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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5. Forest disturbances
6. Forest policy and legislation
7. Employment, education and NWFP
8. Sustainable Development Goal 15
Introduction

Report preparation and contact persons
The present report was prepared by the following person(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Email</th>
<th>Tables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guy Robertson</td>
<td>Collaborator</td>
<td><a href="mailto:grobertson02@fs.fed.us">grobertson02@fs.fed.us</a></td>
<td>All</td>
</tr>
<tr>
<td>Sonja Oswalt</td>
<td>National correspondent</td>
<td><a href="mailto:soswalt@fs.fed.us">soswalt@fs.fed.us</a></td>
<td>All</td>
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</tbody>
</table>

Introductory text
The national forest inventory of the United States covers the 50 States and all of the nation’s associated islands in the Caribbean and Pacific regions.

The main landmass of the United States, containing 48 of the 50 States, is situated in mid-North America), has a central plain with hills and low mountains to the east and rugged mountains and wide valleys to the west. The State of Alaska, on Canada’s western border, is dominated by Pacific and Arctic mountains, a central plateau, and the Arctic slope.

The U.S. Caribbean Islands are composed of Puerto Rico and the U.S. Virgin Islands. In general, the Caribbean Islands are a 4,000-km arc of islands, tectonically uplifted from the sea floor separating the Atlantic Ocean from the Caribbean Sea. Low-lying islands often are capped with limestone from ancient coral reefs, and other islands exhibit volcanic activity that has pushed up steep peaks that divert the moisture-laden north-easterly trade winds upward, greatly increasing rainfall.

The U.S. Pacific Islands are composed of American Samoa, Guam, the State of Hawaii, the Republic of the Marshall Islands, the Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, and the Republic of Palau. These islands span a vast and diverse area, beginning with Hawaii, 4,000 km west of the U.S. mainland, and extending to Southeast Asia. Land masses vary widely and include small coral atolls, small sand islands, moderate-sized islands of mixed limestone and volcanic substrates, and large, high-elevation, volcanic islands.

This report presents data only for the 50 States. Separate reports will be provided by the United States for Puerto Rico, the U.S. Virgin Islands, American Samoa, Guam, the Republic of the Marshall Islands, the Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, and the Republic of Palau.

Data for this report are derived, in general, from the national forest inventory of the United States, with supplemental data from other sources, as needed.
## 1 Forest extent, characteristics and changes

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

#### National data

<table>
<thead>
<tr>
<th>Year</th>
<th>References</th>
<th>Methods used</th>
<th>Additional comments</th>
</tr>
</thead>
</table>
## Classifications and definitions

<table>
<thead>
<tr>
<th>National class</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Forest land</strong></td>
<td>Land that has at least 10% cover, or equivalent stocking, by forest trees of any size, including land that formerly had such tree cover and that will be naturally or artificially regenerated. Forest land includes transition zones, such as areas between heavily forested and nonforest lands that have at least 10% cover with forest trees and forest areas adjacent to urban and built-up lands. Also included are pinyon-juniper and chaparral areas in the West and afforested areas. The minimum area for classification of forest land is 0.4 hectare. Roadside, streamside, and shelterbelt strips of timber must have a crown width of at least 37 meters to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas are classified as forest if less than 37 meters wide.</td>
</tr>
<tr>
<td><strong>Other land</strong></td>
<td>Land that has never supported forests and lands formerly forested where use of forest management is precluded by development for other uses. (Note: This includes area used for crops, improved pasture, residential areas, city parks, improved roads of any width and adjoining clearings, powerline clearings of any width, and 0.4- to 1.8-hectare areas of water or streams, sloughs, estuaries, and canals between 37 and 61 meters wide classified by the Bureau of the Census as land. If intermingled in forest areas, unimproved roads and nonforest strips must be more than 37 meters wide, and clearings, etc., more than 0.4 hectare, to qualify as nonforest land.)</td>
</tr>
<tr>
<td><strong>Other wooded land</strong></td>
<td>Partially available. Currently represents lands covered with woody species that can not achieve an average height of 5 meters at maturity. Historic data have been estimated.</td>
</tr>
</tbody>
</table>

### References
<table>
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**2005**

<table>
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<th>National class</th>
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<tbody>
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<td>Forest land</td>
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**2010**

<table>
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Other land

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### 2015

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### 2017

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</tbody>
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### Original data and reclassification

<table>
<thead>
<tr>
<th>1990</th>
<th>Classifications and definitions</th>
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</thead>
<tbody>
<tr>
<td>Area (1000 ha)</td>
<td>Forest</td>
</tr>
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</table>

8
<table>
<thead>
<tr>
<th>Class</th>
<th>Area (1000 ha)</th>
<th>Forest</th>
<th>Other wooded land</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest land</td>
<td>302 450.00</td>
<td>100.00 %</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Other land</td>
<td>0.00</td>
<td>0.00 %</td>
<td>0.00 %</td>
<td>100.00 %</td>
</tr>
<tr>
<td>Other wooded land</td>
<td>15 050.00</td>
<td>%</td>
<td>100.00 %</td>
<td>%</td>
</tr>
<tr>
<td>Total</td>
<td>317 500.00</td>
<td>302 450.00</td>
<td>15 050.00</td>
<td>0.00</td>
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</table>

2000 Classifications and definitions:

<table>
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<th>Other wooded land</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest land</td>
<td>303 536.00</td>
<td>100.00 %</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Other land</td>
<td>0.00</td>
<td>0.00 %</td>
<td>0.00 %</td>
<td>100.00 %</td>
</tr>
<tr>
<td>Other wooded land</td>
<td>15 576.00</td>
<td>%</td>
<td>100.00 %</td>
<td>%</td>
</tr>
<tr>
<td>Total</td>
<td>319 112.00</td>
<td>303 536.00</td>
<td>15 576.00</td>
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</table>

2005 Classifications and definitions:

<table>
<thead>
<tr>
<th>Class</th>
<th>Area (1000 ha)</th>
<th>Forest</th>
<th>Other wooded land</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest land</td>
<td>304 757.00</td>
<td>100.00 %</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Other wooded land</td>
<td>15 452.00</td>
<td>%</td>
<td>100.00 %</td>
<td>%</td>
</tr>
<tr>
<td>Total</td>
<td>320 209.00</td>
<td>304 757.00</td>
<td>15 452.00</td>
<td>0.00</td>
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</table>

2010 Classifications and definitions:

<table>
<thead>
<tr>
<th>Class</th>
<th>Area (1000 ha)</th>
<th>Forest</th>
<th>Other wooded land</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other wooded land</td>
<td>15 961.00</td>
<td>%</td>
<td>100.00 %</td>
<td>%</td>
</tr>
<tr>
<td>Forest land</td>
<td>308 720.00</td>
<td>100.00 %</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Other land</td>
<td>0.00</td>
<td>0.00 %</td>
<td>0.00 %</td>
<td>100.00 %</td>
</tr>
<tr>
<td>Total</td>
<td>324 681.00</td>
<td>308 720.00</td>
<td>15 961.00</td>
<td>0.00</td>
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</tbody>
</table>

2015 Classifications and definitions:

<table>
<thead>
<tr>
<th>Class</th>
<th>Area (1000 ha)</th>
<th>Forest</th>
<th>Other wooded land</th>
<th>Other land</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other wooded land</td>
<td>21 278.00</td>
<td>%</td>
<td>100.00 %</td>
<td>%</td>
</tr>
<tr>
<td>Class</td>
<td>Area (1000 ha)</td>
<td>Forest</td>
<td>Other wooded land</td>
<td>Other land</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------</td>
<td>--------</td>
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<td>-----------</td>
</tr>
<tr>
<td>Other wooded land</td>
<td>23 079.00</td>
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<td>Forest land</td>
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<td>100.00</td>
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</tr>
<tr>
<td>Total</td>
<td>332 874.00</td>
<td>309 795</td>
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<td>23 079.00</td>
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### FRA categories

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</tr>
</thead>
<tbody>
<tr>
<td>Forest (a)</td>
<td></td>
<td>302 450.00</td>
<td>303 536.00</td>
<td>308 720.00</td>
<td>310 095.00</td>
<td>310 095.00</td>
<td>309 795.00</td>
<td>309 795.00</td>
<td>309 795.00</td>
<td>309 795.00</td>
</tr>
<tr>
<td>Other wooded land (a)</td>
<td></td>
<td>15 050.00</td>
<td>15 576.00</td>
<td>15 961.00</td>
<td>21 278.00</td>
<td>21 278.00</td>
<td>23 079.00</td>
<td>23 079.00</td>
<td>23 079.00</td>
<td>23 079.00</td>
</tr>
<tr>
<td>Other land (c-a-b)</td>
<td></td>
<td>597 242.00</td>
<td>595 630.00</td>
<td>590 061.00</td>
<td>583 369.00</td>
<td>583 369.00</td>
<td>581 868.00</td>
<td>581 868.00</td>
<td>581 868.00</td>
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<tr>
<td><strong>Total land area (c)</strong></td>
<td></td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
<td>914 742.00</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Climatic domain</th>
<th>% of forest area 2015</th>
<th>Override value</th>
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</thead>
<tbody>
<tr>
<td>Boreal</td>
<td>15.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Temperate</td>
<td>58.00</td>
<td>59.00</td>
</tr>
<tr>
<td>Sub-tropical</td>
<td>26.00</td>
<td>26.00</td>
</tr>
<tr>
<td>Tropical</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

### Comments

Change from 2015 values is a decline largely due to data collection changes in the western United States and is not considered to represent "real" forest change in its entirety.


2017 Data have been carried over to 2018-2020. No forecasting was used.

Increase in "other wooded land" from 2010 to 2015 reflects the inclusion of arid wooded land in the western United States that had not been measured before. Domestically, this wooded area is considered "forest land", but the species do not typically meet the "in situ" height requirement for the International forest land definition. Therefore, it is included here as "other wooded land". Domestically, forest land area is the sum of FRA forest plus FRA other wooded land.
1b Forest characteristics

National Data

Data sources + type of data source eg NFI, etc
1. Data Source: US Forest Service Forest Inventory and Analysis Data used for the federally mandated Forest Resources of the United States, 2017 report. Data are given nominally as 2017, and are used to represent 2020 as in past reporting cycles. Annual domestic data is available through the USFS Forest Inventory and Analysis program, though forest area definitions differ slightly from global forest area definitions and not all FRA categories are available in the domestic database.


3. Data source for plantation plantings, Tree Planter’s notes, S&PF, USFS, average annual planting

National classification and definitions

<table>
<thead>
<tr>
<th>Other naturally regenerating forest</th>
<th>Includes all private natural forest. Difficult to attach area to introduced species.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduced species in natural forest</td>
<td>The U.S. lists 39 major non-native tree species in forests within the continental 48 States. It is difficult to estimate the influence of these species on an area basis as most non-native trees are escaped or naturalizing individuals and relative to the total population of trees in the US are a very small number. According to data, major non-native, non-planted species constitute 0.68% of the total forest trees. The area reported reflects the proportion of the non-native trees relative to the total number of trees on an area basis of 0.2%.</td>
</tr>
<tr>
<td>Planted forest</td>
<td>Includes all planted forest, approximately 1.34% of which are non-native species</td>
</tr>
</tbody>
</table>

Original data

<table>
<thead>
<tr>
<th>Table 1b</th>
<th>Forest area (1000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naturally regenerating forest (a)</td>
<td>284,512</td>
</tr>
<tr>
<td>Planted forest (b)</td>
<td>17,938</td>
</tr>
<tr>
<td>Plantation forest</td>
<td>6,090</td>
</tr>
<tr>
<td>…of which introduced species</td>
<td>308</td>
</tr>
<tr>
<td>other planted forest</td>
<td>11,848</td>
</tr>
<tr>
<td>Total Forest Area (a+b)</td>
<td>302,450</td>
</tr>
</tbody>
</table>

Analysis and processing of national data

Estimation and forecasting

No forecasting was used.

<table>
<thead>
<tr>
<th>Planted forest</th>
<th>Includes all planted forest, augmented and plantation (row) forest</th>
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<tbody>
<tr>
<td>Plantation forest</td>
<td>Assumed to be a smaller unit of measure than &quot;planted forest.&quot; Plantation forest given here is the area of planted forest under corporate ownership. This may represent an underestimate, as some other private forest landholdings are likely managed as plantations, as well. This is NOT synonymous with Production Forest as reported in past FRA reports.</td>
</tr>
<tr>
<td>New planting</td>
<td>Estimated area of tree planting on previously nonforest land</td>
</tr>
</tbody>
</table>
### Replanting
Estimated area of tree planting on previously planted land after harvest

<table>
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<th></th>
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<tr>
<td>703,019</td>
<td>694,283</td>
<td>699,670</td>
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<td>44,324</td>
<td>55,745</td>
<td>63,167</td>
<td>65,145</td>
<td>66,005</td>
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<tr>
<td>15,048</td>
<td>21,551</td>
<td>31,136</td>
<td>32,478</td>
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<tr>
<td>762</td>
<td>959</td>
<td>1,086</td>
<td>886</td>
<td>662</td>
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</table>

*Data source for plantation plantings, Tree Planter’s notes, S&P, USFS, average annual planting

*Data source for planted forest (all planted) - RPADB 2017

*Carried over from previous FRA - data not yet verified

Plantation forest is the sum of private corporate planted land by year (years 1987 to 2007 taken from RPADB table RPA2012, 2017 taken from RPADB RPA2017 and 2015 was taken from the RPA report hard copy.

Non-native planted taken from table T2 from previous FRA for dates prior to 2020. See planted_stdorgspp_own tab for calcs for 2020

### Conversion
Estimated area of tree planting on previously natural forest land

### Natural extension of forest
Estimated area of natural regeneration of trees on previously nonforest land

### Table 1b: Reclassification into FRA 2020 categories

Data were not forecasted, rather, 2017 data were used for all dates post-2015. Annual data is available for domestic purposes, and would not match “forecast” data once it appears. To avoid confusion, therefore, we did not use forecasting tools.

See definitions, above. Data were converted from acres to hectares using standard conversion of 0.4047

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Naturally regenerating forest (a)</td>
<td>284,512</td>
<td>280,976</td>
<td>283,156</td>
<td>283,731</td>
<td>282,273.4</td>
</tr>
<tr>
<td>Planted forest (b)</td>
<td>17,938</td>
<td>22,560</td>
<td>25,564</td>
<td>26,364</td>
<td>27,521.6</td>
</tr>
<tr>
<td>Plantation forest</td>
<td>6,090</td>
<td>8,722</td>
<td>12,601</td>
<td>13,144</td>
<td>14,029.3</td>
</tr>
<tr>
<td>...of which introduced species</td>
<td>308</td>
<td>388</td>
<td>440</td>
<td>359</td>
<td>267.9</td>
</tr>
<tr>
<td>other planted forest</td>
<td>11,848</td>
<td>13,838</td>
<td>12,963</td>
<td>13,220</td>
<td>13,492.3</td>
</tr>
<tr>
<td>Total Forest Area (a+b)</td>
<td>302,450</td>
<td>303,536</td>
<td>308,720</td>
<td>310,095</td>
<td>309,795.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>703,019</td>
<td>694,283</td>
<td>699,670</td>
<td>701,089</td>
<td>697,488</td>
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<tr>
<td>44,324</td>
<td>55,745</td>
<td>63,167</td>
<td>65,145</td>
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<td>15,048</td>
<td>21,551</td>
<td>31,136</td>
<td>32,478</td>
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<tr>
<td>762</td>
<td>959</td>
<td>1,086</td>
<td>886</td>
<td>662</td>
<td></td>
</tr>
</tbody>
</table>

*Carried over from previous FRA - data not yet verified
<table>
<thead>
<tr>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Naturally regenerating forest (a)</td>
<td>284,512.00</td>
<td>280,976.00</td>
<td>283,156.00</td>
<td>283,731.00</td>
<td>283,731.00</td>
<td>282,274.00</td>
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</tr>
<tr>
<td>Planted forest (b)</td>
<td>17,938.00</td>
<td>22,560.00</td>
<td>25,564.00</td>
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<td>14,029.00</td>
</tr>
<tr>
<td>...of which introduced species</td>
<td>306.00</td>
<td>388.00</td>
<td>440.00</td>
<td>359.00</td>
<td>359.00</td>
<td>268.00</td>
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</tr>
<tr>
<td>Other planted forest</td>
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<td>13,220.00</td>
<td>13,492.00</td>
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<td>13,492.00</td>
<td>13,492.00</td>
<td>13,492.00</td>
</tr>
<tr>
<td>Total (a+b)</td>
<td>302,450.00</td>
<td>303,536.00</td>
<td>308,720.00</td>
<td>310,095.00</td>
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<td>309,795.00</td>
<td>309,795.00</td>
<td>309,795.00</td>
<td>309,795.00</td>
</tr>
<tr>
<td>Total forest area</td>
<td>302,450.00</td>
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<td>308,720.00</td>
<td>310,095.00</td>
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<td>309,795.00</td>
<td>309,795.00</td>
<td>309,795.00</td>
</tr>
</tbody>
</table>

**Comments**
Data for 2016 are 2015 FRA data
1c Primary forest and special forest categories

National Data

Data sources + type of data source eg NFI, etc


National classification and definitions

Bamboo - The United States doesn’t grow bamboo as a tree species for any sort of product or use. We consider this grass to be a grass. We do not inventory Bamboo spp.

Mangroves - the United States has mangroves around the atlantic and gulf coastal states of florida and texas, as well as the island state of Hawaii, and the territories of Puerto Rico and the U.S. Virgin Islands. Mangroves are a linear/patchy feature on the landscape, which renders them difficult to inventory. Data reported here come from both USFS Forest Inventory and Analysis FIADB (using RPA forest definition) and from the U.S. Fish and Wildlife Service, which monitors mangroves in Florida.

Temporarily non-treed/nonstocked: Estimates derived using both area of US forest defined as “nonstocked” and forest-seedlings area.

| Primary forest | Includes all roadless and reserved forest, 80% Alaska unreserved natural and all National Land Trust forest. |

Original data

<table>
<thead>
<tr>
<th>FRA 2015</th>
<th>Mangroves</th>
<th>000 ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>275</td>
<td>240</td>
</tr>
<tr>
<td>1990</td>
<td>236</td>
<td>236</td>
</tr>
<tr>
<td>2000</td>
<td>236</td>
<td>243</td>
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<tr>
<td>2005</td>
<td>243</td>
<td>243</td>
</tr>
<tr>
<td>2010</td>
<td>243</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>243</td>
<td></td>
</tr>
</tbody>
</table>

Data Source 2010 (carried over to 2015) : Dennis Jacobs 2013, remote sensing analysis of 2008-2010 thematic mapper images of continental United States, USDA Forest Service SRS FIA office


Data Source for 2010 FRA came from FAO Forestry Paper 153, The world’s mangroves 1980-2005 (http://www.fao.org/forestry/49663/en/) which has been determined by landsat imagery to be an underestimate of the actual area.

