



Food and Agriculture  
Organization of the  
United Nations



# Global Forest Resources Assessment 2020

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**Anssi Pekkarinen**  
Senior Forestry Officer

# Global Forest Resources Assessment

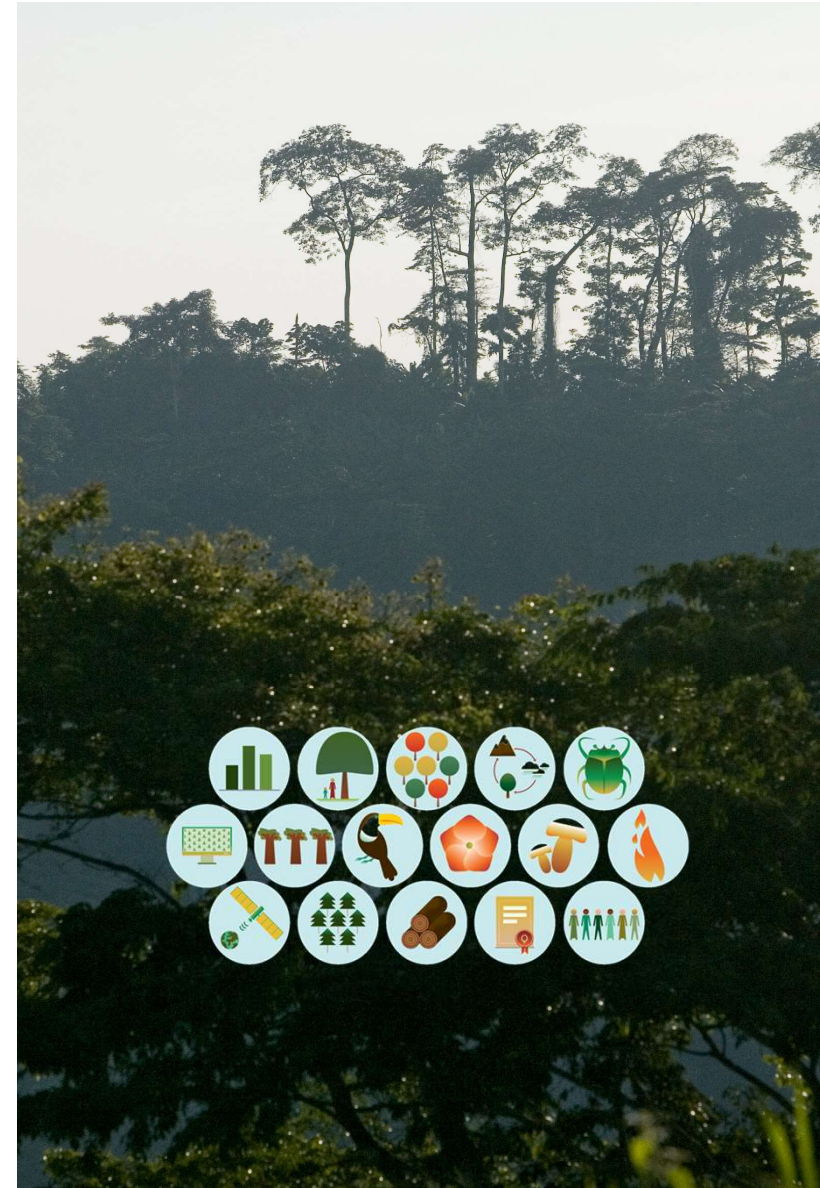
- Based on official country statistics reported to FAO through a global network of **officially nominated national correspondents**
- More than **60 forest-related variables** in **236 countries** and territories for the period from 1990 to 2020



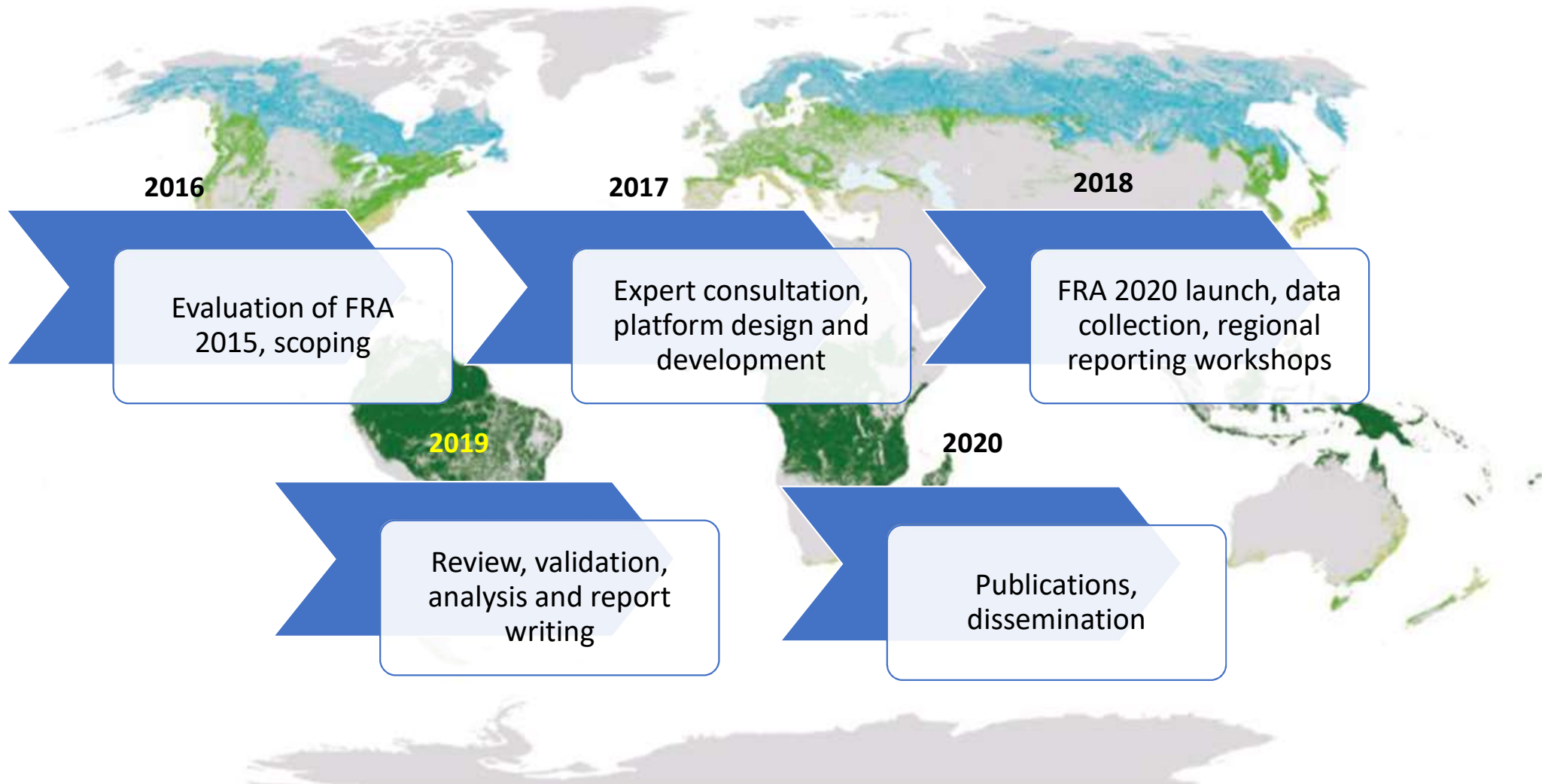
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UNECE



