



Food and Agriculture  
Organization of the  
United Nations

# Global Forest Resources Assessment 2020

Report

**Palau**

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)

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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

1979	References	Cole, T. G., M. C. Falanruw, C. D. MacLean, C. D. Whitesell, and A. H. Ambacher. 1987. Vegetation Survey of the Republic of Palau. Resource Bulletin PSW-RB-22, Pacific Southwest Research Station, USDA Forest Service.
	Methods used	Full-cover forest/vegetation maps
	Additional comments	Land cover and vegetation maps were interpreted from 1976, 1:10,000 aerial photo imagery. Final data from report was dated 1979. FAO Calibrated Data Calibration factor 1979 = $(46,000/41,619) = 1.105264422$

2002	References	Preliminary land cover assessment for the Republic of Palau, USDA Forest Service, Pacific Northwest Forest Inventory and Analysis. Contact: Joseph Donnegan, jdonnegan@fs.fed.us
	Methods used	Full-cover forest/vegetation maps
	Additional comments	A preliminary five class land cover map was derived from IKONOS satellite data (1m resolution). Classes included: forest, nonforest vegetation, barren land, urban, and inland water. Calibrated to FAOSTAT: Calibration factor 2002 = $(46,000/45,141) = 1.01903734103278$

2019	References	Palau 2019 State and Private Forestry Fact Sheet
	Methods used	Other (specify in comments)
	Additional comments	<a href="https://apps.fs.usda.gov/nicportal/temp/pdf/sfs/naweb/PW_std.pdf">https://apps.fs.usda.gov/nicportal/temp/pdf/sfs/naweb/PW_std.pdf</a>

### Classifications and definitions

1979	National class	Definition
	all forest land	

2002	National class	Definition
	all forest land	

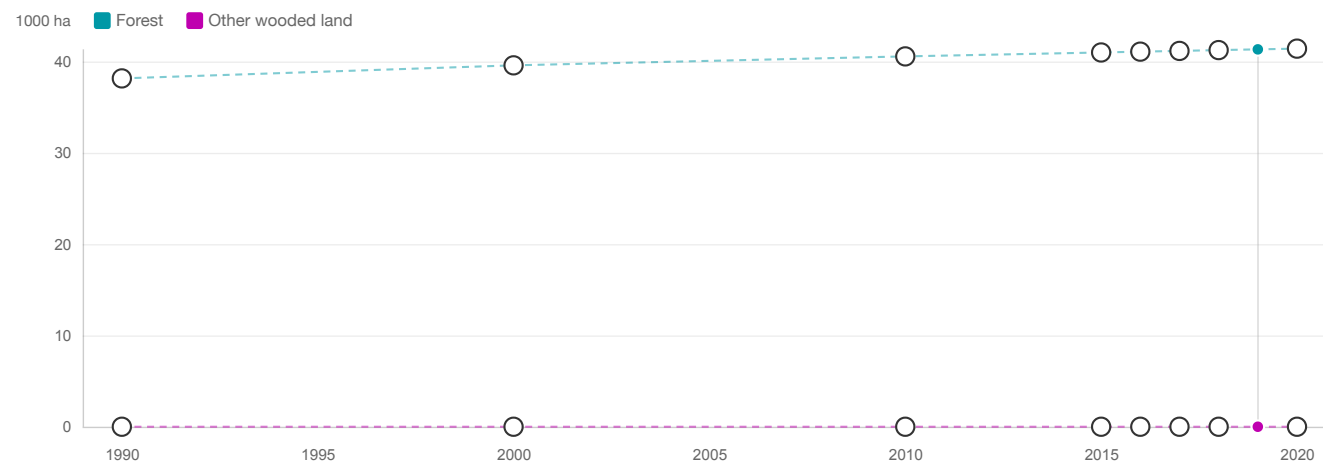
2019	National class	Definition
	all forest land	

Original data and reclassification

1979	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	all forest land	36.58	100.00 %	0.00 %	0.00 %
	Total	36.58	36.58	0.00	0.00