Additional Comments: Data in the previous from were from the FAO Forestry Paper 153, which we have found to be an underestimate of continental US forests based on landsat thematic imagery analyses from multiple sources. The historic and current data have been updated to reflect the new findings from those dates and datasets.

Current estimates of mangroves in the United States range from 150,000 ha to nearly 400,000 ha, depending on the source of information. We know that U.S. Forest Inventory currently underestimates mangrove area because of its linearity, and because sparse mangrove forest may not meet the U.S. Forest definition. I chose to use the U.S. Environmental Protectton Agency spatial analysis information because it was most consistent with the methodology used in the 2010 and 2015 reporting periods:

“We prepared a wall-to-wall mangrove distribution and change database for CONUS every five years from 1980 to 2015. The total mangrove area in CONUS in 2015 was 251,293 ha with 98.1% of mangrove area in Florida, 0.6% in Louisiana, and 1.3% in Texas. As expected, mangrove occurrence generally decreased with increasing latitude from south to north. For example, approximately 85% of the CONUS mangrove area was found between 24.5° to 26.0° latitude. Spatial distribution percentages of Florida’s mangroves along the east and west coasts for every five years from 1980 to 2015.” (Giri et al. 2016).


<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>15068</td>
<td>4404</td>
<td>1799.175</td>
<td>403.114</td>
<td>1242.297</td>
<td>1388.07</td>
<td>1185.173</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>5379</td>
<td>3895</td>
<td>1427.191</td>
<td>2981.97</td>
<td>2281.961</td>
<td>2449.234</td>
<td>2279.535</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>5258</td>
<td>3068</td>
<td>1426.189</td>
<td>2716.76</td>
<td>3032.297</td>
<td>3736.914</td>
<td>3936.569</td>
</tr>
<tr>
<td>South</td>
<td>16405</td>
<td>5240</td>
<td>3404.409</td>
<td>1431.15</td>
<td>2318.682</td>
<td>2331.685</td>
<td>2275.173</td>
</tr>
<tr>
<td>Grand Total</td>
<td>42110</td>
<td>16607</td>
<td>8056.964</td>
<td>7532.994</td>
<td>8875.237</td>
<td>9905.903</td>
<td>9676.449</td>
</tr>
</tbody>
</table>

**Primary Forest:**

- Reserved forest (IUCN 1-5) 78415.49
- Roadless forest (FIA derived) 30522.437
- 80%AK unreserved, natural 76283.962
- National Land Trust 56,094
- 12% presumed to be forest
- 12% NLT 6731.248
- Total of Above 191953.14
- Conversion to HA 77683.435

**Analysis and processing of national data**

**Estimation and forecasting**

No forecasting was used. 2017 domestic RPA data used to fill FRA 2020 values.

**Reclassification into FRA 2020 categories**

Mangrove estimate total multiplied by 0.4047 to convert to ha. divided by 1,000.

**NONSTOCKED (Thous Acres)**

<table>
<thead>
<tr>
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</tr>
</thead>
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<td>Grand Total</td>
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<td>9905.903</td>
<td>9676.449</td>
</tr>
</tbody>
</table>

**NONSTOCKED (Thous Hectares)**

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<tr>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>6,096.0</td>
<td>1,782.3</td>
<td>728.1</td>
<td>163.1</td>
<td>502.8</td>
<td>561.8</td>
<td>479.6</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>2,176.9</td>
<td>1,576.3</td>
<td>577.6</td>
<td>1,206.8</td>
<td>923.5</td>
<td>991.2</td>
<td>922.5</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>2,127.9</td>
<td>1,241.6</td>
<td>577.2</td>
<td>1,099.5</td>
<td>1,227.2</td>
<td>1,512.3</td>
<td>1,593.1</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>--------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>6,639.1</td>
<td>2,120.6</td>
<td>1,377.8</td>
<td>579.2</td>
<td>938.4</td>
<td></td>
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</tr>
<tr>
<td>Grand Total</td>
<td>17,041.9</td>
<td>6,720.9</td>
<td>3,260.7</td>
<td>3,048.6</td>
<td>3,591.8</td>
<td>3,916.1</td>
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### FRA categories

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</tr>
</thead>
<tbody>
<tr>
<td>Primary forest</td>
<td>70 012.00</td>
<td>72 305.00</td>
<td>75 294.00</td>
<td>75 300.00</td>
<td>75 300.00</td>
</tr>
<tr>
<td>Temporarily unstocked and/or recently regenerated</td>
<td>3 260.70</td>
<td>3 048.60</td>
<td>3 591.80</td>
<td>4 008.90</td>
<td>3 916.10</td>
</tr>
<tr>
<td>Bamboos</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Mangroves</td>
<td>240.00</td>
<td>236.00</td>
<td>243.00</td>
<td>243.00</td>
<td>251.00</td>
</tr>
<tr>
<td>Rubber wood</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

### Comments

1d Annual forest expansion, deforestation and net change

National Data

Data sources + type of data source eg NFI, etc

National classification and definitions

<table>
<thead>
<tr>
<th>Other naturally regenerated forest</th>
<th>Includes all private natural forest. Difficult to attach area to introduced species.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduced species in natural forest</td>
<td>The U.S. lists 39 major non-native tree species in forests within the continental 48 States. It is difficult to estimate the influence of these species on an area basis as most non-native trees are escaped or naturalizing individuals and relative to the total population of trees in the US are a very small number. According to data, major non-native, non-planted species constitute 0.68% of the total forest trees. The area reported reflects the proportion of the non-native trees relative to the total number of trees on an area basis of 0.2%.</td>
</tr>
<tr>
<td>Planted forest</td>
<td>Includes all planted forest, approximately 1.34% of which are non-native species</td>
</tr>
</tbody>
</table>

Original data

<table>
<thead>
<tr>
<th>Categories</th>
<th>Area (000 hectares)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest area (000)</td>
<td>302,450</td>
</tr>
<tr>
<td>Years</td>
<td>10</td>
</tr>
<tr>
<td>Net change</td>
<td>1,086</td>
</tr>
<tr>
<td>Ext %</td>
<td>45%</td>
</tr>
<tr>
<td>Aforesto%</td>
<td>55%</td>
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<tr>
<td>Annual change</td>
<td></td>
</tr>
<tr>
<td>Extension</td>
<td>49</td>
</tr>
<tr>
<td>Afforestation</td>
<td>60</td>
</tr>
</tbody>
</table>

Analysis and processing of national data

Estimation and forecasting

1. The approach for estimation follows past FRA correspondent's approaches. Area for each time period is subtracted and then divided by the measurement period to determine average annual change (net change, as provided by FAO, as well). If positive, the result is considered expansion. If negative, it is considered deforestation.
2. The United States then applies a percentage factor to determine afforestation vs. deforestation rates. Generally speaking, this percentage is based on expert opinion, except in the most recent case, which is based on the extrapolation of FIA numbers on remeasured plots to all forested plots.
3. The United States clarifies that the negative change shown from 2015 to 2020 is actually the result of sampling protocols rather than real change on the landscape.
4. We did not have the data to appropriately calculate deforestation prior to the most recent data because change has been trending upward until the most recent inventory. Because of this situation coupled with the sampling protocol issue listed in number 3 (above), we have left the reporting table blank. To fill the table would have resulted in a result that creates a false impression of deforestation that has not occurred.

Reclassification into FRA 2020 categories

See the estimation and forecasting as well as the Original data table.
The United States clarifies that the negative change shown in National data from 2015 to 2020 is actually the result of sampling protocols rather than real change on the landscape.
The United States clarifies that the negative change shown from 2015 to 2020 is actually the result of new sampling protocols being fully adopted in the western United States rather than real change on the landscape. Additional information is available in Oswalt et al. 2019. Forest Resources of the United States 2017, This affects the western United States only, which was represented in the last FRA by only a small portion of its total plot sample. This new estimate is presumed to be the more accurate measure, while the previous number was likely inflated.

Area expansion and deforestation 2015-2020 estimates based on remeasured FIA plots are available for just over 60 percent of the forest land in the United States.

Of the 504 million acres of FIA remeasured forest land today 17 million acres (3%) resulted from afforestation over the last (5 to 10 years – depends on the remeasurement period of the state) while over the same periods 10 million acres (2%) went out of forest land. Additional negative changes are the result of field sampling and estimation protocols. Percentages were applied to the total forest area, then divided by measurement period to get a rough estimate.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest expansion (a)</td>
<td>108.60</td>
<td>518.40</td>
<td>275.00</td>
<td>275.00</td>
</tr>
<tr>
<td>…of which afforestation</td>
<td>59.73</td>
<td>259.00</td>
<td>247.00</td>
<td></td>
</tr>
<tr>
<td>…of which natural expansion</td>
<td>48.90</td>
<td>259.00</td>
<td></td>
<td>28.00</td>
</tr>
<tr>
<td>Deforestation (b)</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Forest area net change (a-b)</td>
<td>108.60</td>
<td>518.40</td>
<td>275.00</td>
<td>-60.00</td>
</tr>
</tbody>
</table>
## 1e Annual reforestation

### National Data

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

Reforestation -

[http://www.rngr.net/Publications/tpn/](http://www.rngr.net/Publications/tpn/) Tree Planters Notes 1958 to 2015 - data reported by US Forest Service State and Private forestry

### National classification and definitions

The United States generates data on planted area in two ways: plot data and State and Private forestry tree planters’ notes. Reforestation rates are generated using annual planted rates from the Tree Planters notes, and estimates of the proportion of planting that is regeneration. For the period 2010-2020 reforestation was estimated to be 68 percent of planted acres, overall. This percentage was developed by W. Brad Smith, former correspondent for FRA.

**NOTE** The values in this table differ from previous T5 reforestation (2015 FRA) because the time periods have changed (the range of data dates). Therefore, there is no 1:1 comparison between 2015 FRA values and 2020 FRA values regarding this specific Annual Reforestation table.

### National Definition:

<table>
<thead>
<tr>
<th>Reforestation</th>
<th>Estimated conversion to planted and replanting of previously planted areas minus lost planted forest</th>
</tr>
</thead>
</table>

### Original data

<table>
<thead>
<tr>
<th>Conv.</th>
<th>New</th>
<th>Re-plant</th>
<th>Failed- lost 3/</th>
<th>Year</th>
<th>FRA year</th>
<th>Annual forest planted 1/</th>
<th>Estimated conversion planting</th>
<th>Estimated new forest planting</th>
<th>Estimated replace-ment planting</th>
<th>Estimated failed or lost to develop-ment 3/</th>
<th>Total planted forest</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50</td>
<td>0.40</td>
<td>0.10</td>
<td>0.001</td>
<td>1950</td>
<td>453,078</td>
<td>222,008</td>
<td>178,966</td>
<td>52,104</td>
<td>(5,927)</td>
<td>5,927,445</td>
<td></td>
</tr>
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  - 2000: 2,373,016
  - 2001: 2,543,845
  - 2002: 2,368,287
  - 2003: 1,801,215
  - 2004: 1,904,699
  - 2005: 1,980,557
  - 2006: 1,788,861
  - 2007: 1,693,553
  - 2008: 2,097,817
  - 2009: 2,288,158
  - 2010: 2,203,738
  - 2011: 2,347,433
  - 2012: 2,510,459
  - 2013: 2,203,738
  - 2014: 2,347,433
  - 2015: 2,510,459

- Conversion planting:
  - 1999: 543,521
  - 2000: 474,603
  - 2001: 497,867
  - 2002: 453,358
  - 2003: 337,085
  - 2004: 348,288
  - 2005: 353,671
  - 2006: 311,773
  - 2007: 287,904
  - 2008: 356,629
  - 2009: 388,987
  - 2010: 374,635
  - 2011: 399,064
  - 2012: 426,778
  - 2013: 374,635
  - 2014: 399,064
  - 2015: 426,778

- New forest planting:
  - 1999: 514,213
  - 2000: 450,873
  - 2001: 468,794
  - 2002: 422,908
  - 2003: 311,353
  - 2004: 318,357
  - 2005: 319,719
  - 2006: 278,551
  - 2007: 254,033
  - 2008: 314,673
  - 2009: 343,224
  - 2010: 330,561
  - 2011: 352,115
  - 2012: 376,569
  - 2013: 330,561
  - 2014: 352,115
  - 2015: 376,569

- Replacement planting:
  - 1999: 1,606,583
  - 2000: 1,447,540
  - 2001: 1,577,184
  - 2002: 1,492,020
  - 2003: 1,152,778
  - 2004: 1,238,054
  - 2005: 1,307,168
  - 2006: 1,198,537
  - 2007: 1,151,616
  - 2008: 1,426,515
  - 2009: 1,555,947
  - 2010: 1,498,542
  - 2011: 1,596,254
  - 2012: 1,707,112
  - 2013: 1,498,542
  - 2014: 1,596,254
  - 2015: 1,707,112

- Failed or lost to development:
  - 1999: (52,556)
  - 2000: (53,561)
  - 2001: (55,745)
  - 2002: (56,656)
  - 2003: (57,476)
  - 2004: (58,066)
  - 2005: (58,675)
  - 2006: (59,290)
  - 2007: (59,821)
  - 2008: (60,303)
  - 2009: (60,914)
  - 2010: (61,585)
  - 2011: (63,167)
  - 2012: (63,855)
  - 2013: (65,147)
  - 2014: (65,787)
  - 2015: (66,472)
Analysis and processing of national data

Estimation and forecasting

Data for 2015-2020 assumes that 2015 values will remain the same from 2015 to 2019 for the purposes of averaging over the time period. All other dates are calculated based on annual planted forest rates for the data ranges given.

Reclassification into FRA 2020 categories

<table>
<thead>
<tr>
<th>Year</th>
<th>Reforestation ha/ye</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000-2010</td>
<td>2000-2009</td>
</tr>
<tr>
<td>2010-2015</td>
<td>2010-2014</td>
</tr>
<tr>
<td>2015-2020</td>
<td>2015-2019</td>
</tr>
</tbody>
</table>

Reforestation planting number multiplied by 0.4047 to convert to hectares
### Comments

Data for afforestation and reforestation are not directly measured and are generated on a "must have been" basis incorporating reported annual total area planted, estimated rate of conversion, estimated rate of replanting, estimated rate of new planting and estimated rate of lost planting to arrive at category estimates. Natural extension based on average total forest area change net of new planting and lost planting. As the new U.S. inventory design completes a full remeasure cycle over the next 10-12 years, more direct measures can be provided.
1f Other land with tree cover

National Data

Data sources + type of data source eg NFI, etc
Data for Orchards comes from the USDA National Agriculture Statistical Service 2002 and 2012 Census.

Orchards are a specific category in NASS, includes all fruit and nut trees, bearing and non-bearing, excludes berries (i.e., non-tree fruit). Data for 2012 were used for both 2015 and 2020 as newer data were unavailable.

Agroforestry production includes Christmas tree plantations. Other agroforestry likely exists (e.g., grazing, etc) but we do not have a consistent source of acreage information for this variable because private landowners are able to do as they please with their own property, thus potential agroforestry operations may not be tracked.

National classification and definitions

Orchards includes Tree Fruits and Tree nuts, bearing and nonbearing, from the National Agriculture Statistics Service of the USDA

Agroforestry includes trees planted for the purposes of Christmas trees

Urban Land: All territory, population, and housing units located within Urbanized Areas of 50,000 or more people and urban clusters of at least 2,500 and less than 50,000 people (definition from US Census Bureau 2017).

Other (e) - used other wooded land from table 1a but not sure if that is appropriate?

Original data

Tree Orchards

<table>
<thead>
<tr>
<th>Acres land</th>
<th>2007</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Fruits and Tree Nuts</td>
<td>5301229</td>
<td>5489675</td>
</tr>
<tr>
<td>Berries (to subtract from total)</td>
<td>261733</td>
<td>289913</td>
</tr>
<tr>
<td>Total Tree Fruits and Nuts</td>
<td>5039496</td>
<td>5199762</td>
</tr>
</tbody>
</table>

*Data from USDA NASS 2012 Census of Agriculture, Specialty Crops

<table>
<thead>
<tr>
<th>Geographic area</th>
<th>2002</th>
<th>1997</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Irrigated</td>
</tr>
<tr>
<td></td>
<td>Farms</td>
<td>Acres</td>
</tr>
</tbody>
</table>

LAND IN ORCHARDS

United States Total

<table>
<thead>
<tr>
<th>Geographic area</th>
<th>Farms</th>
<th>Acres</th>
<th>Farms</th>
<th>Acres</th>
<th>Farms</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>113,649</td>
<td>5,330,439</td>
<td>64,907</td>
<td>4,374,125</td>
<td>123,420</td>
<td>5,349,292</td>
</tr>
</tbody>
</table>

*2002 CENSUS OF AGRICULTURE - STATE DATA
USDA, National Agricultural Statistics Service UNIFIED STATES 481

AGROFORESTRY:

USDA, National Agricultural Statistics Service

Table 35. Cut Christmas Trees: 2012 and 2007

[For meaning of abbreviations and symbols, see introductory text.]
### Acres in production

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut Christmas trees (see text)</td>
<td>15,494</td>
<td>446,996</td>
<td>21,904</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acres in production</td>
<td>12,079</td>
<td>1,651,552</td>
<td>8,068</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of trees cut</td>
<td>20,808,065</td>
<td>8,230,772</td>
<td>6,285</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-rotation woody crops</td>
<td>6,285</td>
<td>31,920</td>
<td>288,686</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acres harvested</td>
<td>11,123</td>
<td>8,188,039</td>
<td>6,143</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maple syrup (see text)</td>
<td>6,123</td>
<td>8,188,039</td>
<td>8,068</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of taps</td>
<td>3,230,772</td>
<td>1,651,552</td>
<td>6,143</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gallons produced</td>
<td>1,651,552</td>
<td>8,188,039</td>
<td>1,651,552</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Urban forest:** This is based on US Census urban land (1990-2010), plus our projections of urban land (2015-2020). It assumes 40.4% tree cover. We know % tree cover has dropped between 2009 and 2014 within established urban areas, but believe % urban tree cover also tends to increase as urban area expands into rural areas, thus we held cover constant. (Provided by David Nowak, USFS NFS)

<table>
<thead>
<tr>
<th>FRA categories</th>
<th>Area (1000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trees in urban settings (d)</td>
<td>7,633</td>
</tr>
</tbody>
</table>

**Analysis and processing of national data**

**Estimation and forecasting**
No forecasting was used.

**Reclassification into FRA 2020 categories**
### Tree Orchards

<table>
<thead>
<tr>
<th></th>
<th>2007 (FRA 2010)</th>
<th>2012 (FRA 2015 and 2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hectares land</td>
<td>2145407.376</td>
<td>2221671.473</td>
</tr>
<tr>
<td>Total Fruits and Tree Nuts</td>
<td>106923.3451</td>
<td>117327.791</td>
</tr>
<tr>
<td>Berries (to subtract from total)</td>
<td>2039484.031</td>
<td>2104343.681</td>
</tr>
</tbody>
</table>

*Data from USDA NASS 2012 Census of Agriculture, Specialty Crops

### Fra 2020 categories

<table>
<thead>
<tr>
<th></th>
<th>Area (1000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palms</td>
<td></td>
</tr>
<tr>
<td>Tree Orchards</td>
<td>2,165</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Agroforestry Fra 2020 Area (1000 ha)

<table>
<thead>
<tr>
<th></th>
<th>2012 (FRA 2015, FRA 2020)</th>
<th>2007 (FRA 2010)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thousand Hectares</td>
<td>125.2618885</td>
<td>138.9634578</td>
</tr>
<tr>
<td>Christmas tree acres</td>
<td>2002 (FRA 2000)</td>
<td></td>
</tr>
<tr>
<td>Thousand Hectares</td>
<td>180.8993</td>
<td></td>
</tr>
</tbody>
</table>
### Comments

Christmas tree farms are not considered forest by the United States, therefore they have been excluded from total forest land and are included here in other land with tree cover.