# Reporting process





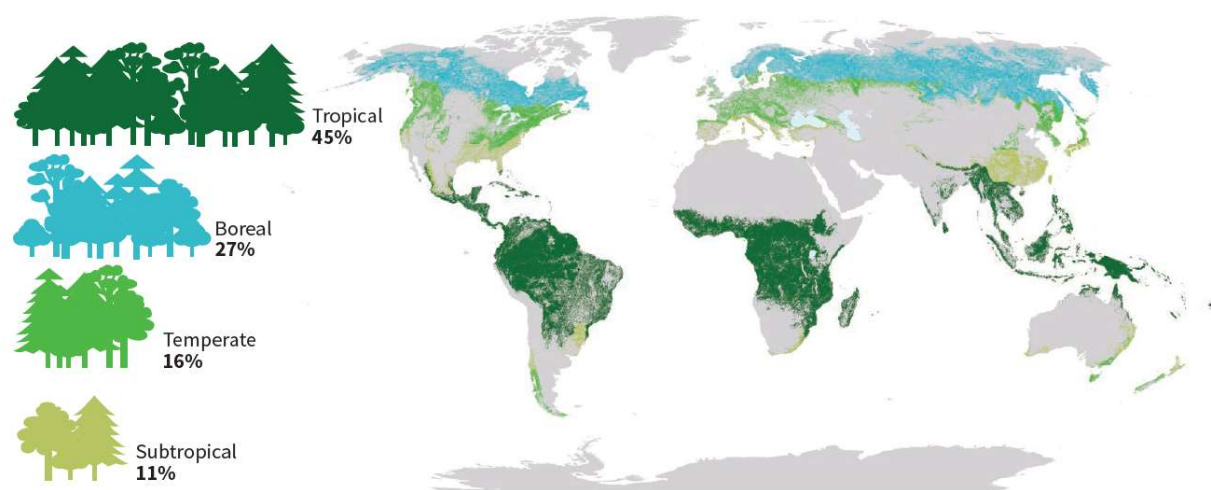
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# Global Forest Resources Assessment 2020 Key findings

## Also available as innovative digital version available in six languages

[www.fao.org/forest-resources-assessment/2020](http://www.fao.org/forest-resources-assessment/2020)

Proportion and distribution of global forest area by climatic domain, 2020



Source: Adapted from United Nations World map, 2020.



Food and Agriculture  
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Global  
Forest  
Resources  
Assessment  
2020  
*Main report*

**Comprehensive main report  
together with 236 reports for  
countries and territories**

[www.fao.org/forest-resources-assessment/en/](http://www.fao.org/forest-resources-assessment/en/)



Global

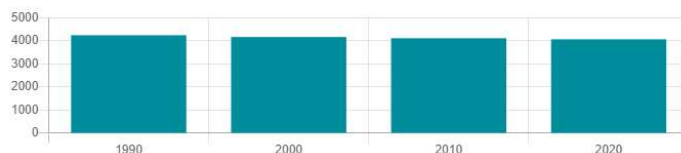
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- 1 Forest extent, characteristics and changes
- 2 Forest growing stock, biomass and carbon
- 3 Forest designation and management
- 4 Forest ownership and management rights
- 5 Forest disturbances
- 6 Forest policy and legislation
- 7 Employment, education and NWFP

Global

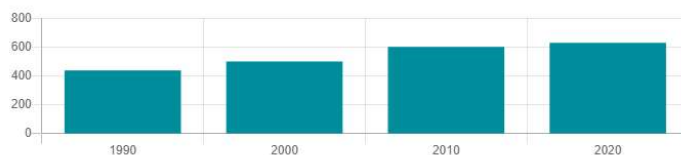
Forest Area (1990 - 2020)



Forest Area (2020)



Forest area within protected areas (1990 - 2020)



## FRA Platform

**Easy digital access to all the data reported to FRA 2020**

- *Country specific data*
- *Global and regional summaries*
- *Bulk download*
- *Non-proprietary format*
- *Facilitated further analysis*

<https://fra-data.fao.org>

Select geographical area

- Select - ▾

<https://fra-data.fao.org>

## Global Forest Resources Assessment

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 Assessment is based on two primary sources of data: Country Reports prepared by National Correspondents and remote sensing that is conducted by FAO together with national focal points and regional partners. The scope of the FRA has changed regularly since the first assessment published in 1948. These assessments make an interesting history of global forest interests, both in terms of their substantive content, but also in their changing scope.