2002	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	all forest land	39.87	100.00 %	0.00 %	0.00 %
	Total	39.87	39.87	0.00	0.00

2019	Classifications and definitions		FRA classes		
	Class	Area (1000 ha)	Forest	Other wooded land	Other land
	all forest land	41.33	100.00 %	0.00 %	0.00 %
	Total	41.33	41.33	0.00	0.00



FRA categories	Area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Forest (a)	38.15	39.58	40.56	40.99	41.08	41.16	41.25	41.33	41.41
Other wooded land (a)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other land (c-a-b)	7.85	6.42	5.44	5.01	4.92	4.84	4.75	4.67	4.59
Total land area (c)	46.00	46.00	46.00	46.00	46.00	46.00	46.00	46.00	46.00

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	0.00	
Tropical	100.00	

Comments

According to Palau 2019 State and Private Forestry Fact Sheet ([https://apps.fs.usda.gov/nicportal/temp/pdf/sfs/naweb/PW\\_std.pdf](https://apps.fs.usda.gov/nicportal/temp/pdf/sfs/naweb/PW_std.pdf)):

Acres of Forest Land 102,130, which is 41330.5446 ha



1b Forest characteristics

National Data

Data sources + type of data source eg NFI, etc

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National classification and definitions

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Original data

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Analysis and processing of national data

Estimation and forecasting

-

Reclassification into FRA 2020 categories

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FRA categories	Forest area (1000 ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Naturally regenerating forest (a)									
<b>Planted forest (b)</b>	–	–	–	–	–	–	–	–	–
Plantation forest									
...of which introduced species									
Other planted forest									
<b>Total (a+b)</b>	–	–	–	–	–	–	–	–	–
<b>Total forest area</b>	<b>38.15</b>	<b>39.58</b>	<b>40.56</b>	<b>40.99</b>	<b>41.08</b>	<b>41.16</b>	<b>41.25</b>	<b>41.33</b>	<b>41.41</b>

## Comments

1c Primary forest and special forest categories

National Data

Data sources + type of data source eg NFI, etc

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National classification and definitions

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Original data

-

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Primary forest					
Temporarily unstocked and/or recently regenerated					
Bamboos					
Mangroves					
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)	0.14	0.10	0.09	0.08

Comments

**1e Annual reforestation**

**National Data**

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

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**Analysis and processing of national data**

Estimation and forecasting

-

Reclassification into FRA 2020 categories

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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

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Original data

-

Analysis and processing of national data

Estimation and forecasting

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Reclassification into FRA 2020 categories

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FRA categories	Area (1000 ha)				
	1990	2000	2010	2015	2020
Palms (a)					
Tree orchards (b)					
Agroforestry (c)					
Trees in urban settings (d)					
Other (specify in comments) (e)					
Total (a+b+c+d+e)	–	–	–	–	–
Other land area	7.85	6.42	5.44	5.01	4.59

Comments

## 2 Forest growing stock, biomass and carbon

### 2a Growing stock

#### National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Donnegan, J. A., S. L. Butler, O. Kuegler, B. J. Stroud, B. A. Hiserote, and K. Rengulbai. 2007. Palau's Forest Resources, 2003. Resource Bulletin PNW-RB-252, U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.	H	Net volume on forest land	2003	Data were collected on 0.067 ha plots spaced at approximately 3 km intervals across the forested landscape.
Cole, T. G., M. C. Falanruw, C. D. MacLean, C. D. Whitesell, and A. H. Ambacher. 1987. Vegetation Survey of the Republic of Palau. Resource Bulletin PSW-RB-22, Pacific Southwest Research Station, USDA Forest Service.	H	Volume on most productive forest lands	1985	Inventory does not cover all lands, but accounts for approximately 89% of the forested lands.
Penman, J., M. Gytarsky, T. Hiraishi, T. Krug, D. Kruger, R. Pipatti, L. Buendia, K. Miwa, T. Ngara, K. Tanabe, and F. Wagner, editors. 2003. Good Practice Guidance for Land Use, Land-Use Change and Forestry. Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme, Institute for Global Environmental Strategies (IGES), Hayama, Kanagawa, Japan.		Carbon mass conversion factors, biomass expansion factors and ratio of aboveground to belowground biomass.	2003	

#### National classification and definitions

-

#### Original data

1983 timberland volume for timber species.				
Timberland types:	Upland forest	Mangrove forest	Swamp forest	All types
	Million cubic meters			
Total volume	2.511	0.206	0.231	2.948

2003 estimated net volume of all live trees ≥ 12.5 cm d.b.h. on forest land.