<table>
<thead>
<tr>
<th>FRA categories</th>
<th>Area (1000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Palms (a)</td>
<td></td>
</tr>
<tr>
<td>Tree orchards (b)</td>
<td>2 165.00</td>
</tr>
<tr>
<td>Agroforestry (c)</td>
<td></td>
</tr>
<tr>
<td>Trees in urban settings (d)</td>
<td>7 633.00</td>
</tr>
<tr>
<td>Other (specify in comments) (e)</td>
<td></td>
</tr>
<tr>
<td><strong>Total (a+b+c+d+e)</strong></td>
<td>9 798.00</td>
</tr>
<tr>
<td>Other land area</td>
<td>597 242.00</td>
</tr>
</tbody>
</table>
## 2 Forest growing stock, biomass and carbon

### 2a Growing stock

#### National Data

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

<table>
<thead>
<tr>
<th>#</th>
<th>References to sources of information</th>
<th>Variable(s)</th>
<th>Year(s)</th>
<th>Additional comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2017</td>
<td>All live volume (value used for FRA growing stock)</td>
<td>2017</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2017 U.S. national assessment. Represents FRA data for 2020.</td>
</tr>
<tr>
<td>2</td>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2012. (See reference in Table 1.)</td>
<td>All live volume (value used for FRA growing stock)</td>
<td>2012</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2012 U.S. national assessment. Represents FRA data for 2015.</td>
</tr>
<tr>
<td>5</td>
<td>Forest Resources of the United States, 1997. See reference in Table 1.</td>
<td>As above</td>
<td>1997</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 1997 U.S. national assessment. Represents FRA data for 2000.</td>
</tr>
<tr>
<td>Source</td>
<td>Component</td>
<td>All</td>
<td>Notes</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Jenkins, J.C., D.C. Chojnacky, L.S. Heath, R.A. Birdsey (2003)</td>
<td>Live tree component data</td>
<td>All</td>
<td>Provides ratios for the non-bole components of trees to use with the CRM method to calculate tree level biomass estimates for all trees in the inventory database (FIADB)</td>
<td></td>
</tr>
</tbody>
</table>

**National classification and definitions**

<table>
<thead>
<tr>
<th>National class (US definition)</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growing-stock volume</td>
<td>A classification of net volume under bark that includes live trees of commercial species meeting specified standards of quality or vigor on productive forest land. When associated with volume, includes only trees 12.7 cm d.b.h. and larger from stump height of 0.3 m to a top diameter of 10.0 cm. This will be used as the US estimate of volume (after adding 14% for bark) of commercial species.</td>
</tr>
<tr>
<td>All live volume</td>
<td>Volume under bark of all living trees more than 12.7 cm in diameter at breast height on all forest land. Includes the stem from stump height of 0.3m to a top diameter of 10.0 cm. Sound cull trees, trees on unproductive forest and protected forest are included. This will be used as the basis for the US estimate of growing stock volume (after adding 14% for bark).</td>
</tr>
<tr>
<td>Above-ground biomass</td>
<td>All living biomass above the soil including stem, stump, branches, bark, and seeds,– includes trees and understory vegetation. Does not currently include foliage.</td>
</tr>
<tr>
<td>Below-ground biomass</td>
<td>All living biomass of coarse living roots greater than 2 mm diameter – includes trees and understory vegetation.</td>
</tr>
<tr>
<td>Dead wood biomass</td>
<td>All non-living woody biomass with a diameter greater than or equal to 7.5 cm at transect intersection either standing, lying on the ground, or in the soil.</td>
</tr>
<tr>
<td>Litter biomass</td>
<td>The litter itself, fumic, and humic layers, and all non-living biomass with a diameter less than 7.5 cm at transect intersection, lying on the ground.</td>
</tr>
<tr>
<td>Soil biomass</td>
<td>All organic material in soil to a depth of 1 meter but excluding the coarse roots of the above pools.</td>
</tr>
<tr>
<td>Above-ground carbon</td>
<td>Carbon in all living biomass above the soil including stem, stump, branches, bark, and seeds – includes trees and understory vegetation. Does not currently include foliage.</td>
</tr>
<tr>
<td>Below-ground</td>
<td>Carbon in all living biomass of coarse living roots greater than 2 mm diameter – includes trees and understory vegetation.</td>
</tr>
<tr>
<td>carbon carbon</td>
<td>Carbon in all non-living woody biomass either standing, lying on the ground (but not including litter), or in the soil.</td>
</tr>
<tr>
<td>Litter carbon</td>
<td>Carbon in the litter itself, fumic and humic layers, and all non-living biomass, such as small woody debris, with a diameter less than 7.5 cm at transect intersection, lying on the ground.</td>
</tr>
<tr>
<td>Soil carbon</td>
<td>Carbon in all organic material in soil to a depth of 1 meter but excluding the coarse roots of the above pools.</td>
</tr>
</tbody>
</table>

### Original data

<table>
<thead>
<tr>
<th>Fra 2020 categories</th>
<th>Total Growing stock (ft³ over bark)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,990</td>
<td>2,000</td>
</tr>
<tr>
<td>2,010</td>
<td>2,015</td>
</tr>
<tr>
<td>2,016</td>
<td>2,017</td>
</tr>
<tr>
<td>2,018</td>
<td>2,019</td>
</tr>
<tr>
<td>Naturally regenerating forest (a)</td>
<td></td>
</tr>
<tr>
<td>1,154,019,904,632</td>
<td>1,212,866,740,037</td>
</tr>
<tr>
<td>Planted forest (b)</td>
<td></td>
</tr>
<tr>
<td>20,531,995,456</td>
<td>38,377,838,183</td>
</tr>
<tr>
<td>...of which plantation forest</td>
<td></td>
</tr>
<tr>
<td>10,327,463,469</td>
<td>21,218,162,097</td>
</tr>
<tr>
<td>...of which other planted forest</td>
<td></td>
</tr>
<tr>
<td>10,204,531,987</td>
<td>17,159,676,086</td>
</tr>
<tr>
<td>Forest (a+b)</td>
<td></td>
</tr>
<tr>
<td>1,174,551,900,089</td>
<td>1,251,244,578,219</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fra 2020 categories</th>
<th>Total Growing stock (ft³ under bark)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,990</td>
<td>2,000</td>
</tr>
<tr>
<td>2,010</td>
<td>2,015</td>
</tr>
<tr>
<td>2,016</td>
<td>2,017</td>
</tr>
<tr>
<td>2,018</td>
<td>2,019</td>
</tr>
<tr>
<td>Naturally regenerating forest (a)</td>
<td></td>
</tr>
<tr>
<td>1,012,298,161,958</td>
<td>1,063,918,193,015</td>
</tr>
<tr>
<td>Planted forest (b)</td>
<td></td>
</tr>
<tr>
<td>18,010,522,330</td>
<td>33,604,770,336</td>
</tr>
<tr>
<td>...of which plantation forest</td>
<td></td>
</tr>
<tr>
<td>9,059,178,482</td>
<td>18,612,422,892</td>
</tr>
<tr>
<td>...of which other planted forest</td>
<td></td>
</tr>
<tr>
<td>8,951,343,848</td>
<td>15,052,347,444</td>
</tr>
<tr>
<td>Forest (a+b)</td>
<td></td>
</tr>
<tr>
<td>1,030,308,684,288</td>
<td>1,097,582,963,350</td>
</tr>
</tbody>
</table>

other wooded land

<table>
<thead>
<tr>
<th>ID</th>
<th>ID</th>
<th>ID</th>
<th>ID</th>
<th>ID</th>
</tr>
</thead>
</table>
Analysis and processing of national data

Estimation and forecasting

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
<th>Complementary information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum diameter (cm) at breast height[1] of trees included in growing stock (X)</td>
<td>12.7</td>
<td>For FRA, volume of all live trees from U.S. inventories is used for growing stock.</td>
</tr>
<tr>
<td>Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Minimum diameter (cm) of branches included in growing stock (W)</td>
<td>n/a</td>
<td>Not included.</td>
</tr>
<tr>
<td>Volume refers to “above ground” (AG) or “above stump” (AS)</td>
<td>AS</td>
<td></td>
</tr>
</tbody>
</table>

Reclassification into FRA 2020 categories

<table>
<thead>
<tr>
<th>2a Growing Stock</th>
<th>US ALL LIVE</th>
</tr>
</thead>
</table>

Fra 2020 categories

<table>
<thead>
<tr>
<th>Total Growing stock (m³ over bark)</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naturally regenerating forest (a)</td>
<td>32,678,150,835.49</td>
<td>34,344,504,904.27</td>
<td>36,271,984,798.67</td>
<td>38,166,586,753.39</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Planted forest (b)</td>
<td>581,400,408.93</td>
<td>1,066,737,568.25</td>
<td>2,556,030,488.26</td>
<td>2,946,171,538.85</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>…of which plantation forest</td>
<td>292,440,717.57</td>
<td>600,830,452.46</td>
<td>1,194,124,008.39</td>
<td>1,435,863,888.37</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>…of which other planted forest</td>
<td>288,959,691.36</td>
<td>485,907,115.78</td>
<td>1,361,906,479.88</td>
<td>1,510,307,650.48</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Forest (a+b)</td>
<td>33,259,551,244.43</td>
<td>35,431,242,472.52</td>
<td>38,828,015,286.94</td>
<td>41,112,758,292.24</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>other wooded land</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Fra 2020 categories

<table>
<thead>
<tr>
<th>Total Growing stock (m³ under bark)</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naturally regenerating forest (a)</td>
<td>28,665,044,593</td>
<td>30,126,758,688</td>
<td>31,817,530,525</td>
<td>33,479,462,064</td>
<td>-</td>
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<tr>
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<td>Total Growing stock (ft³ over bark)</td>
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<td></td>
<td>1,990</td>
<td>2,000</td>
<td>2,010</td>
<td>2,015</td>
<td>2,016</td>
<td>2,017</td>
<td>2,018</td>
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<td>1,347,842,508,807</td>
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<td>90,265,513,344</td>
<td>104,043,237,190</td>
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### Analysis and processing of national data

#### Estimation and forecasting

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<tr>
<td>Minimum diameter (cm) at breast height[1] of trees included in growing stock (X)</td>
<td>12.7</td>
<td>For FRA, volume of all live trees from U.S. inventories is used for growing stock.</td>
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<td>Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)</td>
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<td>Minimum diameter (cm) of branches included in growing stock (W)</td>
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<tr>
<td>Volume refers to “above ground” (AG) or “above stump” (AS)</td>
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#### Reclassification into FRA 2020 categories

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<thead>
<tr>
<th>2a Growing stock</th>
<th>Growing stock m³/ha (over bark)</th>
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<td>Naturally regenerating forest</td>
<td>114.86  122.23  128.1  134.52</td>
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<tr>
<td>Planted forest</td>
<td>32.41  48.17  99.99  111.75</td>
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<tr>
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<td>48.02  68.89  94.76  109.24</td>
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<tr>
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<td>24.39  35.11  105.06  114.24</td>
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<td>...of which plantation forest</td>
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<td>...of which other planted forest</td>
<td>288.96</td>
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### FRA categories

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<td>130.99</td>
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<td>121.59</td>
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### FRA categories

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<td>34 344.50</td>
<td>36 271.98</td>
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<td>38 166.59</td>
<td>37 663.79</td>
<td>37 663.79</td>
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<td>2 556.03</td>
<td>2 946.17</td>
<td>2 946.18</td>
<td>3 605.08</td>
<td>3 605.08</td>
<td>3 605.08</td>
<td>3 605.08</td>
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<tr>
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<td>292.44</td>
<td>600.83</td>
<td>1 194.12</td>
<td>1 435.86</td>
<td>1 435.85</td>
<td>1 705.76</td>
<td>1 705.76</td>
<td>1 705.76</td>
<td>1 705.76</td>
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<tr>
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<td>485.91</td>
<td>1 361.91</td>
<td>1 510.31</td>
<td>1 510.25</td>
<td>1 899.31</td>
<td>1 899.31</td>
<td>1 899.31</td>
<td>1 899.31</td>
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<tr>
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<td>35 431.24</td>
<td>38 828.02</td>
<td>41 112.76</td>
<td>41 112.40</td>
<td>41 268.86</td>
<td>41 268.86</td>
<td>41 268.86</td>
<td>41 268.86</td>
</tr>
<tr>
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</tbody>
</table>

**Comments**

Insufficient data for other wooded land until most recent.

## 2b Growing stock composition

### National Data

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

National Forest Inventory data for 2020 from USFS Forest Inventory and Analysis program, FIADB.

---

### References to sources of information

<table>
<thead>
<tr>
<th>#</th>
<th>Variable(s)</th>
<th>Year(s)</th>
<th>Additional comments</th>
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<tr>
<td>1</td>
<td>All live volume (value used for FRA growing stock)</td>
<td>2017</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2017 U.S. national assessment. Represents FRA data for 2020.</td>
</tr>
<tr>
<td>2</td>
<td>All live volume (value used for FRA growing stock)</td>
<td>2012</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2012 U.S. national assessment. Represents FRA data for 2015.</td>
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<td>As above</td>
<td>2007</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2007 U.S. national assessment. Represents FRA data for 2010.</td>
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<td>Forest data compiled from most recent inventory data to be used as basis for 1987 U.S. national assessment. Represents FRA data for 1990.</td>
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<tr>
<td>7</td>
<td>Forest area, volume, ownership, conifer and broadleaf data</td>
<td>1987-2012</td>
<td>User guide for multi-year national summary database of forest inventory data.</td>
</tr>
<tr>
<td>8</td>
<td>Tree definition, species list and status</td>
<td>1979</td>
<td>Updated using PLANTS database information to compile current list of tree species in U.S. See next entry.</td>
</tr>
<tr>
<td>9</td>
<td>Plant species</td>
<td>2000</td>
<td>Used to update data from Little, 1979.</td>
</tr>
<tr>
<td>10</td>
<td>Data and methods</td>
<td>All</td>
<td>The Land-Use Change and Forestry chapter and Annex 3.12 provide details of the data and methods.</td>
</tr>
<tr>
<td>11</td>
<td>Forest inventory data access tools</td>
<td>All</td>
<td>This is the principal source of US Forest Service’s Forest Inventory and Analysis data and documentation.</td>
</tr>
<tr>
<td>12</td>
<td>Methods to use of inventory data for compatible estimation of biomass across inventories</td>
<td>All</td>
<td>This publication provides the basic component ration method (CRM) applied to forest inventory data.</td>
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</table>
**National classification and definitions**

<table>
<thead>
<tr>
<th>National class</th>
<th>Definition</th>
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<tbody>
<tr>
<td>Growing-stock volume (US definition)</td>
<td>A classification of net volume under bark that includes live trees of commercial species meeting specified standards of quality or vigor on productive forest land. When associated with volume, includes only trees 12.7 cm d.b.h. and larger from stump height of 0.3 m to a top diameter of 10.0 cm. This will be used as the US estimate of volume (after adding 14% for bark) of commercial species.</td>
</tr>
<tr>
<td>All live volume (FRA growing stock)</td>
<td>Volume under bark of all living trees more than 12.7 cm in diameter at breast height on all forest land. Includes the stem from stump height of 0.3 m to a top diameter of 10.0 cm. Sound cull trees, trees on unproductive forest and protected forest are included. This will be used as the basis for the US estimate of growing stock volume (after adding 14% for bark).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
<th>Complementary information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum diameter (cm) at breast height[^1] of trees included in growing stock (X)</td>
<td>12.7</td>
<td>For FRA, volume of all live trees from U.S. inventories is used for growing stock.</td>
</tr>
<tr>
<td>Minimum diameter (cm) at the top end of stem for calculation of growing stock (Y)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Minimum diameter (cm) of branches included in growing stock (W)</td>
<td>n/a</td>
<td>Not included.</td>
</tr>
<tr>
<td>Volume refers to “above ground” (AG) or “above stump” (AS)</td>
<td></td>
<td>AS</td>
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</tbody>
</table>

Net cubic-foot volume. For timber species (trees where the diameter is measured at breast height [DBH]), this is the net volume of wood in the central stem of a sample tree >5.0 inches in diameter, from a 1-foot stump to a minimum 4-inch top diameter, or to where the central stem breaks into limbs all of which are <4.0 inches in diameter. For woodland species (trees where the diameter is measured at root collar [DRC]), this is the net volume of wood and bark from the DRC measurement point(s) to a 1-1/2 inch top diameter; includes branches that are at least 1-7 inches in diameter along the length of the branch.