> Read more about the FRA process



Global



Regions

- Select - ▾



Countries

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forests (45 percent), followed by the boreal, temperate and subtropical domains.



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> [Read more about the FRA process](#)



Global



Regions

- Select -



Countries

- Select -



The world has a total forest area of 4.06 billion hectares (10 billion acres).

Select geographical area

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- Europe
- North and Central America
- Oceania
- South America
- Afghanistan
- Albania
- Algeria
- American Samoa
- Andorra
- Angola
- Anguilla
- Antigua and Barbuda



## Global Forest Resources

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> Read more about the FRA process

 Global  Regions  Sub-regions

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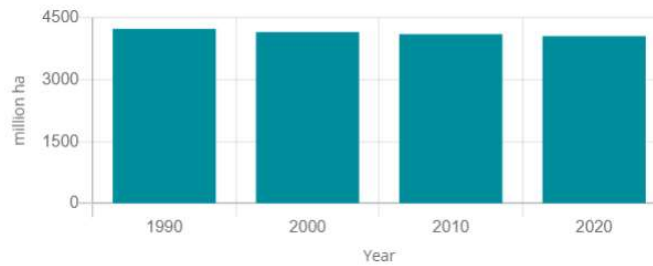
Show all

- 1 Forest extent, characteristics and changes
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Global  

Forest Area (1990 — 2020)



Forest growing stock and carbon (1990 — 2020)

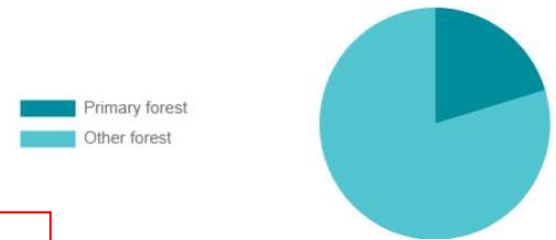
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	1990	2000	2010	2020
Growing stock (billion m <sup>3</sup> )	560	556	555	557
Carbon stock in biomass (Gt)	298	296	294	295
Total carbon stock (Gt)	668	663	662	662

Forest area % of land area (2020)



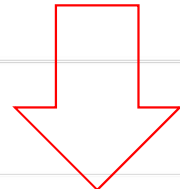
Primary forest % of forest area (2020)



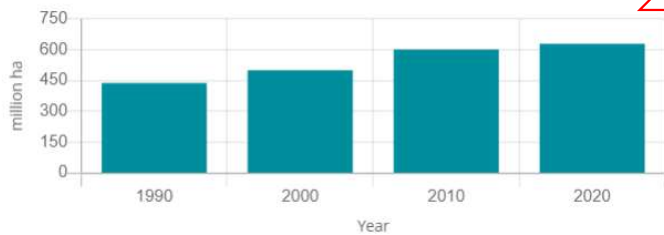
Forest area within protected areas (1990 — 2020)



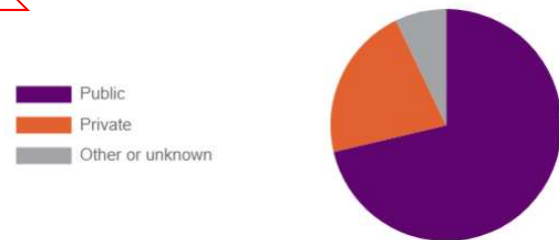
Forest ownership (2015)



Forest area within protected areas (1990 — 2020)



Forest ownership (2015)

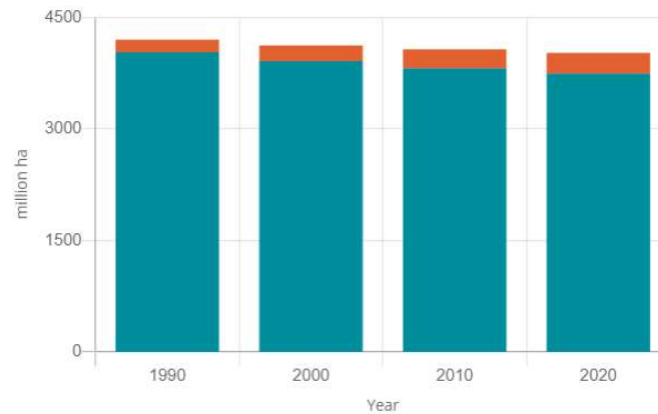


Primary designated management objective (1990 — 2020)

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	1990	2000	2010	2020
Production (million ha)	1136	1113	1097	1134
Multiple use (million ha)	809	780	751	738
Conservation of biodiversity (million ha)	311	347	399	422
Protection of soil and water (million ha)	272	296	325	390
Social Services (million ha)	188	180	180	182
Other (million ha)	322	336	312	210

Naturally regenerating forest area (1990 — 2020)



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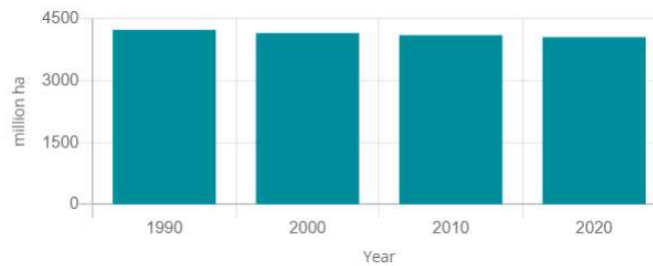
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Global  

Forest Area (1990 — 2020)



Forest growing stock and carbon (1990 — 2020)