Forest type	million cu.m
Limestone forest	2.136
Volcanic/ravine forest	5.377
Total	7.513

This equals an average growing stock of 190 m3 per hectare.

#### Analysis and processing of national data

#### Estimation and forecasting

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#### Reclassification into FRA 2020 categories

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FRA categories	Growing stock m³/ha (over bark)			
	1990	2000	2010	2015
Naturally regenerating forest				
Planted forest				
...of which plantation forest				
...of which other planted forest				
Forest	190.00	190.00	190.00	190.00
Other wooded land				

FRA categories	Total growing stock (million m³ over bark)			
	1990	2000	2010	2015
Naturally regenerating forest				
Planted forest				
...of which plantation forest				
...of which other planted forest				
Forest	7.25	7.52	7.71	7.79
Other wooded land				

Comments

## 2b Growing stock composition

### National Data

Data sources + type of data source eg NFI, etc

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Donnegan, J. A., S. L. Butler, O. Kuegler, B. J. Stroud, B. A. Hiserote, and K. Rengulbai. 2007. Palau's Forest Resources, 2003. Resource Bulletin PNW-RB-252, U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.	H	Net volume on forest land	2003	Data were collected on 0.067 ha plots spaced at approximately 3 km intervals across the forested landscape.
Cole, T. G., M. C. Falanruw, C. D. MacLean, C. D. Whitesell, and A. H. Ambacher. 1987. Vegetation Survey of the Republic of Palau. Resource Bulletin PSW-RB-22, Pacific Southwest Research Station, USDA Forest Service.	H	Volume on most productive forest lands	1985	Inventory does not cover all lands, but accounts for approximately 89% of the forested lands.

### National classification and definitions

-

#### Original data

1983 timberland volume for timber species.				
Timberland types:	Upland forest	Mangrove forest	Swamp forest	All types
	Million cubic meters			
Total volume	2.511	0.206	0.231	2.948

2003 estimated net volume of all live trees ≥ 12.5 cm d.b.h. on forest land.

Forest type	million cu.m
Limestone forest	2.136
Volcanic/ravine forest	5.377
Total	7.513

### Analysis and processing of national data

#### Estimation and forecasting

-

#### Reclassification into FRA 2020 categories

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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	Camptosperma brevipetiolata	kelela charm, kiu			0.65		
#2 Ranked in terms of volume	Maranthes corymbosa	bkau, apgau			0.62		
#3 Ranked in terms of volume	Horsfieldia palauensis	ersachel			0.39		
#4 Ranked in terms of volume	Sonneratia alba	urur			0.33		
#5 Ranked in terms of volume	Horsfieldia novo-guineensi	ersachel			0.30		
#6 Ranked in terms of volume	Intsia bijuga	dort			0.25		
#7 Ranked in terms of volume	Rhizophora apiculata	bngaol			0.24		
#8 Ranked in terms of volume	Cocos nucifera	lius, coconut			0.24		
#9 Ranked in terms of volume	Pinanga insignis	ebouch, demailei			0.24		
#10 Ranked in terms of volume	Semecarpus venenosus	tonget, poison tree			0.19		
Remaining native tree species					4.21		
Total volume of native tree species			–	–	7.66	–	–
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							

FRA categories	Scientific name	Common name	Growing stock in forest (million m³ over bark)				
			1990	2000	2010	2015	2020
Native tree species							
#5 Ranked in terms of volume							
Remaining introduced tree species							
Total volume of introduced tree species			–	–	–	–	–
Total growing stock			–	–	7.66	–	–