**Original data**

<table>
<thead>
<tr>
<th>Category / Species name</th>
<th>FRA growing stock in forest (ft3 under bark) Million cubic feet</th>
<th>FRA growing stock in forest (m3 over bark) million cubic meters</th>
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[^1]: Not included.
### Native tree species (ranked by volume)

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<tbody>
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<td>1st</td>
<td>Pseudotsuga menziesii</td>
<td>Douglas-fir</td>
<td>140,114</td>
<td>147,920</td>
<td>164,060</td>
<td>144,253</td>
<td>150,344</td>
<td>4,523</td>
<td>4,775</td>
<td>5,296</td>
<td>4,856</td>
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<tr>
<td>2nd</td>
<td>Pinus taeda</td>
<td>Loblolly pine</td>
<td>89,062</td>
<td>88,876</td>
<td>87,265</td>
<td>86,436</td>
<td>103,994</td>
<td>2,875</td>
<td>2,869</td>
<td>2,817</td>
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<td>3rd</td>
<td>Pinus ponderosa</td>
<td>Ponderosa pine</td>
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<td>60,996</td>
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<td>1,626</td>
<td>1,564</td>
<td>1,578</td>
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<tr>
<td>4th</td>
<td>Acer rubrum</td>
<td>Red maple</td>
<td>34,912</td>
<td>40,643</td>
<td>49,999</td>
<td>48,809</td>
<td>51,543</td>
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<td>1,312</td>
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<td>547,506</td>
<td>586,446</td>
<td>528,253</td>
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<td>411,840</td>
<td>504,015</td>
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### Introduced tree species (ranked by volume)

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</table>

### Analysis and processing of national data

**Estimation and forecasting**

Conversion factor applied to ft3 (division by 35.315) to convert to cubic meters. 14% volume factor added to underbark estimates to account for tree bark, generating overbark estimates.

### Reclassification into FRA 2020 categories

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<td>Common name</td>
<td>Growing stock in forest (million m³ over bark)</td>
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<td>Ponderosa pine</td>
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<td>Red maple</td>
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<td>Tsuga heterophylla</td>
<td>Western hemlock</td>
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<td>#6 Ranked in terms of volume</td>
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<td>White oak</td>
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<td>1 127.00</td>
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<td>33 260.00</td>
<td>35 431.00</td>
<td>38 828.00</td>
<td>41 112.00</td>
<td>41 104.00</td>
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<td>blue spruce</td>
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<td>24.00</td>
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<td>#2 Ranked in terms of volume</td>
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<td>Norway spruce</td>
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<td>25.00</td>
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<td>Common name</td>
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<td>#5 Ranked in terms of volume</td>
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<td>Total growing stock</td>
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<td>35 431.00</td>
<td>38 828.00</td>
<td>41 112.00</td>
<td>41 269.00</td>
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</table>

Comments

We do not include volume from "other wooded land" in this, therefore total growing stock does not match 2a when OWL is included. There is also a slight variation between 2a and 2b due to rounding errors, even when OWL is removed from table 2a.
## 2c Biomass stock

### National Data

<table>
<thead>
<tr>
<th>References to sources of information</th>
<th>Variable(s)</th>
<th>Year(s)</th>
<th>Additional comments</th>
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<tbody>
<tr>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2017. (See reference in Table 1.)</td>
<td>All live volume (value used for FRA growing stock)</td>
<td>2017</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2017 U.S. national assessment. Represents FRA data for 2017-2020</td>
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<tr>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2012. (See reference in Table 1.)</td>
<td>All live volume (value used for FRA growing stock)</td>
<td>2012</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2012 U.S. national assessment. Represents FRA data for 2015.</td>
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<td>As above</td>
<td>1997</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 1997 U.S. national assessment. Represents FRA data for 2000.</td>
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### National classification and definitions

<table>
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<th>Classification</th>
<th>Description</th>
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<tr>
<td><strong>Growing-stock volume (US definition)</strong></td>
<td>A classification of net volume under bark that includes live trees of commercial species meeting specified standards of quality or vigor on productive forest land. When associated with volume, includes only trees 12.7 cm d.b.h. and larger from stump height of 0.3 m to a top diameter of 10.0 cm. This will be used as the US estimate of volume (after adding 14% for bark) of commercial species.</td>
</tr>
<tr>
<td><strong>All live volume (FRA growing stock)</strong></td>
<td>Volume under bark of all living trees more than 12.7 cm in diameter at breast height on all forest land. Includes the stem from stump height of 0.3 m to a top diameter of 10.0 cm. Sound cull trees, trees on unproductive forest and protected forest are included. This will be used as the basis for the US estimate of growing stock volume (after adding 14% for bark).</td>
</tr>
<tr>
<td><strong>Above-ground biomass</strong></td>
<td>All living biomass above the soil including stem, stump, branches, bark, and seeds—includes trees and understory vegetation. Does not currently include foliage.</td>
</tr>
<tr>
<td><strong>Below-ground biomass</strong></td>
<td>All living biomass of coarse living roots greater than 2 mm diameter—includes trees and understory vegetation.</td>
</tr>
<tr>
<td><strong>Dead wood biomass</strong></td>
<td>All non-living woody biomass with a diameter greater than or equal to 7.5 cm at transect intersection either standing, lying on the ground, or in the soil.</td>
</tr>
<tr>
<td><strong>Litter biomass</strong></td>
<td>The litter itself, fumic, and humic layers, and all non-living biomass with a diameter less than 7.5 cm at transect intersection, lying on the ground.</td>
</tr>
<tr>
<td><strong>Soil biomass</strong></td>
<td>All organic material in soil to a depth of 1 meter but excluding the coarse roots of the above pools.</td>
</tr>
<tr>
<td><strong>Above-ground carbon</strong></td>
<td>Carbon in all living biomass above the soil including stem, stump, branches, bark, and seeds—includes trees and understory vegetation. Does not currently include foliage.</td>
</tr>
<tr>
<td><strong>Below-ground carbon</strong></td>
<td>Carbon in all living biomass of coarse living roots greater than 2 mm diameter—includes trees and understory vegetation.</td>
</tr>
<tr>
<td><strong>Dead wood carbon</strong></td>
<td>Carbon in all non-living woody biomass either standing, lying on the ground (but not including litter), or in the soil.</td>
</tr>
</tbody>
</table>
Litter carbon
Carbon in the litter itself, fumic and humic layers, and all non-living biomass, such as small woody debris, with a diameter less than 7.5 cm at transect intersection, lying on the ground.

Soil carbon
Carbon in all organic material in soil to a depth of 1 meter but excluding the coarse roots of the above pools.

The estimates in the file ONLY include forest land remaining forest land.

Original data
OD Biomass (Tg)

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<td>Above-ground biomass</td>
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<td>26714</td>
<td>27711</td>
<td>28724</td>
<td>28930</td>
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<td>Below-ground biomass</td>
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<td>5704</td>
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<td>5142</td>
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Analysis and processing of national data

Estimation and forecasting

Estimation:

No forecasting was used. 2018 data were used for 2019 and 2020.

The methodology is consistent with recommendations of the Intergovernmental Panel on Climate Change (IPCC) Good Practice Guidance for Land Use, Land-Use Change, and Forestry (Penman et al. 2003).

Forest inventory data was downloaded from the Internet and processed according to methods provided with the data (USDA Forest Service 2008). Biomass stocks do not include the litter and soil organic carbon pools, which are included with carbon stock. Additional details, appropriate citations, and any changes since publication of cited methods are available in US EPA (2008).

Thresholds used by the United States are the following:

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<th>Specification of country threshold values</th>
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<th>Value</th>
<th>Complementary information</th>
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<tr>
<td>1. Minimum diameter at breast height of trees included in Above-ground Biomass stock</td>
<td>cm</td>
<td>2.54</td>
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<tr>
<td>2. Minimum diameter of branches included in Above-ground Biomass stock</td>
<td>cm</td>
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<tr>
<td>3. Minimum diameter of roots included in below-ground Biomass stock</td>
<td>cm</td>
<td>2</td>
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<tr>
<td>4. Minimum diameter of dead wood included in biomass stock</td>
<td>cm</td>
<td>7.5</td>
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<tr>
<td>5. Foliage not currently included in biomass stock</td>
<td>Yes/No</td>
<td>No</td>
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<tr>
<td>6. Have any of the above thresholds (points 1 to 4) changed since 1990</td>
<td>Yes/No</td>
<td>No</td>
<td>Change in forest area base since 1990 will affect comparisons using older reports.</td>
</tr>
<tr>
<td>7. If yes, then attach a separate note giving details of the change</td>
<td>Attachment</td>
<td>No</td>
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Reclassification into FRA 2020 categories

Conversion to tonnes/ha

Teragram to Tonne Conversion Table

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### Tonnes

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<td>Below-ground biomass</td>
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### Tonnes / forested ha

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<tbody>
<tr>
<td>Above-ground biomass</td>
<td>78.49393697</td>
<td>84.87610848</td>
<td>89.76134103</td>
<td>92.63061934</td>
<td>93.38495396</td>
<td>94.03876149</td>
<td>94.66751399</td>
</tr>
<tr>
<td>Dead wood</td>
<td>14.234281</td>
<td>15.56604636</td>
<td>16.65446173</td>
<td>17.27171281</td>
<td>17.43379917</td>
<td>17.57794924</td>
<td>17.71429982</td>
</tr>
<tr>
<td>TOTAL</td>
<td>108.4505089</td>
<td>117.7037113</td>
<td>124.8934873</td>
<td>129.06828867</td>
<td>130.1592608</td>
<td>131.1106156</td>
<td>132.0233718</td>
</tr>
</tbody>
</table>
## Comments

Data are the most recent data for the United States used in the NIR report, as given by the National Carbon representative. The data are originally Tg, and are calculated for forest land that remained in forest land - not for other categories of transition, thus the use of ALL forest land acres as divisor for tonnes/acre may result in under-estimation on a per-area basis.

<table>
<thead>
<tr>
<th>FRA categories</th>
<th>Forest biomass (tonnes/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above-ground biomass</td>
<td>78.49</td>
</tr>
<tr>
<td>Below-ground biomass</td>
<td>15.72</td>
</tr>
<tr>
<td>Dead wood</td>
<td>14.23</td>
</tr>
</tbody>
</table>
## 2d Carbon stock

### National Data

<table>
<thead>
<tr>
<th>#</th>
<th>References to sources of information</th>
<th>Variable(s)</th>
<th>Year(s)</th>
<th>Additional comments</th>
</tr>
</thead>
</table>
| 1 | FIADB national database [http://fia.fs.fed.us](http://fia.fs.fed.us)  
Forest Resources of the United States, 2017. (See reference in Table 1.) | All live volume (value used for FRA growing stock) | 2017 | Forest data compiled from most recent inventory data to be used as basis for 2017 U.S. national assessment. Represents FRA data for 2017-2020 |
| 2 | FIADB national database [http://fia.fs.fed.us](http://fia.fs.fed.us)  
Forest Resources of the United States, 2012. (See reference in Table 1.) | All live volume (value used for FRA growing stock) | 2012 | Forest data compiled from most recent inventory data to be used as basis for 2012 U.S. national assessment. Represents FRA data for 2015. |
| 3 | FIADB national database [http://fia.fs.fed.us](http://fia.fs.fed.us)  
Forest Resources of the United States, 2007. See reference in Table 1. | As above | 2007 | Forest data compiled from most recent inventory data to be used as basis for 2007 U.S. national assessment. Represents FRA data for 2010. |
| 4 | FIADB national database [http://fia.fs.fed.us](http://fia.fs.fed.us)  
Forest Resources of the United States, 2002. See reference in Table 1. | As above | 2002 | Forest data compiled from most recent inventory data to be used as basis for 2002 U.S. national assessment. Represents FRA data for 2005. |
| 5 | Forest Resources of the United States, 1997.  
See reference in Table 1. | As above | 1997 | Forest data compiled from most recent inventory data to be used as basis for 1997 U.S. national assessment. Represents FRA data for 2000. |
See reference in Table 1. | As above | 1987 | Forest data compiled from most recent inventory data to be used as basis for 1987 U.S. national assessment. Represents FRA data for 1990. |
## National classification and definitions

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Dead wood</td>
<td>Dead wood</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>Litter carbon</td>
<td>Dead wood carbon</td>
<td>All</td>
<td></td>
</tr>
</tbody>
</table>

Data for 2015-2020 carbon and biomass values from Domke, Grant 2018 data prepared for the NIR and RPA based on Forest inventory database, and litter and soil carbon from Domke et al., 2019.

### Growing-stock volume (US definition)

A classification of net volume under bark that includes live trees of commercial species meeting specified standards of quality or vigor on productive forest land. When associated with volume, includes only trees 12.7 cm d.b.h. and larger from stump height of 0.3 m to a top diameter of 10.0 cm. This will be used as the US estimate of volume (after adding 14% for bark) of commercial species.

### All live volume (FRA growing stock)

Volume under bark of all living trees more than 12.7 cm in diameter at breast height on all forest land. Includes the stem from stump height of 0.3m to a top diameter of 10.0 cm. Sound cull trees, trees on unproductive forest and protected forest are included. This will be used as the basis for the US estimate of growing stock volume (after adding 14% for bark).

### Above-ground biomass

All living biomass above the soil including stem, stump, branches, bark, and seeds,– includes trees and understory vegetation. Does not currently include foliage.

### Below-ground biomass

All living biomass of coarse living roots greater than 2 mm diameter – includes trees and understory vegetation.

### Dead wood biomass

All non-living woody biomass with a diameter greater than or equal to 7.5 cm at transect intersection either standing, lying on the ground, or in the soil.

### Litter biomass

The litter itself, fumic, and humic layers, and all non-living biomass with a diameter less than 7.5 cm at transect intersection, lying on the ground.

### Soil biomass

All organic material in soil to a depth of 1 meter but excluding the coarse roots of the above pools.

### Above-ground carbon

Carbon in all living biomass above the soil including stem, stump, branches, bark, and seeds – includes trees and understory vegetation. Does not currently include foliage.

### Below-ground carbon

Carbon in all living biomass of coarse living roots greater than 2 mm diameter – includes trees and understory vegetation.
The estimates in the file ONLY include forest land remaining forest land.

Carbon stocks are calculated to be consistent with volume estimates provided in this report using a conversion of 50% of the biomass value is the estimated carbon stock value.

### Original data

#### Input data on Forest area from reporting table 1b

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Naturally regenerating forest</td>
<td>284512</td>
<td>280976</td>
<td>283156</td>
<td>283731</td>
<td>282274</td>
<td>282274</td>
<td>282274</td>
<td>282274</td>
<td>282274</td>
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<tr>
<td>Plantation forest</td>
<td>6090</td>
<td>8722</td>
<td>12601</td>
<td>13144</td>
<td>14029</td>
<td>14029</td>
<td>14029</td>
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<td>14029</td>
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<tr>
<td>... of which introduced species</td>
<td>308</td>
<td>388</td>
<td>440</td>
<td>359</td>
<td>268</td>
<td>268</td>
<td>268</td>
<td>268</td>
<td>268</td>
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<tr>
<td>Other planted forest</td>
<td>11848</td>
<td>13838</td>
<td>12963</td>
<td>13220</td>
<td>13492</td>
<td>13492</td>
<td>13492</td>
<td>13492</td>
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<tr>
<td><strong>Total</strong></td>
<td>302450</td>
<td>303536</td>
<td>308720</td>
<td>310095</td>
<td>309795</td>
<td>309795</td>
<td>309795</td>
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</table>

**Carbon in biomass and dead wood (million t)**

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<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Above-ground biomass</strong></td>
<td>23740</td>
<td>25763</td>
<td>26714</td>
<td>27711</td>
<td>28724</td>
<td>28930</td>
<td>29133</td>
<td>29328</td>
</tr>
<tr>
<td><strong>Below-ground biomass</strong></td>
<td>4755</td>
<td>5240</td>
<td>5468</td>
<td>5704</td>
<td>5943</td>
<td>5992</td>
<td>6039</td>
<td>6085</td>
</tr>
<tr>
<td><strong>Dead wood</strong></td>
<td>4305</td>
<td>4725</td>
<td>4927</td>
<td>5142</td>
<td>5356</td>
<td>5401</td>
<td>5446</td>
<td>5488</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>32801</td>
<td>35727</td>
<td>37109</td>
<td>38557</td>
<td>40023</td>
<td>40323</td>
<td>40617</td>
<td>40900</td>
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</table>

**Litter and soil organic carbon (t/ha)**

<table>
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<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Litter</strong></td>
<td>13.6</td>
<td>13.6</td>
<td>13.5</td>
<td>13.5</td>
<td>13.5</td>
<td>13.5</td>
<td>13.5</td>
</tr>
<tr>
<td><strong>Soil organic carbon</strong></td>
<td>124.5</td>
<td>123.8</td>
<td>123.3</td>
<td>122.9</td>
<td>122.9</td>
<td>122.8</td>
<td>122.7</td>
</tr>
</tbody>
</table>
Analysis and processing of national data

Estimation and forecasting
Forecasting is not used and carbon stocks are calculated to be consistent with volume estimates provided in this report using a conversion of 50% of the biomass value is the estimated carbon stock value.

Reclassification into FRA 2020 categories
Estimates of carbon stocks are based on published carbon conversion factors and methods cited in references and applied to publicly available forest inventory data (USDA Forest Service 2008). Values presented for the conterminous United States are based on summaries prepared by the US Forest Service for the US Environmental Protection Agency and published as part of the inventory of US greenhouse gas emissions and sinks (US EPA 2008) and do not include all forest lands.
<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon in above-ground biomass</td>
<td>39.25</td>
<td>42.44</td>
<td>44.88</td>
<td>46.32</td>
<td>46.69</td>
<td>47.02</td>
<td>47.33</td>
<td>47.33</td>
<td>47.33</td>
</tr>
<tr>
<td>Carbon in dead wood</td>
<td>7.12</td>
<td>7.78</td>
<td>8.33</td>
<td>8.64</td>
<td>8.72</td>
<td>8.79</td>
<td>8.86</td>
<td>8.86</td>
<td>8.86</td>
</tr>
<tr>
<td>Carbon in litter</td>
<td>13.60</td>
<td>13.60</td>
<td>13.50</td>
<td>13.50</td>
<td>13.50</td>
<td>13.50</td>
<td>13.50</td>
<td>13.50</td>
<td>13.50</td>
</tr>
<tr>
<td>Soil carbon</td>
<td>124.50</td>
<td>123.80</td>
<td>123.30</td>
<td>122.90</td>
<td>122.90</td>
<td>122.80</td>
<td>122.70</td>
<td>122.70</td>
<td>122.70</td>
</tr>
<tr>
<td>Soil depth (cm) used for soil carbon estimates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100.00</td>
</tr>
</tbody>
</table>

Comments
3 Forest designation and management

3a Designated management objective

National Data

Data sources + type of data source eg NFI, etc

Production forest includes:

- All planted forest, public and private.
- Approximately 70% of corporate natural forest (much of this was previously forest industry lands that have been divested since 2000 to Timberland Investment Management Organizations (TIMOs) and Real Estate Investment Trusts (REITs) but many areas have timber agreements as condition of sale.)
- Approximately 22% of forested lands (excluding planted areas) in National forest ownership are deemed suitable for timber management as a primary emphasis. Individual forests range from zero to 60%. Based on National Forest System records.
- Approximately 22% of private noncorporate natural forest lands have timber as a primary goal based on a recent study of owners of these forests (Butler, 2013).