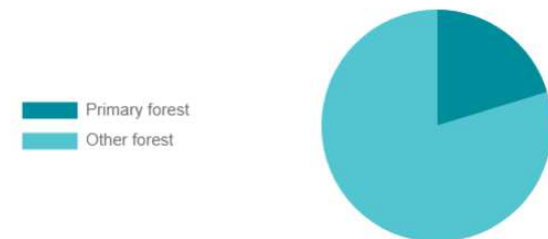
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Forest area % of land area (2020)



Primary forest % of forest area (2020)



Forest area within protected areas (1990 — 2020)



Forest ownership (2015)



## Open Document Spreadsheet

1	WORLD 236 countries and territories					
2	Variable (unit)	1990	2000	2010	2020 <sup>1)</sup>	Data availability <sup>2)</sup>
3	Forest area (million ha)	4,236	4,158	4,106	4,059	100%
4	Forest area (% of land area)	32.5%	31.9%	31.5%	31.1%	100%
5	Growing stock (billion m <sup>3</sup> )	560	556	555	557	100% <sup>3)</sup>
6	Growing stock (m <sup>3</sup> /ha)	132.1	133.8	135.2	137.1	100% <sup>3)</sup>
7	Carbon stock in biomass (Gt)	298	296	294	295	100% <sup>3)</sup>
8	Carbon stock in biomass (t/ha)	70.3	71.1	71.6	72.6	100% <sup>3)</sup>
9	Total carbon stock (Gt)	668	663	662	662	100% <sup>3)</sup>
10	Total carbon stock (t/ha)	157.8	159.5	161.3	163.1	100% <sup>3)</sup>
11	Naturally regenerating forest (million ha)	4,038	3,919	3,816	3,737	99%
12	Planted forest (million ha)	170	211	262	293	99%
13	... of which plantation forest (million ha)	75	95	116	131	99%
14	Primary forest (million ha)	906	872	837	825	57%
15	Mangroves (million ha)	15.8	15.3	14.9	14.7	99%
16	Forest in protected areas (million ha)	438	500	601	629	86%
17	Forest area with management plans (million ha)		1,758	1,856	1,991	87%
18	Designated management objective					

Global

Select geographical area Global ▼

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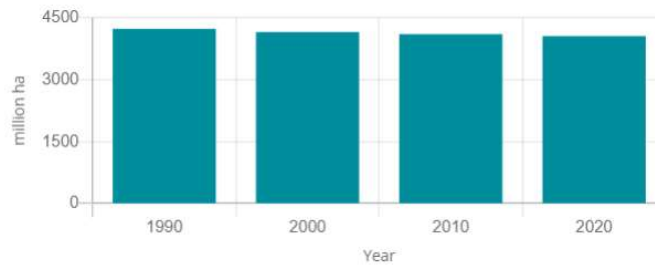
Show all

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- 7 Employment, education and NWFP

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## Global

Forest Area (1990 — 2020)



Forest growing stock and carbon (1990 — 2020)

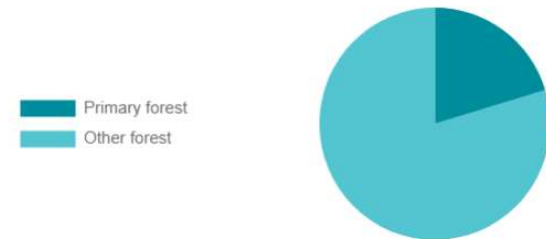
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Forest area % of land area (2020)



Primary forest % of forest area (2020)



Forest area within protected areas (1990 — 2020)



Forest ownership (2015)



Global

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FRA 2020 - Data Export

Show all

1 Forest extent, characteristics and changes

1a Extent of forest and other wooded land

1b Forest characteristics

1c Primary forest and special forest categories

1d Annual forest expansion, deforestation and net change

1e Annual reforestation

1f Other land with tree cover

2 Forest growing stock, biomass and carbon

3 Forest designation and management

4 Forest ownership and management rights

5 Forest disturbances

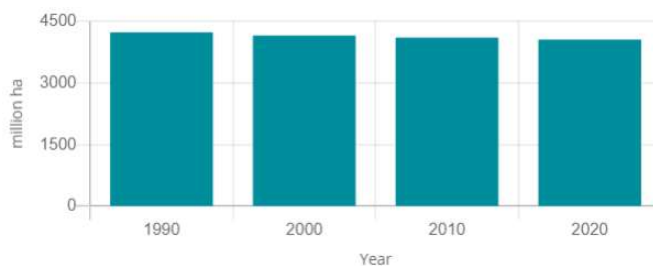
6 Forest policy and legislation

7 Employment, education and NWFP

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Forest Area (1990 — 2020)

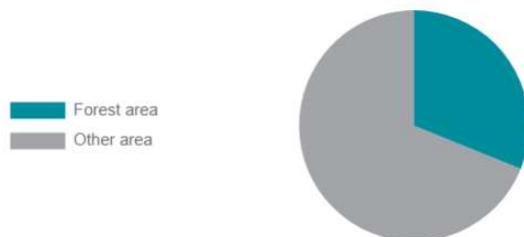


Forest growing stock and carbon (1990 — 2020)

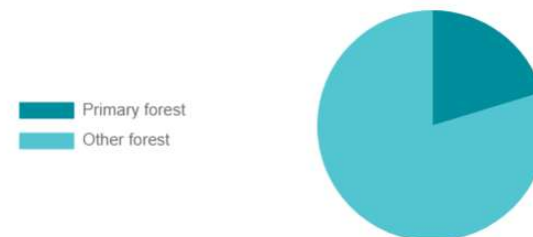
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Forest area within protected areas (1990 — 2020)



Forest ownership (2015)



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## FRA 2020 - Data Export

Show all

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**Country**

- Select all
- Afghanistan
- Albania (Desk study)
- Algeria
- American Samoa
- Andorra
- Angola
- Anguilla (Desk study)
- Antigua and Barbuda (Desk study)