Comments

2005 data was filled in 2010 column

## 2c Biomass stock

### National Data

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

References to sources of information	Quality (H/M/L)	Variable(s)	Year(s)	Additional comments
Donnegan, J. A., S. L. Butler, O. Kuegler, B. J. Stroud, B. A. Hiserote, and K. Rengulbai. 2007. Palau's Forest Resources, 2003. Resource Bulletin PNW-RB-252, U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.	H	Tree stem biomass	2003	Data were collected on 0.067 ha plots spaced at approximately 3 km intervals across the forested landscape.
Penman, J., M. Gytarsky, T. Hiraishi, T. Krug, D. Kruger, R. Pipatti, L. Buendia, K. Miwa, T. Ngara, K. Tanabe, and F. Wagner, editors. 2003. Good Practice Guidance for Land Use, Land-Use Change and Forestry. Intergovernmental Panel on Climate Change, National Greenhouse Gas Inventories Programme, Institute for Global Environmental Strategies (IGES), Hayama, Kanagawa, Japan,.	M	Carbon mass conversion factors, biomass expansion factors and ratio of aboveground to belowground biomass.	2003	

#### National classification and definitions

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#### Original data

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### Analysis and processing of national data

#### Estimation and forecasting

FAOSTAT total area = 46,000 ha

Calibration factor 2002 = (46,000/45,141) = 1.01903734103278

Biomass was calculated using total stem volume and wood density, a biomass expansion factor to estimate branches, leaves, and seeds (3.4; tropical broadleaf), and an aboveground to belowground ratio estimator (0.27; tropical/sub-tropical dry forest).

#### 2003 estimated stem biomass, Palau, calibrated by FAO area.

Scientific Name	DEAD	LIVE	Grand Total
		<i>metric tonnes</i>	
Grand Total	142764	4936119	5078883

#### Reclassification into FRA 2020 categories

-



FRA categories	Forest biomass (tonnes/ha)								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Above-ground biomass	416.21	416.21	416.21	416.21					
Below-ground biomass	112.38	112.38	112.38	112.38					
Dead wood	3.47	3.47	3.47	3.47					

Comments

## 2d Carbon stock

### National Data

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

-

#### National classification and definitions

-

#### Original data

Biomass data was multiplied by 0.5 to estimate stem carbon.

### Analysis and processing of national data

#### Estimation and forecasting

Carbon mass was estimated as ½ biomass.

#### 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	208.11	208.11	208.11	208.11					
Carbon in below-ground biomass	56.19	56.19	56.19	56.19					
Carbon in dead wood	1.74	1.74	1.74	1.74					
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

References to sources of information	Variables		Years	Additional comments
Mueller-Dombois, D., and F. R. Fosberg. 1998. Vegetation of the Tropical Pacific Islands. Springer-Verlag, New York.	Designation of forests	N/A		Descriptive information based on field visits and extensive experience in the tropical Pacific.

National classification and definitions

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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)	0.00	0.00	0.00	0.00	0.00
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)	38.15	39.58	40.56	40.99	41.41
Other (specify in comments) (f)	0.00	0.00	0.00	0.00	0.00
None/unknown (g)	0.00	0.00	0.00	0.00	0.00
Total forest area	38.15	39.58	40.56	40.99	41.41

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

-

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									
Forest area with long-term forest management plan									
...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

References to sources of information		Variables		Years	Additional comments
Al Caraig, National Surveyor, BLS Ramarui Daniel, Cartographer I, BLS	N/A		2008		The numbers in the original data table are estimated numbers from the Bureau of Lands and Surveys (BLS), Ministry of Resources and Development taken in 2008. The BLS does not differentiate between ownership of land covered in forest or other land cover types. Therefore, these figures are of land area and not only of forest areas. Available data does not allow reporting for this reporting table.