Production area excludes: Non-National forest public lands due to lack of data.

Multiple use forest

Remainder of forest area

ID= Insufficient data

* Data interpolated.

NOTES

| Area of permanent forest estate | Includes all public forest |
| Forest area within protected areas | Includes all reserved forest (IUCN 1-5 only) |
| Forest area under sust. forest mgmt | All public forest plus SFI certified forest (predominantly private) (www.sfiprogram.org) |
| Forest area with management plan | Includes all public forest, all planted private forest, 70% of corporate natural forest and 20% of noncorporate private natural forest land. |

1) Under this reporting category all areas designated for protection of soil and water should be reported, regardless whether they are primarily designated or not.

NOTE: In North America it is difficult to assign soil and water protection as the “primary” function of forests because federal and state/province guidelines dictate that forests are managed to protect soil and water, along with their many other functions. While legislation, regulations and best management practices provide guidance on how forest areas must address soil and water conservation, specific areas with protection as a legal designation for their primary function are rare in these regions. A large percentage of the public and private forests in this region falls under either national policy guidelines or have management plans where soil and water protection are an integral component of management. For this reason, all managed forest with a management plan is included in the “multiple use” category for this table.

PROTECTION OF SOIL AND WATER


US Army Corps of engineers - owns 1.4 million acres of forest (presumably the primary purpose of which is shoreline protection): https://www.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/475480/environmental-stewardship-program-
TVA - 293,000 acres https://www.tva.gov/Environment/Environmental-Stewardship/Land-Management/TVA-Land-Policy

<table>
<thead>
<tr>
<th>Acres</th>
<th>Organization/agency</th>
<th>conversion to ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>7,100,000.00</td>
<td>BRC</td>
<td>2,873,370.00</td>
</tr>
<tr>
<td>1,400,000.00</td>
<td>USACOE</td>
<td>566,580.00</td>
</tr>
<tr>
<td>293,000.00</td>
<td>TVA</td>
<td>118,577.10</td>
</tr>
<tr>
<td>8,793,000.00</td>
<td>Total all three</td>
<td>3,558,527.10</td>
</tr>
</tbody>
</table>

***Woodland Owner proportion of privately owned land with primary objective of water protection

<table>
<thead>
<tr>
<th>Conservation of Biodiversity</th>
<th>Thous acres</th>
<th>thous hectares</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodland owners with primary objective of conservation of biodiversity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IUCN categories 1-5 (protected areas)</td>
<td>78,415.50</td>
<td>31,734.75</td>
</tr>
<tr>
<td>Social services</td>
<td>thous ac</td>
<td>thous ha</td>
</tr>
</tbody>
</table>
| BIA timberland (forest not woodland) | 8,124.00 | 3,287.78 ** From Marla Emery, in the RPA 2017

National classification and definitions

<table>
<thead>
<tr>
<th>National class</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadless area</td>
<td>An area in the National Forest System without any improved roads maintained for travel by standard passenger type vehicles (FSH 1909.12, Section 7.11) <a href="http://www.fs.fed.us/r4/uinta/projects/planning/docs/roadless/draft_roadless.htm">http://www.fs.fed.us/r4/uinta/projects/planning/docs/roadless/draft_roadless.htm</a>. An area that generally appears to have been primarily affected by the forces of nature, with the imprint of human activity substantially unnoticeable.</td>
</tr>
<tr>
<td>Conservation of biodiversity</td>
<td>All public forest land is managed to conserve biodiversity under the National Environmental Policy Act (NEPA). NEPA is a United States environmental law that established a U.S. national policy promoting the enhancement of the environment and also established the President's Council on Environmental Quality (CEQ). As one of the most emulated statutes in the world, NEPA has been called the modern-day equivalent of an “environmental Magna Carta”. NEPA's most significant effect was to set up procedural requirements for all federal government agencies to prepare environmental assessments (EAs) and environmental impact statements (EISs). EAs and EISs contain statements of the environmental effects of proposed federal agency actions. NEPA's procedural requirements apply to all federal agencies in the executive branch.</td>
</tr>
</tbody>
</table>
| IUCN class     | **Category I:** an area of land and/or sea possessing some outstanding or representative ecosystems, geological or physiological features and/or species, available primarily for scientific research and/or environmental monitoring or a large area of unmodified or slightly modified land, and/or sea, retaining its natural character and influence, without permanent or significant habitation, which is protected and managed so as to preserve its natural condition.  
**Category II:** a natural area of land and/or sea, designated to (a) protect the ecological integrity of one or more ecosystems for present and future generations, (b) exclude exploitation or occupation inimical to the purposes of designation of the area, and (c) provide a foundation for spiritual, educational, recreational, and visitor opportunities, all of which must be environmentally and culturally comparable.  
**Category III:** an area of land and/or sea containing one or more specific natural or natural/cultural features which are of outstanding or unique value because of their inherent rarity, representative or aesthetic qualities, or cultural significance.  
**Category IV:** an area of land and/or sea subject to active intervention for management purposes so as to ensure the maintenance of habitats and/or to meet the requirements of specific species.  
**Category V:** an area of land with coast and sea as appropriate, where the interaction of people and nature over time has produced an area of distinct character with significant aesthetic, ecological, and/or cultural value, and often with high biological diversity. Safeguarding the integrity of this traditional interaction is vital to the protection, maintenance, and evolution of such an area.  
**Category VI:** an area of land and/or sea containing predominantly unmodified natural systems, managed to ensure long-term protection and maintenance of biological diversity, while providing at the same time a sustainable flow of natural products and services to meet community needs. |

Original data

From previous years:

| T 6 | Designated functions of Forest and Other wooded land |  |

Original data

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Forest</strong></td>
<td></td>
<td>000 acres</td>
<td>000 ha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Production</strong></td>
<td>145,329</td>
<td>165,710</td>
<td>176,516</td>
<td>187,451</td>
<td>193,023</td>
<td>64,962</td>
<td>74,072</td>
<td>78,903</td>
<td>83,790</td>
<td>86,281</td>
<td></td>
</tr>
<tr>
<td>of which:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>All planted forest, public and private</td>
<td>25,527</td>
<td>40,227</td>
<td>42,178</td>
<td>62,888</td>
<td>65,384</td>
<td>11,411</td>
<td>17,982</td>
<td>18,853</td>
<td>28,111</td>
<td>29,227</td>
<td></td>
</tr>
<tr>
<td>Corporate natural forest (@70%)</td>
<td>74,267</td>
<td>76,283</td>
<td>86,612</td>
<td>77,272</td>
<td>80,484</td>
<td>33,197</td>
<td>34,099</td>
<td>38,716</td>
<td>34,541</td>
<td>35,976</td>
<td></td>
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<tr>
<td>NFS natural forest (@22%)</td>
<td>25,010</td>
<td>25,230</td>
<td>25,018</td>
<td>24,862</td>
<td>24,943</td>
<td>11,180</td>
<td>11,278</td>
<td>11,183</td>
<td>11,113</td>
<td>11,149</td>
<td></td>
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<tr>
<td>Noncorporate natural forest (@20%)</td>
<td>20,525</td>
<td>23,969</td>
<td>22,708</td>
<td>22,428</td>
<td>22,212</td>
<td>9,174</td>
<td>10,714</td>
<td>10,151</td>
<td>10,025</td>
<td>9,929</td>
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<tr>
<td>Protection of soil and water (see table 5)</td>
<td>457,319</td>
<td>483,493</td>
<td>493,614</td>
<td>516,740</td>
<td>521,921</td>
<td>185,077</td>
<td>195,670</td>
<td>199,766</td>
<td>209,125</td>
<td>211,221</td>
<td></td>
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<tr>
<td>Protected forest, IUCN 1-5</td>
<td>44,354</td>
<td>51,442</td>
<td>63,064</td>
<td>74,685</td>
<td>73,520</td>
<td>17,950</td>
<td>20,819</td>
<td>25,522</td>
<td>30,225</td>
<td>29,754</td>
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<tr>
<td>Roadless forest, IUCN 6</td>
<td>30,680</td>
<td>30,680</td>
<td>30,680</td>
<td>30,680</td>
<td>30,680</td>
<td>12,416</td>
<td>12,416</td>
<td>12,416</td>
<td>12,416</td>
<td>12,416</td>
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<tr>
<td>Social services</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Multiple purpose</td>
<td>295,205</td>
<td>285,219</td>
<td>275,268</td>
<td>261,677</td>
<td>252,044</td>
<td>119,469</td>
<td>115,428</td>
<td>111,401</td>
<td>105,901</td>
<td>102,002</td>
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</table>
### Table 8— Area of forest and woodlands by region, forest-type group, ownership class and stand origin, 2017

<table>
<thead>
<tr>
<th>Forest-type group</th>
<th>Total</th>
<th>Planted</th>
<th>Natural origin</th>
<th>Total</th>
<th>Planted</th>
<th>Natural origin</th>
<th>Total</th>
<th>Planted</th>
<th>Natural origin</th>
<th>Total</th>
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**THOUSAND ACRES**
## North:

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<th>East</th>
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<td>141</td>
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<tr>
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<tr>
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<tr>
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<td>15,585</td>
<td>1,955</td>
<td>4,711</td>
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<tr>
<td>Maple-beech-birch</td>
<td>49,643</td>
<td>15,585</td>
<td>1,955</td>
<td>4,711</td>
</tr>
<tr>
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<td>2,151</td>
<td>2,151</td>
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## South:

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<td>1</td>
<td>141</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>32</td>
<td>6</td>
<td>1</td>
<td>141</td>
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<td>29,702</td>
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### FRA 2020 report, United States of America

#### South total:

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<th>26,730</th>
<th>42,384</th>
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#### Rocky Mountain:

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<td>1,046</td>
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#### Pacific Coast:

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<td>200</td>
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<td>565</td>
<td>71</td>
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</tbody>
</table>

Pacific Coast total: 213,549 12,977 200,572 48,502 3,070 45,431 95,907 1,841 94,066 49,349 6,727 42,622 19,792 1,339 18,453

United States: 765,493 68,005 697,488 144,868 5,126 139,742 177,143 5,197 171,946 155,748 34,666 121,082 287,733 23,015 264,718

Woodland<sup>a</sup>

| North | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| South | 22,521 | 0 | 22,521 | 0 | - | - | 1,520 | - | 1,520 | 5,268 | - | 5,268 | 15,733 | - | 15,733 |
| Rocky Mountain | 29,019 | 0 | 29,019 | 3,826 | - | 3,826 | 15,221 | - | 15,221 | 956 | - | 956 | 9,015 | - | 9,015 |
| Pacific Coast | 5,490 | 2 | 5,488 | 160 | 2 | 158 | 1,896 | - | 1,896 | 280 | - | 280 | 3,154 | - | 3,154 |

United States: 57,030 2 57,027 3,987 2 3,985 18,638 0 18,638 6,503 0 6,503 27,902 0 27,902

<sup>a</sup> Woodland is a class of land which consists predominantly of stands of sparse woodland species such as juniper, pinyon juniper, mesquite and small stature hardwood species and are found in the arid to semiarid regions of the interior western United States. These areas must span more than 1 acre (0.4 hectares), have sparse trees capable of achieving 16.4 feet (5 meters) in height in situ, and a tree canopy cover of 5 to 10 percent. When combined with shrubs and bushes these areas may achieve overall cover greater than 10 percent woody vegetation. Trees are defined as woody plants having a more or less erect perennial stem(s) capable of achieving at least 3 inches (7.6 cm) in diameter at breast height, or 5 inches (12.7 cm) diameter at root collar, and a height of 16.4 feet (5 meters) at maturity in situ. These areas do not include land that is predominantly under agricultural or urban land use. For some local analysis these lands might be called scrub forest but the preferred terminology is “Forest and Woodland” when adding these areas to forest totals.

Note: Data may not add to totals because of rounding.

PROTECTION OF SOIL AND WATER


US Army Corps of engineers - owns 1.4 million acres of forest (presumably the primary purpose of which is shoreline protection): https://www.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/475480/environmental-stewardship-program-statistics/

TVA - 293,000 acres https://www.tva.gov/Environment/Environmental-Stewardship/Land-Management/TVA-Land-Policy

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<th>Organization/agency</th>
<th>conversion to ha</th>
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</table>
Conservation of Biodiversity = all protected forest areas in IUCN categories 1-5

Multiple use = all National Forest System forest land

Analysis and processing of national data

Estimation and forecasting
no forecasting was used

Reclassification into FRA 2020 categories

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<th>corporate natural forest 000 acres</th>
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</tbody>
</table>
### Primary designated management objective

<table>
<thead>
<tr>
<th>FRA 2020 categories</th>
<th>Forest area (1000 ha)</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production (a)</td>
<td></td>
<td>71 033.00</td>
<td>81 331.00</td>
<td>89 212.00</td>
<td>91 339.00</td>
<td>95 691.00</td>
</tr>
<tr>
<td>Protection of soil and water (b)</td>
<td></td>
<td>3 558.53</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conservation of biodiversity (c)</td>
<td></td>
<td>17 950.00</td>
<td>20 819.00</td>
<td>30 225.00</td>
<td>29 754.00</td>
<td>31 734.00</td>
</tr>
<tr>
<td>Social Services (d)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple use (e)</td>
<td></td>
<td>144 868.00</td>
<td>144 868.00</td>
<td>144 868.00</td>
<td>144 868.00</td>
<td>144 868.00</td>
</tr>
<tr>
<td>Other (specify in comments) (f)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>None/unknown (g)</td>
<td></td>
<td>68 599.00</td>
<td>56 518.00</td>
<td>44 415.00</td>
<td>44 134.00</td>
<td>30 655.69</td>
</tr>
<tr>
<td>Total forest area</td>
<td></td>
<td>302 450.00</td>
<td>303 536.00</td>
<td>308 720.00</td>
<td>310 095.00</td>
<td>309 795.00</td>
</tr>
</tbody>
</table>

### Total area with designated management objective

<table>
<thead>
<tr>
<th>FRA 2020 categories</th>
<th>Forest area (1000 ha)</th>
<th>1990</th>
<th>2000</th>
<th>2010</th>
<th>2015</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production</td>
<td></td>
<td>71 033.00</td>
<td>81 331.00</td>
<td>89 212.00</td>
<td>91 339.00</td>
<td>95 691.00</td>
</tr>
<tr>
<td>Protection of soil and water</td>
<td></td>
<td>162 818.00</td>
<td>165 687.00</td>
<td>175 093.00</td>
<td>174 622.00</td>
<td>183 448.31</td>
</tr>
<tr>
<td>Conservation of biodiversity</td>
<td></td>
<td>162 818.00</td>
<td>165 687.00</td>
<td>175 093.00</td>
<td>174 622.00</td>
<td>183 448.31</td>
</tr>
<tr>
<td>Social Services</td>
<td></td>
<td>162 818.00</td>
<td>165 687.00</td>
<td>175 093.00</td>
<td>174 622.00</td>
<td>183 448.31</td>
</tr>
<tr>
<td>Other (specify in comments)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments

The total area with designated management objective for each category aside from production was assumed to be the sum of multiple use and all other categories. This is because any primary management plan outside of production in the United States will carry with it the assumption of secondary management of soil and water protection, conservation of biodiversity, and social services to some degree. Additionally, multiple use by definition includes the management of all of those categories. The only excluded category aside from production (which also may include some of the management objectives as secondary - particularly protection of soil and water - but which we chose to exclude) was the "none/unknown" category because we have no way of knowing the intended or actual use of that forest area.

