Sri Lanka. Jewell, N. (1995). The use of Landsat TM data for estimating the area of homegarden . The Sri Lanka Forester (the Ceylon Forester) Special Issue in 1995: 79-86.

#### National classification and definitions

-

#### Original data

-

### Analysis and processing of national data

#### Estimation and forecasting

-

#### Reclassification into FRA 2020 categories

There is a high demand for lands to be used as settlements. Therefore we cannot expect an increase in Coconut cultivation whereas there is a social pressure for establishing oil palm. that repeat last value was used for palm.

Agroforestry extent was calculated as linear extrapolation method using 2000 and 2010 data.

FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Palms (a)			401.60	464.00	464.00
Tree orchards (b)			7.89	8.90	8.07
Agroforestry (c)		818.00	971.00	1 047.50	1 124.00
Trees in urban settings (d)					
Other (specify in comments) (e)					
<b>Total (a+b+c+d+e)</b>	–	<b>818.00</b>	<b>1 380.49</b>	<b>1 520.40</b>	<b>1 596.07</b>
Other land area	<b>3 868.67</b>	<b>4 052.58</b>	<b>4 115.38</b>	<b>4 090.18</b>	<b>4 105.98</b>

### Comments

Extents of Coconut and Oil palm were added together to get the total Palm extent.

Only the extent of homegardens (Homesteads) were considered as agroforestry.

## 2 Forest growing stock, biomass and carbon

### 2a Growing stock

#### National Data

##### Data sources + type of data source eg NFI, etc

1984 and 1993 (NFI, 1986) and (GOSL, 1995)

##### National classification and definitions

Wood volume of all the trees above 10 cm diameter at breast height

##### Original data

Forest Type	1992 (Legg and Jwell, 1995) (Area in ha)	1996 (GOSL, 2000) (Area in ha) 2008 (GOSL 2010) (Area in ha)	2008 (GOSL,2010) (Area in ha)	1984 and 1993 (NFI, 1986) and (GOSL, 1995) (cubic meter/ha)
Montane Forest	3,108	3,099	44,758	9
Sub-montane Forest	68,838	65,792	28,512	9
Lowland Rain Forest	141,549	124,340	123,302	126
Moist Monsoon Forest	243,877	221,977	117,885	29
Dry Monsoon Forest	1,094,287	1,027,544	1,121,392	15
Riverine Dry Forest	22,411	18,352	2,425	15
Mangroves	8,687	9,530	15,669	10
Forest Plantations Excluding Rubber	72,340	79,940	78,448	40
Sparse Forest	463,842	471,583	445,485	5
Other wooded Lands	0	0	52,000	3

#### Analysis and processing of national data

##### Estimation and forecasting

Weighted average of all the forest categories were calculated to get the growing stock m<sup>3</sup>/ha for naturally regenerating forests.

##### Reclassification into FRA 2020 categories

Forests categories other than forest plantations were considered as naturally regenerating forests

FRA categories	Growing stock m <sup>3</sup> /ha (over bark)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020	
Naturally regenerating forest	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99	19.99
Planted forest	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
...of which plantation forest	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
...of which other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Forest	22.18	22.15	21.95	22.32	22.33	22.34	22.34	22.35	22.36	
Other wooded land	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	

FRA categories	Total growing stock (million m <sup>3</sup> over bark)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020	
Naturally regenerating forest	41.85	38.63	37.94	37.59	37.52	37.45	37.38	37.31	37.25	
Planted forest	10.27	9.35	8.23	9.93	9.94	9.96	9.97	9.98	9.99	
...of which plantation forest	10.27	9.35	8.23	9.93	9.94	9.96	9.97	9.98	9.99	
...of which other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Forest	52.12	47.98	46.17	47.52	47.46	47.41	47.35	47.29	47.24	
Other wooded land	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	

## Comments

## 2b Growing stock composition

### National Data

#### Data sources + type of data source eg NFI, etc

No data on growing stock by main tree species available.