#### National classification and definitions

##### Original data

Table from the Bureau of Lands and Surveys ( BLS ). Note that this table does not include statistics for public and private lands in Sonsorol and Hatohobei States. Also it does not include the rock islands. The vast majorityof the rock islands are public lands however there are a few that are privately owned. The total estimated area of the rock islands is: 4,872.08 ha.			
STATES (Unit in Hectares)	PUBLIC LANDS	PRIVATE LANDS	TOTAL
AIRAI	4936.02	1569.02	6505.04
AIMELIIK	4282.05	1394.72	5676.76
NGATPANG	2120.17	928.00	3048.17
NGEREMLENGUI	4713.54	303.81	5017.35
NGARDMAU	4339.55	957.01	5296.55
NGARRARD	2224.81	863.77	3088.58
NGERCHELONG	163.17	609.43	772.60
NGIWAL	1867.91	1853.15	3721.05
MELEKEOK	1554.26	818.44	2372.70
NGCHESAR	3407.92	807.30	4215.23
KOROR MAIN. IS.	309.25	487.18	796.43
PELELIU	296.56	941.21	1237.76
ANGAUR	51.02	803.68	854.70
KAYANGEL	0.00	170.94	170.94
Estimations are not made for 1990, 2000 and 2005 as this information is unknown.			

#### 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	38.15	39.58	40.56	40.99

## 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

References to sources of information	Variables	Years	Additional comments
Donnegan, J. A., K. Waddell, O. Kuegler, and B. A. Hiserote. 2008. Forest Inventory and Analysis: The Pacific Islands Database for American Samoa, Guam, Palau, the Northern Mariana's, Micronesia, and the Marshall Islands. Database version 2008-1. U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR.	Damages on trees, presence/absence	2003	Data are collected on 0.067 ha plots spaced at approximately 3 km intervals across the forested landscape.

#### National classification and definitions

-

#### Original data

Palau, estimated number of trees by species by damaging agent, 2003

Scientific name	None	Insect	Disease	Fire	Weather	Veg,	Physical	Silvicultural	Unknown	Grand total
<i>Aglaia palauensis</i>	171298				12293	49170				232760
<i>Allophylus ternatus</i>	36878									36878
<i>Allophylus timorensis</i>	12293									12293
<i>Alphitonia carolinensis</i>	454824		24585			12293				491701
<i>Annona reticulata</i>	12293									12293
<i>Areca catechu</i>	73755									73755
<i>Artocarpus mariannensis</i>	48372									48372
<i>Astronidium palauense</i>	258143		12293						12293	282728
<i>Avicennia mariana</i>	12293		12293							24585
<i>Badusa palauensis</i>	253955		24186			12093			12093	302327
<i>Barringtonia racemosa</i>	329904		12093			36878				378875
<i>Bruguiera gymnorrhiza</i>	467116		12293							479409
<i>Buchanania palawensis</i>	98141									98141
<i>Calophyllum inophyllum</i>	292428		12093						24186	328707
<i>Calophyllum pelewense</i>	196481		12293							208774
<i>Calophyllum soulattri</i>	49170									49170
<i>Calophyllum spp.</i>	36479					12093			24585	73157
<i>Campnosperma brevipetiolata</i>	712768		24585		36878	61463				835693
<i>Canarium hirsutum</i>	72559		12293			12293				97144