**Special note - "soil and water protection" and "social services" in years prior to 2020 were NOT zero, they were just not recorded in a manner in which those services could be summed to represent a primary management objective.**
3b Forest area within protected areas and forest area with long-term management plans

National Data

<table>
<thead>
<tr>
<th>Data sources + type of data source eg NFI, etc</th>
<th>Forest Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIADB national database</td>
<td>Forest Area</td>
</tr>
<tr>
<td>Forest Resources of the United States, 2017. Forest data compiled from most recent inventory data to be used as basis for 2017 U.S. national assessment. Represents FRA data for 2020.</td>
<td></td>
</tr>
<tr>
<td>FIADB national database</td>
<td>Forest Area</td>
</tr>
<tr>
<td>Forest Resources of the United States, 2012. See reference in Table 1. Forest data compiled from inventory data to be used as basis for 2012 U.S. national assessment. Represents FRA data for 2015.</td>
<td></td>
</tr>
<tr>
<td>FIADB national database</td>
<td>Forest Area</td>
</tr>
<tr>
<td>Forest Resources of the United States, 2007. See reference in Table 1. Forest data compiled from most recent inventory data to be used as basis for 2007 U.S. national assessment. Represents FRA data for 2010. Adjustments made for other wooded land.</td>
<td></td>
</tr>
<tr>
<td>FIADB national database</td>
<td>Forest Area</td>
</tr>
<tr>
<td>Forest Resources of the United States, 2002. See reference in Table 1. Forest data compiled from most recent inventory data to be used as basis for 2005. Adjustments made for other wooded land.</td>
<td></td>
</tr>
<tr>
<td>Forest Resources of the United States, 1997. See reference in Table 1. Forest area</td>
<td></td>
</tr>
<tr>
<td>Forest Statistics of the United States, 1987. See reference in Table 1. Forest area</td>
<td></td>
</tr>
<tr>
<td>Butler, Brett J. 2017 Family Forest Owners of the United States Forest ownership objectives</td>
<td></td>
</tr>
<tr>
<td>2017 This report summarizes results from the U.S. Forest Service's National Woodland Owner Survey of the estimated 10 million family forest owners who own 35 percent of forest land in the U.S. Information on forest owner characteristics, ownership histories, ownership objectives, forest uses and forest management practices.</td>
<td></td>
</tr>
<tr>
<td>Conservation Biology Institute, Protected Areas Database</td>
<td>Protected areas</td>
</tr>
<tr>
<td>RAD <a href="http://www.consbio.org">http://www.consbio.org</a> 2010, current This polygon data set was overlaid on the U.S. forest inventory plot grid to classify plot and area data for IUCN categories 1-5 to verify national inventory data.</td>
<td></td>
</tr>
<tr>
<td>National Forest Systems Roadless Area Database</td>
<td>NFS Roadless areas</td>
</tr>
<tr>
<td>2002, current This polygon data set was overlaid on the U.S. forest inventory plot grid to classify plot and area data as forest/nonforest for National Forest Systems roadless areas. Considered IUCN class 6.</td>
<td></td>
</tr>
</tbody>
</table>

National classification and definitions

<table>
<thead>
<tr>
<th>National class</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadless area</td>
<td>An area in the National Forest System without any improved roads maintained for travel by standard passenger type vehicles (FSH 1909.12, Section 7.11) <a href="http://fia.fs.fed.us/r4/uinta/projects/planning/docs/roadless/draft_roadless.htm">http://fia.fs.fed.us/r4/uinta/projects/planning/docs/roadless/draft_roadless.htm</a>. An area that generally appears to have been primarily affected by the forces of nature, with the imprint of human activity substantially unnoticeable.</td>
</tr>
<tr>
<td>Conservation of biodiversity</td>
<td>All public forest land is managed to conserve biodiversity under the National Environmental Policy Act (NEPA). NEPA is a United States environmental law that established a U.S. national policy promoting the enhancement of the environment and also established the President’s Council on Environmental Quality (CEQ). As one of the most emulated statutes in the world, NEPA has been called the modern-day equivalent of an “environmental Magna Carta”. NEPA’s most significant effect was to set up procedural requirements for all federal government agencies to prepare environmental assessments (EAs) and environmental impact statements (EISs). EAs and EISs contain statements of the environmental effects of proposed federal agency actions. NEPA’s procedural requirements apply to all federal agencies in the executive branch.</td>
</tr>
</tbody>
</table>
| IUCN class | Category I: an area of land and/or sea possessing some outstanding or representative ecosystems, geological or physiographical features and/or species, available primarily for scientific research and/or environmental monitoring or a large area of unmodified or slightly modified land, and/or sea, retaining its natural character and influence, without permanent or significant habitation, which is protected and managed so as to preserve its natural condition.  
Category II: a natural area of land and/or sea, designated to (a) protect the ecological integrity of one or more ecosystems for present and future generations, (b) exclude exploitation or occupation inimical to the purposes of designation of the area, and (c) provide a foundation for spiritual, educational, recreational, and visitor opportunities, all of which must be environmentally and culturally comparable.  
Category III: an area of land and/or sea containing one or more specific natural or natural/cultural features which are of outstanding or unique value because of their inherent rarity, representative or aesthetic qualities, or cultural significance.  
Category IV: an area of land and/or sea subject to active intervention for management purposes so as to ensure the maintenance of habitats and/or to meet the requirements of specific species. |

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Category V: an area of land with coast and sea as appropriate, where the interaction of people and nature over time has produced an area of distinct character with significant aesthetic, ecological, and/or cultural value, and often with high biological diversity. Safeguarding the integrity of this traditional interaction is vital to the protection, maintenance, and evolution of such an area.

Category VI: an area of land and/or sea containing predominantly unmodified natural systems, managed to ensure long-term protection and maintenance of biological diversity, while providing at the same time a sustainable flow of natural products and services to meet community needs.

<table>
<thead>
<tr>
<th>National class</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate land</td>
<td>An ownership class of private lands owned by entities that are legally incorporated. Recent divestitures of industry lands to Timber Investment Management Organizations (TIMOs) and Real Estate Investment Trusts (REITs) have clouded the picture for assessing what was once forest industry lands relative to long-term management. Studies are planned to investigate these changes and their implications. Note: Although other forest lands may have production as a primary purpose, no defining data currently exist.</td>
</tr>
<tr>
<td>Public forest land (as representative of the permanent forest estate)</td>
<td>It is assumed that all public forest land will remain in forest cover to the extent feasible. Some areas may be designated for recreation or spiritual purposes but will generally retain tree cover for these purposes. Rarely, forest cover may be removed on these lands for restoration of historically significant landscapes to a specified state.</td>
</tr>
</tbody>
</table>

### Original data

<table>
<thead>
<tr>
<th>Categories</th>
<th>Area (000 acres)</th>
<th>Area (000 hectares)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest area within protected areas</td>
<td>44,354</td>
<td>51,442</td>
</tr>
<tr>
<td>Forest area under sustainable forest mgmt</td>
<td>306,810</td>
<td>326,395</td>
</tr>
<tr>
<td>All public forest</td>
<td>306,810</td>
<td>307,756</td>
</tr>
<tr>
<td>SFI certified forest</td>
<td>ID</td>
<td>18,639</td>
</tr>
<tr>
<td>Forest area with management plan</td>
<td>457,319</td>
<td>483,493</td>
</tr>
<tr>
<td>of which :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All public forest</td>
<td>306,810</td>
<td>307,756</td>
</tr>
<tr>
<td>All private planted forest</td>
<td>25,527</td>
<td>40,227</td>
</tr>
<tr>
<td>Corporate natural forest</td>
<td>106,095</td>
<td>108,976</td>
</tr>
<tr>
<td>70% of corporate natural forest</td>
<td>74,267</td>
<td>76,283</td>
</tr>
<tr>
<td>Noncorporate natural forest</td>
<td>253,578</td>
<td>296,133</td>
</tr>
<tr>
<td>20% of noncorporate natural forest</td>
<td>50,716</td>
<td>59,227</td>
</tr>
<tr>
<td>ID= Insufficient data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Data interpolated.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

| Area of permanent forest estate | Includes all public forest |
| Forest area within protected areas | Includes all reserved forest (IUCN 1-5 only) |
| Forest area under sust. forest mgmt | All public forest plus SFI certified forest (predominantly private) (www.sfiprogram.org) |

ID= Insufficient data
Forest area with management plan

| Forest area with management plan | Includes all public forest, all planted private forest, 70% of corporate natural forest and 20% of noncorporate private natural forest land. |

**Analysis and processing of national data**

**Estimation and forecasting**

no forecasting was used

**Reclassification into FRA 2020 categories**

Area was transformed from acres to ha using a 0.4047 conversion factor. Forest with a management plan was assumed to include all public forest (management plans required by law), all private planted forest (generally, planted private forestland has a production aspect associated with it or some form of wildlife habitat management), 70% of corporate natural forest (nearly all corporate forest will have management plans associated with it as part of their business model); and 20% of noncorporate natural forest (this percent is an educated assessment based on the results of our national woodland owner survey).
### Comments

Data from 2016 were carried forward to 2020. Future reporting should allow for updating these numbers annually.

<table>
<thead>
<tr>
<th>FRA categories</th>
<th>Area (1000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest area within protected areas</td>
<td>17 950.00</td>
</tr>
<tr>
<td>Forest area with long-term forest management plan</td>
<td>185 077.00</td>
</tr>
<tr>
<td>...of which in protected areas</td>
<td>17 950.00</td>
</tr>
</tbody>
</table>
## 4 Forest ownership and management rights

### 4a Forest ownership

#### National Data

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

<table>
<thead>
<tr>
<th>#</th>
<th>References to sources of information</th>
<th>Variable(s)</th>
<th>Year(s)</th>
<th>Additional comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2012. <em>(See reference in Table 1.)</em></td>
<td>Forest Area &amp; Ownership</td>
<td>2012</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2012 U.S. national assessment. Represents FRA data for 2015.</td>
</tr>
<tr>
<td>3</td>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2007. <em>(See reference in Table 1.)</em></td>
<td>As above</td>
<td>2007</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2007 U.S. national assessment. Represents FRA data for 2010.</td>
</tr>
<tr>
<td>4</td>
<td>FIADB national database <a href="http://fia.fs.fed.us">http://fia.fs.fed.us</a> Forest Resources of the United States, 2002. <em>(See reference in Table 1.)</em></td>
<td>As above</td>
<td>2002</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 2002 U.S. national assessment. Represents FRA data for 2005.</td>
</tr>
<tr>
<td>5</td>
<td>Forest Resources of the United States, 1997. <em>(See reference in Table 1.)</em></td>
<td>As above</td>
<td>1997</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 1997 U.S. national assessment. Represents FRA data for 2000.</td>
</tr>
<tr>
<td>6</td>
<td>Forest Statistics of the United States, 1987. <em>(See reference in Table 1.)</em></td>
<td>As above</td>
<td>1987</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 1987 U.S. national assessment. Represents FRA data for 1990.</td>
</tr>
</tbody>
</table>

#### National classification and definitions

<table>
<thead>
<tr>
<th>National class</th>
<th>Definition</th>
</tr>
</thead>
</table>
| Public | Includes:  
Federal--An ownership class of public lands owned by agencies of the U.S. Government.  
State--An ownership class of public lands owned by States or lands leased by States for more than 50 years.  
County and municipal--An ownership class of public lands owned by counties or local public agencies, or lands leased by these governmental units for more than 50 years. |
| Private corporate | An ownership class of forest land that is owned by entities that are legally incorporated. Includes lands previously reported as “forest industry”. |
| Private noncorporate | An ownership class of private lands that are not owned by corporate interests. Includes Native American lands, unincorporated partnerships, clubs, lands leased by corporate interests, etc. |
| Native American (Tribal) | *(a) Lands held in trust by the United States or individual States for Native American tribes or individual Native Americans; (b) Lands owned in fee by Native American tribes whether subject to Federal or State restrictions against alienation or not. Due to insufficient data, this category included in private noncorporate for this report.* |

#### Original data

*For 2020: THOUS AC*

<table>
<thead>
<tr>
<th>All ownerships</th>
<th>Total public</th>
<th>Total federal</th>
<th>National forest</th>
<th>Bureau of Land Management</th>
<th>Other</th>
<th>State</th>
<th>County and municipal</th>
<th>Total private</th>
<th>Private corporate</th>
<th>Private noncorporate</th>
</tr>
</thead>
<tbody>
<tr>
<td>765492.9832</td>
<td>322011.484</td>
<td>237860.3237</td>
<td>144868.4006</td>
<td>37559.03184</td>
<td>55432.89121</td>
<td>70464.01882</td>
<td>13687.14153</td>
<td>443481.4992</td>
<td>155748.0438</td>
<td>287733.4554</td>
</tr>
</tbody>
</table>

**2015 data**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest</td>
<td>747,343</td>
<td>750,028</td>
<td>753,045</td>
<td>762,837</td>
<td>766,234</td>
<td>302,450</td>
<td>303,536</td>
<td>304,757</td>
<td>308,720</td>
<td>310,095</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Of which:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public</td>
<td>306,810</td>
<td>307,756</td>
<td>308,713</td>
<td>311,162</td>
<td>312,167</td>
<td>124,166</td>
<td>124,549</td>
<td>124,936</td>
<td>129,974</td>
<td>129,976</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate</td>
<td>121,200</td>
<td>131,197</td>
<td>146,129</td>
<td>141,543</td>
<td>147,468</td>
<td>49,050</td>
<td>53,095</td>
<td>59,138</td>
<td>57,283</td>
<td>59,680</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribal</td>
<td>14,000</td>
<td>14,251</td>
<td>14,500</td>
<td>14,994</td>
<td>16,000</td>
<td>5,666</td>
<td>5,767</td>
<td>5,868</td>
<td>6,068</td>
<td>6,475</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other wooded land</td>
<td>37,189</td>
<td>38,490</td>
<td>38,180</td>
<td>39,442</td>
<td>52,580</td>
<td>15,050</td>
<td>15,577</td>
<td>15,452</td>
<td>15,962</td>
<td>21,279</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other land</td>
<td>1,479,347</td>
<td>1,475,362</td>
<td>1,472,654</td>
<td>1,461,601</td>
<td>1,445,065</td>
<td>598,692</td>
<td>597,079</td>
<td>595,983</td>
<td>591,510</td>
<td>584,818</td>
<td></td>
<td></td>
</tr>
<tr>
<td>...of which with tree cover</td>
<td>63,742</td>
<td>64,713</td>
<td>65,698</td>
<td>66,699</td>
<td>67,000</td>
<td>25,796</td>
<td>26,189</td>
<td>26,588</td>
<td>26,993</td>
<td>27,115</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inland water bodies</td>
<td>116,163</td>
<td>116,163</td>
<td>116,163</td>
<td>116,163</td>
<td>116,163</td>
<td>47,011</td>
<td>47,011</td>
<td>47,011</td>
<td>47,011</td>
<td>47,011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,380,042</td>
<td>2,380,042</td>
<td>2,380,042</td>
<td>2,380,042</td>
<td>2,380,042</td>
<td>963,203</td>
<td>963,203</td>
<td>963,203</td>
<td>963,203</td>
<td>963,203</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conversion factor for hectares is acres × 0.4047

From the Multi-year DB with adjustments to 1987 data and estimates of tribal removed from private forest

### Forest by owner

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1_NationalForest</td>
<td>136,834,596</td>
<td>144,408,506</td>
<td>143,921,115</td>
<td>144,814,794</td>
<td>145,228,856</td>
</tr>
<tr>
<td>2_BLM</td>
<td>5,244,222</td>
<td>41,964,078</td>
<td>37,724,419</td>
<td>42,331,434</td>
<td>38,104,054</td>
</tr>
<tr>
<td>3_OtherFederal</td>
<td>16,559,335</td>
<td>51,919,452</td>
<td>54,299,054</td>
<td>54,201,334</td>
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<td>13,220,595</td>
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### Forest by owner

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### Analysis and processing of national data

#### Estimation and forecasting

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#### Reclassification into FRA 2020 categories

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</table>
## Comments

Unknown were from previous years’ data. My best guess is that cruisers were unable to determine the owner from the property records or were unable to locate the landowner on site. Most likely it is privately owned.
4b Holder of management rights of public forests

National Data

Data sources + type of data source eg NFI, etc

<table>
<thead>
<tr>
<th>#</th>
<th>References to sources of information</th>
<th>Variable(s)</th>
<th>Year(s)</th>
<th>Additional comments</th>
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<td>As above</td>
<td>1997</td>
<td>Forest data compiled from most recent inventory data to be used as basis for 1997 U.S. national assessment. Represents FRA data for 2000.</td>
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</table>

National classification and definitions

In general, ownership in the United States confers management rights simultaneously. One exception may be water rights in the western United States, but as that doesn’t necessarily restrict forestry applications it is not considered here. Thus, public forest in the United States is managed by public entities

<table>
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<tr>
<th>National class</th>
<th>Definition</th>
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<tr>
<td>Public</td>
<td>Includes: Federal—An ownership class of public lands owned by agencies of the U.S. Government. State—An ownership class of public lands owned by States or lands leased by States for more than 50 years. County and municipal—An ownership class of public lands owned by counties or local public agencies, or lands leased by these governmental units for more than 50 years.</td>
</tr>
<tr>
<td>Private corporate</td>
<td>An ownership class of forest land that is owned by entities that are legally incorporated. Includes lands previously reported as “forest industry”.</td>
</tr>
<tr>
<td>Private noncorporate</td>
<td>An ownership class of private lands that are not owned by corporate interests. Includes Native American lands, unincorporated partnerships, clubs, lands leased by corporate interests, etc.</td>
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<tr>
<td>Native American (Tribal)</td>
<td>(a) Lands held in trust by the United States or individual States for Native American tribes or individual Native Americans; (b) Lands owned in fee by Native American tribes whether subject to Federal or State restrictions against alienation or not. Due to insufficient data, this category included in private noncorporate for this report.</td>
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Original data

For 2020: THOUS AC

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<th>Other</th>
<th>State</th>
<th>County and municipal</th>
<th>Total private</th>
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2015 data

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From the Multi-year DB with adjustments to 1987 data and estimates of tribal removed from private forest

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Conversion factor for hectares is acres x 0.4047
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<td>111,641</td>
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<td>Federal</td>
<td>136,834,596</td>
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<td>54,201,334</td>
<td>55,136,183</td>
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<td>747,343,347</td>
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<td>762,836,930</td>
<td>766,234,243</td>
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From the Multi-year DB with adjustments to 1987 data and estimates of tribal removed from private forest

Conversion factor for hectares is acres x 0.4047
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### FRA categories

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<th>2015</th>
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<td>0.00</td>
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<tr>
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<td>129 974.00</td>
<td>129 976.00</td>
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</table>

### Comments

In the United States, publicly owned land is managed by public agencies, whether State, Federal, or other entities. Tribal land is not public.
## 5 Forest disturbances

### 5a Disturbances

#### National Data

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


**National classification and definitions**

Primary disturbance 1 code. A code indicating the kind of disturbance occurring since the last measurement or within the last 5 years for new plots. The area affected by the disturbance must be at least 1 acre in size. A significant level of disturbance (mortality or damage to 25 percent of the trees in the condition) is required. Populated for all forested conditions using the National Field Guide protocols (PLOT.MANUAL >=1.0) and populated by some FIA work units where PLOT.MANUAL <1.0. Codes 11, 12, 21, and 22 are valid where PLOT.MANUAL >=2.0.