**FRA Variable**

- Forest
- Other wooded land
- Other land
- Total land area

**Column**

- Select all
- 1990
- 2000
- 2010
- 2015
- 2016
- 2017
- 2018
- 2019

Global

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## FRA 2020 - Data Export

Show all

### 1 Forest extent, characteristics and changes

#### 1a Extent of forest and other wooded land

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Country

Unselect all

- Niue
- Norfolk Island (Desk study)
- North Macedonia (Desk study)
- Northern Mariana Islands
- Norway
- Oman
- Pakistan
- Palau

FRA Variable

- Forest
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- Total land area

Column

Unselect all

- 1990
- 2000
- 2010
- 2015
- 2016
- 2017
- 2018
- 2019

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	Forest ( 1000 ha <span>↕</span> )
	1990
Norway	12 132.00

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### 1 Forest extent, characteristics and changes

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### Country

Unselect all

None

Norfolk Island (Desk study)

North Macedonia (Desk study)

Northern Mariana Islands

Norway

Oman

Pakistan

Palau

### FRA Variable

Forest

Other wooded land

Other land

Total land area

### Column

Unselect all

1990

2000

2010

2015

2016

2017

2018

2019

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	Forest ( 1000 ha <span>↕</span> )	
	1990	2000
Norway	12 132.00	12 113.00

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Country Search

- Unselect all
- Niue
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- Oman
- Pakistan
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FRA Variable

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Column

- Unselect all
- 1990
- 2000
- 2010
- 2015
- 2016
- 2017
- 2018
- 2019

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	Forest ( 1000 ha <span>↕</span> )		
	1990	2000	2010
Norway	12 132.00	12 113.00	12 102.00

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Show all

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**Country**

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**Column**

- Unselect all
- 1990
- 2000
- 2010
- 2015
- 2016
- 2017
- 2018
- 2019

[CSV](#)

	Forest ( 1000 ha )								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Norway	12 132.00	12 113.00	12 102.00	12 141.00	12 148.80	12 156.60	12 164.40	12 172.20	12 180.00

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  - 2000
  - 2010
  - 2015
  - 2016
  - 2017
  - 2018
  - 2019

[CSV](#)

	Forest ( 1000 ha <span>⬇</span> )								
	1990	2000	2010	2015	2016	2017	2018	2019	2020
Afghanistan	1 208.44	1 208.44	1 208.44	1 208.44	1 208.44	1 208.44	1 208.44	1 208.44	1 208.44
Albania (Desk study)	788.80	769.30	782.07	789.19	789.18	788.90	788.90	788.90	788.90
Algeria	1 667.00	1 579.00	1 918.00	1 956.00	1 956.00	1 943.00	1 930.00	1 939.00	1 949.00
American Samoa	18.07	17.73	17.43	17.28	17.25	17.22	17.19	17.16	17.13
Andorra	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
Angola	79 262.78	77 708.61	72 158.00	69 382.69	68 827.62	68 272.57	67 717.51	67 162.44	66 607.38
Anguilla (Desk study)	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50

	A	B	C	D	E	F	G	H	I	J
1		Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )	Forest ( 1000 ha )
2		1990	2000	2010	2015	2016	2017	2018	2019	2020
3	Afghanistan	1208.44	1208.44	1208.44	1208.44	1208.44	1208.44	1208.44	1208.44	1208.44
4	Albania (Desk study)	788.8	769.3	782.07	789.19	789.18	788.9	788.9	788.9	788.9
5	Algeria	1667	1579	1918	1956	1956	1943	1930	1939	1949
6	American Samoa	18.07	17.73	17.43	17.28	17.25	17.22	17.19	17.16	17.13
7	Andorra	16	16	16	16	16	16	16	16	16
8	Angola	79262.78	77708.61	72158	69382.69	68827.62	68272.57	67717.51	67162.44	66607.38
9	Anguilla (Desk study)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
10	Antigua and Barbuda (Desk study)	10.11	9.45	8.78	8.45	8.38	8.32	8.25	8.18	8.12
11	Argentina	35204	33378	30214	29097	29010	28899	28791	28681	28573
12	Armenia	334.73	332.64	330.56	329.52	329.31	329.1	328.89	328.68	328.47
13	Aruba (Desk study)	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
14	Australia	133882.2	131814.1	129546.1	133094.5	134037.2	134017.4	134005.1	134005.1	134005.1
15	Austria	3775.67	3838.14	3863.2	3881.19	3884.79	3888.38	3891.97	3895.56	3899.15
16	Azerbaijan	944.74	987.22	1032.49	1077.89	1087.48	1097.18	1108.71	1120.24	1131.77
17	Bahamas	509.86	509.86	509.86	509.86	509.86	509.86	509.86	509.86	509.86
18	Bahrain (Desk study)	0.22	0.37	0.52	0.6	0.62	0.64	0.66	0.68	0.7
19	Bangladesh	1920.33	1920.33	1888.34	1883.4	1883.4	1883.4	1883.4	1883.4	1883.4
20	Barbados	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
21	Belarus	7780	8273	8630	8633.5	8709.6	8724.1	8738.6	8753.1	8767.6
22	Belgium	677.4	667.3	689.87	689.3	689.3	689.3	689.3	689.3	689.3
23	Belize	1600.03	1459.3	1391.39	1332.83	1321.68	1310.52	1299.37	1288.21	1277.05
24	Benin	4835.15	4135.15	3635.15	3385.15	3335.15	3285.15	3235.15	3185.15	3135.15
25	Bermuda (Desk study)	1	1	1	1	1	1	1	1	1
26	Bhutan	2506.72	2606	2705.29	2715.18	2717.16	2719.14	2721.12	2723.1	2725.08
27	Bolivia (Plurinational State of)	57804.72	55101.39	53086.01	52027.22	51750.68	51492.22	51253.24	51033.76	50833.76
28	Bonaire, Sint Eustatius and Saba (Desk study)	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91
29	Bosnia and Herzegovina (Desk study)	2210	2111.65	2102.66	2160.5	2176.51	2187.91	2187.91	2187.91	2187.91
30	Botswana	18803.7	17620.7	16437.7	15846.2	15727.9	15609.6	15491.3	15373	15254.7
31	Brazil	588898	551088.6	511580.7	503884.8	502082.1	500091.6	499051.4	497798.5	496619.6
32	British Virgin Islands (Desk study)	3.71	3.67	3.64	3.62	3.62	3.62	3.62	3.62	3.62
33	Brunei Darussalam	413	397	380	380	380	380	380	380	380