<i>Casearia cauliflora</i>	12293								<b>12293</b>
<i>Casearia</i> spp.	84652								<b>84652</b>
<i>Casuarina equisetifolia</i>	60465		12093						<b>72559</b>
<i>Cerbera floribunda</i>	24585								<b>24585</b>
<i>Cerbera manghas</i>	135018	12293				61463			<b>208774</b>
<i>Cocos nucifera</i>	305718					12293			<b>318010</b>
<i>Commersonia bartramia</i>	12293								<b>12293</b>
<i>Cordia micronesica</i>	12293								<b>12293</b>
<i>Cyathea lunulata</i>	540871					12293			<b>553164</b>
<i>Diospyros ferrea</i>	98340								<b>98340</b>
<i>Diospyros</i> spp.	73356						12293		<b>85649</b>
<i>Dodonaea viscosa</i>	72957								<b>72957</b>
<i>Dracaena multiflora</i>	97742		12093						<b>109835</b>
<i>Drypetes nitida</i>	36678								<b>36678</b>
<i>Elaeocarpus graeffei</i>						12293			<b>12293</b>
<i>Elaeocarpus joga</i>	452031		24585		24585	24386			<b>525587</b>
<i>Erythrina fusca</i>	12093								<b>12093</b>
<i>Eugenia cuminii</i>	206580					12093			<b>218673</b>
<i>Eugenia javanica</i>	181396		48372						<b>229769</b>
<i>Eugenia reinwardtiana</i>	568973		24186						<b>593160</b>
<i>Eugenia</i> spp.	36678								<b>36678</b>
<i>Fagraea ksid</i>	110633		24585			36878			<b>172095</b>
<i>Ficus</i> spp.	12293								<b>12293</b>
<i>Ficus tinctoria</i>	24186								<b>24186</b>
<i>Flacourtia rukam</i>	135018	12293				12093			<b>159404</b>
<i>Garcinia matudai</i>	49170				12293	12293			<b>73755</b>
<i>Garcinia rumiyo</i>	294024		12293			12293			<b>318609</b>
<i>Garcinia</i> spp.	342595								<b>342595</b>
<i>Gironniera celtidifolia</i>	36878								<b>36878</b>
<i>Glochidion ramiflorum</i>	133822		24386			36678			<b>194886</b>
<i>Glochidion</i> spp.						12293	12293		<b>24585</b>

<i>Gmelina elliptica</i>	181795		36678						<b>218473</b>
<i>Gmelina palawensis</i>	429840		73755			12093	36878	12293	<b>564858</b>
<i>Gmelina</i> spp.	36878		12293			24585			<b>73755</b>
<i>Gulubia palauensis</i>	108838								<b>108838</b>
<i>Hernandia sonora</i>	12093		12093			12093			<b>36279</b>
<i>Hernandia</i> spp.	36279		12093			12093			<b>60465</b>
<i>Heterospathe elata</i>	73755					12293			<b>86048</b>
<i>Hibiscus tiliaceus</i>	49170					49170			<b>98340</b>
<i>Horsfieldia amklaal</i>	219869		12293				12293		<b>244455</b>
<i>Horsfieldia novoguineensi</i>	221266		12293						<b>233558</b>
<i>Horsfieldia palauensis</i>	843398		60864	12293	12293	61263			<b>990111</b>
<i>Horsfieldia</i> spp.			12293						<b>12293</b>
<i>Inocarpus fagifer</i>	12293								<b>12293</b>
<i>Intsia bijuga</i>	181396		48372						<b>229769</b>
<i>Lumnitzera littorea</i>	12293								<b>12293</b>
<i>Macaranga carolinensis</i>	122327		12293			36878			<b>171497</b>
<i>Manilkara udoido</i>	233558				12293	24585		12293	<b>282728</b>
<i>Manilkara zapota</i>	49170					12293	12293		<b>73755</b>
<i>Maranthes corymbosa</i>	552765		73755		12293	24585			<b>663398</b>
<i>Morinda citrifolia</i>			12293			12293			<b>24585</b>
<i>Morinda latibracteata</i>	24585		12293			24585			<b>61463</b>
<i>Morinda pedunculata</i>	12293								<b>12293</b>
<i>Morinda</i> spp.	12293						12293	12293	<b>36878</b>
<i>Nephelium lappaceum</i>						12293			<b>12293</b>
<i>Osmoxylon oliveri</i>	24585								<b>24585</b>
<i>Osmoxylon</i> spp.	24585					36878			<b>61463</b>
<i>Pandanus aimiriikensis</i>	61463								<b>61463</b>
<i>Pandanus dubius</i>	145117		48372					12093	<b>205582</b>
<i>Pandanus kanehirae</i>	61463								<b>61463</b>
<i>Pandanus</i> spp.	36878								<b>36878</b>
<i>Pandanus tectorius</i>	86048		12293						<b>98340</b>