**Original data**

EVALIdator Version 1.7.2.00 - View report

2018 (incomplete)

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### FRA 2020 report, United States of America

#### South Central: Virginia
- 6,757,894
- 3,499,654
- 11,041
- 257,371
- 79,551
- 4,412
- 16,641

#### South Central: Alabama
- 5,733,163
- 4,819
- 95,624
- 1,510

#### South Central: Kentucky
- -
- -
- -
- -

#### South Central: Louisiana
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- -
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#### South Central: Mississippi
- 3,499,654
- 75,579
- 1,137
- 132,813
- 79,554
- 65,288

#### South Central: Oklahoma
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#### South Central: Tennessee
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#### South Central: Texas
- 75,579
- 95,624
- 1,137
- 132,813
- 79,554
- 65,288
- 1,510

#### Great Plains: Kansas
- 88,800
- 7,623
- 73,515

#### Great Plains: Nebraska
- 15,626
- 128,855

#### Great Plains: North Dakota
- 52,201
- 9,638

#### Great Plains: South Dakota
- 5,944
- 25,970
- 14,241

#### Intermountain: Arizona
- 1,013,448
- 19,377
- 52,180
- 47,199

#### Intermountain: Colorado
- 418,637
- 245,219
- 68,800
- 96,800

#### Intermountain: Idaho
- 191,778
- 231,741
- 16,007
- 17,734

#### Intermountain: Montana
- 133,788
- 13,278

#### Intermountain: Nevada
- 30,610
- 15,132

#### Intermountain: New Mexico
- -

#### Intermountain: Utah
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#### Intermountain: Wyoming
- 88,800
- 7,623
- 73,515

#### Alaska: Alaska
- -

#### Pacific Northwest: Oregon
- -

#### Pacific Northwest: Washington
- -

#### Pacific Southwest: California
- 2,990,896
- 333,370
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#### Pacific Southwest: Hawaii
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#### Other
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### 2016 (incomplete)

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Great Plains: Nebraska 694,827 184,656 15,244 - 18,183 476,744 - - -
Great Plains: North Dakota 414,948 233,673 37,306 - - 123,908 - - -
Great Plains: South Dakota 863,861 369,845 76,899 - - 366,162 18,121 4,465 28,370 -
Intermountain: Arizona 3,335,548 2,887,229 107,998 72,282 263,503 - 4,536 - - -
Intermountain: Colorado 5,810,414 3,730,962 1,359,595 524,592 105,073 - 42,956 38,247 8,989 -
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**2012 Estimate:**

**Primary disturbance**

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2011

Estimate:

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**Note:** The data represents population and some additional details for each state and region. The table includes columns for region, state, population, density, area, Gini coefficient, urbanization, non-urbanization, and total.
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### Intermountain: Arizona
- Total: 12,585,542
- None: 9,243,977
- Insects: 793,339
- Disease: 389,990
- Fire: 1,515,245
- Animal: 115,290
- Weather: 474,606
- Other: -
- Human: 53,985
- Not available: -
- Total: 183,892

### Intermountain: Colorado
- Total: 23,656,432
- None: 18,551,557
- Insects: 2,690,933
- Disease: 995,825
- Fire: 598,113
- Animal: 283,393
- Weather: 352,719
- Other: -
- Human: -
- Not available: -
- Total: 17,386

### Intermountain: Idaho
- Total: 10,794,394
- None: 9,562,892
- Insects: 578,155
- Disease: 296,611
- Fire: 343,123
- Animal: 13,613
- Weather: -
- Other: -
- Human: -
- Not available: -
- Total: 74,194

### Intermountain: Nevada
- Total: 3,553,683
- None: 3,327,047
- Insects: -
- Disease: 53,973
- Fire: 172,663
- Animal: -
- Weather: -
- Other: -
- Human: -
- Not available: -
- Total: 13,921

### Intermountain: New Mexico
- Total: 6,932,758
- None: 5,583,856
- Insects: 546,747
- Disease: 304,954
- Fire: 304,954
- Animal: 92,393
- Weather: 93,184
- Other: 30,784
- Human: 75,991
- Not available: -
- Total: 46,446

### Intermountain: Utah
- Total: 10,794,394
- None: 9,562,892
- Insects: 578,155
- Disease: 296,611
- Fire: 343,123
- Animal: 13,613
- Weather: -
- Other: -
- Human: -
- Not available: -
- Total: 74,194

### Intermountain: Wyoming
- Total: -
- None: -
- Insects: -
- Disease: -
- Fire: -
- Animal: -
- Weather: -
- Other: -
- Human: -
- Not available: -
- Total: -

### Alaska: Alaska
- Total: 3,573,794
- None: 3,435,201
- Insects: 25,954
- Disease: 22,188
- Fire: 18,819
- Animal: 47,765
- Weather: -
- Other: 9,947
- Human: -
- Not available: -
- Total: 13,921

### Pacific Northwest: Oregon
- Total: 9,484,004
- None: 7,805,214
- Insects: 152,385
- Disease: 790,117
- Fire: 460,871
- Animal: 87,573
- Weather: 104,198
- Other: 34,437
- Human: 21,590
- Not available: -
- Total: 27,618

### Pacific Northwest: Washington
- Total: 7,004,702
- None: 5,522,549
- Insects: 434,916
- Disease: 426,288
- Fire: 290,869
- Animal: 101,687
- Weather: 203,959
- Other: -
- Human: -
- Not available: -
- Total: 12,373

### Pacific Southwest: California
- Total: 10,175,991
- None: 7,624,574
- Insects: 127,891
- Disease: 730,507
- Fire: 492,187
- Animal: 896,594
- Weather: 203,676
- Other: -
- Human: -
- Not available: -
- Total: 46,446

### Pacific Southwest: Hawaii
- Total: -
- None: -
- Insects: -
- Disease: -
- Fire: -
- Animal: -
- Weather: -
- Other: -
- Human: -
- Not available: -
- Total: -

### Other
- Total: 373,451
- None: 329,232
- Insects: -
- Disease: -
- Fire: 22,102
- Animal: -
- Weather: 5,418
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- Not available: -
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2004 (incomplete)
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### Other

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**2001 (incomplete)**

#### Estimate:

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capacity | Inactive | Other Non-
backed | Total Non-
backed | Other Non-
backed | Total Non-
backed | Total Non-
backed | Total Non-
backed | Total Non-
backed |
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</table>
### Population Estimate Description

Forest land: Land at least 10-percent stocked by trees of any size, including land that formerly had such tree cover and that will be naturally or artificially regenerated. Forest land includes transition zones, such as areas between heavily forested and nonforested lands that are at least 10-percent stocked with trees and forest areas adjacent to urban and built-up lands. Also included are pinyon-juniper and chaparral areas in the West and afforested areas. The minimum area for classification of forest land is 1 acre and 120 feet wide measured stem-to-stem from the outer-most edge. Unimproved roads and trails, streams, and clearings in forest areas are classified as forest if less than 120 feet wide.

### Page classification variable description

Inventory year

### Row classification variable description

RPA Subregion State:

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<td>Northeast: Connecticut</td>
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<td>Southeast: Florida</td>
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<td>Region</td>
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<td>Wisconsin</td>
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</table>
Column classification variable description

Primary disturbance 1 code. A code indicating the kind of disturbance occurring since the last measurement or within the last 5 years for new plots. The area affected by the disturbance must be at least 1 acre in size. A significant level of disturbance (mortality or damage to 25 percent of the trees in the condition) is required. Populated for all forested conditions using the National Field Guide protocols (PLOT.MANUAL >=1.0) and populated by some FIA work units where PLOT.MANUAL <1.0. Codes 11, 12, 21, and 22 are valid where PLOT.MANUAL >=2.0.

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<td>80</td>
<td>Human-caused damage - any significant threshold of human-caused damage not described in the DISTURBANCE codes or in the TREATMENT codes.</td>
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</table>
Sampling design/estimation method: post-stratification, as described in:


Web citation:

SQL Script

Analysis and processing of national data

Estimation and forecasting
no forecasting

Reclassification into FRA 2020 categories

annual inventory data were used; please note not all inventory years are complete collections of all states. Please see original data to see which states are included by year. Data were converted to hectares from acres. “other” disturbance is a combination of fire, animal, human and “other / unknown” categories from national inventory.
## Comments

Data are complete for 2011, 2012, 2013, 2015. All other inventory years are incomplete, resulting in underestimates of disturbance for those years. Please see original data to see which states are included by year. Other includes: animal, human and 'other' disturbance.

### FRA categories

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<tr>
<td>Diseases (b)</td>
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<tr>
<td>Severe weather events (c)</td>
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</tr>
<tr>
<td>Other (specify in comments) (d)</td>
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<td><strong>Total forest area</strong></td>
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## FRA categories

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<tr>
<td>Other (specify in comments) (d)</td>
<td>3 102.00</td>
<td>3 085.00</td>
<td>6 003.00</td>
<td>5 243.00</td>
<td>6 171.00</td>
<td>6 590.00</td>
<td>9 319.00</td>
<td>8 478.00</td>
<td>8 220.00</td>
<td>10 443.00</td>
<td>10 764.00</td>
<td>11 858.00</td>
<td>10 757.00</td>
<td>7 908.00</td>
<td>5 554.00</td>
<td>4 361.00</td>
</tr>
<tr>
<td>Total (a+b+c+d)</td>
<td>8 252.00</td>
<td>6 293.00</td>
<td>12 858.00</td>
<td>13 006.00</td>
<td>15 124.00</td>
<td>16 125.00</td>
<td>23 862.00</td>
<td>20 244.00</td>
<td>21 768.00</td>
<td>26 677.00</td>
<td>27 113.00</td>
<td>29 377.00</td>
<td>27 408.00</td>
<td>22 816.00</td>
<td>17 891.00</td>
<td>14 269.00</td>
</tr>
<tr>
<td>Total forest area</td>
<td>303 536.00</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## Comments

Data prior to 2009 are not complete, resulting in underestimates of disturbance from those years. 2010 is complete except the state of Wyoming, 2011 was complete. Other includes: animal, human and "other" disturbance.

** Includes Alaska coast only, not Interior. Includes Hawaii.
5b Area affected by fire

National Data

Data sources + type of data source eg NFI, etc
National Interagency Coordination Center (NICC)

The National Interagency Coordination Center at NIFC compiles annual wildland fire statistics for federal and state agencies. This information is provided through Situation Reports, which have been in use for several decades. Prior to 1983, sources of these figures are not known, or cannot be confirmed, and were not derived from the current situation reporting process. As a result the figures prior to 1983 should not be compared to later data.

National classification and definitions

Wildfires listed here include number of fires and acres burned, but is not indicative of the severity of the wildfire or the impact to forest and other resources.

"Of the more than 1.6 million wildfires that have occurred since 1997, approximately 170 exceeded 100,000 acres, and 12 exceeded 500,000 acres. Only a small fraction of wildfires become catastrophic, and a small percentage of fires accounts for the vast majority of acres burned. For example, only about 1% of wildfires become conflagrations—raging, destructive fires—but predicting which fires will “blow up” into conflagrations is challenging and depends on a multitude of factors, such as weather and geography. In 2017, 2.0% of wildfires were classified as large or significant (1,409) and 51 wildfires exceeded 40,000 acres in size, 12 of which also exceeded 100,000 acres. There were fewer large or significant wildfires in 2016: 1,251 (1.8% of the total fires that year), 19 of which exceeded 40,000 acres in size and 6 of which exceeded 100,000 acres.” Text from the Congressional Research Service September 4, 2018. Katie Hoover, khoover@crs.loc.gov, 7-9008

Original data

Total Wildland Fires and Acres (1926-2017)

The National Interagency Coordination Center at NIFC compiles annual wildland fire statistics for federal and state agencies. This information is provided through Situation Reports, which have been in use for several decades. Prior to 1983, sources of these figures are not known, or cannot be confirmed, and were not derived from the current situation reporting process. As a result the figures prior to 1983 should not be compared to later data.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fires</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>92,487</td>
<td>5,626,093</td>
</tr>
<tr>
<td>2000</td>
<td>92,250</td>
<td>7,393,493</td>
</tr>
<tr>
<td>2001</td>
<td>84,079</td>
<td>3,570,911</td>
</tr>
<tr>
<td>2002</td>
<td>73,457</td>
<td>7,184,712</td>
</tr>
<tr>
<td>2003</td>
<td>63,629</td>
<td>3,960,842</td>
</tr>
<tr>
<td>2004</td>
<td>65,461</td>
<td><em>8,097,880</em></td>
</tr>
<tr>
<td>2005</td>
<td>66,753</td>
<td>8,689,389</td>
</tr>
<tr>
<td>2006</td>
<td>96,385</td>
<td>9,873,745</td>
</tr>
<tr>
<td>2007</td>
<td>85,705</td>
<td>9,328,045</td>
</tr>
<tr>
<td>2008</td>
<td>78,979</td>
<td>5,292,468</td>
</tr>
<tr>
<td>2009</td>
<td>78,792</td>
<td>5,921,786</td>
</tr>
<tr>
<td>2010</td>
<td>71,971</td>
<td>3,422,724</td>
</tr>
<tr>
<td>2011</td>
<td>74,126</td>
<td>8,711,367</td>
</tr>
<tr>
<td>2012</td>
<td>67,774</td>
<td>9,326,238</td>
</tr>
<tr>
<td>2013</td>
<td>47,579</td>
<td>4,319,546</td>
</tr>
<tr>
<td>Year</td>
<td>Acres</td>
<td>Hectares</td>
</tr>
<tr>
<td>------</td>
<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>2014</td>
<td>63,312</td>
<td>3,595,613</td>
</tr>
<tr>
<td>2015</td>
<td>68,151</td>
<td>10,125,149</td>
</tr>
<tr>
<td>2016</td>
<td>67,743</td>
<td>5,509,995</td>
</tr>
<tr>
<td>2017</td>
<td>71,499</td>
<td>10,026,086</td>
</tr>
</tbody>
</table>

**Analysis and processing of national data**

- **Estimation and forecasting**
  - no forecasting

- **Reclassification into FRA 2020 categories**
  - conversion from acres to ha.
Comments
Previously Brad used RSAC overlay with MTBS and FIA forest types. I am really not sure why, since NIFC is generally the accepted wildfire statistics source, and is used in all domestic applications.

Total land area affected by fire is undoubtably higher than forest affected by fire, but I was not able to find that information split out for other land use types.

<table>
<thead>
<tr>
<th>FRA categories</th>
<th>Area (1000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total land area affected by fire</td>
<td>2 992.15</td>
</tr>
<tr>
<td>...of which on forest</td>
<td>2 992.15</td>
</tr>
</tbody>
</table>
# 5c Degraded forest

<table>
<thead>
<tr>
<th>Does your country monitor area of degraded forest</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>If &quot;yes&quot;</td>
<td></td>
</tr>
<tr>
<td>What is the national definition of &quot;Degraded forest&quot;?</td>
<td>Forest degradation - A direct human-induced long-term loss (persisting for X years or more) of at least Y % of forest carbon stocks (and forest values) since time T and not qualifying as deforestation or an elected activity under Article 3.4 of the Kyoto Protocol (Schoene et al. 2007) and (Mollicone and Souza 2007).</td>
</tr>
<tr>
<td>Describe the monitoring process and results</td>
<td>We do not directly measure degraded forest but we do measure the components necessary to calculate some degradation matrix of the sort described in Lund 2009.</td>
</tr>
</tbody>
</table>

**Comments**

https://www.researchgate.net/profile/Gyde_Lund/publication/280921178_What_is_a_degraded_forest/links/55cb3b4d08aebc967dfcadb2/What-is-a-degraded-forest
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

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clean Water Act (42 U.S.C. 7401–7626) consists of Public Law 159 (July 14, 1955; 68 Stat.322) and the amendments made by subsequent enactments.</td>
<td>Legislation and regulations supporting sustainable forest management</td>
</tr>
<tr>
<td>2</td>
<td>Endangered Species Act (7 U.S.C.136; 16 U.S.C.460 et seq.)</td>
<td>Legislation and regulations supporting sustainable forest management</td>
</tr>
<tr>
<td>3</td>
<td>National Environmental Policy Act [42 U.S.C. 4321 et seq.]</td>
<td>Policies or strategies that explicitly encourage sustainable forest management.</td>
</tr>
</tbody>
</table>

State-level Best Management Practices

- Policies or strategies that explicitly encourage sustainable forest management. Varies by state. Varies by state, and level of compliance required varies by state. Some state BMPs are required while others are voluntary. Primarily relates to water quality, but also to reforestation and sustainable management.

Healthy Forests Restoration Act

- Policies or strategies that explicitly encourage sustainable forest management. 2003-current | Provisions to speed up restoration planning and projects on at-risk Federal land |

Cooperative Forestry Assistance Act of 1978, as amended through 2008

- Policies or strategies that explicitly encourage sustainable forest management. 1978-current | Provides USDA Secretary of Agriculture authorization to provide assistance on non-federal lands for a variety of programs including protection of ecologically valuable and threatened lands, planning, prevention of insects and disease, and other management priorities. |

Stakeholder participation sources:


National classification and definitions

- Policies supporting sustainable forest management: Generally, the National Environmental Policy Act (NEPA), Public Law 91-190, 42 U.S.C. 4321-4347 can be considered a national policy statement. The Act establishes a national policy for the environment and provides for the establishment of a Council on Environmental Quality.
- Policies supporting sustainable forest management: Voluntary State-level Best Management Practices and State Forestry Agency environmental policies may be considered state-level policy statements. Local-level policy may apply to privately owned land and municipality lands. Regionally and sub-regionally, policies may apply to particular features, for example a large watershed or mountain range.
- Policies supporting sustainable forest management: Forest management plans are requirements in all programs for private market certification, e.g. Forest Stewardship Council, Sustainable Forestry Initiative, and American Tree Farm System.
Legislation and regulations supporting sustainable forest management

There are over 100 national laws and regulations relating to natural resource management in the United States, and all may be considered to support sustainable management of forests. We have listed several examples, but could not list all applicable laws and regulations.

**National stakeholder platform**

The National Environmental Policy Act of 1970 (NEPA, Public Law 91-190, 42 U.S.C. 4321-4347) stipulates planning documentation and public participation guidelines for national, regional and local projects with anticipated environmental impacts. This extends to national level policy initiatives such as revisions to the U.S. Forest Service’s forest planning rule. Through public hearings, public comment and review of planning documents (Environmental Impact Statements) and related mechanisms, various and diverse stakeholders can and do provide perspectives and advocate interests in the national policy development process. Policy decisions can be legally challenged on the basis of inadequate public input or failure to adequately address valid perspectives.

On a more informal basis, national stakeholder groups, roundtables and similar bodies interact with federal agencies in forest policy formation on a regular basis. Notable among these is the Roundtable on Sustainable Forests.

---

**Original data**

<table>
<thead>
<tr>
<th>FRA 2015 category</th>
<th>Check boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policies supporting sustainable forest management</td>
<td>X Yes X Yes X Yes X Yes</td>
</tr>
<tr>
<td>... of which, in publicly owned forests</td>
<td>X Yes X Yes X Yes x Yes</td>
</tr>
<tr>
<td>... of which, in privately owned forests</td>
<td>X Yes X Yes X Yes x Yes</td>
</tr>
<tr>
<td>Legislation and regulations supporting sustainable forest management</td>
<td>X Yes Yes X Yes x Yes</td>
</tr>
<tr>
<td>... of which, in publicly owned forests</td>
<td>X Yes Yes x Yes x Yes</td>
</tr>
<tr>
<td>... of which, in privately owned forests</td>
<td>X Yes Yes x Yes x Yes</td>
</tr>
</tbody>
</table>
## Indicate the existence of

<table>
<thead>
<tr>
<th>Indicate the existence of</th>
<th>Boolean (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>National</td>
</tr>
<tr>
<td>Policies supporting SFM</td>
<td>Yes</td>
</tr>
<tr>
<td>Legislations and regulations supporting SFM</td>
<td>Yes</td>
</tr>
<tr>
<td>Platform that promotes or allows for stakeholder participation in forest policy development</td>
<td>Yes</td>
</tr>
<tr>
<td>Traceability system(s) for wood products</td>
<td>No</td>
</tr>
</tbody>
</table>

## Comments
# 6b Area of permanent forest estate

## National Data

<table>
<thead>
<tr>
<th>Data sources + type of data source eg NFI, etc</th>
<th>Forest Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butler, Brett J. 2017 Family Forest Owners of the United States</td>
<td>Forest ownership objectives 2017 This report summarizes results from the U.S. Forest Service’s National Woodland Owner Survey of the estimated 10 million family forest owners who own 35 percent of forest land in the U.S. Information on forest owner characteristics, ownership histories, ownership objectives, forest uses and forest management practices.</td>
</tr>
<tr>
<td>Conservation Biology Institute, Protected Areas Database PAD <a href="http://www.consbio.org">http://www.consbio.org</a></td>
<td>Protected areas 2010, current This polygon data set was overlaid on the U.S. forest inventory plot grid to classify plot and area data for IUCN categories 1-5 to verify national inventory data.</td>
</tr>
<tr>
<td>National Forest Systems Roadless Area Database</td>
<td>NFS Roadless areas 2002, current This polygon data set was overlaid on the U.S. forest inventory plot grid to classify plot and area data as forest/nonforest for National Forest Systems roadless areas. Considered IUCN class 6.</td>
</tr>
</tbody>
</table>

## National classification and definitions

Public forest land (as representative of the permanent forest estate) It is assumed that all public forest land will remain in forest cover to the extent feasible. Some areas may be designated for recreation or spiritual purposes but will generally retain tree cover for these purposes. Rarely, forest cover may be removed on these lands for restoration of historically significant landscapes to a specified state.