Chart1 fra2020-extentOfForest (1)

Global

Select geographical area Global ▼

FRA 2020 - Data Export

Show all

**1 Forest extent, characteristics and changes**

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- 1e Annual reforestation
- 1f Other land with tree cover

**2 Forest growing stock, biomass and carbon**

**3 Forest designation and management**

**4 Forest ownership and management rights**

**5 Forest disturbances**

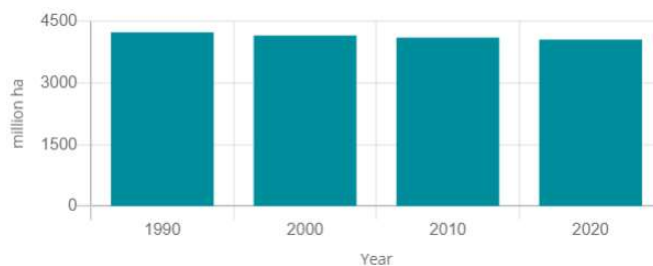
**6 Forest policy and legislation**

**7 Employment, education and NWFP**

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Forest Area (1990 — 2020)

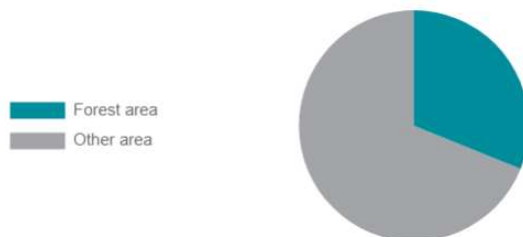


Forest growing stock and carbon (1990 — 2020)

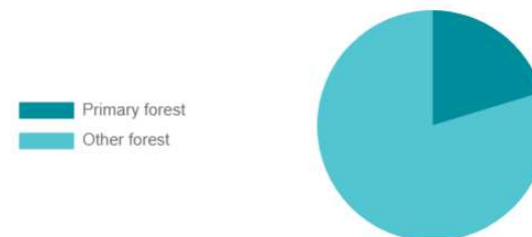
[CSV](#)

	1990	2000	2010	2020
Growing stock (billion m <sup>3</sup> )	560	556	555	557
Carbon stock in biomass (Gt)	298	296	294	295
Total carbon stock (Gt)	668	663	662	662

Forest area % of land area (2020)



Primary forest % of forest area (2020)



Forest area within protected areas (1990 — 2020)

750

Forest ownership (2015)





Annual\_2020\_11\_10.csv

Type: Microsoft Excel Comma Separated Values File

Date modified: 10/11/2020 17:14

Size: 272 KB



FRA\_Years\_2020\_11\_10.csv

Type: Microsoft Excel Comma Separated Values File

Date modified: 10/11/2020 17:14

Size: 660 KB



Intervals\_2020\_11\_10.csv

Type: Microsoft Excel Comma Separated Values File

Date modified: 10/11/2020 17:14

Size: 70.1 KB



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4 Forest ownership and management rights

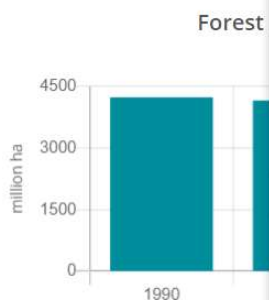
5 Forest disturbances

6 Forest policy and legislation

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Global  



■ Forest area  
■ Other area

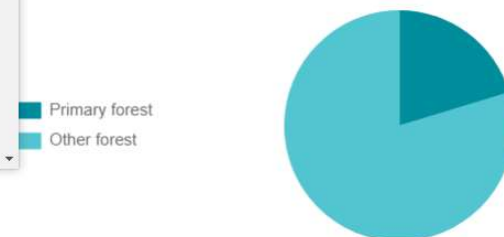
- Guatemala
- Guernsey
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Holy See
- Honduras
- Hungary
- Iceland
- India
- Indonesia
- Iran (Islamic Republic of)
- Iraq
- Ireland
- Isle of Man
- Israel

Forest growing stock and carbon (1990 — 2020)

[CSV](#)

	1990	2000	2010	2020
Forest growing stock (billion m <sup>3</sup> )	560	556	555	557
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Primary forest % of forest area (2020)






Forest area within protected areas (1990 — 2020)



Forest ownership (2015)



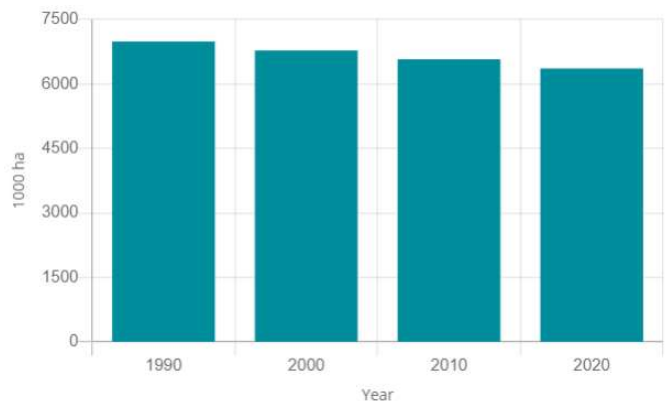
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## Honduras