<i>Pandanus utiyamai</i>	12293								<b>12293</b>
<i>Pangium edule</i>	12293					12293			<b>24585</b>
<i>Parinari laurina (Atuna)</i>	514491		12293		12293	24585			<b>563662</b>
<i>Parinari spp.</i>	24585								<b>24585</b>
<i>Pinanga insignis</i>	2065146					122925			<b>2188071</b>
<i>Pithecellobium dulce</i>	12093								<b>12093</b>
<i>Pouteria calcarea</i>	36878								<b>36878</b>
<i>Pouteria obovata</i>	352495		24585			24386			<b>401465</b>
<i>Pouteria spp.</i>	12293								<b>12293</b>
<i>Premna obtusifolia</i>	36878					49170			<b>86048</b>
<i>Pterocarpus indicus</i>	24585								<b>24585</b>
<i>Ptychosperma palauensis</i>	86048								<b>86048</b>
<i>Rhizophora apiculata</i>	1339813		24386		12093			12093	<b>1388385</b>
<i>Rhizophora mucronata</i>	376082								<b>376082</b>
<i>Rhus taitensis</i>	356483		12293		12293	12293		36878	<b>430239</b>
<i>Rinorea carolinensis</i>	12093								<b>12093</b>
<i>Semecarpus venenosus</i>	526584		12293			24585		12293	<b>575755</b>
<i>Sonneratia alba</i>	172095								<b>172095</b>
<i>Stemonurus ammui</i>	61463								<b>61463</b>
<i>Swietenia macrophylla</i>	49170								<b>49170</b>
<i>Swietenia mahogoni</i>	36878					36878			<b>73755</b>
<i>Symplocos racemosa</i>	36878			12293			12293		<b>61463</b>
<i>Terminalia catappa</i>	12293					36878			<b>49170</b>
<i>Theobroma cacao</i>	24585		24585		12293				<b>61463</b>
<i>Timonius timon</i>	84652					24186			<b>108838</b>
<i>Tournefortia argentea</i>	36479		12293						<b>48771</b>
<i>Trichospermum ledermannii</i>	98340								<b>98340</b>
Unknown	12293								<b>12293</b>
Unknown 0	134420							12293	<b>146713</b>
Unknown 1	24585		12093					12293	<b>48971</b>
Unknown 10	12293								<b>12293</b>



Unknown 11	12293									12293
Unknown 3	49170									49170
Unknown 30	12093									12093
Unknown 5	85649									85649
Unknown, other	73755		12293							86048
<i>Vitex coffassus</i>	61463					36878			12293	110633
<i>Xylocarpus granatum</i>	147510		36878							184388
Grand Total	18658557	24585	989911	24585	171896	1226661	110633	24585	195683	21427096

Analysis and processing of national data

Estimation and forecasting

National data is recorded as presence/absence on individual trees. Presence/absence point count cannot be expanded to area estimates.

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	39.58	-	39.87	-	-	-	-	-	-	-	40.56	-	-	-	-	40.99	41.08	41.16

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		
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**

Palau 2019 State and Private Forestry Fact Sheet ([https://apps.fs.usda.gov/nicportal/temp/pdf/sfs/naweb/PW\\_std.pdf](https://apps.fs.usda.gov/nicportal/temp/pdf/sfs/naweb/PW_std.pdf))

**National classification and definitions**

-

**Original data**

• Issue #6 Sustainable Use of Forest Resources 1 - Develop and implement a National Policy Framework and Best Practices for Forests as guidance for states and raise awareness about the value of forests. 2 - Develop sustainable forests sources of livelihoods through specific programs and capacity building.

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

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						

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												
...of which silviculture and other forestry activities												
...of which logging												
...of which gathering of non wood forest products												
...of which support services to forestry												

Comments

## 7b Graduation of students in forest-related education

### National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

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

Comments

## 7c Non wood forest products removals and value 2015

### National Data

Data sources + type of data source eg NFI, etc

-

National classification and definitions

-

Original data

-

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

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

Comments

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	86.04	88.17	89.11	89.30	89.48	89.67	89.85	90.02

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	0.24	0.21	0.22	0.19	0.22	0.19	0.19

Name of agency responsible	
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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	416.21	416.21	416.21	–	–	–	–	–

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



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

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

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	0.00	0.00	0.00	0.00	0.00	0.00	–	–