#### 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 m <sup>3</sup> over bark)				
			1990	2000	2010	2015	2020
<b>Native tree species</b>							
#1 Ranked in terms of volume	<i>Drypetes sepiaria</i>	Weera					
#2 Ranked in terms of volume	<i>Vitex alticima</i>	Milla					
#3 Ranked in terms of volume	<i>Chloroxyclons witinia</i>	Burutha					
#4 Ranked in terms of volume	<i>Berria cordifolia</i>	Halmilla					
#5 Ranked in terms of volume	<i>Dimocarpus longan</i>	Mora					
#6 Ranked in terms of volume	<i>Bauhinia racimosa</i>	Maila					
#7 Ranked in terms of volume	<i>Prerospermum canscens</i>	Welan					
#8 Ranked in terms of volume	<i>Schleichera oleosa</i>	Kon					
#9 Ranked in terms of volume	<i>Syzygium cumini</i>	Madan					
#10 Ranked in terms of volume	<i>Myristica dactiloides</i>	Malaboda					
<b>Remaining native tree species</b>							
<b>Total volume of native tree species</b>			-	-	-	-	-
<b>Introduced tree species</b>							
#1 Ranked in terms of volume	<i>Tectona grandis</i>	Teak					
#2 Ranked in terms of volume	<i>Eucalyptus grandis</i>	Eucalyptus					
#3 Ranked in terms of volume	<i>Sweetinia macrophylla</i>	Mahogany					

FRA categories	Scientific name	Common name	Growing stock in forest (million m <sup>3</sup> over bark)				
			1990	2000	2010	2015	2020
<b>Native tree species</b>							
#4 Ranked in terms of volume	Kahaya senegalensis	Kaya					
#5 Ranked in terms of volume	Accasia	Accasia					
<b>Remaining introduced tree species</b>							
<b>Total volume of introduced tree species</b>			-	-	-	-	-
<b>Total growing stock</b>			-	-	-	-	-

## Comments

## 2c Biomass stock

### National Data

#### Data sources + type of data source eg NFI, etc

Forest cover maps prepared by Forest department

#### National classification and definitions

-

#### Original data

Forest cover estimates and plantation data

### Analysis and processing of national data

#### Estimation and forecasting

Using biomass calculator

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	13%	29%							
Broadleaved dry	87%	50%							
Coniferous		21%							
	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
<b>Plantation forest</b>									
Broadleaved humid	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Broadleaved dry	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Coniferous	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<b>Other planted forest</b>									
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
<b>Weighted BCEF</b>									
Naturally regenerating forest	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Plantation forest	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
Other planted forest									
<b>Root-shoot ratios</b>									
<b>Naturally regenerating forest</b>	<b>1990</b>	<b>2000</b>	<b>2010</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
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
<b>Plantation forest</b>									
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
<b>Other planted forest</b>									
Broadleaved humid	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Broadleaved dry	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Coniferous	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
<b>Weighted RS ratio</b>									
Naturally regenerating forest	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Plantation forest	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26

Other planted forest									
<b>Above-ground biomass (t/ha)</b>									
	<b>1990</b>	<b>2000</b>	<b>2010</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Naturally regenerating forest	79.96	79.96	79.96	79.96	79.96	79.96	79.96	79.96	79.96
Plantation forest	73.18	73.18	73.18	73.18	73.18	73.18	73.18	73.18	73.18
Other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>79.22</b>	<b>79.23</b>	<b>79.30</b>	<b>79.17</b>	<b>79.17</b>	<b>79.16</b>	<b>79.16</b>	<b>79.16</b>	<b>79.16</b>
<b>Below-ground biomass (t/ha)</b>									
	<b>1990</b>	<b>2000</b>	<b>2010</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
Naturally regenerating forest	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56	21.56
Plantation forest	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95	18.95
Other planted forest	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>21.27</b>	<b>21.28</b>	<b>21.30</b>	<b>21.25</b>	<b>21.25</b>	<b>21.25</b>	<b>21.25</b>	<b>21.25</b>	<b>21.25</b>

### Reclassification into FRA 2020 categories

Forest type	Forest category		Forest plantation species	Plantation Category	
Lowland rain forests	Broad leaved humid	13%	<i>Dipterocarpus zeylanicum</i>	Broad leaved humid	29%
Moist monsoon forests	Broad leaved humid		<i>Khaya senegalensis</i>		
Montane forests	Broad leaved humid		<i>Eucalyptus species</i>		
Sub montane forests	Broad leaved humid		<i>Tectona grandis</i>	Broad leaved dry	50%
Dry monsoon forests	Broad leaved dry	87%	<i>Swietenia macrophylla</i>		
Mangroves	Broad leaved dry		<i>Accasia bspecies</i>		
Riverine forests	Broad leaved dry		<i>Pinus species</i>	Conifers	21%
Open forests	Broad leaved dry				

FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	79.22	79.23	79.30	79.17	79.17	79.16	79.16	79.16	79.16
Below-ground biomass	21.27	21.28	21.30	21.25	21.25	21.25	21.25	21.25	21.25
Dead wood									

## Comments

## 2d Carbon stock

### National Data

#### Data sources + type of data source eg NFI, etc

Forest cover maps of 1992, 1999 and 2010

Kurupparachchi., K.A.J.M., Senaviratne, G. and Madurapperuma, B.D., 2016, Crbon Sequrement in tropical forest stand: Its control by plant , soil,and climatic factors.,Open journal of forestry 6:57- 71