Forest Area (1990 — 2020)



Forest growing stock and carbon (1990 — 2020)

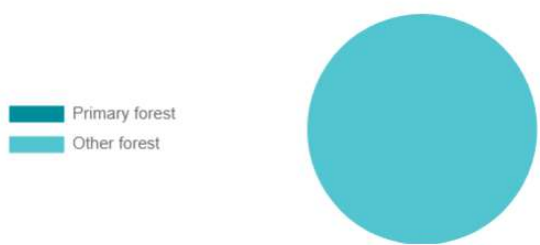
[↓ CSV](#)

	1990	2000	2010	2020
Growing stock (million m <sup>3</sup> over bark)	1173.25	1138.07	1104.02	1067.72
Carbon stock in biomass (tonnes/ha)	72.04	72.04	72.04	72.04
Total carbon stock (tonnes/ha)	79.52	79.52	79.52	79.52

Forest area % of land area (2020)



Primary forest % of forest area (2020)



Honduras

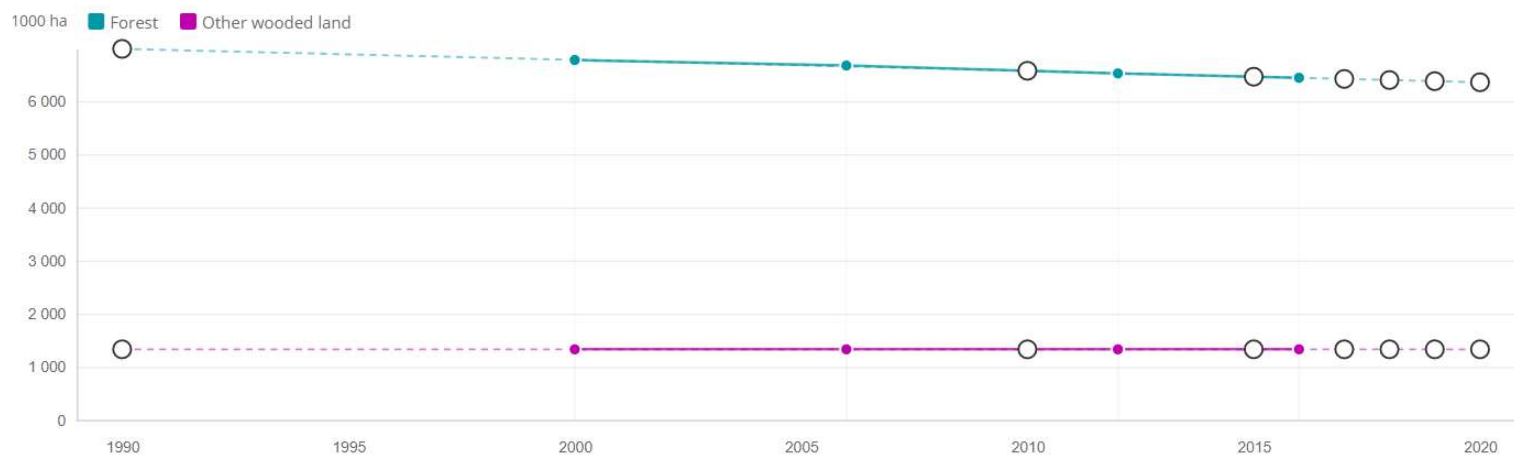
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FRA 2020 Show all

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### Extent of forest and other wooded land

[See definitions](#) [FAQ](#)






FRA categories	Area (1000 ha)										
	1990	2000	2006	2010	2012	2015	2016	2017	2018	2019	2020
Forest (a)	6 987.78	6 778.27	6 674.14	6 575.47	6 526.12	6 463.83	6 443.05	6 422.11	6 401.16	6 380.21	6 359.26
Other wooded land (a)	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84	1 330.84
Other land (c-a-b)	2 870.38	3 079.89	3 184.02	3 282.69	3 332.04	3 394.33	3 415.11	3 436.05	3 457.00	3 477.95	3 498.90
Total land area (c)	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00

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

Honduras

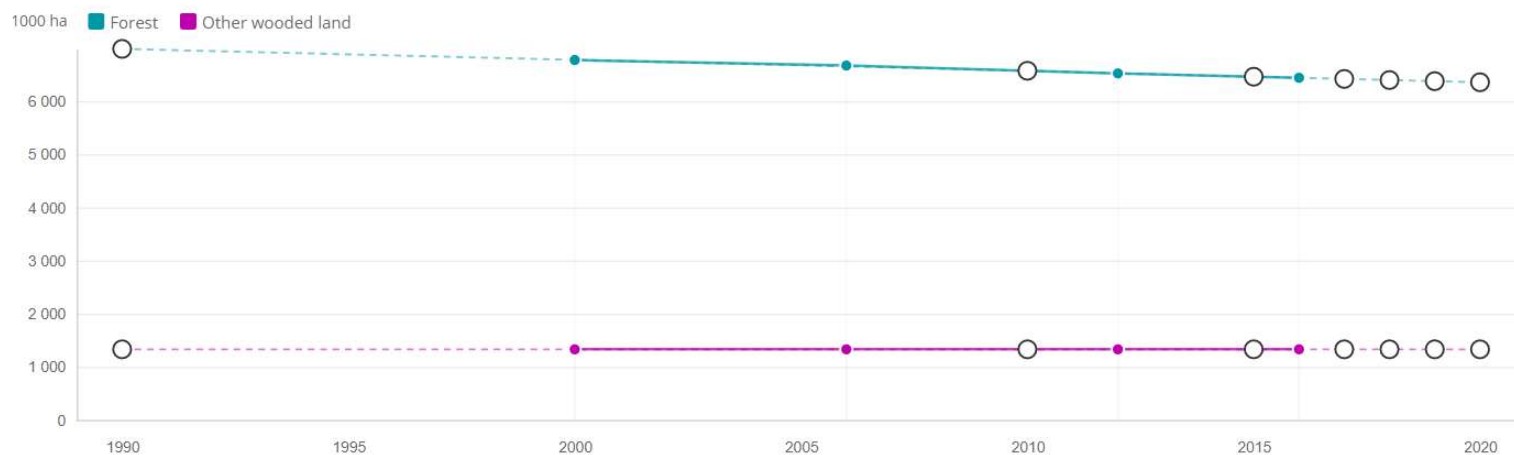
Select geographical area Honduras ▼

FRA 2020     
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## Extent of forest and other wooded land