## Original data

<table>
<thead>
<tr>
<th>Categories</th>
<th>Original data</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020, thous ac, from RPADB</td>
<td></td>
</tr>
<tr>
<td>All ownerships</td>
<td>Total public</td>
</tr>
<tr>
<td>765,492.98</td>
<td>322,011.48</td>
</tr>
<tr>
<td>Conversion to thous ha</td>
<td></td>
</tr>
<tr>
<td>309,795.01</td>
<td>130,318.05</td>
</tr>
</tbody>
</table>

Previous data
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Area of permanent forest estate</strong></td>
<td>306,810</td>
<td>307,756</td>
<td>308,713</td>
<td>321,162</td>
<td>321,167</td>
<td>124,166</td>
<td>124,549</td>
<td>124,936</td>
<td>129,974</td>
<td>129,976</td>
<td>44,354</td>
<td>51,442</td>
<td>63,064</td>
<td>74,685</td>
<td>73,520</td>
</tr>
<tr>
<td><strong>SFI certified forest</strong></td>
<td>-</td>
<td>18,369</td>
<td>46,207</td>
<td>55,675</td>
<td>63,435</td>
<td>0</td>
<td>7,434</td>
<td>18,700</td>
<td>22,532</td>
<td>25,672</td>
<td>18,369</td>
<td>46,207</td>
<td>55,675</td>
<td>63,435</td>
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</tr>
<tr>
<td><strong>Forest area with management plan</strong></td>
<td>427,128</td>
<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
<td>176,869</td>
<td>185,642</td>
<td>190,872</td>
<td>199,991</td>
<td>202,342</td>
<td>427,128</td>
<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
</tr>
<tr>
<td><strong>Forest area under sustainable forest mgmt</strong></td>
<td>427,128</td>
<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
<td>176,869</td>
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<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
</tr>
<tr>
<td><strong>Forest area within protected areas</strong></td>
<td>427,128</td>
<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
<td>176,869</td>
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<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
</tr>
<tr>
<td><strong>All public forest</strong></td>
<td>427,128</td>
<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
<td>176,869</td>
<td>185,642</td>
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<td>190,872</td>
<td>199,991</td>
<td>202,342</td>
<td>427,128</td>
<td>448,236</td>
<td>460,211</td>
<td>483,750</td>
<td>489,247</td>
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</table>
### Comments

All public forest is assumed to be permanently designated as a forest land use.

<table>
<thead>
<tr>
<th>FRA 2020 categories</th>
<th>Forest area (1000 ha)</th>
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</thead>
<tbody>
<tr>
<td>Area of permanent forest estate</td>
<td>Yes</td>
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</table>
7 Employment, education and NWFP

7a Employment in forestry and logging

National Data

Data sources + type of data source eg NFI, etc
Data from the U.S. Bureau of Labor Statistics

- NAICS definitions: https://www.bls.gov/cew/bls_naics/v2/bls_naics_app.html#tab=search&naics=2017&keyword=&searchType=indexes&filter=6_filter&sort=text_asc&resultIndex=0
- Industry Employment Data: https://www.bls.gov/cew/data.htm

U.S. Bureau of Labor Statistics | Postal Square Building, 2 Massachusetts Avenue, NE Washington, DC 20212-0001

Design

QCEW universe of business establishments consists of those establishments which are respondents to the BLS in partnership with the 50 states, the District of Columbia, Puerto Rico, and the U.S. Virgin Islands (a total of 53 entities). The original source of data is the Quarterly Contribution Reports (QCRs) submitted to State Workforce Agencies (SWAs) by employers subject to state and federal unemployment insurance (UI) laws.

For more information about QCEW Design, see the QCEW Handbook of Methods - Design.

Calculation

Data from QCEW are aggregations of various kinds of business establishment data, including geographical, industry, ownership, and establishment size data. QCEW data are not estimates. On occasion, when business establishment data are of poor quality or missing entirely, they may be imputed. Proration is used to handle multiple-establishment employers for whom the top employment and wage levels are known but distribution at the establishment level is unknown.

For more information about QCEW Calculation, see the QCEW Handbook of Methods - Calculation.

Uses and Reliability

Data from the QCEW program serve as an important input to many BLS programs. The QCEW data are used as the benchmark source for employment by the Current Employment Statistics program and the Occupational Employment Statistics program. The UI administrative records collected under the QCEW program serve as a sampling frame for BLS establishment surveys.

In addition, data from the QCEW program serve as an input to other Federal and State programs. The Bureau of Economic Analysis (BEA) of the Department of Commerce uses QCEW data as the base for developing the wage and salary component of personal income. The Employment and Training Administration (ETA) of the Department of Labor and the State workforce agencies use QCEW data to administer the employment security program. The QCEW data accurately reflect the extent of coverage of the State UI laws and are used to measure UI revenues; national, State and local area employment; and total and UI taxable wage trends.

*** Note: Data for the Codes used come form the NAICS descriptions. Data for Logging is NAICS 1133; Data used for Silviculture and other is 1131; Data used for nonwood forest products is 1132; Data used for support services in forestry is 1153.

National classification and definitions

Support Activities for Forestry; 115310

Description

This industry comprises establishments primarily engaged in performing particular support activities related to timber production, wood technology, forestry economics and marketing, and forest protection. These establishments may provide support activities for forestry, such as estimating timber, forest firefighting, forest pest control, and consulting on wood attributes and reforestation.

Index Items

1) Aerial forest mulching or seeding
2) Cruising timber
3) Estimating timber
4) Fire prevention, forest
5) Firefighting, forest
6) Forest management plans preparation
7) Forest thinning
8) Forestry services
9) Pest control services, forestry
10) Reforestation
11) Timber valuation

Cross-Reference
1) Establishments primarily engaged in the public administration and conservation of forest lands are classified in Industry 924120, Administration of Conservation Programs.

Forest Nurseries and Gathering of Forest Products: 113210  [Agriculture, Forestry, Fishing and Hunting Sector: 11]

Description
This industry comprises establishments primarily engaged in (1) growing trees for reforestation and/or (2) gathering forest products, such as gums, barks, balsam needles, rhizomes, fibers, Spanish moss, ginseng, and truffles.

Cross-Reference
Establishments primarily engaged in
1) Gathering tea and maple sap--are classified in U.S. Industry 111998, All Other Miscellaneous Crop Farming; and
2) Processing maple syrup into other products--are classified in Industry 31199, All Other Food Manufacturing.

Index Items
1) Aromatic wood gathering
2) Balsam needles gathering
3) Bark gathering
4) Cherry gum, gathering
5) Chestnut gum, gathering
6) Forest nurseries for reforestation, growing trees
7) Forest nursery for reforestation, growing trees
8) Gathering of forest products (e.g., barks, gums, needles, seeds)
9) Gathering, extracting, and selling tree seeds
10) Ginseng gathering
11) Gum (i.e., forest product) gathering
12) Harvesting berries or nuts from native and non-cultivated plants
13) Harvesting berry or nuts from native and non-cultivated plants
14) Hemlock gum gathering
15) Huckleberry greens, gathering of
16) Moss gathering
17) Nurseries for reforestation growing trees
18) Nursery for reforestation growing trees
19) Pine gum extracting
20) Spanish moss gathering
21) Sphagnum moss gathering
22) Spruce gum gathering
23) Teaberry gathering
24) Teaberry gathering
25) Tree seed extracting
26) Tree seed gathering
27) Tree seed growing for reforestation

Logging: 113310  [Agriculture, Forestry, Fishing and Hunting Sector: 11]

Description

This industry comprises establishments primarily engaged in one or more of the following: (1) cutting timber; (2) cutting and transporting timber; and (3) producing wood chips in the field.

Index Items

1) Cutting and transporting timber
2) Cutting timber
3) Log harvesting
4) Logging
5) Pulpwood logging camps
6) Rails, rough wood, manufacturing
7) Stump removing in the field
8) Timber piling
9) Timber pole cutting
10) Tree chipping in the field
11) Wood chipping in the field

Timber Tract Operations: 113110  [Agriculture, Forestry, Fishing and Hunting Sector: 11]

Description
This industry comprises establishments primarily engaged in the operation of timber tracts for the purpose of selling standing timber.

Cross-Reference

Establishments primarily engaged in

| 1) | Acting as lessors of land with trees as real estate property—-are classified in Industry 531190, Lessors of Other Real Estate Property; |
| 2) | Growing short rotation woody trees (i.e., growing and harvesting cycle is 10 years or less)—are classified in U.S. Industry 111421, Nursery and Tree Production; and |
| 3) | Cutting timber—are classified in Industry 113310, Logging. |

Index Items

| 1) | Timber tract operations |

Employment, Hours, and Earnings from the Current Employment Statistics survey (National)

Series Id: CES1011330001
Seasonally Adjusted
Super Sector: Mining and logging
Industry: Logging
NAICS Code: 1133
Data Type: ALL EMPLOYEES, THOUSANDS

Series IDs

| ENUUS000105113 |
| ENUUS0001051131 |
| ENUUS00010511311 |
| ENUUS000105113110 |
| ENUUS0001051132 |
| ENUUS00010511321 |
| ENUUS000105113210 |
| ENUUS0001051133 |
| ENUUS00010511331 |
| ENUUS000105113310 |

Original data

Previous FRA reporting cycles included this data:

The information on employment in forestry is useful in identifying trends, especially in the context of public expectations, government policies, industry developments and socio-economic dependence.

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<tr>
<th>FRA 2010 Category</th>
<th>Employment (1000 years FTE)</th>
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<tr>
<td></td>
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</table>
## Employment in primary production of goods

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<th>2000</th>
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<td>221.1</td>
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<td>...of which paid employment</td>
<td>237.4</td>
<td>214.5</td>
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<tr>
<td>...of which self-employment</td>
<td>7.3</td>
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<tr>
<td>Employment in management of protected areas</td>
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### Units and reporting years

- **Unit of reporting**: 1000 person-years of full time employment
- **Reporting years**: 1990 and 2000

### Reporting table template

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<tr>
<td><strong>Primary production of goods</strong></td>
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<td><strong>Provision of services</strong></td>
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<tr>
<td><strong>Unspecified forestry activities</strong></td>
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_Sawmills and Planning Mills (General): 312421 & Logging: 312410_


_Fallers: 45-4021 & Logging Equipment Operators: 45-4022 & Log Graders and Sclarers: 45-4023_


_Forest and Conservation Workers: 45-4011_

**ID** Insufficient Data

---

[Diameter at breast height (DBH) refers to diameter over bark measured at a height of 1.30 m above ground level or immediately above buttresses if these are higher than 1.30 m.](#)

[IPCC, Good Practice Guidance for Land Use, Land-Use Change and Forestry (to be published during 2004)](#)

_Data obtained on 4/28/17 at http://www.bls.gov/iag/tgs/iag113.htm#workforce_
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Quarterly Census of Employment and Wages

Series ID: ENUS000105113110
Series Title: All Employees in Private NAICS 1153 Support activities for forestry for All establishment sizes in U.S. TOTAL, NSA
State: U.S. TOTAL
Area: U.S. TOTAL
Industry: NAICS 1153 Support activities for forestry
Owner: Private
Size: All establishment sizes
Type: All Employees

Download:

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Comments

The numbers reported here differ from (and are substantially lower than) numbers included in previous FRA reports because previously, sawmills and wood preservation (NAICS 313211) were included and here they are excluded as directed in the FAQ provided by UN FAO:

Should we include people working in sawmills in the forest?

Generally, people working in sawmill and woodworking industries should not be included. However, small scale work with portable sawmills is a borderline case and countries may decide to include such employment, but if so, a comment should be provided in the report.
7b Graduation of students in forest-related education

National Data

Data sources + type of data source eg NFI, etc


The primary federal entity for collecting and analyzing data related to education in the U.S. and other nations. The higher education data is housed in the Integrated Postsecondary Education Data System (IPEDS). IPEDS provides data on enrollments, program completions, faculty, staff, and finances. These data come from surveys of all institutions and educational organizations whose primary purpose is to provide postsecondary education. IPEDS is the core postsecondary education data collection program of the National Center for Education Statistics (NCES). NCES provides summaries of IPEDS data in the Digest of Education Statistics. Please note that some information may not be up to date, as this information is processed and analyzed after schools provide their reports.

National classification and definitions

Degrees included in the analysis are all graduates in the following Natural Resources and Conservation fields, and related agricultural fields:

- Natural resources and conservation
- Natural resources/conservation, general
- Environmental studies
- Environmental science
- Environmental science/studies
- Natural resources conservation and research, other
- Natural resources management and policy
- Natural resource economics
- Water, wetlands, and marine resources management
- Land use planning and management/development
- Natural resources management and policy, other
- Fishing and fisheries sciences and management
- Forestry, general
- Forest sciences and biology
- Forest management/forest resources management
- Urban forestry
- Wood science and wood products/pulp and paper technology
- Forest resources production and management
- Forest technology/technician
- Forestry, other
- Wildlife and wildlands science and management
- Natural resources and conservation, other

Original data
### Calculations

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<th>Master’s degrees</th>
<th>Doctor’s degrees (Ph.D., Ed.D., etc.)</th>
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### 1990 (ED Stats 1991-1992)

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<td>9 636.00</td>
<td>23 774.00</td>
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</table>

**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
Medicinal plants, food and forage species, Christmas trees - products of biological origin other than wood, derived from forests

Original data
From previous FRA

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name of product</th>
<th>Key species</th>
<th>Commercial value of NWFP removals in 2010 (value 1000 local currency)</th>
<th>NWFP category</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Christmas Trees</td>
<td>Mixed Softwoods</td>
<td>1,070,000</td>
<td>8</td>
</tr>
<tr>
<td>2nd</td>
<td>*Pecans (shelled or in-shell)</td>
<td>Carya illinoinensis</td>
<td>492,714</td>
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<tr>
<td>3rd</td>
<td>Honey</td>
<td>Mixed</td>
<td>257,000</td>
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<tr>
<td>4th</td>
<td>Maple Syrup</td>
<td>Acer saccharum</td>
<td>106,000</td>
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<tr>
<td>5th</td>
<td>*Foliage, moss, lichens, branches or other parts for ornamental purposes</td>
<td>Mixed</td>
<td>118,932</td>
<td>6</td>
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<tr>
<td>6th</td>
<td>*Blueberries</td>
<td>Vaccinium spp.</td>
<td>79,946</td>
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<td>7th</td>
<td>Furbearing Animals</td>
<td>Mixed</td>
<td>40,603</td>
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<td>8th</td>
<td>*Ginseng</td>
<td>Panax quinquefolius</td>
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<td>*Gum, wood, turpentine oils</td>
<td>Mixed softwoods</td>
<td>32,863</td>
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<tr>
<td>10th</td>
<td>Cranberries and other fruits from the genus Vaccinium (excluding blueberries)</td>
<td>Vaccinium spp.</td>
<td>21,293</td>
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<td>TOTAL</td>
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</table>
### Name of NWFP product | Key species | Quantity | Unit | Value (1000 local currency) | NWFP category
--- | --- | --- | --- | --- | ---
#1 Arts, Crafts, and Florals | mixed | 5 645 532 | Pounds | 69 000 | 8 Other plant products
#2 Christmas trees | mixed softwoods | 212 744 | each | 47 700 | 8 Other plant products
#3 Edible fruits, nuts, and sap | mixed | 670 726 | pounds* | 30 700 | 1 Food
#4 Grass and forage | mixed | 4 120 983 | pounds | 10 800 | 2 Fodder
#5 Regeneration and seed | mixed | 333 781 | pounds | 49 000 | 6 Ornamental plants
#6 Landscaping | mixed | 46 499 | each | 2 800 | 6 Ornamental plants
#7 Herbs and medicinals | mixed | 42 650 | pounds | 1 700 | 3 Raw material for medicine and aromatic products
#8
#9
#10
All other plant products
All other animal products
Total

| Name of currency | USD |

### Comments
Quantities are listed by the unit that represented the largest volume of a product in a particular category - for example, edible fruits, nuts, and sap quantities are collected as pounds, gallons, and number of taps and I couldn’t list the quantities of all three of those, so I used the largest category.

These constitute first point-of-sale values, which is why they are so different from prior numbers, which were export dollars.
These are considered to be vast underestimates of nonwood forest product harvesting in the United States, as much (if not most) is not currently tracked, particularly on privately owned land.
# 8 Sustainable Development Goal 15

## 8a Sustainable Development Goal 15

### SDG Indicator 15.1.1 Forest area as proportion of total land area 2015

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Forest area as proportion of total land area 2015</td>
<td>33.18</td>
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**Name of agency responsible**

### SDG Indicator 15.2.1 Progress towards sustainable forest management

<table>
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<th>Sub-Indicator 1</th>
<th>Percent</th>
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<td>Forest area annual net change rate</td>
<td>0.17</td>
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**Name of agency responsible**

<table>
<thead>
<tr>
<th>Sub-Indicator 2</th>
<th>Forest biomass (tonnes/ha)</th>
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<tbody>
<tr>
<td>Above-ground biomass stock in forest</td>
<td>84.88</td>
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**Name of agency responsible**
### Sub-Indicator 3

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<tbody>
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<td>9.75</td>
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**Name of agency responsible**

### Sub-Indicator 4

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**Name of agency responsible**

### Sub-Indicator 5

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**Name of agency responsible**