#### National classification and definitions

-

#### Original data

Extent of forest cover from forest cover maps

### Analysis and processing of national data

#### Estimation and forecasting

Carbon in dead wood and soil were not estimated

#### Reclassification into FRA 2020 categories

Crbon pool	National range (t ha <sup>-1</sup> )
liter	
Topical moist forest	7.74
Tropical dry forest	7.08

FRA categories	Forest carbon (tonnes/ha)									
	1990	2000	2010	2015	2016	2017	2018	2019	2020	
Carbon in above-ground biomass	37.23	37.24	37.27	37.21	37.21	37.21	37.21	37.21	37.21	37.20
Carbon in below-ground biomass	10.00	10.00	10.01	9.99	9.99	9.99	9.99	9.99	9.99	9.99
Carbon in dead wood										
Carbon in litter	15.00	14.35	14.06	13.91	13.88	13.85	13.82	13.80	13.80	13.76
Soil carbon										

<b>Soil depth (cm) used for soil carbon estimates</b>	
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## Comments



## **3 Forest designation and management**

### **3a Designated management objective**

#### **National Data**

##### **Data sources + type of data source eg NFI, etc**

Forest cover map

##### **National classification and definitions**

-

##### **Original data**

-

#### **Analysis and processing of national data**

##### **Estimation and forecasting**

Forest plantations=100% production

Remaining forest= multiple use

##### **Reclassification into FRA 2020 categories**

-

**Primary designated management objective**

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production (a)	73.83	76.83	79.82	81.32	82.81
Protection of soil and water (b)	0.00	0.00	0.00	0.00	0.00
Conservation of biodiversity (c)	0.00	0.00	0.00	0.00	0.00
Social Services (d)	0.00	0.00	0.00	0.00	0.00
Multiple use (e)	2 072.77	1 941.26	1 897.80	1 876.07	1 854.34
Other (specify in comments) (f)	0.00	0.00	0.00	0.00	0.00
None/unknown (g)	<b>203.73</b>	<b>148.33</b>	<b>126.00</b>	<b>171.43</b>	<b>175.87</b>
<b>Total forest area</b>	<b>2 350.33</b>	<b>2 166.42</b>	<b>2 103.62</b>	<b>2 128.82</b>	<b>2 113.02</b>

**Total area with designated management objective**

FRA 2020 categories	Forest area (1000 ha)				
	1990	2000	2010	2015	2020
Production	73.83	76.83	79.82	81.32	82.81
Protection of soil and water	223.00	198.00	167.00	177.00	177.00
Conservation of biodiversity	553.50	556.30	594.40	623.50	663.50
Social Services	1 296.27	1 186.96	1 136.40	1 075.57	1 013.84
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

Forest cover maps, Gazette notifications, Conservation forest and forest reserve map layers

#### National classification and definitions

-

#### Original data

-

### Analysis and processing of national data

#### Estimation and forecasting

-

#### Reclassification into FRA 2020 categories

Declared forests under forest ordinance, fauna and flora protection act and other relevant act and ordinances were considered as protected areas.

FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest area within protected areas	548.50	549.26	637.26	1 241.26	1 242.05	1 245.21	1 248.37	1 250.37	1 258.37
Forest area with long-term forest management plan									
...of which in protected areas									

### Comments

Forest department is planning to declare 2,000 ha and 8,000 ha of forest lands under the Forest ordinance in 2019 and 2020 respectively. Surveying has already been started to map forest areas

## 4 Forest ownership and management rights

### 4a Forest ownership

#### National Data

##### Data sources + type of data source eg NFI, etc

Forest cover maps

##### 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)	183.00	157.00	116.00	181.57
...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)	1 963.60	1 861.09	1 861.62	1 775.82
Unknown/other (specify in comments) (c)	203.73	148.33	126.00	171.43
<b>Total forest area</b>	<b>2 350.33</b>	<b>2 166.42</b>	<b>2 103.62</b>	<b>2 128.82</b>

### Comments

Extent of private forests was extracted from the Forest cover map prepared in 2015 ( Polygons representing private forests were field varified)

## 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)	1 963.60	1 861.09	1 861.62	1 775.82
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)	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Total public ownership	<b>1 963.60</b>	<b>1 861.09</b>	<b>1 861.62</b>	<b>1 775.82</b>

### Comments

All the public forests are managed by the Forest Department and the Department of Wildlife Conservation at present.