[See definitions](#) [FAQ](#)



[Download CSV](#)

FRA categories	Click on the year to access original data			Area (1000 ha)							
	1990	2000	2006	2010	2012	2015	2016	2017	2018	2019	2020
Forest (a)	6 987.78	6 778.27	6 674.14	6 575.47	6 526.12	6 463.83	6 443.05	6 422.11	6 401.16	6 380.21	6 359.26
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Total land area (c)	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00	11 189.00

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

Honduras

Select geographical area Honduras ▼

FRA 2020



Show all

## National data point

### Reference year for the data

2000

### Data sources

References	Mapa de 4 categorías del NREF de Honduras derivado del mapa 2012 y pérdidas y ganancias
Methods used	Full-cover forest/vegetation maps
Additional comments	Este mapa se derivó quitando las ganancias y sumando las pérdidas de los periodos

### Classifications and definitions

National class	Definition
Bosque Conífera	
Bosque Latifoliado Húmedo	
Bosque Decíduo	
Bosque Mangle	
Otras tierras boscosas	

### Original data and reclassification

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Original data and reclassification

1a Forest, other wooded land and other land 1b Forest characteristics

Forest, other wooded land and other land [See definitions](#)

Classifications and definitions		FRA classes		
Class	Area (1000 ha)	Forest	Other wooded land	Other land
Bosque Conífera	2 023.96	100.00 %	0.00 %	0.00 %
Bosque Latifoliado Húmedo	3 921.92	100.00 %	0.00 %	0.00 %
Bosque Decíduo	782.91	100.00 %	0.00 %	0.00 %
Bosque Mangle	49.48	100.00 %	0.00 %	0.00 %
Otras tierras boscosas	1 330.84	0.00 %	100.00 %	0.00 %
<b>Total</b>	<b>8 109.11</b>	<b>6 778.27</b>	<b>1 330.84</b>	<b>0.00</b>

Comments

El dato de las otras tierras boscosas viene del Inventario Forestal Nacional de 2005.

FRA 2020



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2b Growing stock composition

2c Biomass stock

2d Carbon stock

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## National Data

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

Nivel de Referencia de Emisiones Forestales de Honduras, presentado y aprobado por la Convención Marco de las Naciones Unidas en el mes de diciembre 2017.

Resultados de la Evaluación Nacional Forestal de Honduras. Instituto Nacional de Desarrollo Forestal, 2017

### National classification and definitions

Se realizó una clasificación por tipo de cobertura predominante del país la cual son 4 tipos de bosque: Bosque Latifoliado Húmedo, Bosque de Pino, Bosque de Mangle y Bosque Latifoliado Deciduo.

### Original data

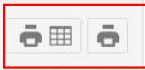
El informe de la evaluación nacional forestal indica las siguientes existencias de carbono:

Categoría nacional	t C / ha	t C / ha	Categoría FRA
Biomasa viva	52.78	52.86	Biomasa por encima del suelo
Tocones	0.08		
Raíces	19.18		Biomasa por debajo del suelo
Arboles muertos pie	1.52	5.79	Madera muerta
Madera muerta caída	4.27		
Hojas caídas	1.69		

## Analysis and processing of national data



FRA 2020



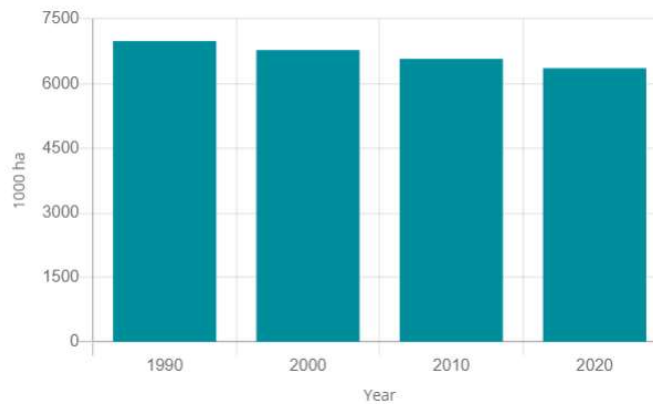
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## Honduras

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Forest Area (1990 — 2020)



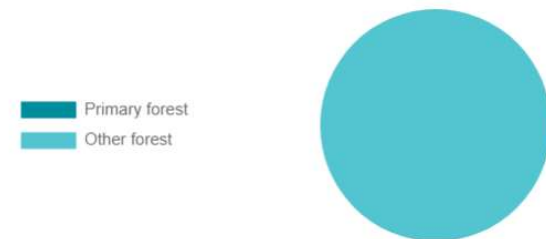
Forest growing stock and carbon (1990 — 2020)

	1990	2000	2010	2020
Growing stock (million m <sup>3</sup> over bark)	1173.25	1138.07	1104.02	1067.72
Carbon stock in biomass (tonnes/ha)	72.04	72.04	72.04	72.04
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Forest area % of land area (2020)



Primary forest % of forest area (2020)





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# Thank you!

FRA 2020 data: [fra-data.fao.org](https://fra-data.fao.org)

Feedback: [fra@fao.org](mailto:fra@fao.org)

With financial support from



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**Anssi Pekkarinen**  
Senior Forestry Officer