## **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)																		
<b>Total (a+b+c+d)</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total forest area	<b>2 166.42</b>	-	-	-	-	-	-	-	-	-	<b>2 103.62</b>	-	-	-	-	<b>2 128.82</b>	<b>2 125.66</b>	<b>2 122.50</b>

### Comments

There are no severe insect pest attack on forest species in Sri Lanka. In addition to that damages from the severe weather events also hardly ever recorded.

## 5b Area affected by fire

### National Data

#### Data sources + type of data source eg NFI, etc

Records of the Silviculture and Forest Management Branch of the Forest department

#### National classification and definitions

-

#### Original data

Fire incidents and damage records and Records on Forest offences

### Analysis and processing of national data

#### Estimation and forecasting

No specific trend observed.

#### Reclassification into FRA 2020 categories

No reclassification was needed

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				0.01	0.17	0.93	0.23	0.10	0.10	1.07	0.85	0.44	0.90					0.48

### Comments

Data for 2013, 2014, 2015 and 2016 are not available

## 5c Degraded forest

<b>Does your country monitor area of degraded forest</b>		Yes
If "yes"	What is the national definition of "Degraded forest"?	Reduction of the original canopy cover of the forests is consider as Forest Degradation. However, if the canopy cover is reduce below the 10% threshold it is not considered as degradation. and it is considered as a deforestation.
	Describe the monitoring process and results	Canopy cover of the forests is monitor using satellite images, high resolution Google images together with filed verification.

### 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

Forestry sector master plan 1996, Forest ordinance, Fauna and flora protection act, World heritage forestry act, National wilderness act

##### 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	Yes	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

-

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			1 654.50	1 680.00	1 750.00

## Comments

## 7 Employment, education and NWFP

### 7a Employment in forestry and logging

#### National Data

##### Data sources + type of data source eg NFI, etc

Administrative Reports of Forest department nad State Timber Cooperation

##### National classification and definitions

-

#### Original data

	2015		
<b>Empoly ment in forestry and logging</b>	<b>No of placess</b>	<b>No of Empolys</b>	<b>Total empolyments</b>
Saw miles	298	4	1,192
Timber deport	494	2	988
Carpentry	644	2	1,288
Mobile saw miles	687	1	687
Furniture shop	597	2	1,194
Fire wood stole	170	2	340
Timber seasoning Deport	15	2	30
			<b>5,719</b>
Logging contractors	1155	2	2,310
Drivers (Timber transport vehicle)	81	1	81
Tractor operators	30	1	30
Chain saw operators	73	1	73
			<b>2,494</b>

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	2.48			4.83			4.70			8.21		
...of which silviculture and other forestry activities												
...of which logging										2.49		
...of which gathering of non wood forest products												
...of which support services to forestry										5.72		

## 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	2.00			3.00			2.00			2.00		
Master's degree	20.00			20.00			20.00			20.00		
Bachelor's degree	30.00			30.00			50.00			70.00		
Technician certificate / diploma	80.00			80.00			80.00			80.00		
Total	132.00			133.00			152.00			172.00		

### Comments

Only university that produces forestry graduates is University of Sri Jayawardanapura, Nugegoda , Sri Lanka whereas Sri Lanka Forestry Institute in the only Intitution that offers Diploma and Certificates courses in Forestry.

## 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	Resin	Pinus caribeeae				4 Raw material for colorants and dyes
#2	Rattan	Calamus Spp				5 Raw material for utensils handicrafts construction
#3	Bamboo	Bambo Spp				5 Raw material for utensils handicrafts construction
#4	Wild fruits & edible plants					1 Food
#5	Medicinal plants					3 Raw material for medicine and aromatic products
#6	Treacle and jaggery	carriota urenes				1 Food
#7	Bee Honey					11 Wild honey and bee wax
#8	Bush meet					12 Wild meat
#9	Ornamantal Plants					
#10						
<b>All other plant products</b>						
<b>All other animal products</b>						
<b>Total</b>						-

Name of currency	
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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	34.55	33.55	33.95	33.90	33.85	33.80	33.75	33.70

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

#### 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	-0.29	0.24	-0.15	-0.15	-0.15	-0.15	-0.15

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

Sub-Indicator 2	Forest biomass (tonnes/ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass stock in forest	79.23	79.30	79.17	79.17	79.16	79.16	79.16	79.16

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	25.80	29.93	58.31	58.34	58.49	58.64	58.74	59.11

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

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

Sub-Indicator 5	Forest area (1000 ha)							
	2000	2010	2015	2016	2017	2018	2019	2020
Forest area under independently verified forest management certification schemes	17.51	23.17	15.18	14.60	17.52	17.03	-	-